

AFRL-IF-RS-TR-2005-247
Final Technical Report
June 2005



DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA) AGENT MARKUP LANGUAGE COMPUTER AIDED KNOWLEDGE ACQUISITION

Dynamics Research Corporation

Sponsored by
Defense Advanced Research Projects Agency
DARPA Order No. K531

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.

The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the Defense Advanced Research Projects Agency or the U.S. Government.

AIR FORCE RESEARCH LABORATORY
INFORMATION DIRECTORATE
ROME RESEARCH SITE
ROME, NEW YORK

STINFO FINAL REPORT

This report has been reviewed by the Air Force Research Laboratory, Information Directorate, Public Affairs Office (IFOIPA) and is releasable to the National Technical Information Service (NTIS). At NTIS it will be releasable to the general public, including foreign nations.

AFRL-IF-RS-TR-2005-247 has been reviewed and is approved for publication

APPROVED: /s/

MARK GORNIAK
Project Engineer

FOR THE DIRECTOR: /s/

JAMES W. CUSACK, Chief
Information Systems Division
Information Directorate

REPORT DOCUMENTATION PAGE			<i>Form Approved</i> OMB No. 074-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503				
1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE JUNE 2005	3. REPORT TYPE AND DATES COVERED Final Jun 00 – Dec 04	
4. TITLE AND SUBTITLE DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA) AGENT MARKUP LANGUAGE COMPUTER AIDED KNOWLEDGE ACQUISITION			5. FUNDING NUMBERS C - F30602-00-C-0170 PE - 62301E PR - DAML TA - 00 WU - 03	
6. AUTHOR(S) Lee Lacy				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Dynamics Research Corporation 3505 Lake Lynda Drive Suite 100 Orlando Florida 32817			8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) Defense Advanced Research Projects Agency AFRL/IFSB 3701 North Fairfax Drive 525 Brooks Road Arlington Virginia 22203-1714 Rome New York 13441-4505			10. SPONSORING / MONITORING AGENCY REPORT NUMBER AFRL-IF-RS-TR-2005-247	
11. SUPPLEMENTARY NOTES AFRL Project Engineer: Mark Gorniak/IFSB/(315) 330-7724/ Mark.Gorniak@rl.af.mil				
12a. DISTRIBUTION / AVAILABILITY STATEMENT APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.				12b. DISTRIBUTION CODE
13. ABSTRACT (Maximum 200 Words) Dynamics Research Corporation (DRC) supported DARPA Agent Markup Language (DAML) research by investigating potential military applications for Semantic Web technology. DRC developed a variety of ontologies to demonstrate the application of DAML technology and to identify challenges to military-specific applications. DRC's experience with ontology development and maintenance led to the development of ontology configuration management and versioning processes. Initial research under this contract has influenced the adoption of DAML by the Air Force's Air Mobility Command (AMC) Integrated Flight Management Advanced Technology Demonstration (IFM/ATD) Foreign Clearance Guide effort and the Joint Explosive Ordnance Disposal (EOD) Advanced Concepts Technology Demonstration (ACTD) program. DAML technology continues to evolve and promises to provide benefits for military applications.				
14. SUBJECT TERMS DARPA Agent Markup Language, DAML, Ontology, Military Ontologies, Ontology Configuration Management and Versioning Process				15. NUMBER OF PAGES 450
				16. PRICE CODE
17. SECURITY CLASSIFICATION OF REPORT UNCLASSIFIED	18. SECURITY CLASSIFICATION OF THIS PAGE UNCLASSIFIED	19. SECURITY CLASSIFICATION OF ABSTRACT UNCLASSIFIED	20. LIMITATION OF ABSTRACT UL	

TABLE OF CONTENTS

1	INTRODUCTION.....	1
1.1	DAML.....	1
1.2	DRC Scope.....	1
2	RESULTS	2
2.1	Domain Ontology Development Results	2
2.1.1	<i>Task-list related ontologies.....</i>	3
2.1.2	<i>DAML-Experiment Support Ontologies.....</i>	3
2.1.3	<i>Horizontal Ontologies.....</i>	4
2.1.4	<i>Intelligence Reporting / Homeland Security Ontologies</i>	5
2.1.5	<i>Military Applications Ontologies.....</i>	6
2.1.6	<i>Dynamic Job Aid System Ontologies</i>	6
2.1.7	<i>Assignment-Related Ontologies.....</i>	8
2.2	Specific Work Assignments.....	8
2.2.1	<i>Assignment 1: DAML Home Pages.....</i>	8
2.2.2	<i>Assignment 2: DAML Queries/Life Cycle.....</i>	8
2.2.3	<i>Assignment 3: Large-Scale DAML Content.....</i>	10
2.2.4	<i>Hot DAML Competition: Restaurant Concierge Service.....</i>	11
2.3	Ontology Development and Management Processes.....	11
2.3.1	<i>Ontology Development Process.....</i>	11
2.3.2	<i>Ontology Configuration Management Process</i>	12
2.3.3	<i>Versioning Issues</i>	13
2.4	Transition Efforts	13
2.4.1	<i>Foreign Clearance Guide (FCG).....</i>	13
2.4.2	<i>Joint Explosive Ordnance Disposal (JEOD) Knowledge Technology Operational Demonstration (KTOD) Advanced Concepts Technical Demonstration (ACTD).....</i>	14
2.4.3	<i>Air Force Research Laboratories (AFRL) / Defense Modeling and Simulation Office (DMSO) Human Behavior Representation (HBR).....</i>	14
2.5	Program Management Activities	14
2.5.1	<i>Meetings.....</i>	15
2.5.2	<i>Reports / Deliverables.....</i>	15
2.5.3	<i>Project Website</i>	16
3	FUTURE DIRECTIONS.....	17
4	CONCLUSIONS	18
5	SUMMARY	19
6	REFERENCES.....	20
	APPENDIX A – DRC ONTOLOGY TESTING AND PUBLISHING PROCESS.....	21
	APPENDIX B: TASK LIST ONTOLOGY	25
	APPENDIX C: UJTL ONTOLOGY	31
	APPENDIX D: CONDITIONS ONTOLOGY	36
	APPENDIX E: GOALS / OBJECTIVES ONTOLOGY.....	147

APPENDIX F: NATIONAL SECURITY ORGANIZATION ONTOLOGY	151
APPENDIX G: BIBLIOGRAPHIC ONTOLOGY	160
APPENDIX H : DAML-EXTENSION ONTOLOGY	167
APPENDIX I: DUBLIN CORE ONTOLOGY	169
APPENDIX J: GLOSSARY ONTOLOGY	174
APPENDIX K: GPS ONTOLOGY	192
APPENDIX L: THESAURUS ONTOLOGY	204
APPENDIX M: UNIVERSALPROPERTY ONTOLOGY	209
APPENDIX N: VES ONTOLOGY	211
APPENDIX O: VLS ONTOLOGY	221
APPENDIX P: COMMERCIAL SHIPPING ONTOLOGY	232
APPENDIX Q: FUGITIVE ONTOLOGY	239
APPENDIX R: INTELLIGENCE REPORT ONTOLOGY	244
APPENDIX S: ARMYEQ ONTOLOGIES	253
APPENDIX T: LANDPLATFORM ONTOLOGY	330
APPENDIX U: TTP ONTOLOGY	414
APPENDIX V: GENEALOGY ONTOLOGY	418
APPENDIX W: LOCATOR ONTOLOGY	422
APPENDIX X: ORGANIZATION ONTOLOGY	428
APPENDIX Y: PERSON ONTOLOGY	432
APPENDIX Z: POC ONTOLOGY	436
APPENDIX AA: – RESUME ONTOLOGY	439

LIST OF FIGURES

FIGURE 1. DYNAMIC JOB AID TOOL TEST HARNESS SCREEN	7
FIGURE 2. QUERY LIFECYCLE.....	9
FIGURE 3. ONTOLOGY DEVELOPMENT PROCESS	12
FIGURE 4. DRC PROJECT WEBSITE	16

1 INTRODUCTION

This report describes the research activities performed by Dynamics Research Corporation (DRC) in support of the DARPA Agent Markup Language (DAML).

1.1 DAML

Research is being conducted by DARPA to develop a language to support the concept of a Semantic Web. A Semantic Web provides computer-understandable representations of information to support automated capabilities that are currently impossible using HTML representations.

The Semantic Web concepts being researched by DARPA are intended to fulfill Sir Tim Berners-Lee's concept of a web of meaning (Berners-Lee, 2000). Implementing the Semantic Web requires marking up information with explicit semantics. The computer science notion of ontologies supports the description of information. An ontology language is required to encode an ontology.

DAML is an ontology language based on existing W3C standards (e.g., XML, RDF). DAML overcomes the limitations of HTML (a formatting language for text) and XML (a metalanguage for representing data) by providing language constructs for consistently representing information. DAML is based on Description Logics. Description Logics are an information representation technique that use frame-based concepts of slots and fillers for describing information about a particular object. DAML eventually evolved into the Web Ontology Language – OWL. OWL became an official W3C Recommendation on February 10, 2004.

1.2 DRC Scope

DARPA DAML researchers included a number of academic institutions and contractors. DRC focused on researching a broad range of military applications of DAML technology and to support language development efforts by identifying lessons learning in developing military applications of the new technology.

2 RESULTS

The following sections of this report summarize the results from this research including:

- Domain ontology development,
- Specific work assignments,
- Ontology management processes,
- Transition efforts, and
- Program management activities.

2.1 Domain Ontology Development Results

DAML is used to represent ontologies. Ontologies are computer-understandable descriptions for a particular domain. DAML ontologies are based on description logic techniques and are related to object-oriented class descriptions.

DRC developed a variety of ontologies to demonstrate the application of DAML technology and to identify challenges for military-specific applications. The following sets of ontologies were developed under this effort:

- Task-list related ontologies
- DAML-Experiment Support Ontologies
- Common Use Ontologies
- Intelligence Reporting / Homeland Security Ontologies
- Military Applications Ontologies
- Dynamic Job Aid Support Ontologies
- Assignment-related Ontologies

The results of developing each of these groups are detailed below.

2.1.1 Task-list related ontologies

The United States military doctrine is tied to formally specified military tasks. Various guidance in the military directs commanders to limit their training and operations capabilities to authoritative lists of tasks, many of which were originally developed by DRC under other contracts. Various military users interested in DAML technology expressed an interest in representing tasks in DAML.

The following specific DAML ontologies were developed:

- TaskList - an ontology for representing descriptions of tasks and structural hierarchies, not the formal representation of task concepts (provided in Attachment 1).
- TaskListUJTLSenario - an ontology to describe a particular scenario of the Universal Joint Task List (UJTL). It references the task list ontology, and defines task categories and the relationships between them (provided in Attachment 2).

As part of this effort, we worked with Explosive Ordnance Disposal (EOD) community to develop a scenario that related back to EOD-related military tasks.

The task list ontologies provide a mechanism for encoding tasks lists and relating tasks to the standard types of tasks defined by the UJTL's levels of war. Task lists are increasingly of interest in DoD as the Defense Readiness Reporting System (DRRS) moves towards a task-based readiness concept.

Although the task list ontology captures the text of a task description, the meaning of the task is not represented. Some type of verb taxonomy is needed to support the representation of types of tasks.

2.1.2 DAML-Experiment Support Ontologies

A DAML experiment was developed to demonstrate the benefits of Semantic Web technology to the military community. The demonstration involved performing an Operational Net Assessment. DRC developed ontologies to support BBN's effort in developing the experiment. A white paper was developed to document the National

Security Organization so that researchers supporting the DAML experiment would have a common understanding.

The following specific DAML ontologies were developed:

- Conditions - an ontology for UJTL 4.0 Conditions (provided in Attachment 3).
- Goals / Objectives - this ontology describes a hierarchy for national military goals and objectives (provided in Attachment 4).
- National Security Organization - this ontology represents the high-level classes and relationships for the National Security Organization of the US (provided in Attachment 5).

2.1.3 Horizontal Ontologies

Small granular ontologies are more likely to be applicable to a diverse set of implementations for reuse than complex broad ontologies. As part of developing other ontologies, DRC developed several small reusable ontologies. Several of these ontologies have found their way into other researchers' work. The following specific DAML horizontal ontologies were developed:

- Bibliographic - A sample bibliographic ontology, with data types taken from ISO 12620:1999(E) Annex B (provided in Attachment 6).
- DAML-extension - this ontology defines extensions to the DAML specification ontology (provided in Attachment 7).
- DC - ontology was derived from the v1.1 Element Set from Dublin Core (provided in Attachment 8).
- Glossary - a sample glossary ontology, with data types taken from ISO 12200 and ISO 12620 (provided in Attachment 9)
- GPS - an ontology to capture the most popular coordinate systems used by GPS (provided in Attachment 10).
- Thesaurus - an ontology for representing thesauri such as the Center for Army Lessons Learned (CALL) thesaurus entries (provided in Attachment 11).
- UniversalProperty - this ontology defines general properties that are used with most Things. They can be used directly or can be built upon by creating a subproperty (provided in Attachment 12).
- VES - Some of the elements in the versioning ontology were defined by Dublin Core and are defined as subproperties (provided in Attachment 13).

- VLS - provides features for versioning of ontologies and instances (artifacts). It includes relations to previous and next versions, status indications, explicit statements for backward compatibility, and indications for depreciation and obsolescence (provided in Attachment 14).

Horizontal ontologies are intended to be used for a variety of applications as opposed to vertical ontologies that support a particular domain.

2.1.4 Intelligence Reporting / Homeland Security Ontologies

The DoD's Intelink program provided unclassified sample reports as a challenge problem at one of the DAML meetings. DRC was the only researcher to develop supporting ontologies. DRC researchers were presenting this work to Murray Burke on the morning of 9/11/01. Extensions were developed following 9/11/01 events to demonstrate the ability of the ontology to be extended to support describing terrorist-related events, individuals, and organizations. A commercial shipping ontology was developed to support an NWDC homeland security demonstration.

The following specific DAML ontologies were developed:

- Commercial Shipping - A sample commercial/merchant ships ontology. Source being Jane's Merchant Ships 2000-2001 and the third edition 1998-1999 (provided in Attachment 15).
- Fugitive - An ontology to capture data about fugitives (provided in Attachment 16).
- Intelligence Report - Intelink Report ontology (provided in Attachment 17)

Ontologies provide an excellent technology for integrating disparate heterogeneous databases. However, a thorough understanding of the existing databases is needed in order to develop the associated ontologies that are meant to interoperate.

2.1.5 Military Applications Ontologies

Representations of military equipment characteristics and performance data is a common requirement in the intelligence and simulation communities. The following specific DAML ontologies were developed:

- ArmyEQ – an early implementation that is no longer provided on the website (provided in Attachment 18)
- LandPlatform – Military land platform ontology based on the Distributed Interactive Simulation (DIS) enumeration standard (provided in Attachment 19)

Military equipment can be easily represented in taxonomies that are encoded as ontologies (e.g., F-16 is a Fighter Aircraft which is an Aircraft).

2.1.6 Dynamic Job Aid System Ontologies

An ontology was developed to support the Dynamic Job Aid System (DJAS). DJAS was built to demonstrate condition-based Tactics, Techniques, and Procedures (TTP) job aid presentations (Meeks, 2004). A sample screen from the prototype tool is shown in Figure 1. The primary intended domain for use was the Joint Explosive Ordnance Disposal (JEOD) community. However, the domain-agile tool can be used in any domain that has procedural information associated with conditions. Although the current ontology supports describing procedures related to any domain, it lacks connectivity to related domain ontologies. Significant additional functionality can be achieved once this connection takes place.

The following specific DAML ontology was developed:

- TTP – a domain-independent ontology for supporting the dynamic presentation of condition-associated procedural information (provided in Attachment 20).

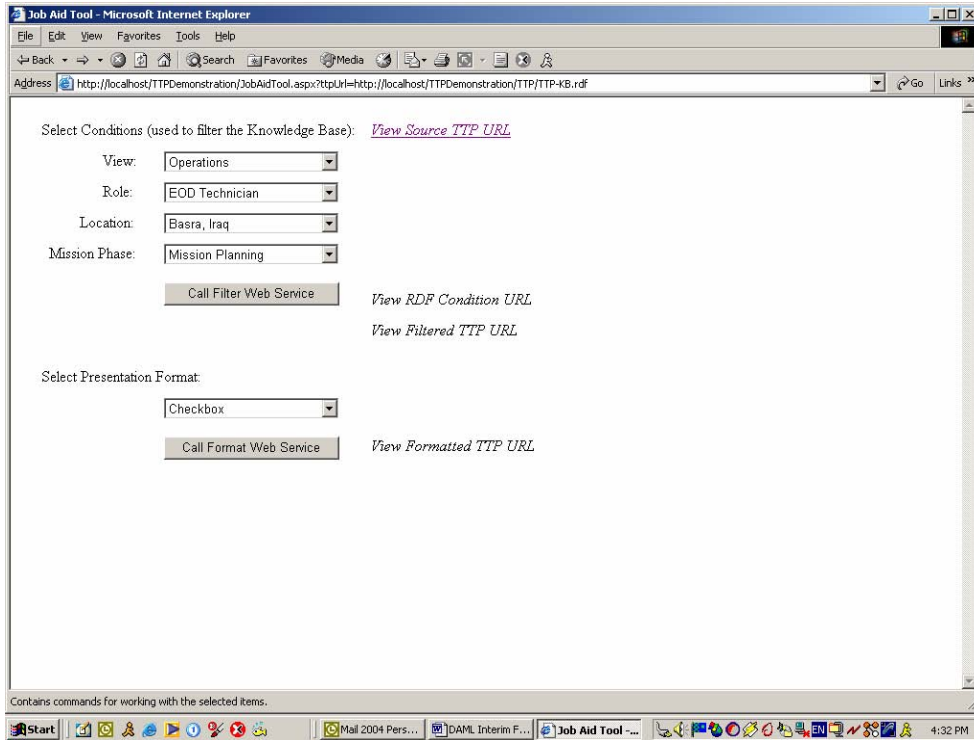


Figure 1. Dynamic Job Aid Tool Test Harness Screen

The design of the TTP ontology was influenced by the Interactive Electronic Technical Manual (IETM) and Sharable Content Object Reference Model (SCORM) initiatives. The demonstration software was developed using web services. It was demonstrated to the technical lead of the JEOD ACTD effort. The lead expressed interest in developing a prototype that fully implemented the JEOD ACTD Build 2.0 TTP.

2.1.7 Assignment-Related Ontologies

Several ontologies were developed as a result of specific DARPA work assignments including the following:

- Genealogy - genealogy ontology based on a subset of the GEDCOM data model (provided in Attachment 21).
- Locator - ontology used to describe addresses (provided in Attachment 22).
- Organization - an ontology for a generic organizational structure (provided in Attachment 23).
- Person - an ontology for a person (provided in Attachment 24).
- POC - A Point of Contact (POC) Ontology (provided in Attachment 25)
- Resume - ontology used for representing individuals (early version no longer provided on the website) (provided in Attachment 26).

2.2 Specific Work Assignments

Assignments were made early in the program by the DARPA project director to ensure early use of the DAML specification. The following sections detail the results of performing the specific work assignments.

2.2.1 Assignment 1: DAML Home Pages

Each team was expected to use DAML-ONT to define an ontology and markup home pages (10 pages minimum per funded project) describing our project, personnel, and related information. These page were made publicly accessible on the Internet through our project website to provide DAML examples and test data for initial DAML experiments. We also developed a "lessons learned" page, describing our experiences, and suggested language improvements/additions.

2.2.2 Assignment 2: DAML Queries/Life Cycle

This assignment was intended to initiate research regarding the portions of the DAML "life cycle" beyond ontology and content creation. DRC developed sample queries, described how queries might be processed, and developed a lifecycle diagram to show how queries might be processed (Figure 2).

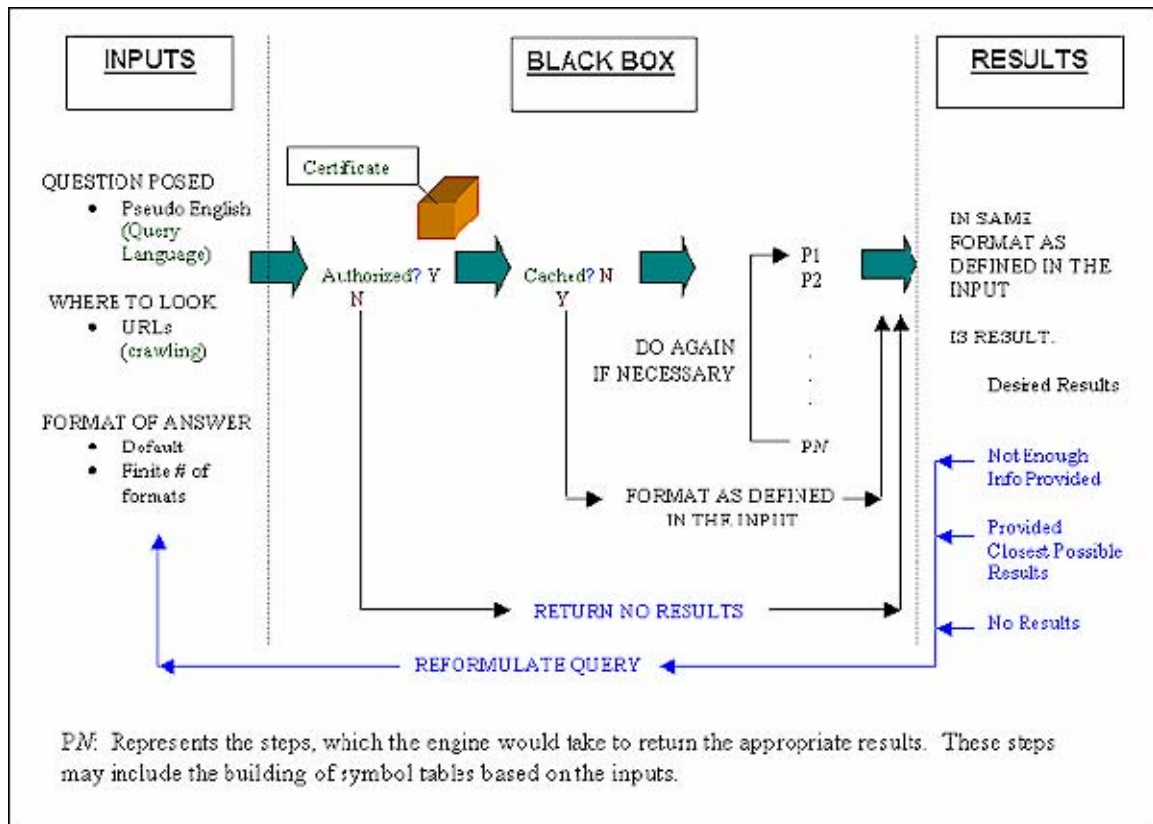


Figure 2. Query Lifecycle

The query life-cycle diagram provides a high-level architecture overview describing some of the major software components and how data will flow among them. The diagram is divided into three sections: inputs, black box, and results.

2.2.3 Assignment 3: Large-Scale DAML Content

Assignment 3 was intended to gain experience with DAML, focus attention on creating instances (content) as well as ontologies, provide additional DAML content for subsequent experiments, and to encourage thought regarding large-scale conversion and/or dynamic generation of DAML content.

DRC addressed this assignment by developing the CALL thesaurus ontology and the GEDCOM genealogy ontology.

The CALL thesaurus ontology was developed for monolingual thesauri. The Center for Army Lessons Learned (CALL) thesaurus was the source of the DAML instance data content. CALL maintains an ever-growing thesaurus, currently containing 17,000+ terms. In total there are over 46,000 relationships captured by the CALL Thesaurus.

CALL provided a flat text file containing each entry with corresponding relationships. The ontology design was based on the Guidelines for the Construction, Format and Management of Monolingual Thesauri (ANSI/NISO Z39.19-1993). Therefore, any organization's thesaurus that conformed to the ANSI standard could be easily converted to a DAML representation because of the consistent mapping of semantics enforced by the ANSI standard.

The GEDCOM genealogy ontology was developed to demonstrate how genealogy data could be provided in DAML format. The resulting view would be useable by tools such as query engines that could crawl the web and perform complex queries.

Thousands of people track their genealogy using commercial off-the-shelf software. Most genealogy software packages export their data to the GEDCOM file format standard for data interchange. DRC's GEDCOM ontology was developed to support interchanging data that is currently provided in GEDCOM format. By upgrading content from GEDCOM format to DAML format, inferencing by non-GEDCOM savvy software could be performed.

2.2.4 Hot DAML Competition: Restaurant Concierge Service

A competition was held to develop demonstration applications using DAML. DRC developed a prototype restaurant concierge application and demonstrated it at the PI meeting in Nashua. DAML Dining provides a web-based user interface to specify search parameters. The search parameters are then compared to restaurant information marked up using DAML. Query results are presented to the user.

2.3 Ontology Development and Management Processes

As part of the development of ontologies, DRC recognized the need for mature processes related to developing and maintaining these ontologies.

2.3.1 Ontology Development Process

The process of developing an ontology is similar to developing software. As with software, it is important to create a mature documented repeatable approach for developing ontologies. DRC-developed data engineering processes were evolved to create the process used in this effort. Figure 3 provides an IDEF0 overview of the process.

The most important activity in the process involves specifying requirements for the ontology. Based on the ontology requirements, knowledge acquisition and knowledge engineering is performed to acquire and distill authoritative data into a knowledge engineering document. This document is used to design the ontology with graphical object-oriented diagrams. The ontology design is used to encode the ontology, which is then tested and published.

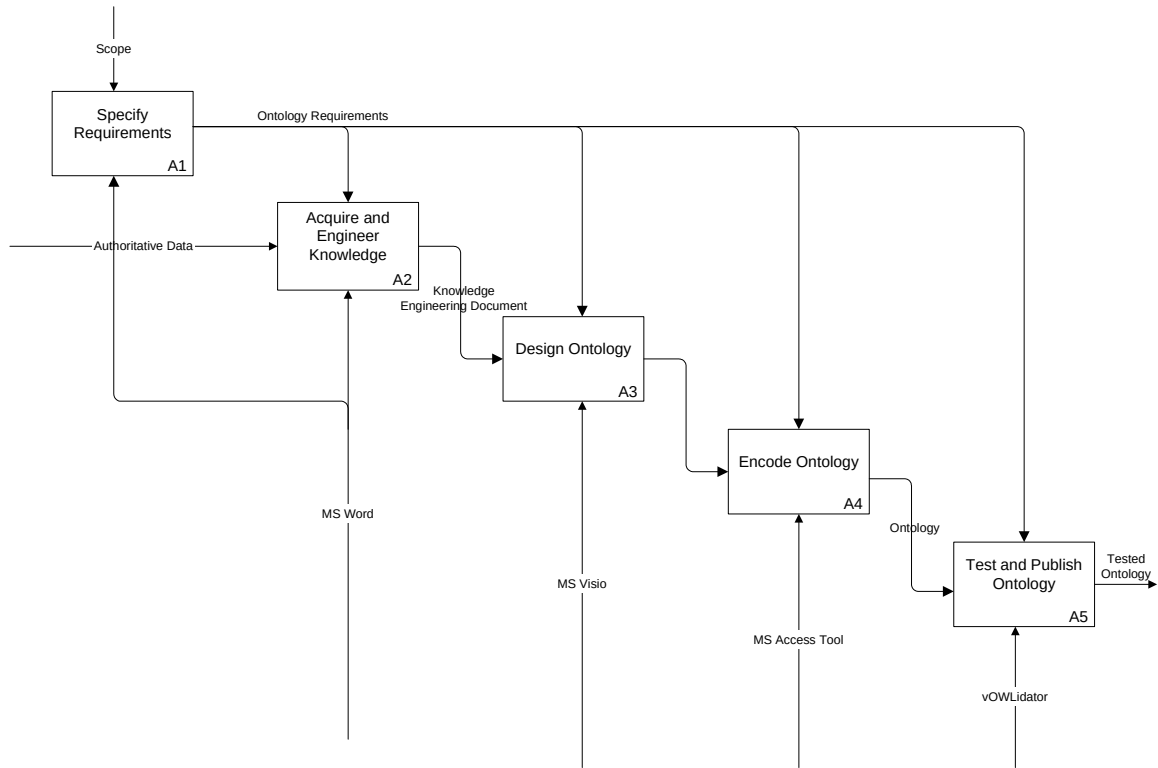


Figure 3. Ontology Development Process

2.3.2 Ontology Configuration Management Process

In a team environment, the testing, publication, and maintenance of ontologies and artifacts can become overwhelming if not carefully managed. DRC engineers were initially provided with read/write access to a directory on the DRC web server. However, there are problems associated with making published ontologies and artifacts available for all team members to change. DRC developed a process that enabled all team members to validate their work using the web version of the DAML Validator. The documented process (provided in Appendix A) detailed the roles (e.g., ontologist, webmaster, publisher) and duties of each team member in the development and publication of DAML ontological products.

2.3.3 Versioning Issues

A mature process for managing evolving versions of ontologies is critical to the success of the Semantic Web. DRC developed an Ontological Product Delivery Protocol (OPDP) to address the challenges of supporting multiple versions of ontologies.

Currently, ontologies and artifacts require links to specific versions of other products that they reference. Multiple versions of products must exist when changes are made to continue to support applications that reference older versions. Also, some users of an updated ontology may want to reference the newer version.

The DRC-developed OPDP allows for URLs in ontologies and artifacts to dynamically refer to the most recent version of the desired resource, while maintaining a reference to the intended version. An agent, in case of error or lack of backward compatibility, can then use the reference dynamically. The OPDP does not require any particular versioning numbering scheme or directory structure. Ontology publishers are free to choose any systematic approach for their URLs and versioning schemes that allow for the dynamic retrieval of both the current version and specific versions.

2.4 Transition Efforts

There is no better metric of success in a DARPA-style research effort than the adoption of developed technology by programs funded from other sources. Examples of projects that have successfully “spun off” from the DARPA effort are the Air Force’s AMC IFM/ATD Foreign Clearance Guide project, the JEOD-KTOD ACTD data engineering effort, and the AFRL/DMSO HBR research.

2.4.1 Foreign Clearance Guide (FCG)

The Foreign Clearance Guide (FCG) document contains information about the regulations, restrictions, and procedures that each country requires in order to process and grant diplomatic clearances for military air missions.

DRC worked with BBN to develop a prototype lead-time extractor program that makes use of DAML FCG data, ontologies, and local knowledge base information. The

information represented International Civil Aviation Organizations (ICAOs), identified locations, and individual country workdays. The Diplomatic Clearance Request lead-time can be computed for a given AMC mission. DRC and BBN worked together on this effort, with DRC developing the ontologies and BBN developing the software agents, local knowledge base tools, and the lead-time extractor prototype.

The Air Force considered the prototype results in awarding a research contract to a BBN/DRC team to develop agent-based improvements to the Air Force Integrated Flight Management System (IFMS).

2.4.2 Joint Explosive Ordnance Disposal (JEOD) Knowledge Technology Operational Demonstration (KTOD) Advanced Concepts Technical Demonstration (ACTD)

The Joint Explosive Ordnance Disposal (JEOD) Knowledge Technology Operational Demonstration (KTOD) Advanced Concepts Technical Demonstration (ACTD) is updating the tools and doctrine used by EOD technicians.

DRC worked with the ACTD researchers to identify potential applications of DAML technology within their tool architecture. The researchers eventually decided to include DAML in their data architecture and DRC was awarded a subcontract by the ACTD contractor, Raytheon, to provide data engineering services as part of the ACTD.

2.4.3 Air Force Research Laboratories (AFRL) / Defense Modeling and Simulation Office (DMSO) Human Behavior Representation (HBR)

The AFRL Human Behavior Representation effort for the Defense Modeling and Simulation Office (DMSO) is focused on improving behavior representation for Computer Generated Forces (CGF) systems. DRC has performed research involving the representation of composable behaviors and primitive behavior metadata using OWL ontologies (Lacy, 2003) (Gerber 2004).

2.5 Program Management Activities

A variety of activities were performed under this effort that supported the management of the project and satisfaction of specific contract requirements. The

following sections describe the meetings supported, reports and deliverables provided, and the project website.

2.5.1 Meetings

A variety of meetings were supported and attended in support of these efforts. These meetings included:

- DAML Kick-off meeting – Cambridge, MA
- DAML February 2001 PI Meeting – Arlington, VA
- University After Next Knowledge Management Conference - May 2001, Overland Park, KS
- DAML Semantic Web for Military Users Day – June 2001 (Arlington, VA)
- DAML July 2001 PI Meeting – Nashua, NY
- DARPA Progress Discussions – Arlington, VA (September 2001)
- DAML Semantic Web for Military Users Day #2 – November 2001 (Washington, D.C.)
- NWDC DAML Day – January 2002 (Newport, RI)
- DAML February 2002 PI Meeting – St. Petersburg, FL
- EOD Data Engineering Architecture Meeting – Pittsburgh, PA (September 2002)
- DAML October 2002 PI Meeting – Portland, OR
- DAML PI Meeting – Miami, FL
- DAML October 2003 PI Meeting – Sanibel Island, FL
- International Semantic Web Conference – Sanibel Island, FL
- DAML May 2004 PI Meeting – New York, NY
- DAML November/December 2004 PI Meeting – San Antonio, TX

2.5.2 Reports / Deliverables

DRC provided reports including monthly technical progress reports, monthly cost reports, presentation materials, an interim final report, a Software Product Specification (SPS), and this final report.

2.5.3 Project Website

DRC maintained a project website throughout the effort (see Figure 4).

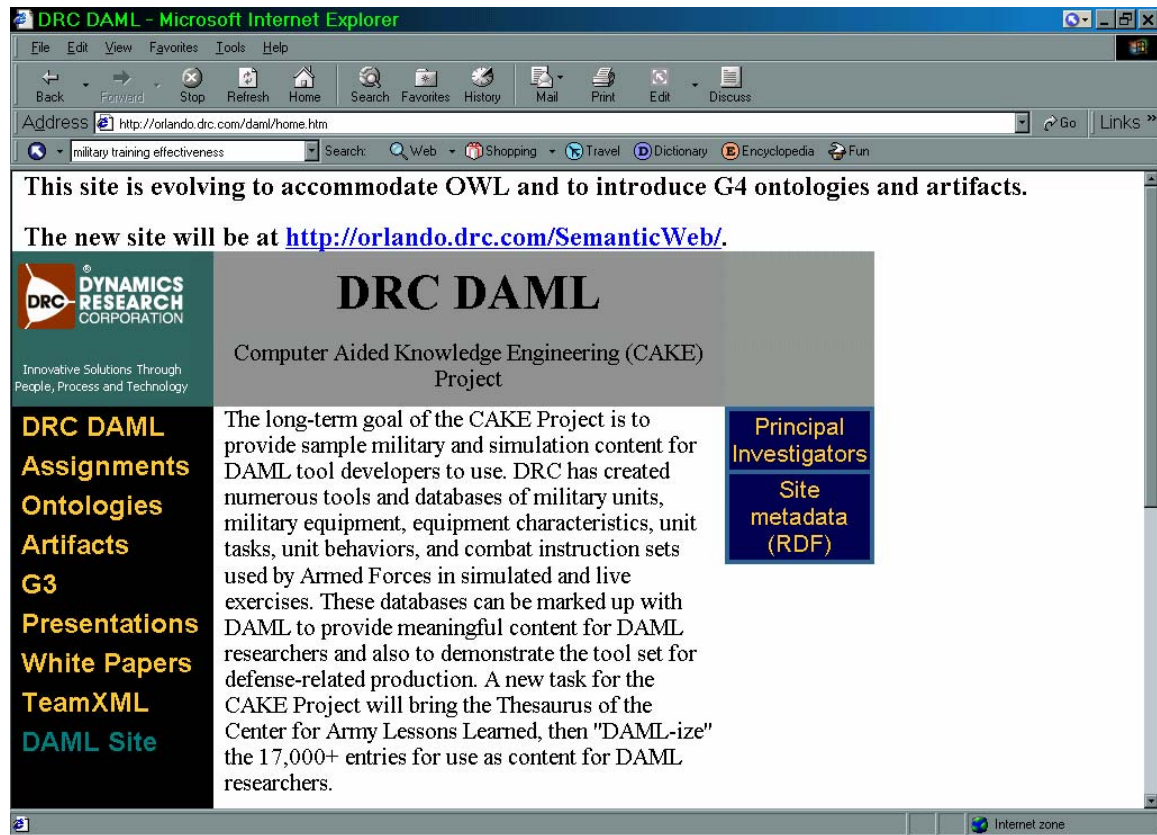


Figure 4. DRC Project Website

The website includes sections on:

- Results of the specific work assignments (Assignments),
- Ontologies developed as part of this effort (Ontologies),
- Sample instance/artifact files associated with developed ontologies (Artifacts),
- Information on updating ontologies to the latest version of DAML,
- Presentations from meetings (Presentations),
- White papers, and
- Information on the DRC research team.

A related version of the website is associated with OWL. The website is currently hosted at: <http://Orlando.drc.com/DAML>.

3 FUTURE DIRECTIONS

Continued research is needed to help identify appropriate military applications for DAML's successor – OWL. Government groups need assistance with evolving implementations to take advantage of the Semantic Web.

One example of a potential user of the technology is the Navy Warfare Development Center (NWDC). NWDC has recognized the value of Semantic Web technology and has been investigating its use in their Expeditionary Sensor Grid (ESG) and FORCEnet research.

ESG is a concept for a multi-tiered, warfighter-centered architecture of numerous and heterogeneous battlespace sensors. NWDC has recognized the potential benefits of using DAML technology for representing sensor information.

FORCEnet is an architecture of sensors, networks, decision aids, weapons, warriors, and supporting systems. It is intended to integrate technologies, warfighting systems, and people. It will provide agile, lethal, and effects-based combat power. DAML has potential for providing solutions to information sharing within FORCEnet. Another potential long term user of the technology is the JEOD ACTD.

DARPA and AFRL should consider directing future research funds to support NWDC's efforts. The objectives of these projects are consistent with the DARPA IXO mission and offer a significant transition opportunity.

4 CONCLUSIONS

The following conclusions have been reached from the conduct of this research:

OWL represents an exciting new enabling technology for defining the explicit semantics of information and supporting inferencing.

Pilot projects (e.g., JEOD, FCG) have experimented with using OWL. However, it has proven difficult to successfully transition OWL products into operational systems. For the military to fully benefit from Semantic Web technology, barriers to implementation must be overcome. These involve the lack of tools and the need for training.

Tools are needed to support application development and validate technology with potential users. Although prototype tools were generated by the DAML program, commercial grade tools are required to implement applications. The existence of commercial OWL-compliant tools will provide credibility to the language.

Training is needed for developers and users to better understand OWL. There is a significant learning curve associated with the “alphabet soup” of underlying technologies (e.g., XML, RDF).

5 SUMMARY

DRC has been supporting DARPA's DAML research by investigating potential military applications for Semantic Web technology.

DRC developed a variety of ontologies to demonstrate the application of DAML technology and to identify challenges to military-specific applications. The following categories of ontologies were developed under this effort:

- Task-list related Ontologies
- DAML-Experiment Support Ontologies
- Horizontal Ontologies
- Intelligence Reporting / Homeland Security Ontologies
- Military Applications Ontologies
- TTP Job Aid Ontology
- Dynamic Job Aid Support Ontologies
- Assignment-related ontologies

DRC's experience with ontology development and maintenance led to the development of ontology configuration management and versioning processes.

Initial research under this contract has influenced the adoption of DAML by the Air Force's AMC IFM/ATD Foreign Clearance Guide effort and the JEOD ACTD program.

The transition of DAML into OWL represents a significant accomplishment. Although the military is experimenting with OWL, barriers associated with the lack of tools and training must be overcome.

DAML technology continues to evolve and promises to provide benefits for military applications.

6 REFERENCES

Berners-Lee, Tim, *Weaving the Web*, Harper Business, 2000.

Blais, Curtis, Lacy, Lee W., Vick, Shon D., Shon D. Vick, “Semantic Web: Implications for Modeling and Simulation System Interoperability”, Proceedings of the Fall 2004 Simulation Interoperability Workshop, September 2004, Orlando, FL.

Gerber, William J., Lacy, Lee W. “Behavior Composability Support Through Standardized Ontology Representations”, Proceedings of the Interservice/Industry Training, Simulation and Education Conference (I/ITSEC), December 6-9, 2004, Orlando, Florida (in press). Gerber, William J., Lacy, Lee W., “Standard Ontological Behavior Representation to Support Composability” (extended abstract), Proceedings of the 13th Behavior Representation in Modeling and Simulation Conference, May 17-20, 2004.

Lacy, Lee W., Gerber, William J., “Potential Modeling and Simulation Applications of the Web Ontology Language – OWL”, Proceedings of the Winter Simulation Conference (in press), December 2004, Washington D.C.

Lacy, Lee, Henninger, Amy, “Developing Primitive Behavior Ontologies using the Ontology Web Language”, Proceedings of the Interservice/Industry Training, Simulation and Education Conference (I/ITSEC), December 1-5, 2003, Orlando, Florida.

Meeks, Alan O., Aviles, Gabriel, Lacy, Lee W. “Auto-Authoring Instruction from Ontological Representations of Procedures”, Proceedings of the Interservice/Industry Training, Simulation and Education Conference (I/ITSEC), December 6-9, 2004, Orlando, Florida (in press).

Appendix A – DRC Ontology Testing and Publishing Process

The MIST – DRC's Ontology Testing and Release Process

1. Introduction

The MIST is the name of DRC's testing environment directory and the associated processes for testing and publishing ontologies. In order to test ontologies and artifacts via the web, the files must be available on the web. However, it is best to not open the published ontology and artifact directories for all team members to change.

The test directory "Mist" was created which has read/write permissions available to team members. The paths to the Mist are:

File directory: \\Orl01\DAML\Mist\

URL: <http://orlando.drc.com/daml/mist/>

Use the File path to write to Mist and the URL path to use the VOWLidator and the RDF Validator. The Mist directory includes an Artifact subdirectory and an Ontology subdirectory.

The Mist also serves as the staging area for publish-ready ontologies and artifacts. The Ontologist must inform the Webmaster that a particular file in the Mist is ready for publication.

2. Naming Conventions

Ontologies and Artifacts are stored in separate directories; however, their naming conventions are similar. Each has a Limited-Hierarchical-Category Directory Structure followed by the appropriate version directory and filename. Only one version should be stored in the directory. Thus, when appropriately chosen, the category hierarchy and version directories sufficiently identify any OWL file. But, since a filename is still necessary, the same filename should be used for each category. The filename can be anything, but is typically some composite of the category hierarchy.

Ontology Names:

"-ont" required.

example: `ontology/Thesaurus/CALL/3.2/CALL-Thesaurus-ont-.owl`

example: `ontology/Intelligence/Report/3.1/Intel-Report-ont.owl`

example: `ontology/Intelligence/Report/3.1.1/Intel-Report-ont.owl`

Artifact Names:

no "-ont" used.

example: `artifact/UJTL/v4.0/3.2/ujtl.owl`

example: `artifact/GPS/Coordinates/3.1/GPSCoordinates.owl`

The BNF below specify the rules for generating Ontology and Artifact paths.

Ontology PathName:

OntPath ::= "Ontology/"<CatHierarchy>"/"<Version>"/"<OntName>

OntName ::= <StemName>"-ont.owl"

Artifact PathName:

ArtPath ::= "Artifact/"<CatHierarchy>"/"<Version>"/"<ArtName>

ArtName ::= <StemName>".owl"

Directory and File names:

CatHierarchy ::= <Category>("/"<Category>)*

Category ::= <First>("." | <TheRest>)*

StemName ::= <First><TheRest>

First ::= <Letter> | <Digit>

TheRest ::= (<Letter> | <Digit> | "-" | "_" | "+")*

Version String:

Version ::= <Generation>". "<Release>["."<Update>]

Generation ::= <PositiveInteger>

Release ::= <PositiveInteger>

Update ::= <PositiveInteger>

3. Testing

The following steps describe the process for testing an ontology (testing artifacts is similar to testing ontologies).

The Tester must create the appropriate subdirectories to fit the URI's in the ontology. In addition, if it is a new ontology, then the Path and File Naming Convention should be used as a guide.

For example, if working on the “bubba gump” ontology, first create a “gump” directory in the “ontology” directory, and then created a “bubba” directory therein (e.g., “mist/ontology/gump/bubba”).

Embed the complete version (generation.release[.update]) as a subdirectory of the “bubba” directory (e.g., “mist/ontology/gump/bubba/3.1.4”). Choose a file name for the ontology and append “-ont.owl” to it. (Note: all versions will have the same name.) (e.g., “bubba-ont.owl”).

The Tester must copy the the OWL file to the directory (e.g., “/bubba/3.1.4/ directory”).

The Tester must ensure that namespace and resource URI's are correct and point to the “Mist” directory whenever appropriate.

For example:

```
xmlns:bba="http://orlando.drc.com/semanticweb/mist/ontology/gump/bubba/3.1.4/bubba-ont#"
```

xmlns="http://orlando.drc.com/semanticweb/mist/ontology/gump/bubba/3.1.4/bubba-ont#"

Note: the bba namespace and the default name space have the same URI.

Note: the Mist directory is in the path.

The Tester must go to the RDF Validator site and enter the URI of the ontology to test.

Note: the URI should be the same default namespace for the ontology less the "#". No errors should be identified by the validator. An ontology which does not pass the RDF Validator, may still pass the VOWLidator so both should be checked. The Tester must go to the VOWLidator site and enter the URI of the ontology to test.

The vOWLidator is “a work in progress”. Hence some of the indications are misleading while others are completely wrong. Consequently, a perfect passing status (0 warnings, 0 errors) does not mean the OWL file is syntactically correct. So, in its current state, the vOWLidator should be considered as a syntax guide rather than an absolute syntax checker.

4. Publishing

The following steps are used for publishing an ontology (publishing artifacts is similar to that of ontologies):

When passing conditions are reached the Ontologist must notify the Webmaster (via email, phone, in person, other means sans snail mail) that the tested ontology is ready for publication.

The Ontologist should supply the Webmaster with the URI for the tested ontology in the Mist and provide some metadata about the ontology including:

- Description,
- Keywords,
- Open Directory categories, and
- anything else that should be known about the ontology.

The Webmaster must confirm the passing state of the tested ontology while in the Mist. The Webmaster must also update the URI's within the file (removing references to the Mist) and move (not copy) the file to its appropriate location.

The Webmaster must clean up the Mist by deleting the directories created by the Tester.

The Webmaster must test the new ontology in its published (correct) location.

The Webmaster must publish the ontology via the OWL ontology submission page or allow the Ontologist to do so.

The Publisher must provide the following information:

point of contact (e.g., “Lee Lacy”),

company “DRC”,

submitter (the Ontologist’s name, not the Publishers's name, unless they are equal), and

email “TeamXML@drc.com”.

The Publisher must notify the Ontologist when the ontology has been published.

5. Summary

This process supports naming, testing, and publishing ontologies. Following these processes will result in consistent names, locations, and quality that will benefit the users of the ontology and artifact files.

Appendix B: Task List Ontology

```

<?xml version="1.0"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:daml="http://www.daml.org/2001/03/daml+oil#"
  xmlns:xsd="http://www.w3.org/2000/10/XMLSchema#"
  xmlns:dc="http://orlando.drc.com/daml/ontology/DC/3.2/dces-ont#"
  xmlns:ves="http://orlando.drc.com/daml/ontology/VES/3.2/drc-ves-ont#"
  xmlns:tskl="http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList-ont#"
  xmlns="http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList-ont#"
>
  <!-- TaskList Ontology -->
  <daml:Ontology rdf:about="">
    <ves:versioning>
      <ves:VersionData>
        <dc:title>TaskList Ontology</dc:title>

        <ves:previous>http://orlando.drc.com/daml/ontology/TaskList/3.1.1/TaskList
-ont.daml</ves:previous>

        <ves:location>http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList
-ont.daml</ves:location>

        <ves:version>3.1.2</ves:version>
        <ves:email>TeamXML@drc.com</ves:email>
        <dc:creator>DRC</dc:creator>
        <ves:statusDate>2002-02-27</ves:statusDate>
        <ves:status>published</ves:status>
      </ves:VersionData>
    </ves:versioning>
    <daml:imports rdf:resource="http://www.daml.org/2001/03/daml+oil"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/Ontology/daml-extension/3.2/daml-ext-
ont"/>
    <daml:comment>ontology for representing descriptions of tasks and
structural hierarchy, not the semantics of tasks.</daml:comment>
  </daml:Ontology>
  <!-- ***** Classes ***** -->
  <!-- TaskList Class ***** -->
  <daml:Class rdf:ID="TaskList">
    <daml:label>Task List</daml:label>
    <daml:subClassOf>
      <daml:Restriction rdf:about="#r-hasTask"/>
    </daml:subClassOf>
    <daml:subClassOf>
      <daml:Restriction rdf:about="#r-c1-title"/>
    </daml:subClassOf>
    <daml:subClassOf>
      <daml:Restriction rdf:about="#r-primarySource"/>
    </daml:subClassOf>
    <daml:subClassOf>
      <daml:Restriction rdf:about="#r-supplementalSource"/>
    </daml:subClassOf>
  </daml:Class>
  <!-- Task Class ***** -->
  <daml:Class rdf:ID="Task">
    <daml:label>Task</daml:label>
    <daml:subClassOf>

```



```

        <daml:Restriction rdf:about="#r-c1-status"/>
    </daml:subClassOf>
    <daml:subClassOf>
        <daml:Restriction rdf:about="#r-c1-definition"/>
    </daml:subClassOf>
    <daml:subClassOf>
        <daml:Restriction rdf:about="#r-c1-note"/>
    </daml:subClassOf>
    <daml:subClassOf>
        <daml:Restriction rdf:about="#r-u-superTask"/>
    </daml:subClassOf>
    <daml:subClassOf>
        <daml:Restriction rdf:about="#r-subTask"/>
    </daml:subClassOf>
    <daml:subClassOf>
        <daml:Restriction rdf:about="#r-c1-categoryCode"/>
    </daml:subClassOf>
    <daml:subClassOf>
        <daml:Restriction rdf:about="#r-c1-index"/>
    </daml:subClassOf>
    <daml:subClassOf>
        <daml:Restriction rdf:about="#r-c1-title"/>
    </daml:subClassOf>
    <daml:subClassOf>
        <daml:Restriction rdf:about="#r-primarySource"/>
    </daml:subClassOf>
    <daml:subClassOf>
        <daml:Restriction rdf:about="#r-supplementalSource"/>
    </daml:subClassOf>
</daml:Class>
<!-- Doctrine Class ***** -->
<daml:Class rdf:ID="Doctrine">
    <daml:label>Doctrine</daml:label>
    <daml:comment>Represents a particular doctrine with a link to a copy
on the web.</daml:comment>
    <daml:subClassOf>
        <daml:Restriction rdf:about="#r-link"/>
    </daml:subClassOf>
    <daml:subClassOf>
        <daml:Restriction rdf:about="#r-c1-categoryCode"/>
    </daml:subClassOf>
    <daml:subClassOf>
        <daml:Restriction rdf:about="#r-c1-index"/>
    </daml:subClassOf>
    <daml:subClassOf>
        <daml:Restriction rdf:about="#r-x1-title"/>
    </daml:subClassOf>
    <daml:subClassOf>
        <daml:Restriction rdf:about="#r-primarySource"/>
    </daml:subClassOf>
    <daml:subClassOf>
        <daml:Restriction rdf:about="#r-supplementalSource"/>
    </daml:subClassOf>
</daml:Class>
<!-- ***** Named Restrictions ***** -->
<!-- TaskList Restrictions ***** -->

```

```

<daml:Restriction rdf:ID="r-hasTask">
  <daml:onProperty rdf:resource="#hasTask"/>
  <daml:toClass rdf:resource="#Task"/>
</daml:Restriction>
<!-- Task Restrictions ***** -->
<daml:Restriction daml:cardinality="1" rdf:ID="r-c1-status">
  <daml:onProperty rdf:resource="#status"/>
  <daml:toClass
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
  </daml:Restriction>
  <daml:Restriction daml:cardinality="1" rdf:ID="r-c1-definition">
    <daml:onProperty rdf:resource="#definition"/>
    <daml:toClass
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:Restriction>
    <daml:Restriction daml:cardinality="1" rdf:ID="r-c1-note">
      <daml:onProperty rdf:resource="#note"/>
      <daml:toClass
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
      </daml:Restriction>
      <daml:Restriction rdf:ID="r-u-superTask">
        <daml:onProperty rdf:resource="#superTask"/>
        <daml:toClass rdf:resource="#Task"/>
      </daml:Restriction>
      <daml:Restriction rdf:ID="r-subTask">
        <daml:onProperty rdf:resource="#subTask"/>
        <daml:toClass rdf:resource="#Task"/>
      </daml:Restriction>
      <!-- Doctrine Restrictions ***** -->
      <daml:Restriction rdf:ID="r-link">
        <daml:onProperty rdf:resource="#link"/>
        <daml:toClass
rdf:resource="http://www.w3.org/2000/10/XMLSchema#anyURI"/>
        </daml:Restriction>
        <!-- Shared Restrictions ***** -->
        <daml:Restriction daml:cardinality="1" rdf:ID="r-c1-categoryCode">
          <daml:onProperty rdf:resource="#categoryCode"/>
          <daml:toClass
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
          </daml:Restriction>
          <daml:Restriction daml:cardinality="1" rdf:ID="r-c1-index">
            <daml:onProperty rdf:resource="#index"/>
            <daml:toClass
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
            </daml:Restriction>
            <daml:Restriction daml:cardinality="1" rdf:ID="r-c1-title">
              <daml:onProperty rdf:resource="#title"/>
              <daml:toClass
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
              </daml:Restriction>
              <daml:Restriction daml:maxCardinality="1" rdf:ID="r-x1-title">
                <daml:onProperty rdf:resource="#title"/>
                <daml:toClass
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
                </daml:Restriction>
                <daml:Restriction rdf:ID="r-primarySource">

```

```

        <daml:onProperty rdf:resource="#primarySource"/>
        <daml:toClass rdf:resource="#Doctrine"/>
    </daml:Restriction>
    <daml:Restriction rdf:ID="r-supplementalSource">
        <daml:onProperty rdf:resource="#supplementalSource"/>
        <daml:toClass rdf:resource="#Doctrine"/>
    </daml:Restriction>
    <!-- ***** Properties ***** -->
    <!-- TaskList Properties ***** -->
    <daml:ObjectProperty rdf:ID="hasTask">
        <daml:label>has Task</daml:label>
    </daml:ObjectProperty>
    <!-- Task Properties ***** -->
    <daml:DatatypeProperty rdf:ID="status">
        <daml:label>Status</daml:label>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="definition">
        <daml:label>Definition</daml:label>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="note">
        <daml:label>Note</daml:label>
    </daml:DatatypeProperty>
    <daml:TransitiveProperty rdf:ID="superTask">
        <daml:label>Super Task</daml:label>
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
    </daml:TransitiveProperty>
    <daml:TransitiveProperty rdf:ID="subTask">
        <daml:label>Sub Task</daml:label>
        <daml:inverseOf rdf:resource="#superTask"/>
    </daml:TransitiveProperty>
    <!-- Doctrine Properties ***** -->
    <daml:DatatypeProperty rdf:ID="link">
        <daml:label>Link</daml:label>
    </daml:DatatypeProperty>
    <!-- Shared Properties ***** -->
    <daml:DatatypeProperty rdf:ID="categoryCode">
        <daml:label>Category Code</daml:label>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="index">
        <daml:label>Index</daml:label>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="title">
        <daml:label>Title</daml:label>
    </daml:DatatypeProperty>
    <daml:ObjectProperty rdf:ID="source">
        <daml:label>Source</daml:label>
        <daml:comment>Reference to source.</daml:comment>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="primarySource">
        <daml:label>Primary Source</daml:label>
        <daml:subPropertyOf rdf:resource="#source"/>
        <daml:comment>Reference to primary source.</daml:comment>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="supplementalSource">
        <daml:label>Supplemental Source</daml:label>
        <daml:subPropertyOf rdf:resource="#source"/>

```

```
        <daml:comment>Reference to a supplemental source.</daml:comment>
    </daml:ObjectProperty>
</rdf:RDF>
```

Appendix C: UJTL Ontology

```

<?xml version="1.0"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:daml="http://www.daml.org/2001/03/daml+oil#"
  xmlns:xsd="http://www.w3.org/2000/10/XMLSchema#"
  xmlns:dc="http://orlando.drc.com/daml/ontology/DC/3.2/dces-ont#"
  xmlns:ves="http://orlando.drc.com/daml/ontology/VES/3.2/drc-ves-ont#"
  xmlns:tskl="http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList-ont#"

  xmlns:utsk="http://orlando.drc.com/daml/mist/Ontology/TaskList/UJTL/v4.0/3.1/UJTL-ont#"
  xmlns="http://orlando.drc.com/daml/mist/Ontology/TaskList/UJTL/v4.0/3.1/UJTL-ont#"
>
  <!-- TaskList Ontology -->
  <daml:Ontology rdf:about="">
    <ves:versioning>
      <ves:VersionData>
        <dc:title>UJTL Task Ontology</dc:title>

        <ves:location>http://orlando.drc.com/daml/mist/Ontology/TaskList/UJTL/v4.0/3.1/UJTL-ont.daml</ves:location>
        <ves:version>3.1</ves:version>
        <ves:email>TeamXML@drc.com</ves:email>
        <dc:creator>DRC</dc:creator>
        <ves:statusDate>2002-08-09</ves:statusDate>
        <ves:status>inwork</ves:status>
      </ves:VersionData>
    </ves:versioning>
    <daml:imports rdf:resource="http://www.daml.org/2001/03/daml+oil"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/Ontology/daml-extension/3.2/daml-ext-ont"/>
      <daml:imports
rdf:resource="http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList-ont"/>
        <daml:comment>This ontology represents descriptions of UJTL tasks and structural hierarchy, not the semantics of tasks.</daml:comment>
      </daml:Ontology>
    <!-- ***** Classes ***** -->
    <!-- Task Class ***** -->
    <daml:Class rdf:ID="StrategicTask">
      <daml:label>Strategic Task</daml:label>
      <daml:subClassOf
rdf:resource="http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList-ont#Task"/>
        <daml:subClassOf>
          <daml:Restriction daml:cardinality="1">
            <daml:onProperty
rdf:resource="http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList-ont#categoryCode"/>
              <daml:toClass
rdf:resource="http://orlando.drc.com/daml/mist/Ontology/TaskList/UJTL/v4.0/DataTpe/CategoryCode-dt#StrategicCategoryCodes"/>
            </daml:Restriction>
          </daml:subClassOf>

```

```

</daml:Class>
<daml:Class rdf:ID="StrategicNationalTask">
  <daml:label>Strategic National Task</daml:label>
  <daml:subClassOf rdf:resource="#StrategicTask"/>
  <daml:subClassOf>
    <daml:Restriction daml:cardinality="1">
      <daml:onProperty
rdf:resource="http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList-
ont#categoryCode"/>
      <daml:toClass
rdf:resource="http://orlando.drc.com/daml/mist/Ontology/TaskList/UJTL/v4.0/DataT
ype/CategoryCode-dt#StrategicNationalCategoryCodes"/>
    </daml:Restriction>
  </daml:subClassOf>
</daml:Class>
<daml:Class rdf:ID="StrategicTheatreTask">
  <daml:label>Strategic Theatre Task</daml:label>
  <daml:subClassOf rdf:resource="#StrategicTask"/>
  <daml:subClassOf>
    <daml:Restriction daml:cardinality="1">
      <daml:onProperty
rdf:resource="http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList-
ont#categoryCode"/>
      <daml:toClass
rdf:resource="http://orlando.drc.com/daml/mist/Ontology/TaskList/UJTL/v4.0/DataT
ype/CategoryCode-dt#StrategicTheatreCategoryCodes"/>
    </daml:Restriction>
  </daml:subClassOf>
</daml:Class>
<daml:Class rdf:ID="OperationalTask">
  <daml:label>Operational Task</daml:label>
  <daml:subClassOf
rdf:resource="http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList-
ont#Task"/>
  <daml:subClassOf>
    <daml:Restriction daml:cardinality="1">
      <daml:onProperty
rdf:resource="http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList-
ont#categoryCode"/>
      <daml:toClass
rdf:resource="http://orlando.drc.com/daml/mist/Ontology/TaskList/UJTL/v4.0/DataT
ype/CategoryCode-dt#OperationalCategoryCodes"/>
    </daml:Restriction>
  </daml:subClassOf>
</daml:Class>
<daml:Class rdf:ID="TacticalTask">
  <daml:label>Tactical Task</daml:label>
  <daml:subClassOf
rdf:resource="http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList-
ont#Task"/>
  <daml:subClassOf>
    <daml:Restriction daml:cardinality="1">
      <daml:onProperty
rdf:resource="http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList-
ont#categoryCode"/>

```

```

        <daml:toClass
rdf:resource="http://orlando.drc.com/daml/mist/Ontology/TaskList/UJTL/v4.0/DataT
ype/CategoryCode-dt#TacticalCategoryCodes"/>
        </daml:Restriction>
    </daml:subClassOf>
</daml:Class>
<daml:Class rdf:ID="ServiceTask">
    <daml:label>Service Task</daml:label>
    <daml:subClassOf rdf:resource="#TacticalTask"/>
    <daml:subClassOf>
        <daml:Restriction daml:cardinality="1">
            <daml:onProperty
rdf:resource="http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList-
ont#categoryCode"/>
                <daml:toClass
rdf:resource="http://orlando.drc.com/daml/mist/Ontology/TaskList/UJTL/v4.0/DataT
ype/CategoryCode-dt#ServiceCategoryCodes"/>
                </daml:Restriction>
            </daml:subClassOf>
        </daml:Class>
        <daml:Class rdf:ID="AFT">
            <daml:label>Air Force Tactical Task</daml:label>
            <daml:subClassOf rdf:resource="#ServiceTask"/>
            <daml:subClassOf>
                <daml:Restriction daml:cardinality="1">
                    <daml:onProperty
rdf:resource="http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList-
ont#categoryCode"/>
                        <daml:toClass
rdf:resource="http://orlando.drc.com/daml/mist/Ontology/TaskList/UJTL/v4.0/DataT
ype/CategoryCode-dt#AirForceCategoryCodes"/>
                        </daml:Restriction>
                    </daml:subClassOf>
                </daml:Class>
                <daml:Class rdf:ID="ART">
                    <daml:label>Army Tactical Task</daml:label>
                    <daml:subClassOf rdf:resource="#ServiceTask"/>
                    <daml:subClassOf>
                        <daml:Restriction daml:cardinality="1">
                            <daml:onProperty
rdf:resource="http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList-
ont#categoryCode"/>
                                <daml:toClass
rdf:resource="http://orlando.drc.com/daml/mist/Ontology/TaskList/UJTL/v4.0/DataT
ype/CategoryCode-dt#ArmyCategoryCodes"/>
                                </daml:Restriction>
                            </daml:subClassOf>
                        </daml:Class>
                        <daml:Class rdf:ID="NTA">
                            <daml:label>Navy Tactical Task</daml:label>
                            <daml:subClassOf rdf:resource="#ServiceTask"/>
                            <daml:subClassOf>
                                <daml:Restriction daml:cardinality="1">
                                    <daml:onProperty
rdf:resource="http://orlando.drc.com/daml/ontology/TaskList/3.1.2/TaskList-
ont#categoryCode"/>

```



```

        <daml:toClass
rdf:resource="http://orlando.drc.com/daml/mist/Ontology/TaskList/UJTL/v4.0/DataT
ype/CategoryCode-dt#NavyCategoryCodes"/>
        </daml:Restriction>
    </daml:subClassOf>
</daml:Class>
</rdf:RDF>

```

Appendix D: Conditions Ontology

```

<?xml version="1.0"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:ves="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#"
  xmlns:dc="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#"

  xmlns:cnd="http://orlando.drc.com//SemanticWeb/OWL/Ontology/Condition/UJTL/ver/0
.1.0/Condition-ont#"

  xmlns="http://orlando.drc.com//SemanticWeb/OWL/Ontology/Condition/UJTL/ver/0.1.0
/Condition-ont#"
>
  <!-- UJTL 4.0 Condition Ontology -->
  <owl:Ontology rdf:about="">
    <ves:versioning>
      <ves:VersionData>
        <dc:title>Condition Ontology</dc:title>
        <ves:version>0.1.0</ves:version>
        <ves:email>_TeamXML@drc.com</ves:email>
        <dc:creator>DRC</dc:creator>
        <ves:releaseDate>2003-07-18</ves:releaseDate>
        <ves:releaseLevel>beta</ves:releaseLevel>
        <ves:status>current</ves:status>
      </ves:VersionData>
    </ves:versioning>
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont"/>
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont"/>

    <rdfs:comment>This is an ontology for UJTL 4.0
Conditions.</rdfs:comment>
  </owl:Ontology>
  <!-- Abstract Classes
***** -->
  <owl:Class rdf:ID="Category">
    <rdfs:label>Category Class</rdfs:label>
  </owl:Class>
  <owl:Class rdf:ID="Environment">
    <rdfs:label>Environment Class</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Category"/>
  </owl:Class>
  <owl:Class rdf:ID="Condition">
    <rdfs:label>Condition Class</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Category"/>
  </owl:Class>
  <!-- ***** Properties
***** -->
  <!-- Class Properties: The following properties are intended to be
associated to a Class at the point of definition, rather than instantiation.

```

Note: Restrictions CANNOT be used for these properties because the applicable domain is the owl:class. The intent here is not to restrict the owl:class; hence such restrictions would be incorrect.

```
-->
<owl:DatatypeProperty rdf:ID="categoryCode">
  <rdfs:label>Category Code Property</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="index">
  <rdfs:label>Index Property</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="title">
  <rdfs:label>Title Property</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="definition">
  <rdfs:label>Definition Property</rdfs:label>
</owl:DatatypeProperty>
<owl:TransitiveProperty rdf:ID="subCategory">
  <rdfs:label>Sub Category Property</rdfs:label>
  <rdfs:comment>This property identifies a more detailed
category.</rdfs:comment>
  <owl:inverseOf rdf:resource="#superCategory"/>
</owl:TransitiveProperty>
<owl:TransitiveProperty rdf:ID="superCategory">
  <rdfs:label>Super Category Property</rdfs:label>
  <rdfs:comment>This property identifies a more general
category.</rdfs:comment>
</owl:TransitiveProperty>
<!-- Instance Properties: The following properties are intened to be
associated to an instance of a Class. -->
<owl:ObjectProperty rdf:ID="condition">
  <rdfs:label>Condition Property</rdfs:label>
  <rdfs:comment>This property is intended to associate a condition to
some other class instance. Thus it should only be used in an
Artifact.</rdfs:comment>
</owl:ObjectProperty>
<owl:DatatypeProperty rdf:ID="descriptor">
  <rdfs:label>Descriptor Property</rdfs:label>
  <rdfs:comment>This property associates a descriptive value to a
condition. It is intended to point to an XSD enumeration.</rdfs:comment>
</owl:DatatypeProperty>
<!-- ***** Classes
***** -->
<!-- PHYSICAL ENVIRONMENT Classes ***** -->
<owl:Class rdf:ID="PHYSICAL_ENVIRONMENT">
  <rdfs:subClassOf rdf:resource="#Environment"/>
  <rdfs:label>PHYSICAL ENVIRONMENT Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.0</cnd:index>
  <cnd:title>PHYSICAL ENVIRONMENT</cnd:title>
  <cnd:definition>Includes those factors of the natural environment and
other factors, within the natural realm, as modified by
civilization.</cnd:definition>
  <cnd:subCategory rdf:resource="#LAND"/>
  <cnd:subCategory rdf:resource="#SEA"/>
  <cnd:subCategory rdf:resource="#AIR"/>
  <cnd:subCategory rdf:resource="#SPACE"/>
```

```

</owl:Class>
<owl:Class rdf:ID="LAND">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>LAND Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.1</cnd:index>
  <cnd:title>LAND</cnd:title>
  <cnd:definition>Physical characteristics, both natural and man-made, of
a land area.</cnd:definition>
  <cnd:superCategory rdf:resource="#PHYSICAL_ENVIRONMENT"/>
  <cnd:subCategory rdf:resource="#Terrain"/>
  <cnd:subCategory rdf:resource="#Geological_Features"/>
  <cnd:subCategory rdf:resource="#Man-Made_Terrain_Features"/>
  <cnd:subCategory rdf:resource="#Landlocked_Waters"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-LAND"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Terrain">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Terrain Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.1.1</cnd:index>
  <cnd:title>Terrain</cnd:title>
  <cnd:definition>General characteristics of land areas.</cnd:definition>
  <cnd:superCategory rdf:resource="#LAND"/>
  <cnd:subCategory rdf:resource="#Terrain_Relief"/>
  <cnd:subCategory rdf:resource="#Terrain_Elevation"/>
  <cnd:subCategory rdf:resource="#Terrain_Slope"/>
  <cnd:subCategory rdf:resource="#Terrain_Firmness"/>
  <cnd:subCategory rdf:resource="#Terrain_Traction"/>
  <cnd:subCategory rdf:resource="#Vegetation"/>
  <cnd:subCategory rdf:resource="#Terrain_Relief_Features"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Terrain"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Terrain_Relief">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Terrain Relief Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.1.1.1</cnd:index>
  <cnd:title>Terrain Relief</cnd:title>
  <cnd:definition>Height of immediate terrain relative to surrounding
area, measured from a base point (adjacent valley or plateau).</cnd:definition>
  <cnd:superCategory rdf:resource="#Terrain"/>
  <rdfs:subClassOf>

```

```

        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Terrain_Relief"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Terrain_Elevation">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Terrain Elevation Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.1.1.2</cnd:index>
    <cnd:title>Terrain Elevation</cnd:title>
    <cnd:definition>Height of immediate terrain in reference to sea
level.</cnd:definition>
    <cnd:superCategory rdf:resource="#Terrain"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Terrain_Elevation"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Terrain_Slope">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Terrain Slope Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.1.1.3</cnd:index>
    <cnd:title>Terrain Slope</cnd:title>
    <cnd:definition>The average steepness or grade of a land
area.</cnd:definition>
    <cnd:superCategory rdf:resource="#Terrain"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Terrain_Slope"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Terrain_Firmness">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Terrain Firmness Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.1.1.4</cnd:index>
    <cnd:title>Terrain Firmness</cnd:title>
    <cnd:definition>The terrain's ability to support
weight.</cnd:definition>
    <cnd:superCategory rdf:resource="#Terrain"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>

```

```

        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Terrain_Firmness"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Terrain_Traction">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Terrain Traction Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.1.1.5</cnd:index>
    <cnd:title>Terrain Traction</cnd:title>
    <cnd:definition>Ability to maintain sufficient friction with terrain to
control movement.</cnd:definition>
    <cnd:superCategory rdf:resource="#Terrain"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Terrain_Traction"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Vegetation">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Vegetation Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.1.1.6</cnd:index>
    <cnd:title>Vegetation</cnd:title>
    <cnd:definition>Plants, trees, and shrubs.</cnd:definition>
    <cnd:superCategory rdf:resource="#Terrain"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Vegetation"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Terrain_Relief_Features">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Terrain Relief Features Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.1.1.7</cnd:index>
    <cnd:title>Terrain Relief Features</cnd:title>
    <cnd:definition>Specific terrain features in immediate
area.</cnd:definition>
    <cnd:superCategory rdf:resource="#Terrain"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Terrain_Relief_Features"/>
            </owl:Restriction>
    </owl:Class>

```

```

        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Geological_Features">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Geological Features Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>1.1.2</cnid:index>
        <cnid:title>Geological Features</cnid:title>
        <cnid:definition>Features relating to the earth's
subsurface.</cnid:definition>
        <cnid:superCategory rdf:resource="#LAND"/>
        <cnid:subCategory rdf:resource="#Geological_Activity"/>
        <cnid:subCategory rdf:resource="#Magnetic_Variation"/>
        <cnid:subCategory rdf:resource="#Subsurface_Water"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Geological_Features"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Geological_Activity">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Geological Activity Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>1.1.2.1</cnid:index>
        <cnid:title>Geological Activity</cnid:title>
        <cnid:definition>Seismic or volcanic activity in region.</cnid:definition>
        <cnid:superCategory rdf:resource="#Geological_Features"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Geological_Activity"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Magnetic_Variation">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Magnetic Variation Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>1.1.2.2</cnid:index>
        <cnid:title>Magnetic Variation</cnid:title>
        <cnid:definition>Deviations caused by position relative to the location
of the magnetic pole.</cnid:definition>
        <cnid:superCategory rdf:resource="#Geological_Features"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Magnetic_Variation"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>

```



```

</owl:Class>
<owl:Class rdf:ID="Subsurface_Water">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Subsurface Water Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.1.2.3</cnd:index>
  <cnd:title>Subsurface Water</cnd:title>
  <cnd:definition>Availability of underground water
supplies.</cnd:definition>
  <cnd:superCategory rdf:resource="#Geological_Features"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Subsurface_Water"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Man-Made_Terrain_Features">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Man-Made Terrain Features Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.1.3</cnd:index>
  <cnd:title>Man-Made Terrain Features</cnd:title>
  <cnd:definition>Degree to which civilization and military actions have
affected the physical environment.</cnd:definition>
  <cnd:superCategory rdf:resource="#LAND"/>
  <cnd:subCategory rdf:resource="#Urbanization"/>
  <cnd:subCategory rdf:resource="#Significant_Civil_Structures"/>
  <cnd:subCategory rdf:resource="#Terrain_Color_Contrast"/>
  <cnd:subCategory rdf:resource="#Obstacles_To_Movement"/>
  <cnd:subCategory rdf:resource="#Route_Availability"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Man-Made_Terrain_Features"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Urbanization">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Urbanization Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.1.3.1</cnd:index>
  <cnd:title>Urbanization</cnd:title>
  <cnd:definition>Presence of built-up population
centers.</cnd:definition>
  <cnd:superCategory rdf:resource="#Man-Made_Terrain_Features"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Urbanization"/>
    </owl:Restriction>
  </rdfs:subClassOf>

```

```

        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Significant_Civil_Structures">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Significant Civil Structures Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>1.1.3.2</cnid:index>
    <cnid:title>Significant Civil Structures</cnid:title>
    <cnid:definition>Synthetic structures that alter terrain (bridges,
stadiums, canals), or that could impact terrain, if damaged (locks, dams,
tunnels).</cnid:definition>
    <cnid:superCategory rdf:resource="#Man-Made_Terrain_Features"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Significant_Civil_Structures"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Terrain_Color_Contrast">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Terrain Color Contrast Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>1.1.3.3</cnid:index>
    <cnid:title>Terrain Color Contrast</cnid:title>
    <cnid:definition>The color or shading differential between civilian and
military objects and the natural or physical environment.</cnid:definition>
    <cnid:superCategory rdf:resource="#Man-Made_Terrain_Features"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Terrain_Color_Contrast"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Obstacles_To_Movement">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Obstacles to Movement Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>1.1.3.4</cnid:index>
    <cnid:title>Obstacles to Movement</cnid:title>
    <cnid:definition>The presence of obstacles to movement and
maneuver</cnid:definition>
    <cnid:superCategory rdf:resource="#Man-Made_Terrain_Features"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Obstacles_To_Movement"/>
        </owl:Restriction>
    </rdfs:subClassOf>

```

```

</owl:Class>
<owl:Class rdf:ID="Route_Availability">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Route Availability Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.1.3.5</cnd:index>
  <cnd:title>Route Availability</cnd:title>
  <cnd:definition>The availability of navigable routes over land
areas.</cnd:definition>
  <cnd:superCategory rdf:resource="#Man-Made_Terrain_Features"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Route_Availability"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Landlocked_Waters">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Landlocked Waters Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.1.4</cnd:index>
  <cnd:title>Landlocked Waters</cnd:title>
  <cnd:definition>Bodies of water surrounded by land to include lakes,
reservoirs, and wetlands.</cnd:definition>
  <cnd:superCategory rdf:resource="#LAND"/>
  <cnd:subCategory rdf:resource="#Landlocked_Waters_Depth"/>
  <cnd:subCategory rdf:resource="#Landlocked_Waters_Current"/>
  <cnd:subCategory rdf:resource="#Landlocked_Waters_Width"/>
  <cnd:subCategory rdf:resource="#Landlocked_Waters_Bottom"/>
  <cnd:subCategory rdf:resource="#Landlocked_Waters_Shore_Gradient"/>
  <cnd:subCategory rdf:resource="#Landlocked_Water_Temperature"/>
  <cnd:subCategory
rdf:resource="#DiversSwimmers_Landlocked_Water_Elevation"/>
  <cnd:subCategory
rdf:resource="#DiversSwimmers_Landlocked_Water_Currents"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Landlocked_Waters"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Landlocked_Waters_Depth">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Landlocked Waters Depth Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.1.4.1</cnd:index>
  <cnd:title>Landlocked Waters Depth</cnd:title>
  <cnd:definition>The depth of water at a particular point or
area.</cnd:definition>
  <cnd:superCategory rdf:resource="#Landlocked_Waters"/>
  <rdfs:subClassOf>

```

```

        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Landlocked_Waters_Depth"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Landlocked_Waters_Current">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Landlocked Waters Current Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.1.4.2</cnd:index>
    <cnd:title>Landlocked Waters Current</cnd:title>
    <cnd:definition>A steady, generally predictable flow of
water.</cnd:definition>
    <cnd:superCategory rdf:resource="#Landlocked_Waters"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Landlocked_Waters_Current"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Landlocked_Waters_Width">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Landlocked Waters Width Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.1.4.3</cnd:index>
    <cnd:title>Landlocked Waters Width</cnd:title>
    <cnd:definition>Width of bodies of water.</cnd:definition>
    <cnd:superCategory rdf:resource="#Landlocked_Waters"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Landlocked_Waters_Width"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Landlocked_Waters_Bottom">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Landlocked Waters Bottom Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.1.4.4</cnd:index>
    <cnd:title>Landlocked Waters Bottom</cnd:title>
    <cnd:definition>Characteristics of the land underneath landlocked
waters.</cnd:definition>
    <cnd:superCategory rdf:resource="#Landlocked_Waters"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>

```

```

        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Landlocked_Waters_Bottom"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Landlocked_Waters_Shore_Gradient">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Landlocked Waters Shore Gradient Class</rdfs:label>
    <rnd:categoryCode>C</rnd:categoryCode>
    <rnd:index>1.1.4.5</rnd:index>
    <rnd:title>Landlocked Waters Shore Gradient</rnd:title>
    <rnd:definition>Slope of the land at the edge of the
water.</rnd:definition>
    <rnd:superCategory rdf:resource="#Landlocked_Waters"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Landlocked_Waters_Shore_Gradient"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Landlocked_Water_Temperature">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Landlocked Water Temperature Class</rdfs:label>
    <rnd:categoryCode>C</rnd:categoryCode>
    <rnd:index>1.1.4.6</rnd:index>
    <rnd:title>Landlocked Water Temperature</rnd:title>
    <rnd:definition>Water temperature (degrees Fahrenheit).</rnd:definition>
    <rnd:superCategory rdf:resource="#Landlocked_Waters"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Landlocked_Water_Temperature"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="DiversSwimmers_Landlocked_Water_Elevation">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Divers/Swimmers Landlocked Water Elevation
Class</rdfs:label>
    <rnd:categoryCode>C</rnd:categoryCode>
    <rnd:index>1.1.4.7</rnd:index>
    <rnd:title>Divers/Swimmers Landlocked Water Elevation</rnd:title>
    <rnd:definition>The height above sea level at which diving operations
will be conducted.</rnd:definition>
    <rnd:superCategory rdf:resource="#Landlocked_Waters"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-DiversSwimmers_Landlocked_Water_Elevation"/>

```

```

        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="DiversSwimmers_Landlocked_Water_Currents">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Divers/Swimmers Landlocked Water Currents Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.1.4.8</cnd:index>
    <cnd:title>Divers/Swimmers Landlocked Water Currents</cnd:title>
    <cnd:definition>A steady, generally predictable flow of
water.</cnd:definition>
    <cnd:superCategory rdf:resource="#Landlocked_Waters"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-DiversSwimmers_Landlocked_Water_Currents"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="SEA">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>SEA Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.2</cnd:index>
    <cnd:title>SEA</cnd:title>
    <cnd:definition>Those factors associated with the continuous salt water
ocean system to include oceans, seas, gulfs, inlets, bays, sounds, straits,
channels, and rivers.</cnd:definition>
    <cnd:superCategory rdf:resource="#PHYSICAL_ENVIRONMENT"/>
    <cnd:subCategory rdf:resource="#Ocean_Waters"/>
    <cnd:subCategory rdf:resource="#Ocean_Bottom"/>
    <cnd:subCategory rdf:resource="#Harbor_Capacity"/>
    <cnd:subCategory rdf:resource="#Littoral_Characteristics"/>
    <cnd:subCategory rdf:resource="#Riverine_Environment"/>
    <cnd:subCategory rdf:resource="#Shipping_Presence"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-SEA"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Ocean_Waters">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Ocean Waters Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.2.1</cnd:index>
    <cnd:title>Ocean Waters</cnd:title>
    <cnd:definition>Primary bodies of salt water that are not
landlocked.</cnd:definition>
    <cnd:superCategory rdf:resource="#SEA"/>
    <cnd:subCategory rdf:resource="#Ocean_Depth"/>
    <cnd:subCategory rdf:resource="#Ocean_Ice"/>

```

```

<rnd:subCategory rdf:resource="#Ocean_Ice_Thickness"/>
<rnd:subCategory rdf:resource="#Ocean_Ambient_Noise"/>
<rnd:subCategory rdf:resource="#Ocean_Fronts_And_Eddies"/>
<rnd:subCategory rdf:resource="#DiversSwimmers_Underwater_Visibility"/>
<rnd:subCategory rdf:resource="#DiversSwimmers_Ocean_Depth"/>
<rnd:subCategory rdf:resource="#DiversSwimmers_Ocean_Currents"/>
<rnd:subCategory rdf:resource="#Ocean_Currents"/>
<rnd:subCategory rdf:resource="#Sea_State"/>
<rnd:subCategory rdf:resource="#Ocean_Temperature"/>
<rnd:subCategory rdf:resource="#Saline_Content"/>
<rnd:subCategory rdf:resource="#Ocean_Features"/>
<rnd:subCategory rdf:resource="#Sea_Room"/>
<rnd:subCategory rdf:resource="#Ocean_Acoustics"/>
<rnd:subCategory rdf:resource="#Ocean_Bioluminescence"/>
<rnd:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Ocean_Waters"/>
    </owl:Restriction>
  </rnd:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Ocean_Depth">
  <rnd:subClassOf rdf:resource="#Condition"/>
  <rnd:label>Ocean Depth Class</rnd:label>
  <rnd:categoryCode>C</rnd:categoryCode>
  <rnd:index>1.2.1.1</rnd:index>
  <rnd:title>Ocean Depth</rnd:title>
  <rnd:definition>The depth of ocean water at a point or for an
area.</rnd:definition>
  <rnd:superCategory rdf:resource="#Ocean_Waters"/>
  <rnd:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Ocean_Depth"/>
      </owl:Restriction>
    </rnd:subClassOf>
  </owl:Class>
<owl:Class rdf:ID="Ocean_Ice">
  <rnd:subClassOf rdf:resource="#Condition"/>
  <rnd:label>Ocean Ice Class</rnd:label>
  <rnd:categoryCode>C</rnd:categoryCode>
  <rnd:index>1.2.1.10</rnd:index>
  <rnd:title>Ocean Ice</rnd:title>
  <rnd:definition>The presence of ice at or near the ocean
surface.</rnd:definition>
  <rnd:superCategory rdf:resource="#Ocean_Waters"/>
  <rnd:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Ocean_Ice"/>
      </owl:Restriction>

```

```

        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Ocean_Ice_Thickness">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Ocean Ice Thickness Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>1.2.1.11</cnd:index>
        <cnd:title>Ocean Ice Thickness</cnd:title>
        <cnd:definition>The thickness of ocean surface ice.</cnd:definition>
        <cnd:superCategory rdf:resource="#Ocean_Waters"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Ocean_Ice_Thickness"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Ocean_Ambient_Noise">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Ocean Ambient Noise Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>1.2.1.12</cnd:index>
        <cnd:title>Ocean Ambient Noise</cnd:title>
        <cnd:definition>The ambient noise level in the ocean caused by marine
life, geological factors, or by civilization.</cnd:definition>
        <cnd:superCategory rdf:resource="#Ocean_Waters"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Ocean_Ambient_Noise"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Ocean_Fronts_And_Eddies">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Ocean Fronts and Eddies Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>1.2.1.13</cnd:index>
        <cnd:title>Ocean Fronts and Eddies</cnd:title>
        <cnd:definition>Fronts are tactically significant discontinuities in the
water mass, such as horizontal temperature gradient, which significantly alter
the pattern of ocean acoustics. Eddies are circular fronts that have broken off
from a strong front such as the Gulf Stream.</cnd:definition>
        <cnd:superCategory rdf:resource="#Ocean_Waters"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Ocean_Fronts_And_Eddies"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>

```



```

<owl:Class rdf:ID="DiversSwimmers_Underwater_Visibility">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Divers/Swimmers Underwater Visibility Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.2.1.14</cnd:index>
  <cnd:title>Divers/Swimmers Underwater Visibility</cnd:title>
  <cnd:definition>The maximum distance objects can be seen at the depth
which underwater operations are being conducted.</cnd:definition>
  <cnd:superCategory rdf:resource="#Ocean_Waters"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-DiversSwimmers_Underwater_Visibility"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="DiversSwimmers_Ocean_Depth">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Divers/Swimmers Ocean Depth Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.2.1.15</cnd:index>
  <cnd:title>Divers/Swimmers Ocean Depth</cnd:title>
  <cnd:definition>The depth of ocean water at a point or for an
area.</cnd:definition>
  <cnd:superCategory rdf:resource="#Ocean_Waters"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-DiversSwimmers_Ocean_Depth"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="DiversSwimmers_Ocean_Currents">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Divers/Swimmers Ocean Currents Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.2.1.16</cnd:index>
  <cnd:title>Divers/Swimmers Ocean Currents</cnd:title>
  <cnd:definition>A steady, generally predictable flow, present either in
open ocean waters or in littoral coastal ocean waters.</cnd:definition>
  <cnd:superCategory rdf:resource="#Ocean_Waters"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-DiversSwimmers_Ocean_Currents"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Ocean_Currents">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Ocean Currents Class</rdfs:label>

```

```

    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>1.2.1.2</cnid:index>
    <cnid:title>Ocean Currents</cnid:title>
    <cnid:definition>A steady, generally predictable flow, present either in
open ocean waters or in littoral coastal ocean waters.</cnid:definition>
    <cnid:superCategory rdf:resource="#Ocean_Waters"/>
    <rdfs:subClassOf>
      <owl:Restriction owl:cardinality="1">
        <owl:onProperty rdf:resource="#descriptor"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Ocean_Currents"/>
      </owl:Restriction>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Sea_State">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Sea State Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>1.2.1.3</cnid:index>
    <cnid:title>Sea State</cnid:title>
    <cnid:definition>Roughness of seas caused by wind or
disturbances.</cnid:definition>
    <cnid:superCategory rdf:resource="#Ocean_Waters"/>
    <rdfs:subClassOf>
      <owl:Restriction owl:cardinality="1">
        <owl:onProperty rdf:resource="#descriptor"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Sea_State"/>
      </owl:Restriction>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Ocean_Temperature">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Ocean Temperature Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>1.2.1.4</cnid:index>
    <cnid:title>Ocean Temperature</cnid:title>
    <cnid:definition>Water surface temperature (degrees
Fahrenheit).</cnid:definition>
    <cnid:superCategory rdf:resource="#Ocean_Waters"/>
    <rdfs:subClassOf>
      <owl:Restriction owl:cardinality="1">
        <owl:onProperty rdf:resource="#descriptor"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Ocean_Temperature"/>
      </owl:Restriction>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Saline_Content">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Saline Content Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>1.2.1.5</cnid:index>
    <cnid:title>Saline Content</cnid:title>

```

```

        <rnd:definition>Level of salt content in water (parts per
thousand).</rnd:definition>
        <rnd:superCategory rdf:resource="#Ocean_Waters"/>
        <rnds:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Saline_Content"/>
            </owl:Restriction>
        </rnds:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Ocean_Features">
        <rnds:subClassOf rdf:resource="#Condition"/>
        <rnds:label>Ocean Features Class</rnds:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>1.2.1.6</rnd:index>
        <rnd:title>Ocean Features</rnd:title>
        <rnd:definition>Features just above, just below, or within 10 fathoms of
the ocean surface to include islands, atolls, reefs, shoals, rocks, or
icebergs.</rnd:definition>
        <rnd:superCategory rdf:resource="#Ocean_Waters"/>
        <rnds:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Ocean_Features"/>
            </owl:Restriction>
        </rnds:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Sea_Room">
        <rnds:subClassOf rdf:resource="#Condition"/>
        <rnds:label>Sea Room Class</rnds:label>

        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>1.2.1.7</rnd:index>
        <rnd:title>Sea Room</rnd:title>
        <rnd:definition>Availability of space for maritime maneuver. Includes
dynamic factors such as confining ice, submerged wrecks, or potentially damaging
floating objects such as logs. Applies especially to coastal polar, littoral,
or riverine environments.</rnd:definition>
        <rnd:superCategory rdf:resource="#Ocean_Waters"/>
        <rnds:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Sea_Room"/>
            </owl:Restriction>
        </rnds:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Ocean_Acoustics">
        <rnds:subClassOf rdf:resource="#Condition"/>
        <rnds:label>Ocean Acoustics Class</rnds:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>1.2.1.8</rnd:index>

```

```

        <cnd:title>Ocean Acoustics</cnd:title>
        <cnd:definition>Assessed qualities of the tactical subsurface
environment, including factors such as sound propagation path, layer depth, and
propagation loss (but excluding sea state, ambient noise and other factors
covered separately in this section) that affect the ability to detect subsurface
objects.</cnd:definition>
        <cnd:superCategory rdf:resource="#Ocean_Waters"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Ocean_Acoustics"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Ocean_Bioluminescence">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Ocean Bioluminescence Class</rdfs:label>

        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>1.2.1.9</cnd:index>
        <cnd:title>Ocean Bioluminescence</cnd:title>
        <cnd:definition>Emission of visible light by living marine
organisms.</cnd:definition>
        <cnd:superCategory rdf:resource="#Ocean_Waters"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Ocean_Bioluminescence"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Ocean_Bottom">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Ocean Bottom Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>1.2.2</cnd:index>
        <cnd:title>Ocean Bottom</cnd:title>
        <cnd:definition>The characteristics of the sea bottom.</cnd:definition>
        <cnd:superCategory rdf:resource="#SEA"/>
        <cnd:subCategory rdf:resource="#Sea_Bottom_Contours"/>
        <cnd:subCategory rdf:resource="#Sea_Bottom_Composition"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Ocean_Bottom"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Sea_Bottom_Contours">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Sea Bottom Contours Class</rdfs:label>

```

```

<rnd:categoryCode>C</rnd:categoryCode>
<rnd:index>1.2.2.1</rnd:index>
<rnd:title>Sea Bottom Contours</rnd:title>
<rnd:definition>Gradient of the seabed.</rnd:definition>
<rnd:superCategory rdf:resource="#Ocean_Bottom"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Sea_Bottom_Contours"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Sea_Bottom_Composition">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Sea Bottom Composition Class</rdfs:label>
  <rnd:categoryCode>C</rnd:categoryCode>
  <rnd:index>1.2.2.2</rnd:index>
  <rnd:title>Sea Bottom Composition</rnd:title>
  <rnd:definition>Seabed material from the ocean bottom to the
littoral.</rnd:definition>
  <rnd:superCategory rdf:resource="#Ocean_Bottom"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Sea_Bottom_Composition"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Harbor_Capacity">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Harbor Capacity Class</rdfs:label>
  <rnd:categoryCode>C</rnd:categoryCode>
  <rnd:index>1.2.3</rnd:index>
  <rnd:title>Harbor Capacity</rnd:title>
  <rnd:definition>The size and characteristics of a
harbor.</rnd:definition>
  <rnd:superCategory rdf:resource="#SEA"/>
  <rnd:subCategory rdf:resource="#Harbor_Shelter"/>
  <rnd:subCategory rdf:resource="#Harbor_Depth"/>
  <rnd:subCategory rdf:resource="#Harbor_Currents"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Harbor_Capacity"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Harbor_Shelter">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Harbor Shelter Class</rdfs:label>
  <rnd:categoryCode>C</rnd:categoryCode>

```

```

        <cnid:index>1.2.3.1</cnid:index>
        <cnid:title>Harbor Shelter</cnid:title>
        <cnid:definition>The amount of protection provided from the open ocean by
natural features.</cnid:definition>
        <cnid:superCategory rdf:resource="#Harbor_Capacity"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Harbor_Shelter"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Harbor_Depth">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Harbor Depth Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>1.2.3.2</cnid:index>
        <cnid:title>Harbor Depth</cnid:title>
        <cnid:definition>Water level at low tide.</cnid:definition>
        <cnid:superCategory rdf:resource="#Harbor_Capacity"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Harbor_Depth"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Harbor_Currents">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Harbor Currents Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>1.2.3.3</cnid:index>
        <cnid:title>Harbor Currents</cnid:title>
        <cnid:definition>Moving water caused by tidal change and river
runoff.</cnid:definition>
        <cnid:superCategory rdf:resource="#Harbor_Capacity"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Harbor_Currents"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Littoral_Characteristics">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Littoral Characteristics Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>1.2.4</cnid:index>
        <cnid:title>Littoral Characteristics</cnid:title>
        <cnid:definition>The characteristics of the shore area, including
contiguous waters and land areas.</cnid:definition>

```

```

<cnd:superCategory rdf:resource="#SEA"/>
<cnd:subCategory rdf:resource="#Littoral_Gradient"/>
<cnd:subCategory rdf:resource="#Littoral_Composition"/>
<cnd:subCategory rdf:resource="#Littoral_Terrain_Features"/>
<cnd:subCategory rdf:resource="#Littoral_Tides"/>
<cnd:subCategory rdf:resource="#Littoral_Currents"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Littoral_Characteristics"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Littoral_Gradient">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Littoral Gradient Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.2.4.1</cnd:index>
  <cnd:title>Littoral Gradient</cnd:title>
  <cnd:definition>Slope of the beach, from low tide up to the extreme high
tide mark.</cnd:definition>
  <cnd:superCategory rdf:resource="#Littoral_Characteristics"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Littoral_Gradient"/>
      </owl:Restriction>
    </rdfs:subClassOf>
  </owl:Class>
<owl:Class rdf:ID="Littoral_Composition">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Littoral Composition Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.2.4.2</cnd:index>
  <cnd:title>Littoral Composition</cnd:title>
  <cnd:definition>Shoreline material, from shallow water to high tide
marks.</cnd:definition>
  <cnd:superCategory rdf:resource="#Littoral_Characteristics"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Littoral_Composition"/>
      </owl:Restriction>
    </rdfs:subClassOf>
  </owl:Class>
<owl:Class rdf:ID="Littoral_Terrain_Features">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Littoral Terrain Features Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.2.4.3</cnd:index>
  <cnd:title>Littoral Terrain Features</cnd:title>

```

```

        <cn:definition>Those land features that overlook the
littoral.</cn:definition>
        <cn:superCategory rdf:resource="#Littoral_Characteristics"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Littoral_Terrain_Features"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Littoral_Tides">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Littoral Tides Class</rdfs:label>
        <cn:categoryCode>C</cn:categoryCode>
        <cn:index>1.2.4.4</cn:index>
        <cn:title>Littoral Tides</cn:title>
        <cn:definition>Change in height from low to high tide.</cn:definition>
        <cn:superCategory rdf:resource="#Littoral_Characteristics"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Littoral_Tides"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Littoral_Currents">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Littoral Currents Class</rdfs:label>
        <cn:categoryCode>C</cn:categoryCode>
        <cn:index>1.2.4.5</cn:index>
        <cn:title>Littoral Currents</cn:title>
        <cn:definition>Flows peculiar to that shoreline area.</cn:definition>
        <cn:superCategory rdf:resource="#Littoral_Characteristics"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Littoral_Currents"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Riverine_Environment">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Riverine Environment Class</rdfs:label>
        <cn:categoryCode>C</cn:categoryCode>
        <cn:index>1.2.5</cn:index>
        <cn:title>Riverine Environment</cn:title>
        <cn:definition>Type of riverine environment.</cn:definition>
        <cn:superCategory rdf:resource="#SEA"/>
        <cn:subCategory rdf:resource="#Riverine_Navigability"/>
        <cn:subCategory rdf:resource="#Riverine_Tidal_Turbulence"/>
        <cn:subCategory rdf:resource="#Riverine_Current"/>

```



```

        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Riverine_Environment"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Riverine_Navigability">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Riverine Navigability Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.2.5.1</cnd:index>
    <cnd:title>Riverine Navigability</cnd:title>
    <cnd:definition>Category of navigable waterway.</cnd:definition>
    <cnd:superCategory rdf:resource="#Riverine_Environment"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Riverine_Navigability"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Riverine_Tidal_Turbulence">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Riverine Tidal Turbulence Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.2.5.2</cnd:index>
    <cnd:title>Riverine Tidal Turbulence</cnd:title>
    <cnd:definition>The extent of turbulence in the tidal zone causing the
movement of material such as debris, pollutants, or vegetation, thereby
affecting visibility through water.</cnd:definition>
    <cnd:superCategory rdf:resource="#Riverine_Environment"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Riverine_Tidal_Turbulence"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Riverine_Current">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Riverine Current Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.2.5.3</cnd:index>
    <cnd:title>Riverine Current</cnd:title>
    <cnd:definition>The velocity of flowing water in riverine
environment.</cnd:definition>
    <cnd:superCategory rdf:resource="#Riverine_Environment"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">

```

```

        <owl:onProperty rdf:resource="#descriptor"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Riverine_Current"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Riverine_Bank_Gradient">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Riverine Bank Gradient Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>1.2.5.4</cnid:index>
    <cnid:title>Riverine Bank Gradient</cnid:title>
    <cnid:definition>Slope of the land at the water&apos;s
edge.</cnid:definition>
    <cnid:superCategory rdf:resource="#Riverine_Environment"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Riverine_Bank_Gradient"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Shipping_Presence">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Shipping Presence Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>1.2.6</cnid:index>
    <cnid:title>Shipping Presence</cnid:title>
    <cnid:definition>Presence of shipping activity in area.</cnid:definition>
    <cnid:superCategory rdf:resource="#SEA"/>
    <cnid:subCategory rdf:resource="#Shipping_Density"/>
    <cnid:subCategory rdf:resource="#Shipping_Type"/>
    <cnid:subCategory rdf:resource="#Shipping_Identifiability"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Shipping_Presence"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Shipping_Density">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Shipping Density Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>1.2.6.1</cnid:index>
    <cnid:title>Shipping Density</cnid:title>
    <cnid:definition>The general level of shipping in an
area.</cnid:definition>
    <cnid:superCategory rdf:resource="#Shipping_Presence"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>

```

```

        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Shipping_Density"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Shipping_Type">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Shipping Type Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.2.6.2</cnd:index>
    <cnd:title>Shipping Type</cnd:title>
    <cnd:definition>The primary characteristics of the shipping in an
operating area.</cnd:definition>
    <cnd:superCategory rdf:resource="#Shipping_Presence"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Shipping_Type"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Shipping_Identifiability">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Shipping Identifiability Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.2.6.3</cnd:index>
    <cnd:title>Shipping Identifiability</cnd:title>
    <cnd:definition>The physical characteristics of vessels that allow them
to be identified to include size, markings, unique hull forms, observable
activity, electromagnetic emissions, and communications
capability.</cnd:definition>
    <cnd:superCategory rdf:resource="#Shipping_Presence"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Shipping_Identifiability"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="AIR">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>AIR Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>1.3</cnd:index>
    <cnd:title>AIR</cnd:title>
    <cnd:definition>Characteristics of the lower atmosphere, to include
climate, visibility, and weapons effects.</cnd:definition>
    <cnd:superCategory rdf:resource="#PHYSICAL_ENVIRONMENT"/>
    <cnd:subCategory rdf:resource="#Climate"/>
    <cnd:subCategory rdf:resource="#Visibility"/>
    <cnd:subCategory rdf:resource="#Atmospheric_Weapons_Effects"/>
    <cnd:subCategory rdf:resource="#Airspace_Availability"/>

```

```

        <rnd:subCategory rdf:resource="#RF_Spectrum"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-AIR"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Climate">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Climate Class</rdfs:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>1.3.1</rnd:index>
        <rnd:title>Climate</rnd:title>
        <rnd:definition>Aggregate long-term weather history for a
region.</rnd:definition>
        <rnd:superCategory rdf:resource="#AIR"/>
        <rnd:subCategory rdf:resource="#Season"/>
        <rnd:subCategory rdf:resource="#Weather_Systems"/>
        <rnd:subCategory rdf:resource="#Weather"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Climate"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Season">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Season Class</rdfs:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>1.3.1.1</rnd:index>
        <rnd:title>Season</rnd:title>
        <rnd:definition>Periods of the year characterized by changes in
temperature, daylight length, storm activity, and
precipitation.</rnd:definition>
        <rnd:superCategory rdf:resource="#Climate"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Season"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Weather_Systems">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Weather Systems Class</rdfs:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>1.3.1.2</rnd:index>
        <rnd:title>Weather Systems</rnd:title>

```

```

        <cnd:definition>Systems that determine weather over the next 2 to 5
days.</cnd:definition>
        <cnd:superCategory rdf:resource="#Climate"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Weather_Systems"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Weather">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Weather Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>1.3.1.3</cnd:index>
        <cnd:title>Weather</cnd:title>
        <cnd:definition>Current weather (next 24 hours).</cnd:definition>
        <cnd:superCategory rdf:resource="#Climate"/>
        <cnd:subCategory rdf:resource="#Air_Temperature"/>
        <cnd:subCategory rdf:resource="#Barometric_Pressure"/>
        <cnd:subCategory rdf:resource="#Surface_Wind_Velocity"/>
        <cnd:subCategory rdf:resource="#Wind_Direction"/>
        <cnd:subCategory rdf:resource="#Relative_Humidity"/>
        <cnd:subCategory rdf:resource="#Precipitation"/>
        <cnd:subCategory rdf:resource="#Icing"/>
        <cnd:subCategory rdf:resource="#Turbulence_And_Wind_Shear"/>
        <cnd:subCategory rdf:resource="#Altitude"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Weather"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>

    <owl:Class rdf:ID="Air_Temperature">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Air Temperature Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>1.3.1.3.1</cnd:index>
        <cnd:title>Air Temperature</cnd:title>
        <cnd:definition>Atmospheric temperature at ground level (degrees
Fahrenheit).</cnd:definition>
        <cnd:superCategory rdf:resource="#Weather"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Air_Temperature"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>

```

```

<owl:Class rdf:ID="Barometric_Pressure">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Barometric Pressure Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>1.3.1.3.2</cnid:index>
  <cnid:title>Barometric Pressure</cnid:title>
  <cnid:definition>Measured surface air pressure.</cnid:definition>
  <cnid:superCategory rdf:resource="#Weather"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Barometric_Pressure"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Surface_Wind_Velocity">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Surface Wind Velocity Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>1.3.1.3.3</cnid:index>
  <cnid:title>Surface Wind Velocity</cnid:title>
  <cnid:definition>The speed at which air moves through the atmosphere at
an altitude up to 500 feet.</cnid:definition>
  <cnid:superCategory rdf:resource="#Weather"/>
  <cnid:subCategory rdf:resource="#Low_Altitude_Wind_Velocity"/>
  <cnid:subCategory rdf:resource="#Medium_Altitude_Wind_Velocity"/>
  <cnid:subCategory rdf:resource="#High_Altitude_Wind_Velocity"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Surface_Wind_Velocity"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Low_Altitude_Wind_Velocity">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Low Altitude Wind Velocity Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>1.3.1.3.3.1</cnid:index>
  <cnid:title>Low Altitude Wind Velocity</cnid:title>
  <cnid:definition>The speed at which air moves through the atmosphere at
an altitude between 500 to 10,000 feet.</cnid:definition>
  <cnid:superCategory rdf:resource="#Surface_Wind_Velocity"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Low_Altitude_Wind_Velocity"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Medium_Altitude_Wind_Velocity">

```

```

<rdfs:subClassOf rdf:resource="#Condition"/>
<rdfs:label>Medium Altitude Wind Velocity Class</rdfs:label>
<cnd:categoryCode>C</cnd:categoryCode>

<cnd:index>1.3.1.3.3.2</cnd:index>
<cnd:title>Medium Altitude Wind Velocity</cnd:title>
<cnd:definition>The speed at which air moves through the atmosphere at
an altitude between 10,000 and 25,000 feet.</cnd:definition>
<cnd:superCategory rdf:resource="#Surface_Wind_Velocity"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Medium_Altitude_Wind_Velocity"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="High_Altitude_Wind_Velocity">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>High Altitude Wind Velocity Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.3.1.3.3.3</cnd:index>
  <cnd:title>High Altitude Wind Velocity</cnd:title>
  <cnd:definition>The speed at which air moves through the atmosphere at
an altitude higher than 25,000 feet.</cnd:definition>
  <cnd:superCategory rdf:resource="#Surface_Wind_Velocity"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-High_Altitude_Wind_Velocity"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Wind_Direction">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Wind Direction Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>1.3.1.3.4</cnd:index>
  <cnd:title>Wind Direction</cnd:title>
  <cnd:definition>The relative direction of the air moving through the
atmosphere.</cnd:definition>
  <cnd:superCategory rdf:resource="#Weather"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Wind_Direction"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Relative_Humidity">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Relative Humidity Class</rdfs:label>

```

```

<rnd:categoryCode>C</rnd:categoryCode>
<rnd:index>1.3.1.3.5</rnd:index>
<rnd:title>Relative Humidity</rnd:title>
<rnd:definition>A measure of water vapor in the air.</rnd:definition>
<rnd:superCategory rdf:resource="#Weather"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Relative_Humidity"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Precipitation">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Precipitation Class</rdfs:label>
  <rnd:categoryCode>C</rnd:categoryCode>
  <rnd:index>1.3.1.3.6</rnd:index>
  <rnd:title>Precipitation</rnd:title>
  <rnd:definition>Liquid, freezing and frozen water that falls to the
surface.</rnd:definition>
  <rnd:superCategory rdf:resource="#Weather"/>
  <rnd:subCategory rdf:resource="#Precipitation_Type"/>
  <rnd:subCategory rdf:resource="#Precipitation_Intensity"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Precipitation"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Precipitation_Type">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Precipitation Type Class</rdfs:label>
  <rnd:categoryCode>C</rnd:categoryCode>
  <rnd:index>1.3.1.3.6.1</rnd:index>
  <rnd:title>Precipitation Type</rnd:title>
  <rnd:definition>The form or state of water falling to the
surface.</rnd:definition>
  <rnd:superCategory rdf:resource="#Precipitation"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Precipitation_Type"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Precipitation_Intensity">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Precipitation Intensity Class</rdfs:label>
  <rnd:categoryCode>C</rnd:categoryCode>
  <rnd:index>1.3.1.3.6.2</rnd:index>

```



```

        <cnid:title>Precipitation Intensity</cnid:title>
        <cnid:definition>The rate of fall (related to the droplet/crystal
size).</cnid:definition>
        <cnid:superCategory rdf:resource="#Precipitation"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Precipitation_Intensity"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Icing">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Icing Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>1.3.1.3.7</cnid:index>
        <cnid:title>Icing</cnid:title>
        <cnid:definition>The formation or coating of ice upon
surfaces.</cnid:definition>
        <cnid:superCategory rdf:resource="#Weather"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Icing"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Turbulence_And_Wind_Shear">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Turbulence and Wind Shear Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>1.3.1.3.8</cnid:index>
        <cnid:title>Turbulence and Wind Shear</cnid:title>
        <cnid:definition>Rapid changes in air movement over relatively short
distances.</cnid:definition>
        <cnid:superCategory rdf:resource="#Weather"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Turbulence_And_Wind_Shear"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Altitude">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Altitude Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>1.3.1.3.9</cnid:index>
        <cnid:title>Altitude</cnid:title>

```

```

        <rnd:definition>Height above sea level.</rnd:definition>
        <rnd:superCategory rdf:resource="#Weather"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Altitude"/>
            </owl:Restriction>
        </rnd:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Visibility">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>Visibility Class</rnd:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>1.3.2</rnd:index>
        <rnd:title>Visibility</rnd:title>
        <rnd:definition>Maximum distance to see an object given the moisture and
particulate matter (dust, salt, ash) suspended in the
atmosphere.</rnd:definition>
        <rnd:superCategory rdf:resource="#AIR"/>
        <rnd:subCategory rdf:resource="#Light"/>
        <rnd:subCategory rdf:resource="#Obscurants"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Visibility"/>
            </owl:Restriction>
        </rnd:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Light">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>Light Class</rnd:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>1.3.2.1</rnd:index>
        <rnd:title>Light</rnd:title>
        <rnd:definition>Light available to illuminate objects from natural or
manmade sources.</rnd:definition>
        <rnd:superCategory rdf:resource="#Visibility"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Light"/>
            </owl:Restriction>
        </rnd:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Obscurants">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>Obscurants Class</rnd:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>1.3.2.2</rnd:index>
        <rnd:title>Obscurants</rnd:title>

```

```

        <cn:definition>Temporary addition of material (smoke, dust, ash, sand)
to the atmosphere.</cn:definition>
        <cn:superCategory rdf:resource="#Visibility"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Obscurants"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Atmospheric_Weapons_Effects">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Atmospheric Weapons Effects Class</rdfs:label>
        <cn:categoryCode>C</cn:categoryCode>
        <cn:index>1.3.3</cn:index>
        <cn:title>Atmospheric Weapons Effects</cn:title>
        <cn:definition>Nuclear, biological, chemical, or electromagnetic
impacts.</cn:definition>
        <cn:superCategory rdf:resource="#AIR"/>
        <cn:subCategory rdf:resource="#Nuclear_Effects"/>
        <cn:subCategory rdf:resource="#Chemical_Effects"/>
        <cn:subCategory rdf:resource="#Biological_Effects"/>
        <cn:subCategory rdf:resource="#Electromagnetic_Effects"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Atmospheric_Weapons_Effects"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Nuclear_Effects">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Nuclear Effects Class</rdfs:label>
        <cn:categoryCode>C</cn:categoryCode>
        <cn:index>1.3.3.1</cn:index>
        <cn:title>Nuclear Effects</cn:title>
        <cn:definition>Threat has capabilities or has used (one or more of the
following) to cause immediate and/or delayed casualties, psychological
disruption, and/or disruption of the operational tempo.</cn:definition>
        <cn:superCategory rdf:resource="#Atmospheric_Weapons_Effects"/>
        <cn:subCategory rdf:resource="#Nuclear_BlastThermal_Effects"/>
        <cn:subCategory rdf:resource="#Nuclear_Radiation_Effects"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Nuclear_Effects"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Nuclear_BlastThermal_Effects">
        <rdfs:subClassOf rdf:resource="#Condition"/>

```

```

<rdfs:label>Nuclear Blast/Thermal Effects Class</rdfs:label>
<cnid:categoryCode>C</cnid:categoryCode>
<cnid:index>1.3.3.1.1</cnid:index>
<cnid:title>Nuclear Blast/Thermal Effects</cnid:title>
<cnid:definition>Extent of nuclear blast/thermal
effects.</cnid:definition>
<cnid:superCategory rdf:resource="#Nuclear_Effects"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Nuclear_BlastThermal_Effects"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Nuclear_Radiation_Effects">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Nuclear Radiation Effects Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>1.3.3.1.2</cnid:index>
  <cnid:title>Nuclear Radiation Effects</cnid:title>
  <cnid:definition>Extent of radiation effects (level of exposure to
unprotected personnel over period of five days).</cnid:definition>
  <cnid:superCategory rdf:resource="#Nuclear_Effects"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Nuclear_Radiation_Effects"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Chemical_Effects">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Chemical Effects Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>1.3.3.2</cnid:index>
  <cnid:title>Chemical Effects</cnid:title>
  <cnid:definition>Threat has capabilities to employ, or has used (one or
more of the following) to cause immediate and/or delayed casualties,
psychological disruption, and/or disruption of the operational
tempo.</cnid:definition>
  <cnid:superCategory rdf:resource="#Atmospheric_Weapons_Effects"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Chemical_Effects"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Biological_Effects">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Biological Effects Class</rdfs:label>

```

```

        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>1.3.3.3</cnid:index>
        <cnid:title>Biological Effects</cnid:title>
        <cnid:definition>Threat has capabilities to employ, (or has used one or
more of the following) to cause immediate and/or delayed casualties,
psychological disruption, and /or disruption of the operational
tempo.</cnid:definition>
        <cnid:superCategory rdf:resource="#Atmospheric_Weapons_Effects"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Biological_Effects"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Electromagnetic_Effects">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Electromagnetic Effects Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>1.3.3.4</cnid:index>
        <cnid:title>Electromagnetic Effects</cnid:title>
        <cnid:definition>Extent to which electronic warfare, nuclear
electromagnetic pulse, or directed energy are employed.</cnid:definition>
        <cnid:superCategory rdf:resource="#Atmospheric_Weapons_Effects"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Electromagnetic_Effects"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Airspace_Availability">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Airspace Availability Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>1.3.4</cnid:index>
        <cnid:title>Airspace Availability</cnid:title>
        <cnid:definition>Freedom of airspace from confining factors such as FIRs,
restricted areas, MOAs, Fire Support Control Zones, Air Space Coordination Areas
that limit freedom of flight.</cnid:definition>
        <cnid:superCategory rdf:resource="#AIR"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Airspace_Availability"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="RF_Spectrum">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>RF Spectrum Class</rdfs:label>

```

```

        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>1.3.5</cnid:index>
        <cnid:title>RF Spectrum</cnid:title>
        <cnid:definition>Extent to which use or exploitation of the radio
frequency (RF) spectrum is inhibited or degraded due to overcrowding,
unavailability or operational restrictions caused by friendly, enemy or neutral
forces (e.g., civil air government, private citizenry, etc.) Such use or
exploitation may include, but not limited to</cnid:definition>
        <cnid:superCategory rdf:resource="#AIR"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-RF_Spectrum"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="SPACE">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>SPACE Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>1.4</cnid:index>
        <cnid:title>SPACE</cnid:title>
        <cnid:definition>Characteristics of the earth's upper atmosphere and
the environment at satellite altitudes.</cnid:definition>
        <cnid:superCategory rdf:resource="#PHYSICAL_ENVIRONMENT"/>
        <cnid:subCategory rdf:resource="#Objects_In_Space"/>
        <cnid:subCategory rdf:resource="#Natural_Environment"/>
        <cnid:subCategory rdf:resource="#High_Energy_Particles"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-SPACE"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Objects_In_Space">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Objects in Space Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>1.4.1</cnid:index>
        <cnid:title>Objects in Space</cnid:title>
        <cnid:definition>Satellites, vehicles, particles, and debris in orbit
around the earth.</cnid:definition>
        <cnid:superCategory rdf:resource="#SPACE"/>
        <cnid:subCategory rdf:resource="#Orbit_Density"/>
        <cnid:subCategory rdf:resource="#Orbit_Type"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Objects_In_Space"/>
            </owl:Restriction>

```

```

        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Orbit_Density">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Orbit Density Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>1.4.1.1</cnd:index>
        <cnd:title>Orbit Density</cnd:title>
        <cnd:definition>Existing satellites and space junk in a particular
orbit.</cnd:definition>
        <cnd:superCategory rdf:resource="#Objects_In_Space"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Orbit_Density"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Orbit_Type">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Orbit Type Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>1.4.1.2</cnd:index>
        <cnd:title>Orbit Type</cnd:title>
        <cnd:definition>A space object's elliptical path around the
earth.</cnd:definition>
        <cnd:superCategory rdf:resource="#Objects_In_Space"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Orbit_Type"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Natural_Environment">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Natural Environment Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>1.4.2</cnd:index>
        <cnd:title>Natural Environment</cnd:title>
        <cnd:definition>Geomagnetic and solar activity, high energy particles at
satellite altitudes, ionospheric disturbances.</cnd:definition>
        <cnd:superCategory rdf:resource="#SPACE"/>
        <cnd:subCategory rdf:resource="#Solar_And_Geomagnetic_Activity"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Natural_Environment"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>

```

```

<owl:Class rdf:ID="Solar_And_Geomagnetic_Activity">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Solar and Geomagnetic Activity Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>1.4.2.1</cnid:index>
  <cnid:title>Solar and Geomagnetic Activity</cnid:title>
  <cnid:definition>Level of solar and/or geomagnetic
activity</cnid:definition>
  <cnid:superCategory rdf:resource="#Natural_Environment"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Solar_And_Geomagnetic_Activity"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="High_Energy_Particles">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>High Energy Particles Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>1.4.3</cnid:index>
  <cnid:title>High Energy Particles</cnid:title>
  <cnid:definition>Level of high energy particles caused by solar
activity.</cnid:definition>
  <cnid:superCategory rdf:resource="#SPACE"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-High_Energy_Particles"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<!-- Military Environment Classes ***** -->
<owl:Class rdf:ID="Military_Environment">
  <rdfs:subClassOf rdf:resource="#Environment"/>
  <rdfs:label>Military Environment Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>2.0</cnid:index>
  <cnid:title>Military Environment</cnid:title>
  <cnid:definition>Those factors related to the mission, command structure,
and forces. These factors can apply to US forces, allied and coalition forces,
neutral forces, and enemy forces.</cnid:definition>
  <cnid:subCategory rdf:resource="#Mission"/>
  <cnid:subCategory rdf:resource="#CONFLICT"/>
  <cnid:subCategory rdf:resource="#Forces"/>
  <cnid:subCategory rdf:resource="#COMMAND_CONTROL_COMMUNICATIONS"/>
  <cnid:subCategory rdf:resource="#INTELLIGENCE"/>
  <cnid:subCategory rdf:resource="#DEPLOYMENT_MOVEMENT_MANEUVER"/>
  <cnid:subCategory rdf:resource="#FIREPOWER"/>
  <cnid:subCategory rdf:resource="#PROTECTION"/>
  <cnid:subCategory rdf:resource="#SUSTAINMENT"/>
  <cnid:subCategory rdf:resource="#THREAT"/>
</owl:Class>

```



```

<owl:Class rdf:ID="Mission">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Mission Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.1</cnd:index>
  <cnd:title>Mission</cnd:title>
  <cnd:definition>Those factors that frame and influence the execution of
the mission assigned or understood.</cnd:definition>
  <cnd:superCategory rdf:resource="#Military_Environment"/>
  <cnd:subCategory rdf:resource="#Mission_Instructions"/>
  <cnd:subCategory rdf:resource="#Legal_State"/>
  <cnd:subCategory rdf:resource="#Mission_Preparation"/>
  <cnd:subCategory rdf:resource="#Theater_Dimensions"/>
  <cnd:subCategory rdf:resource="#Time_Available"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Mission"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Mission_Instructions">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Mission Instructions Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.1.1</cnd:index>
  <cnd:title>Mission Instructions</cnd:title>

  <cnd:definition>Clarity of instructions, directives, policy guidance
(including end state), strategies, or status of forces agreements, below the NCA
level.</cnd:definition>
  <cnd:superCategory rdf:resource="#Mission"/>
  <cnd:subCategory rdf:resource="#Command_Level"/>
  <cnd:subCategory rdf:resource="#Pre-Existing_Arrangements"/>
  <cnd:subCategory rdf:resource="#Mission_Classification"/>
  <cnd:subCategory rdf:resource="#ROE"/>
  <cnd:subCategory rdf:resource="#SOFA"/>
  <cnd:subCategory rdf:resource="#Military_Commitments_To_Other_Nations"/>
  <cnd:subCategory
rdf:resource="#Military_Commitments_From_Other_Nations"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Mission_Instructions"/>
    </owl:Restriction>

  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Command_Level">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Command Level Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.1.1.1</cnd:index>

```

```

        <cmd:title>Command Level</cmd:title>
        <cmd:definition>The level of command directing the
mission.</cmd:definition>
        <cmd:superCategory rdf:resource="#Mission_Instructions"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Command_Level"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Pre-Existing_Arrangements">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Pre-Existing Arrangements Class</rdfs:label>
        <cmd:categoryCode>C</cmd:categoryCode>
        <cmd:index>2.1.1.2</cmd:index>
        <cmd:title>Pre-Existing Arrangements</cmd:title>
        <cmd:definition>Those plans, organizations, relationships, and
arrangements that existed before the present mission or tasking and that might
influence execution of the concept of operations.</cmd:definition>
        <cmd:superCategory rdf:resource="#Mission_Instructions"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Pre-Existing_Arrangements"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Mission_Classification">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Mission Classification Class</rdfs:label>
        <cmd:categoryCode>C</cmd:categoryCode>

        <cmd:index>2.1.1.3</cmd:index>
        <cmd:title>Mission Classification</cmd:title>
        <cmd:definition>The degree of secrecy assigned to the
mission.</cmd:definition>
        <cmd:superCategory rdf:resource="#Mission_Instructions"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Mission_Classification"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="ROE">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>ROE Class</rdfs:label>
        <cmd:categoryCode>C</cmd:categoryCode>
        <cmd:index>2.1.1.4</cmd:index>
        <cmd:title>ROE</cmd:title>

```

```

        <cn:definition>The divergence of the Rules of Engagement from the
Standing Rules of Engagement, CJCSI 3121.01., as published by the Director of
Operations, The Joint Staff.. Note</cn:definition>
        <cn:superCategory rdf:resource="#Mission_Instructions"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-ROE"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="SOFA">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>SOFA Class</rdfs:label>
        <cn:categoryCode>C</cn:categoryCode>
        <cn:index>2.1.1.5</cn:index>
        <cn:title>SOFA</cn:title>
        <cn:definition>The degree of control a host nation cedes over the
conduct and punishment of guest forces under Status of Forces Agreements or like
instruments.</cn:definition>
        <cn:superCategory rdf:resource="#Mission_Instructions"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-SOFA"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Military_Commitments_To_Other_Nations">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Military Commitments to Other Nations Class</rdfs:label>
        <cn:categoryCode>C</cn:categoryCode>
        <cn:index>2.1.1.6</cn:index>
        <cn:title>Military Commitments to Other Nations</cn:title>
        <cn:definition>The amount of commitment on the part of one nation to
assist another.</cn:definition>
        <cn:superCategory rdf:resource="#Mission_Instructions"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Military_Commitments_To_Other_Nations"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Military_Commitments_From_Other_Nations">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Military Commitments from Other Nations Class</rdfs:label>
        <cn:categoryCode>C</cn:categoryCode>
        <cn:index>2.1.1.7</cn:index>
        <cn:title>Military Commitments from Other Nations</cn:title>

```

```

        <cnd:definition>The amount of commitment on the part of other nation to
support mission.</cnd:definition>
        <cnd:superCategory rdf:resource="#Mission_Instructions"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Military_Commitments_From_Other_Nations"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Legal_State">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Legal State Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>2.1.2</cnd:index>
        <cnd:title>Legal State</cnd:title>
        <cnd:definition>The legal state under which military forces are
operating.</cnd:definition>
        <cnd:superCategory rdf:resource="#Mission"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Legal_State"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Mission_Preparation">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Mission Preparation Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>2.1.3</cnd:index>
        <cnd:title>Mission Preparation</cnd:title>
        <cnd:definition>Degree to which preparations for mission have been
completed at time of mission execution. Includes intelligence, logistic,
positioning of units, etc.</cnd:definition>
        <cnd:superCategory rdf:resource="#Mission"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Mission_Preparation"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Theater_Dimensions">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Theater Dimensions Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>2.1.4</cnd:index>
        <cnd:title>Theater Dimensions</cnd:title>
        <cnd:definition>The location and size of the theater or sub-area of a
theater and the time available for mission accomplishment.</cnd:definition>

```

```

<cnd:superCategory rdf:resource="#Mission"/>
<cnd:subCategory rdf:resource="#Location"/>
<cnd:subCategory rdf:resource="#Theater_s"/>
<cnd:subCategory rdf:resource="#Joint_Operations_Area"/>
<cnd:subCategory rdf:resource="#Intertheater_Distance"/>
<cnd:subCategory rdf:resource="#Intratheater_Distance"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Theater_Dimensions"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Location">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Location Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.1.4.1</cnd:index>
  <cnd:title>Location</cnd:title>
  <cnd:definition>The location where the task must be
performed.</cnd:definition>
  <cnd:superCategory rdf:resource="#Theater_Dimensions"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Location"/>
      </owl:Restriction>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Theater_s">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Theater(s) Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.1.4.2</cnd:index>
    <cnd:title>Theater(s)</cnd:title>
    <cnd:definition>The number of theaters in which actions are taking
place. Does not include peaceful transit of geographic combatant
commander's AOR.</cnd:definition>
    <cnd:superCategory rdf:resource="#Theater_Dimensions"/>
    <rdfs:subClassOf>
      <owl:Restriction owl:cardinality="1">
        <owl:onProperty rdf:resource="#descriptor"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Theater_s"/>
        </owl:Restriction>
      </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Joint_Operations_Area">
      <rdfs:subClassOf rdf:resource="#Condition"/>
      <rdfs:label>Joint Operations Area Class</rdfs:label>
      <cnd:categoryCode>C</cnd:categoryCode>
      <cnd:index>2.1.4.3</cnd:index>

```

```

        <cnid:title>Joint Operations Area</cnid:title>
        <cnid:definition>Physical scope and breadth of an area designated by the
JFC in which joint forces operate.</cnid:definition>
        <cnid:superCategory rdf:resource="#Theater_Dimensions"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Joint_Operations_Area"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Intertheater_Distance">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Intertheater Distance Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>2.1.4.4</cnid:index>
        <cnid:title>Intertheater Distance</cnid:title>
        <cnid:definition>Mileage between two (intertheater) locations (e.g.,
CONUS to joint operations area).</cnid:definition>
        <cnid:superCategory rdf:resource="#Theater_Dimensions"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Intertheater_Distance"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Intratheater_Distance">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Intratheater Distance Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>2.1.4.5</cnid:index>
        <cnid:title>Intratheater Distance</cnid:title>
        <cnid:definition>Mileage between two locations (e.g., airfield to the
FEBA).</cnid:definition>
        <cnid:superCategory rdf:resource="#Theater_Dimensions"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Intratheater_Distance"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Time_Available">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Time Available Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>2.1.5</cnid:index>
        <cnid:title>Time Available</cnid:title>
        <cnid:definition>The time available, normally the time allowed, to
complete a phase in a concept of operations.</cnid:definition>

```

```

<cnd:superCategory rdf:resource="#Mission"/>
<cnd:subCategory rdf:resource="#Lead_Time"/>
<cnd:subCategory rdf:resource="#Mission_Duration"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Time_Available"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Lead_Time">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Lead Time Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.1.5.1</cnd:index>
  <cnd:title>Lead Time</cnd:title>
  <cnd:definition>The time from receipt of a warning or directive to
initiation of military operations.</cnd:definition>
  <cnd:superCategory rdf:resource="#Time_Available"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Lead_Time"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Mission_Duration">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Mission Duration Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.1.5.2</cnd:index>
  <cnd:title>Mission Duration</cnd:title>
  <cnd:definition>The time a unit is expected to continue to conduct a
mission.</cnd:definition>
  <cnd:superCategory rdf:resource="#Time_Available"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Mission_Duration"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="CONFLICT">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>CONFLICT Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.10</cnd:index>
  <cnd:title>CONFLICT</cnd:title>
  <cnd:definition>(none)</cnd:definition>
  <cnd:superCategory rdf:resource="#Military_Environment"/>
  <cnd:subCategory rdf:resource="#State_Of_Conflict"/>

```

```

        <owl:subClassOf rdf:resource="#Breadth_Of_Conflict"/>
        <owl:subClassOf rdf:resource="#Type_Of_Conflict"/>
    </owl:Class>
    <owl:Class rdf:ID="State_Of_Conflict">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>State of Conflict Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>2.10.1</cnd:index>
        <cnd:title>State of Conflict</cnd:title>
        <cnd:definition>Level of conflict in operational area.</cnd:definition>
        <cnd:superCategory rdf:resource="#CONFLICT"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-State_Of_Conflict"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Breadth_Of_Conflict">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Breadth of Conflict Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>2.10.2</cnd:index>
        <cnd:title>Breadth of Conflict</cnd:title>
        <cnd:definition>Scope and breadth of conflict area.</cnd:definition>
        <cnd:superCategory rdf:resource="#CONFLICT"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Breadth_Of_Conflict"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Type_Of_Conflict">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Type of Conflict Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>2.10.3</cnd:index>
        <cnd:title>Type of Conflict</cnd:title>
        <cnd:definition>Type of weapons and forces employed.</cnd:definition>
        <cnd:superCategory rdf:resource="#CONFLICT"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Type_Of_Conflict"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Forces">
        <rdfs:subClassOf rdf:resource="#Condition"/>

```



```

<rdfs:label>Forces Class</rdfs:label>
<cnd:categoryCode>C</cnd:categoryCode>
<cnd:index>2.2</cnd:index>
<cnd:title>Forces</cnd:title>
<cnd:definition>The overall capabilities of the forces of a nation,
alliance, or coalition.</cnd:definition>
<cnd:superCategory rdf:resource="#Military_Environment"/>
<cnd:subCategory rdf:resource="#Forces_Assigned"/>
<cnd:subCategory rdf:resource="#Competing_Apportionments"/>
<cnd:subCategory rdf:resource="#Forces_Allocated"/>
<cnd:subCategory rdf:resource="#Personnel_Capability"/>
<cnd:subCategory rdf:resource="#Modern_Military_Systems"/>
<cnd:subCategory rdf:resource="#Interoperability"/>
<cnd:subCategory rdf:resource="#Military_Force_Relationships"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Forces"/>
  </owl:Restriction>
</rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Forces_Assigned">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Forces Assigned Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.2.1</cnd:index>
  <cnd:title>Forces Assigned</cnd:title>
  <cnd:definition>The capabilities of combat and support forces assigned
to a combatant commander day-to-day.</cnd:definition>
  <cnd:superCategory rdf:resource="#Forces"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Forces_Assigned"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Competing_Apportionments">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Competing Apportionments Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.2.2</cnd:index>
  <cnd:title>Competing Apportionments</cnd:title>
  <cnd:definition>The extent to which forces are distributed for planning,
in that the same force may be apportioned simultaneously to more than one
combatant commander (for planning).</cnd:definition>
  <cnd:superCategory rdf:resource="#Forces"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Competing_Apportionments"/>
    </owl:Restriction>
  </rdfs:subClassOf>

```

```

        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Forces_Allocated">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Forces Allocated Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.2.3</cnid:index>
    <cnid:title>Forces Allocated</cnid:title>
    <cnid:definition>The extent to which forces are distributed to a
commander for accomplishment of assigned mission.</cnid:definition>
    <cnid:superCategory rdf:resource="#Forces"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Forces_Allocated"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Personnel_Capability">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Personnel Capability Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.2.4</cnid:index>
    <cnid:title>Personnel Capability</cnid:title>
    <cnid:definition>The extent to which personnel are capable of performing
assigned tasks.</cnid:definition>
    <cnid:superCategory rdf:resource="#Forces"/>
    <cnid:subCategory rdf:resource="#Personnel_Nutrition_And_Health"/>
    <cnid:subCategory rdf:resource="#Personnel_Literacy"/>
    <cnid:subCategory rdf:resource="#Personnel_Physical_Conditioning"/>
    <cnid:subCategory rdf:resource="#Personnel_Morale"/>
    <cnid:subCategory rdf:resource="#Personnel_Experience"/>
    <cnid:subCategory rdf:resource="#Personnel_Fatigue"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Personnel_Capability"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Personnel_Nutrition_And_Health">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Personnel Nutrition and Health Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.2.4.1</cnid:index>
    <cnid:title>Personnel Nutrition and Health</cnid:title>
    <cnid:definition>The degree to which the members of a force are healthy
and free of disease.</cnid:definition>
    <cnid:superCategory rdf:resource="#Personnel_Capability"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>

```

```

        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Personnel_Nutrition_And_Health"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Personnel_Literacy">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Personnel Literacy Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.2.4.2</cnd:index>
    <cnd:title>Personnel Literacy</cnd:title>
    <cnd:definition>The literacy level of military
personnel.</cnd:definition>
    <cnd:superCategory rdf:resource="#Personnel_Capability"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Personnel_Literacy"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Personnel_Physical_Conditioning">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Personnel Physical Conditioning Class</rdfs:label>

    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.2.4.3</cnd:index>
    <cnd:title>Personnel Physical Conditioning</cnd:title>
    <cnd:definition>The level of physical conditioning of military
personnel.</cnd:definition>
    <cnd:superCategory rdf:resource="#Personnel_Capability"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Personnel_Physical_Conditioning"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Personnel_Morale">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Personnel Morale Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.2.4.4</cnd:index>
    <cnd:title>Personnel Morale</cnd:title>
    <cnd:definition>The state of a force's spirit and
confidence.</cnd:definition>
    <cnd:superCategory rdf:resource="#Personnel_Capability"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>

```

```

        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Personnel_Morale"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Personnel_Experience">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Personnel Experience Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.2.4.5</cnd:index>
    <cnd:title>Personnel Experience</cnd:title>
    <cnd:definition>The degree to which the civilian and military personnel
assigned the task is experienced at the task.</cnd:definition>
    <cnd:superCategory rdf:resource="#Personnel_Capability"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Personnel_Experience"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Personnel_Fatigue">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Personnel Fatigue Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.2.4.6</cnd:index>
    <cnd:title>Personnel Fatigue</cnd:title>
    <cnd:definition>The degrees to which personnel, due to lack of rest, are
experiencing fatigue.</cnd:definition>
    <cnd:superCategory rdf:resource="#Personnel_Capability"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Personnel_Fatigue"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Modern_Military_Systems">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Modern Military Systems Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.2.5</cnd:index>
    <cnd:title>Modern Military Systems</cnd:title>
    <cnd:definition>The availability of modern weapon and information
systems.</cnd:definition>
    <cnd:superCategory rdf:resource="#Forces"/>
    <cnd:subCategory rdf:resource="#Modern_Weapons_Systems"/>
    <cnd:subCategory
rdf:resource="#Modern_Information_Intelligence_Processing_Systems"/>
    <cnd:subCategory rdf:resource="#Military_Systems_Reliability"/>
    <cnd:subCategory rdf:resource="#Military_Systems_Maturity"/>
    <rdfs:subClassOf>

```

```

        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Modern_Military_Systems"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Modern_Weapons_Systems">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Modern Weapons Systems Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.2.5.1</cnd:index>
    <cnd:title>Modern Weapons Systems</cnd:title>
    <cnd:definition>The availability of modern weapons systems in numbers
and types.</cnd:definition>
    <cnd:superCategory rdf:resource="#Modern_Military_Systems"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Modern_Weapons_Systems"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Modern_Information_Intelligence_Processing_Systems">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Modern Information & Intelligence Processing Systems
Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.2.5.2</cnd:index>
    <cnd:title>Modern Information & Intelligence Processing
Systems</cnd:title>
    <cnd:definition>The availability of modern information systems in
numbers and types.</cnd:definition>
    <cnd:superCategory rdf:resource="#Modern_Military_Systems"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Modern_Information_Intelligence_Processing_Systems"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Military_Systems_Reliability">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Military Systems Reliability Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.2.5.3</cnd:index>
    <cnd:title>Military Systems Reliability</cnd:title>
    <cnd:definition>The qualities of reliability, maintainability, and
sustainability built into military systems.</cnd:definition>
    <cnd:superCategory rdf:resource="#Modern_Military_Systems"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">

```

```

        <owl:onProperty rdf:resource="#descriptor"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Military_Systems_Reliability"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Military_Systems_Maturity">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Military Systems Maturity Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.2.5.4</cnid:index>
    <cnid:title>Military Systems Maturity</cnid:title>
    <cnid:definition>The development and deployment status of a force's
leading edge technology systems.</cnid:definition>
    <cnid:superCategory rdf:resource="#Modern_Military_Systems"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Military_Systems_Maturity"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Interoperability">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Interoperability Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.2.6</cnid:index>
    <cnid:title>Interoperability</cnid:title>
    <cnid:definition>The ability of systems, units, or forces to interact and
operate effectively with other systems, units, or forces.</cnid:definition>
    <cnid:superCategory rdf:resource="#Forces"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Interoperability"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Military_Force_Relationships">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Military Force Relationships Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.2.7</cnid:index>
    <cnid:title>Military Force Relationships</cnid:title>
    <cnid:definition>The extent to which force elements (e.g., military
branches, paramilitary organizations) cooperate with each other and adhere to
the chain of command.</cnid:definition>
    <cnid:superCategory rdf:resource="#Forces"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>

```

```

        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Military_Force_Relationships"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="COMMAND_CONTROL_COMMUNICATIONS">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>COMMAND, CONTROL & COMMUNICATIONS Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.3</cnd:index>
    <cnd:title>COMMAND, CONTROL & COMMUNICATIONS</cnd:title>
    <cnd:definition>(none)</cnd:definition>
    <cnd:superCategory rdf:resource="#Military_Environment"/>
    <cnd:subCategory rdf:resource="#Command_Arrangements"/>
    <cnd:subCategory rdf:resource="#Military_Style"/>
</owl:Class>
<owl:Class rdf:ID="Command_Arrangements">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Command Arrangements Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.3.1</cnd:index>
    <cnd:title>Command Arrangements</cnd:title>
    <cnd:definition>Type of relationships or procedures set up among forces
and their staffs for the effective management of forces and accomplishment of
the mission.</cnd:definition>
    <cnd:superCategory rdf:resource="#COMMAND_CONTROL_COMMUNICATIONS"/>
    <cnd:subCategory rdf:resource="#Joint_Staff_Integration"/>
    <cnd:subCategory rdf:resource="#Command_Relationships"/>
    <cnd:subCategory rdf:resource="#Multinational_Integration"/>
    <cnd:subCategory rdf:resource="#Staff_Expertise"/>
    <cnd:subCategory rdf:resource="#Pre-Existing_Command"/>
    <cnd:subCategory rdf:resource="#Command_Authority"/>
    <cnd:subCategory rdf:resource="#Communications_Connectivity"/>
    <cnd:subCategory rdf:resource="#Classification"/>
    <cnd:subCategory rdf:resource="#Information_Exchange"/>
    <cnd:subCategory rdf:resource="#Information_Volume"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Command_Arrangements"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Joint_Staff_Integration">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Joint Staff Integration Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.3.1.1</cnd:index>
    <cnd:title>Joint Staff Integration</cnd:title>
    <cnd:definition>The extent to which staffs of two or more forces or
agencies of the same nation have integrated their doctrine, staff, force
techniques and procedures, and training.</cnd:definition>
    <cnd:superCategory rdf:resource="#Command_Arrangements"/>
    <rdfs:subClassOf>

```

```

        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Joint_Staff_Integration"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Command_Relationships">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Command Relationships Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.3.1.10</cnd:index>
    <cnd:title>Command Relationships</cnd:title>
    <cnd:definition>The complexity of command relationships required to
train, organize and generate the force prior to transfer to the combatant
commander for employment.</cnd:definition>
    <cnd:superCategory rdf:resource="#Command_Arrangements"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Command_Relationships"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Multinational_Integration">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Multinational Integration Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.3.1.2</cnd:index>
    <cnd:title>Multinational Integration</cnd:title>
    <cnd:definition>The extent to which staffs of two or more forces, or
agencies of two or more nations, have integrated their senior command and staff
billets, information and intelligence, doctrine and procedures, logistics, and
training.</cnd:definition>
    <cnd:superCategory rdf:resource="#Command_Arrangements"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Multinational_Integration"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Staff_Expertise">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Staff Expertise Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.3.1.3</cnd:index>
    <cnd:title>Staff Expertise</cnd:title>
    <cnd:definition>The level of skill and experience that staff personnel
can provide to the commander, with regard to operational art and logistics, the
capabilities and limitations of force elements, and tactics, techniques, and
procedures.</cnd:definition>

```



```

        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Staff_Expertise"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Pre-Existing_Command">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Pre-Existing Command Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.3.1.4</cnid:index>
    <cnid:title>Pre-Existing Command</cnid:title>
    <cnid:definition>The extent to which an existing command and staff
headquarters structure exists.</cnid:definition>
    <cnid:superCategory rdf:resource="#Command_Arrangements"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Pre-Existing_Command"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Command_Authority">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Command Authority Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.3.1.5</cnid:index>
    <cnid:title>Command Authority</cnid:title>
    <cnid:definition>A commander's degree of authority over assigned
forces.</cnid:definition>
    <cnid:superCategory rdf:resource="#Command_Arrangements"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Command_Authority"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Communications_Connectivity">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Communications Connectivity Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.3.1.6</cnid:index>
    <cnid:title>Communications Connectivity</cnid:title>
    <cnid:definition>The degree to which communications can be maintained up
and down the chain of command and horizontally.</cnid:definition>
    <cnid:superCategory rdf:resource="#Command_Arrangements"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">

```

```

        <owl:onProperty rdf:resource="#descriptor"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Communications_Connectivity"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Classification">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Classification Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.3.1.7</cnd:index>
    <cnd:title>Classification</cnd:title>
    <cnd:definition>The highest level of information security at which a
headquarters or force is operating.</cnd:definition>
    <cnd:superCategory rdf:resource="#Command_Arrangements"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Classification"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Information_Exchange">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Information Exchange Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.3.1.8</cnd:index>
    <cnd:title>Information Exchange</cnd:title>
    <cnd:definition>The freedom with which information (e.g., intelligence
and logistic data and operations plans) can be distributed or released within a
staff or to operating units, to include among allies or coalition
partners.</cnd:definition>
    <cnd:superCategory rdf:resource="#Command_Arrangements"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Information_Exchange"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Information_Volume">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Information Volume Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.3.1.9</cnd:index>
    <cnd:title>Information Volume</cnd:title>
    <cnd:definition>The volume of data or information generated or made
available to decision makers.</cnd:definition>
    <cnd:superCategory rdf:resource="#Command_Arrangements"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>

```

```

        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Information_Volume"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Military_Style">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Military Style Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.3.2</cnd:index>
    <cnd:title>Military Style</cnd:title>
    <cnd:definition>The approach of a nation and its commanders to the
conduct of military operations.</cnd:definition>
    <cnd:superCategory rdf:resource="#COMMAND_CONTROL_COMMUNICATIONS"/>
    <cnd:subCategory rdf:resource="#Leadership_Style"/>
    <cnd:subCategory rdf:resource="#Force_Emphasis"/>
    <cnd:subCategory rdf:resource="#Flexibility_Of_Warfare_Style"/>
    <cnd:subCategory rdf:resource="#Component_Headquarters_Location"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Military_Style"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Leadership_Style">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Leadership Style Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.3.2.1</cnd:index>
    <cnd:title>Leadership Style</cnd:title>
    <cnd:definition>The approach of the commander to the exercise of command
and handling of subordinates.</cnd:definition>
    <cnd:superCategory rdf:resource="#Military_Style"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Leadership_Style"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Force_Emphasis">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Force Emphasis Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.3.2.2</cnd:index>
    <cnd:title>Force Emphasis</cnd:title>
    <cnd:definition>The special weight or importance placed by a nation in
the specific characteristics or composition (e.g., land, sea, air) of its armed
forces.</cnd:definition>
    <cnd:superCategory rdf:resource="#Military_Style"/>

```

```

    <rdfs:subClassOf>
      <owl:Restriction owl:cardinality="1">
        <owl:onProperty rdf:resource="#descriptor"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Force_Emphasis"/>
      </owl:Restriction>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Flexibility_Of_Warfare_Style">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Flexibility of Warfare Style Class</rdfs:label>
    <cn:categoryCode>C</cn:categoryCode>
    <cn:index>2.3.2.3</cn:index>
    <cn:title>Flexibility of Warfare Style</cn:title>
    <cn:definition>Extent to which a nation's armed forces can adapt
to various styles of warfare (e.g., moving from conventional to unconventional
warfare).</cn:definition>
    <cn:superCategory rdf:resource="#Military_Style"/>
    <rdfs:subClassOf>
      <owl:Restriction owl:cardinality="1">
        <owl:onProperty rdf:resource="#descriptor"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Flexibility_Of_Warfare_Style"/>
      </owl:Restriction>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Component_Headquarters_Location">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Component Headquarters Location Class</rdfs:label>
    <cn:categoryCode>C</cn:categoryCode>
    <cn:index>2.3.2.4</cn:index>
    <cn:title>Component Headquarters Location</cn:title>
    <cn:definition>The location of component command headquarters with
relation to the joint force commander's headquarters.</cn:definition>
    <cn:superCategory rdf:resource="#Military_Style"/>
    <rdfs:subClassOf>
      <owl:Restriction owl:cardinality="1">
        <owl:onProperty rdf:resource="#descriptor"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Component_Headquarters_Location"/>
      </owl:Restriction>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="INTELLIGENCE">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>INTELLIGENCE Class</rdfs:label>
    <cn:categoryCode>C</cn:categoryCode>
    <cn:index>2.4</cn:index>
    <cn:title>INTELLIGENCE</cn:title>
    <cn:definition>(none)</cn:definition>
    <cn:superCategory rdf:resource="#Military_Environment"/>
    <cn:subCategory rdf:resource="#Warning"/>
    <cn:subCategory rdf:resource="#Intelligence_Data_Base"/>
    <cn:subCategory rdf:resource="#Theater_Intelligence_Organization"/>

```

```

        <cnd:subCategory rdf:resource="#Theater_Intelligence_Access"/>
        <cnd:subCategory
rdf:resource="#Intelligence_Countermeasure_Capability"/>
        <cnd:subCategory rdf:resource="#Certitude_Of_Data"/>
        <cnd:subCategory
rdf:resource="#Intelligence_Dissemination_And_Receipt"/>
        <cnd:subCategory rdf:resource="#EW_Capability"/>
    </owl:Class>
    <owl:Class rdf:ID="Warning">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Warning Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>2.4.1</cnd:index>
        <cnd:title>Warning</cnd:title>
        <cnd:definition>The degree of certitude of warning
received.</cnd:definition>
        <cnd:superCategory rdf:resource="#INTELLIGENCE"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Warning"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Intelligence_Data_Base">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Intelligence Data Base Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>2.4.2</cnd:index>
        <cnd:title>Intelligence Data Base</cnd:title>
        <cnd:definition>The availability of intelligence data or threat
assessments to support a mission or task.</cnd:definition>
        <cnd:superCategory rdf:resource="#INTELLIGENCE"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Intelligence_Data_Base"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Theater_Intelligence_Organization">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Theater Intelligence Organization Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>2.4.3</cnd:index>
        <cnd:title>Theater Intelligence Organization</cnd:title>
        <cnd:definition>The status of an intelligence collection, processing,
and production organization within a theater or dedicated to the
theater.</cnd:definition>
        <cnd:superCategory rdf:resource="#INTELLIGENCE"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>

```

```

        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Theater_Intelligence_Organization"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Theater_Intelligence_Access">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Theater Intelligence Access Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.4.4</cnid:index>
    <cnid:title>Theater Intelligence Access</cnid:title>
    <cnid:definition>The ability of intelligence gathering resources to
penetrate and cover the AOR.</cnid:definition>
    <cnid:superCategory rdf:resource="#INTELLIGENCE"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Theater_Intelligence_Access"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Intelligence_Countermeasure_Capability">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Intelligence Countermeasure Capability Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.4.5</cnid:index>
    <cnid:title>Intelligence Countermeasure Capability</cnid:title>
    <cnid:definition>The ability of a nation to detect and counter
intelligence gathering by an enemy.</cnid:definition>
    <cnid:superCategory rdf:resource="#INTELLIGENCE"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Intelligence_Countermeasure_Capability"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Certitude_Of_Data">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Certitude of Data Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.4.6</cnid:index>
    <cnid:title>Certitude of Data</cnid:title>
    <cnid:definition>The degree of confidence in the accuracy of intelligence
data.</cnid:definition>
    <cnid:superCategory rdf:resource="#INTELLIGENCE"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>

```

```

        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Certitude_Of_Data"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Intelligence_Dissemination_And_Receipt">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Intelligence Dissemination and Receipt Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.4.7</cnid:index>
    <cnid:title>Intelligence Dissemination and Receipt</cnid:title>
    <cnid:definition>Proper communications paths, dissemination suite,
receipt suite, and display suite between producers and customers are in place to
allow timely transmission and receipt of information.</cnid:definition>
    <cnid:superCategory rdf:resource="#INTELLIGENCE"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Intelligence_Dissemination_And_Receipt"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="EW_Capability">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>EW Capability Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.4.8</cnid:index>
    <cnid:title>EW Capability</cnid:title>
    <cnid:definition>The ability to make use of electromagnetic and directed
energy control. Use the electromagnetic spectrum to attack the
enemy.</cnid:definition>
    <cnid:superCategory rdf:resource="#INTELLIGENCE"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-EW_Capability"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="DEPLOYMENT_MOVEMENT_MANEUVER">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>DEPLOYMENT, MOVEMENT & MANEUVER Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.5</cnid:index>
    <cnid:title>DEPLOYMENT, MOVEMENT & MANEUVER</cnid:title>
    <cnid:definition>(none)</cnid:definition>
    <cnid:superCategory rdf:resource="#Military_Environment"/>
    <cnid:subCategory rdf:resource="#LOC_And_Planning_Status"/>
    <cnid:subCategory rdf:resource="#Lift_Assets"/>
    <cnid:subCategory rdf:resource="#En_Route_Support"/>
    <cnid:subCategory
rdf:resource="#Joint_Reception_Staging_Onward_Movement_And_Integration"/>

```

```

</owl:Class>
<owl:Class rdf:ID="LOC_And_Planning_Status">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>LOC and Planning Status Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>2.5.1</cnid:index>
  <cnid:title>LOC and Planning Status</cnid:title>
  <cnid:definition>Status of lines of communication and planning for
deployment, movement, or maneuver.</cnid:definition>
  <cnid:superCategory rdf:resource="#DEPLOYMENT_MOVEMENT_MANEUVER"/>
  <cnid:subCategory rdf:resource="#TPFDD_Availability"/>
  <cnid:subCategory rdf:resource="#Deployment_Lead_Time"/>
  <cnid:subCategory rdf:resource="#Intertheater_LOCs"/>
  <cnid:subCategory rdf:resource="#Intratheater_LOCs"/>
  <cnid:subCategory rdf:resource="#Entry_Capability"/>
  <cnid:subCategory rdf:resource="#Intransit_Visibility_Capability"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-LOC_And_Planning_Status"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="TPFDD_Availability">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>TPFDD Availability Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>2.5.1.1</cnid:index>
  <cnid:title>TPFDD Availability</cnid:title>
  <cnid:definition>Availability of time-phased force and deployment data
needed to execute a deployment.</cnid:definition>
  <cnid:superCategory rdf:resource="#LOC_And_Planning_Status"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-TPFDD_Availability"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Deployment_Lead_Time">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Deployment Lead Time Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>2.5.1.2</cnid:index>
  <cnid:title>Deployment Lead Time</cnid:title>
  <cnid:definition>The amount of time to travel from home station to
arrival where the unit will be deployed.</cnid:definition>
  <cnid:superCategory rdf:resource="#LOC_And_Planning_Status"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>

```



```

        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Deployment_Lead_Time"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Intertheater_LOCs">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Intertheater LOCs Class</rdfs:label>
    <rnd:categoryCode>C</rnd:categoryCode>
    <rnd:index>2.5.1.3</rnd:index>
    <rnd:title>Intertheater LOCs</rnd:title>
    <rnd:definition>Freedom of movement for forces and materiel between
theaters.</rnd:definition>
    <rnd:superCategory rdf:resource="#LOC_And_Planning_Status"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Intertheater_LOCs"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Intratheater_LOCs">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Intratheater LOCs Class</rdfs:label>
    <rnd:categoryCode>C</rnd:categoryCode>
    <rnd:index>2.5.1.4</rnd:index>
    <rnd:title>Intratheater LOCs</rnd:title>
    <rnd:definition>Freedom of movement for forces and materiel within a
theater.</rnd:definition>
    <rnd:superCategory rdf:resource="#LOC_And_Planning_Status"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Intratheater_LOCs"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Entry_Capability">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Entry Capability Class</rdfs:label>
    <rnd:categoryCode>C</rnd:categoryCode>
    <rnd:index>2.5.1.5</rnd:index>
    <rnd:title>Entry Capability</rnd:title>
    <rnd:definition>Extent to which a military force is capable of entering
an area of operations unopposed or opposed.</rnd:definition>
    <rnd:superCategory rdf:resource="#LOC_And_Planning_Status"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Entry_Capability"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>

```

```

        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Intransit_Visibility_Capability">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Intransit Visibility Capability. Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.5.1.6</cnd:index>
    <cnd:title>Intransit Visibility Capability.</cnd:title>
    <cnd:definition>Extent to which deployable forces are able to provide
data on forces and materiel to Global Transportation Network via automated
identification technologies (AIT).</cnd:definition>
    <cnd:superCategory rdf:resource="#LOC_And_Planning_Status"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Intransit_Visibility_Capability"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Lift_Assets">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Lift Assets Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.5.2</cnd:index>
    <cnd:title>Lift Assets</cnd:title>
    <cnd:definition>Adequacy of lift assets for moving and supporting
forces.</cnd:definition>
    <cnd:superCategory rdf:resource="#DEPLOYMENT_MOVEMENT_MANEUVER"/>
    <cnd:subCategory rdf:resource="#Airlift_Assets"/>
    <cnd:subCategory rdf:resource="#Sealift_Assets"/>
    <cnd:subCategory rdf:resource="#Ground_Transportation_Assets"/>
    <cnd:subCategory rdf:resource="#Spacelift_Assets"/>
    <cnd:subCategory rdf:resource="#Refueling_Assets"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Lift_Assets"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Airlift_Assets">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Airlift Assets Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.5.2.1</cnd:index>
    <cnd:title>Airlift Assets</cnd:title>
    <cnd:definition>Availability of airlift assets for deployment or
employment of forces.</cnd:definition>
    <cnd:superCategory rdf:resource="#Lift_Assets"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">

```

```

        <owl:onProperty rdf:resource="#descriptor"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Airlift_Assets"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Sealift_Assets">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Sealift Assets Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.5.2.2</cnid:index>
    <cnid:title>Sealift Assets</cnid:title>
    <cnid:definition>Availability of sealift assets for deployment or
employment of forces.</cnid:definition>
    <cnid:superCategory rdf:resource="#Lift_Assets"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Sealift_Assets"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Ground_Transportation_Assets">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Ground Transportation Assets Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.5.2.3</cnid:index>
    <cnid:title>Ground Transportation Assets</cnid:title>
    <cnid:definition>Availability of ground transportation assets to support
deployment or employment of forces.</cnid:definition>
    <cnid:superCategory rdf:resource="#Lift_Assets"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Ground_Transportation_Assets"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Spacelift_Assets">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Spacelift Assets Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.5.2.4</cnid:index>
    <cnid:title>Spacelift Assets</cnid:title>
    <cnid:definition>Availability of launch pads, vehicle assembly/staging
areas, launch vehicles, and range facilities.</cnid:definition>
    <cnid:superCategory rdf:resource="#Lift_Assets"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>

```

```

        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Spacelift_Assets"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Refueling_Assets">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Refueling Assets Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.5.2.5</cnid:index>
    <cnid:title>Refueling Assets</cnid:title>
    <cnid:definition>Availability of refueling assets for deployment or
employment.</cnid:definition>
    <cnid:superCategory rdf:resource="#Lift_Assets"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Refueling_Assets"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="En_Route_Support">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>En Route Support Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.5.3</cnid:index>
    <cnid:title>En Route Support</cnid:title>
    <cnid:definition>Availability of support, and ITV data capture and basing
needed to ensure the movement of forces. Includes refueling (or bunkering),
arming, maintaining, troop support, ITV data capture and basing. For maritime
movement, includes convoy escorts and naval covering forces.</cnid:definition>
    <cnid:superCategory rdf:resource="#DEPLOYMENT_MOVEMENT_MANEUVER"/>
    <cnid:subCategory rdf:resource="#Intermediate_Staging_Bases"/>
    <cnid:subCategory rdf:resource="#OverflightPassage_Rights"/>
    <cnid:subCategory rdf:resource="#En_Route_Supply"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-En_Route_Support"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Intermediate_Staging_Bases">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Intermediate Staging Bases Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.5.3.1</cnid:index>
    <cnid:title>Intermediate Staging Bases</cnid:title>
    <cnid:definition>Availability of intermediate bases and ports for staging
aircraft, ships, and troops for strategic deployment.</cnid:definition>
    <cnid:superCategory rdf:resource="#En_Route_Support"/>
    <rdfs:subClassOf>

```

```

        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Intermediate_Staging_Bases"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="OverflightPassage_Rights">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Overflight/Passage Rights Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.5.3.2</cnd:index>
    <cnd:title>Overflight/Passage Rights</cnd:title>
    <cnd:definition>Right to overfly national territory or national waters
or to transit sovereign waters.</cnd:definition>
    <cnd:superCategory rdf:resource="#En_Route_Support"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-OverflightPassage_Rights"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="En_Route_Supply">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>En Route Supply Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.5.3.3</cnd:index>
    <cnd:title>En Route Supply</cnd:title>
    <cnd:definition>Availability of supply needed to ensure the movement of
forces. Includes refueling (or bunkering), arming, maintaining, troop support,
and basing.</cnd:definition>
    <cnd:superCategory rdf:resource="#En_Route_Support"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-En_Route_Supply"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Joint_Reception_Staging_Onward_Movement_And_Integration">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Joint Reception, Staging, Onward Movement, and Integration
Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.5.4</cnd:index>
    <cnd:title>Joint Reception, Staging, Onward Movement, and
Integration</cnd:title>
    <cnd:definition>Ability to support the delivery, disposition, and ITV of
units, equipment, and personnel that arrive by intertheater strategic lift or
intratheater lift.</cnd:definition>
    <cnd:superCategory rdf:resource="#DEPLOYMENT_MOVEMENT_MANEUVER"/>

```

```

<cnd:subCategory rdf:resource="#Reception_Facilities"/>
<cnd:subCategory rdf:resource="#Onward_Movement_Facilities"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Joint_Reception_Staging_Onward_Movement_And_Integration"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Reception_Facilities">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Reception Facilities Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.5.4.1</cnd:index>
  <cnd:title>Reception Facilities</cnd:title>
  <cnd:definition>Extent to which facilities are available to allow off-
load of ships or aircraft.</cnd:definition>
  <cnd:superCategory
rdf:resource="#Joint_Reception_Staging_Onward_Movement_And_Integration"/>
  <cnd:subCategory rdf:resource="#Pier_Space"/>
  <cnd:subCategory rdf:resource="#Maximum_On_Ground_MOG"/>
  <cnd:subCategory rdf:resource="#Runway_Length"/>
  <cnd:subCategory rdf:resource="#Runway_Weight_Bearing_Capacity"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Reception_Facilities"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Pier_Space">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Pier Space Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.5.4.1.1</cnd:index>
  <cnd:title>Pier Space</cnd:title>
  <cnd:definition>The amount of berthing space available to load or unload
ships.</cnd:definition>
  <cnd:superCategory rdf:resource="#Reception_Facilities"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Pier_Space"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Maximum_On_Ground_MOG">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Maximum on Ground (MOG) Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.5.4.1.2</cnd:index>

```

```

        <cnd:title>Maximum on Ground (MOG)</cnd:title>
        <cnd:definition>The maximum number of aircraft an airfield can
physically accommodate at one time for unloading and loading based on dimensions
of ramp space and/or runway for runway operations. The physical MOG may be
further qualified as a working MOG based on limiting factors such as servicing
or maintenance capability. MOG is often addressed in terms of wide-body
equivalents (C-5, C-17m B-747, etc) or narrow-body equivalents (C-141, C-130,
DC-8).</cnd:definition>
        <cnd:superCategory rdf:resource="#Reception_Facilities"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Maximum_On_Ground_MOG"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Runway_Length">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Runway Length Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>2.5.4.1.3</cnd:index>
        <cnd:title>Runway Length</cnd:title>
        <cnd:definition>The length of usable runway.</cnd:definition>
        <cnd:superCategory rdf:resource="#Reception_Facilities"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Runway_Length"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Runway_Weight_Bearing_Capacity">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Runway Weight Bearing Capacity Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>2.5.4.1.4</cnd:index>
        <cnd:title>Runway Weight Bearing Capacity</cnd:title>
        <cnd:definition>The weight bearing capacity of a runway or the larger
airport surfaces.</cnd:definition>
        <cnd:superCategory rdf:resource="#Reception_Facilities"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Runway_Weight_Bearing_Capacity"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Onward_Movement_Facilities">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Onward Movement Facilities Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>

```

```

        <rnd:index>2.5.4.2</rnd:index>
        <rnd:title>Onward Movement Facilities</rnd:title>
        <rnd:definition>Facilities available to marshal cargo and personnel and
move them forward in the theater.</rnd:definition>
        <rnd:superCategory
rdf:resource="#Joint_Reception_Staging_Onward_Movement_And_Integration"/>
        <rnd:subCategory rdf:resource="#Beddown_Facilities"/>
        <rnd:subCategory rdf:resource="#Marshaling_Facilities"/>
        <rnd:subCategory rdf:resource="#Staging_Area"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Onward_Movement_Facilities"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Beddown_Facilities">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Beddown Facilities Class</rdfs:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>2.5.4.2.1</rnd:index>
        <rnd:title>Beddown Facilities</rnd:title>
        <rnd:definition>Space available for handling materials and personnel
from arriving ships and aircraft.</rnd:definition>
        <rnd:superCategory rdf:resource="#Onward_Movement_Facilities"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Beddown_Facilities"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Marshaling_Facilities">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Marshaling Facilities Class</rdfs:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>2.5.4.2.2</rnd:index>
        <rnd:title>Marshaling Facilities</rnd:title>
        <rnd:definition>Facilities for assembling, holding, maintaining
visibility over and organizing supplies and equipment, especially vehicles and
transportation, for onward movement.</rnd:definition>
        <rnd:superCategory rdf:resource="#Onward_Movement_Facilities"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Marshaling_Facilities"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Staging_Area">
        <rdfs:subClassOf rdf:resource="#Condition"/>

```



```

<rdfs:label>Staging Area Class</rdfs:label>
<cnid:categoryCode>C</cnid:categoryCode>
<cnid:index>2.5.4.2.3</cnid:index>
<cnid:title>Staging Area</cnid:title>
<cnid:definition>Location established for the concentration of units and
transient personnel between movements.</cnid:definition>
<cnid:superCategory rdf:resource="#Onward_Movement_Facilities"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Staging_Area"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="FIREPOWER">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>FIREPOWER Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>2.6</cnid:index>
  <cnid:title>FIREPOWER</cnid:title>
  <cnid:definition>(none)</cnid:definition>
  <cnid:superCategory rdf:resource="#Military_Environment"/>
  <cnid:subCategory rdf:resource="#Degree_Of_Dispersion"/>
  <cnid:subCategory rdf:resource="#Degree_Of_Camouflage"/>
  <cnid:subCategory rdf:resource="#Target_Hardness"/>
  <cnid:subCategory rdf:resource="#Preplanned_Targets"/>
  <cnid:subCategory rdf:resource="#Target_Mobility"/>
  <cnid:subCategory rdf:resource="#Target_Range"/>
  <cnid:subCategory rdf:resource="#Collateral_Damage_Potential"/>
  <cnid:subCategory rdf:resource="#Target_Thermal_Contrast"/>
</owl:Class>
<owl:Class rdf:ID="Degree_Of_Dispersion">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Degree of Dispersion Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>2.6.1</cnid:index>
  <cnid:title>Degree of Dispersion</cnid:title>
  <cnid:definition>The degree to which forces or facilities are
concentrated in one area or conform to linear formations or lines, e.g., FLOT,
FEBA, or naval battle group formations.</cnid:definition>
  <cnid:superCategory rdf:resource="#FIREPOWER"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Degree_Of_Dispersion"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Degree_Of_Camouflage">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Degree of Camouflage Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>2.6.2</cnid:index>

```

```

        <rnd:title>Degree of Camouflage</rnd:title>
        <rnd:definition>The degree to which forces, units, items of equipment,
or personnel are hidden from visual, electronic, or other forms of
detection.</rnd:definition>
        <rnd:superCategory rdf:resource="#FIREPOWER"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Degree_Of_Camouflage"/>
            </owl:Restriction>
        </rnd:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Target_Hardness">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>Target Hardness Class</rnd:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>2.6.3</rnd:index>
        <rnd:title>Target Hardness</rnd:title>
        <rnd:definition>The degree to which a target or set of targets has been
protected against firepower attacks.</rnd:definition>
        <rnd:superCategory rdf:resource="#FIREPOWER"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Target_Hardness"/>
            </owl:Restriction>
        </rnd:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Preplanned_Targets">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>Preplanned Targets Class</rnd:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>2.6.4</rnd:index>
        <rnd:title>Preplanned Targets</rnd:title>
        <rnd:definition>The degree to which initial fires have been preplanned,
particularly in peacetime.</rnd:definition>
        <rnd:superCategory rdf:resource="#FIREPOWER"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Preplanned_Targets"/>
            </owl:Restriction>
        </rnd:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Target_Mobility">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>Target Mobility Class</rnd:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>2.6.5</rnd:index>
        <rnd:title>Target Mobility</rnd:title>

```

```

        <rnd:definition>The ability of a potential target to
relocate.</rnd:definition>
        <rnd:superCategory rdf:resource="#FIREPOWER"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Target_Mobility"/>

            </owl:Restriction>
        </rnd:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Target_Range">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>Target Range Class</rnd:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>2.6.6</rnd:index>
        <rnd:title>Target Range</rnd:title>
        <rnd:definition>The range of a target from an attacking system or
unit.</rnd:definition>
        <rnd:superCategory rdf:resource="#FIREPOWER"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Target_Range"/>

            </owl:Restriction>
        </rnd:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Collateral_Damage_Potential">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>Collateral Damage Potential Class</rnd:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>2.6.7</rnd:index>
        <rnd:title>Collateral Damage Potential</rnd:title>
        <rnd:definition>The degree to which the civilian population and
structures (e.g., homes, hospitals, schools) are close to targets, and therefore
at risk from attacks.</rnd:definition>
        <rnd:superCategory rdf:resource="#FIREPOWER"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Collateral_Damage_Potential"/>

            </owl:Restriction>
        </rnd:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Target_Thermal_Contrast">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>Target Thermal Contrast Class</rnd:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>2.6.8</rnd:index>
        <rnd:title>Target Thermal Contrast</rnd:title>

```

```

        <rnd:definition>The temperature differential between background areas
and targets.</rnd:definition>
        <rnd:superCategory rdf:resource="#FIREPOWER"/>

        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Target_Thermal_Contrast"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="PROTECTION">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>PROTECTION Class</rdfs:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>2.7</rnd:index>
        <rnd:title>PROTECTION</rnd:title>
        <rnd:definition>(none)</rnd:definition>
        <rnd:superCategory rdf:resource="#Military_Environment"/>
        <rnd:subCategory rdf:resource="#Rear_AreaLocal_Security"/>
        <rnd:subCategory rdf:resource="#Air_Superiority"/>
        <rnd:subCategory rdf:resource="#Space_Control"/>
        <rnd:subCategory rdf:resource="#Maritime_Superiority"/>
        <rnd:subCategory rdf:resource="#Ground_Superiority"/>
        <rnd:subCategory rdf:resource="#Facility_Survivability"/>
    </owl:Class>
    <owl:Class rdf:ID="Rear_AreaLocal_Security">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Rear Area/Local Security Class</rdfs:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>2.7.1</rnd:index>
        <rnd:title>Rear Area/Local Security</rnd:title>
        <rnd:definition>The extent to which the rear area or local area is
secure.</rnd:definition>
        <rnd:superCategory rdf:resource="#PROTECTION"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Rear_AreaLocal_Security"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Air_Superiority">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Air Superiority Class</rdfs:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>2.7.2</rnd:index>
        <rnd:title>Air Superiority</rnd:title>
        <rnd:definition>The extent to which operations in the air, over sea
and/or, over land can be conducted with acceptable losses due to hostile air
forces and air defense systems action.</rnd:definition>
        <rnd:superCategory rdf:resource="#PROTECTION"/>
        <rdfs:subClassOf>

```

```

        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Air_Superiority"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Space_Control">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Space Control Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.7.3</cnd:index>
    <cnd:title>Space Control</cnd:title>
    <cnd:definition>The measure by which we gain and maintain space
superiority to assure friendly forces can use the space environment while
denying its use to the enemy.</cnd:definition>
    <cnd:superCategory rdf:resource="#PROTECTION"/>
    <cnd:subCategory rdf:resource="#Space_Platforms"/>
    <cnd:subCategory rdf:resource="#Space_Platforms_Availability"/>
    <cnd:subCategory rdf:resource="#Space_Platforms_Linkability"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Space_Control"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Space_Platforms">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Space Platforms Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.7.3.1</cnd:index>
    <cnd:title>Space Platforms</cnd:title>
    <cnd:definition>The number of space platforms that are available for the
specific joint operations area.</cnd:definition>
    <cnd:superCategory rdf:resource="#Space_Control"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Space_Platforms"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Space_Platforms_Availability">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Space Platforms (Availability) Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.7.3.2</cnd:index>
    <cnd:title>Space Platforms (Availability)</cnd:title>
    <cnd:definition>The percentage of available time space platforms that
can be used over the joint operations area. Time can be limited due to

```

```

operational procedures, general ephemeris conditions, or sun angle (too high or
eclipse).</cnd:definition>
  <cnd:superCategory rdf:resource="#Space_Control"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Space_Platforms_Availability"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Space_Platforms_Linkability">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Space Platforms (Linkability) Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>

  <cnd:index>2.7.3.3</cnd:index>
  <cnd:title>Space Platforms (Linkability)</cnd:title>
  <cnd:definition>The method required to link the joint operations area
commanders to the space platforms.</cnd:definition>
  <cnd:superCategory rdf:resource="#Space_Control"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Space_Platforms_Linkability"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Maritime_Superiority">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Maritime Superiority Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.7.4</cnd:index>
  <cnd:title>Maritime Superiority</cnd:title>
  <cnd:definition>The extent to which operations on, over, or under the
sea can be conducted with acceptable losses due to hostile military naval
actions.</cnd:definition>
  <cnd:superCategory rdf:resource="#PROTECTION"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Maritime_Superiority"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Ground_Superiority">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Ground Superiority Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.7.5</cnd:index>
  <cnd:title>Ground Superiority</cnd:title>

```

```

        <rnd:definition>The extent to which operations on or over land can be
conducted with acceptable losses due to hostile military ground
actions.</rnd:definition>
        <rnd:superCategory rdf:resource="#PROTECTION"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Ground_Superiority"/>
            </owl:Restriction>
        </rnd:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Facility_Survivability">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>Facility Survivability Class</rnd:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>2.7.6</rnd:index>
        <rnd:title>Facility Survivability</rnd:title>
        <rnd:definition>(none)</rnd:definition>
        <rnd:superCategory rdf:resource="#PROTECTION"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Facility_Survivability"/>
            </owl:Restriction>
        </rnd:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="SUSTAINMENT">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>SUSTAINMENT Class</rnd:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>2.8</rnd:index>
        <rnd:title>SUSTAINMENT</rnd:title>
        <rnd:definition>(none)</rnd:definition>
        <rnd:superCategory rdf:resource="#Military_Environment"/>
        <rnd:subCategory rdf:resource="#Sustainment_Facilities"/>
        <rnd:subCategory rdf:resource="#Deployed_Supplies"/>
        <rnd:subCategory rdf:resource="#CONUS_Resupply"/>
        <rnd:subCategory rdf:resource="#Pre-Positioned_Materiel"/>
        <rnd:subCategory rdf:resource="#Host-Nation_Support_HNS"/>
        <rnd:subCategory rdf:resource="#Commercial_Procurement"/>
    </owl:Class>
    <owl:Class rdf:ID="Sustainment_Facilities">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>Sustainment Facilities Class</rnd:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>2.8.1</rnd:index>
        <rnd:title>Sustainment Facilities</rnd:title>
        <rnd:definition>Those grounds, buildings, and equipment available to
provide and support sustainment of the force.</rnd:definition>
        <rnd:superCategory rdf:resource="#SUSTAINMENT"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>

```

```

        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Sustainment_Facilities"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Deployed_Supplies">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Deployed Supplies Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.8.2</cnid:index>
    <cnid:title>Deployed Supplies</cnid:title>
    <cnid:definition>The number of days of supply available to forces in a
military operation.</cnid:definition>
    <cnid:superCategory rdf:resource="#SUSTAINMENT"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Deployed_Supplies"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="CONUS_Resupply">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>CONUS Resupply Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.8.3</cnid:index>
    <cnid:title>CONUS Resupply</cnid:title>
    <cnid:definition>The adequacy of national level production and supply
stocks and theater priority, which allows the theater to draw sustainment from
outside of the theater.</cnid:definition>
    <cnid:superCategory rdf:resource="#SUSTAINMENT"/>
    <cnid:subCategory rdf:resource="#Pipeline_Responsiveness"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-CONUS_Resupply"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Pipeline_Responsiveness">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Pipeline Responsiveness Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>2.8.3.1</cnid:index>
    <cnid:title>Pipeline Responsiveness</cnid:title>
    <cnid:definition>The adequacy of the logistics pipeline to provide
retrograde to repair facilities and for repair facilities to issue replacement
parts. This includes theater evacuation, transportation, and repair facility
policies affecting the movement and repair of high value, class IX repair
parts.</cnid:definition>
    <cnid:superCategory rdf:resource="#CONUS_Resupply"/>
    <rdfs:subClassOf>

```



```

        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Pipeline_Responsiveness"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Pre-Positioned_Materiel">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Pre-positioned Materiel Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.8.4</cnd:index>
    <cnd:title>Pre-positioned Materiel</cnd:title>
    <cnd:definition>Equipment or supplies pre-positioned at or near the
point of planned use or at a designated location.</cnd:definition>
    <cnd:superCategory rdf:resource="#SUSTAINMENT"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Pre-Positioned_Materiel"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Host-Nation_Support_HNS">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Host-Nation Support (HNS) Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.8.5</cnd:index>
    <cnd:title>Host-Nation Support (HNS)</cnd:title>
    <cnd:definition>The extent of civil and military assistance provided by
a host nation to foreign forces within its territory.</cnd:definition>
    <cnd:superCategory rdf:resource="#SUSTAINMENT"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Host-Nation_Support_HNS"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Commercial_Procurement">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Commercial Procurement Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.8.6</cnd:index>
    <cnd:title>Commercial Procurement</cnd:title>
    <cnd:definition>The extent to which materiel and services can be
procured from the local economy in theater.</cnd:definition>
    <cnd:superCategory rdf:resource="#SUSTAINMENT"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>

```

```

        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Commercial_Procurement"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="THREAT">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>THREAT Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.9</cnd:index>
    <cnd:title>THREAT</cnd:title>
    <cnd:definition>(none)</cnd:definition>
    <cnd:superCategory rdf:resource="#Military_Environment"/>
    <cnd:subCategory rdf:resource="#Threat"/>
    <cnd:subCategory rdf:resource="#Threat_Form"/>
    <cnd:subCategory rdf:resource="#Threat_Existence"/>
    <cnd:subCategory rdf:resource="#Threat_Posture"/>
    <cnd:subCategory rdf:resource="#Threat_Size"/>
    <cnd:subCategory rdf:resource="#Threat_Disposition"/>
</owl:Class>
<owl:Class rdf:ID="Threat">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Threat Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.9.1</cnd:index>
    <cnd:title>Threat</cnd:title>
    <cnd:definition>Seriousness of threat to the nation.</cnd:definition>
    <cnd:superCategory rdf:resource="#THREAT"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Threat"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Threat_Form">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Threat Form Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>2.9.2</cnd:index>
    <cnd:title>Threat Form</cnd:title>
    <cnd:definition>Types of potential aggression.</cnd:definition>
    <cnd:superCategory rdf:resource="#THREAT"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Threat_Form"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Threat_Existence">

```

```

<rdfs:subClassOf rdf:resource="#Condition"/>
<rdfs:label>Threat Existence Class</rdfs:label>
<cnd:categoryCode>C</cnd:categoryCode>
<cnd:index>2.9.3</cnd:index>
<cnd:title>Threat Existence</cnd:title>
<cnd:definition>The perceived potential for aggression or harm to a
nation, government, or its instrumentalities.</cnd:definition>
<cnd:superCategory rdf:resource="#THREAT"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Threat_Existence"/>
  </owl:Restriction>
</rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Threat_Posture">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Threat Posture Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.9.4</cnd:index>
  <cnd:title>Threat Posture</cnd:title>
  <cnd:definition>The timing of potential aggression against friendly
forces.</cnd:definition>
  <cnd:superCategory rdf:resource="#THREAT"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Threat_Posture"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Threat_Size">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Threat Size Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.9.5</cnd:index>
  <cnd:title>Threat Size</cnd:title>
  <cnd:definition>The relative size of the potential aggressor to friendly
forces.</cnd:definition>
  <cnd:superCategory rdf:resource="#THREAT"/>
  <cnd:subCategory rdf:resource="#Threat_Land_Force_Size"/>
  <cnd:subCategory rdf:resource="#Threat_Naval_Force_Size"/>
  <cnd:subCategory rdf:resource="#Threat_Air_Force_Size"/>
  <cnd:subCategory rdf:resource="#Threat_Space_Force_Capability"/>
  <cnd:subCategory
rdf:resource="#Threat_Information_Operations_Capability"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Threat_Size"/>
    </owl:Restriction>
  </rdfs:subClassOf>

```

```

        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Threat_Land_Force_Size">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Threat Land Force Size Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>2.9.5.1</cnd:index>
        <cnd:title>Threat Land Force Size</cnd:title>
        <cnd:definition>The relative size of land forces of the potential
aggressor to friendly land forces.</cnd:definition>
        <cnd:superCategory rdf:resource="#Threat_Size"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Threat_Land_Force_Size"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Threat_Naval_Force_Size">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Threat Naval Force Size Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>2.9.5.2</cnd:index>
        <cnd:title>Threat Naval Force Size</cnd:title>
        <cnd:definition>The relative size of naval forces of the potential
aggressor to friendly naval forces.</cnd:definition>
        <cnd:superCategory rdf:resource="#Threat_Size"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Threat_Naval_Force_Size"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Threat_Air_Force_Size">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Threat Air Force Size Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>2.9.5.3</cnd:index>
        <cnd:title>Threat Air Force Size</cnd:title>
        <cnd:definition>The relative size of air forces of the potential
aggressor to friendly air forces.</cnd:definition>
        <cnd:superCategory rdf:resource="#Threat_Size"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Threat_Air_Force_Size"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Threat_Space_Force_Capability">

```

```

<rdfs:subClassOf rdf:resource="#Condition"/>
<rdfs:label>Threat Space Force Capability Class</rdfs:label>
<cnd:categoryCode>C</cnd:categoryCode>
<cnd:index>2.9.5.4</cnd:index>
<cnd:title>Threat Space Force Capability</cnd:title>
<cnd:definition>The relative capability of the potential aggressor to
inhibit operations of friendly space forces.</cnd:definition>
<cnd:superCategory rdf:resource="#Threat_Size"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Threat_Space_Force_Capability"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Threat_Information_Operations_Capability">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Threat Information Operations Capability Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.9.5.5</cnd:index>
  <cnd:title>Threat Information Operations Capability</cnd:title>
  <cnd:definition>The relative operations capability of the potential
aggressor.</cnd:definition>
  <cnd:superCategory rdf:resource="#Threat_Size"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Threat_Information_Operations_Capability"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Threat_Disposition">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Threat Disposition Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>2.9.6</cnd:index>
  <cnd:title>Threat Disposition</cnd:title>
  <cnd:definition>The status of deployed forces belonging to a potential
aggressor.</cnd:definition>
  <cnd:superCategory rdf:resource="#THREAT"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Threat_Disposition"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<!-- Civil Environment Classes ***** -->
<owl:Class rdf:ID="Civil_Environment">
  <rdfs:subClassOf rdf:resource="#Environment"/>
  <rdfs:label>Civil Environment Class</rdfs:label>

```

```

        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>3.0</cnid:index>
        <cnid:title>Civil Environment</cnid:title>
        <cnid:definition>Those factors related to a people, their government,
history, politics, culture, and economy that impact military
operations.</cnid:definition>
        <cnid:subCategory rdf:resource="#Political_Policies"/>
        <cnid:subCategory rdf:resource="#Culture"/>
        <cnid:subCategory rdf:resource="#Economy"/>
    </owl:Class>
    <owl:Class rdf:ID="Political_Policies">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Political Policies Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>3.1</cnid:index>
        <cnid:title>Political Policies</cnid:title>
        <cnid:definition>Those factors that derive from the people, their
national government, and international and non-government organizations that
support or oppose military action.</cnid:definition>
        <cnid:superCategory rdf:resource="#Civil_Environment"/>
        <cnid:subCategory rdf:resource="#Domestic_Political_Support"/>
        <cnid:subCategory rdf:resource="#International_Politics"/>
        <cnid:subCategory rdf:resource="#NCA_Decisions"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Political_Policies"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Domestic_Political_Support">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Domestic Political Support Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>3.1.1</cnid:index>
        <cnid:title>Domestic Political Support</cnid:title>
        <cnid:definition>Support of the people and government in the region
(excluding National Command Authorities) for military actions.</cnid:definition>
        <cnid:superCategory rdf:resource="#Political_Policies"/>
        <cnid:subCategory rdf:resource="#Domestic_Public_Support"/>
        <cnid:subCategory rdf:resource="#Congressional_Support"/>
        <cnid:subCategory
rdf:resource="#InterdepartmentalInteragency_Relationships"/>
        <cnid:subCategory rdf:resource="#Legality"/>
        <cnid:subCategory rdf:resource="#Media_Relations"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Domestic_Political_Support"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Domestic_Public_Support">

```

```

<rdfs:subClassOf rdf:resource="#Condition"/>
<rdfs:label>Domestic Public Support Class</rdfs:label>
<cnd:categoryCode>C</cnd:categoryCode>
<cnd:index>3.1.1.1</cnd:index>
<cnd:title>Domestic Public Support</cnd:title>
<cnd:definition>Public support for the actions of their
government.</cnd:definition>
<cnd:superCategory rdf:resource="#Domestic_Political_Support"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Domestic_Public_Support"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Congressional_Support">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Congressional Support Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.1.1.2</cnd:index>
  <cnd:title>Congressional Support</cnd:title>
  <cnd:definition>Legislative Branch support of the Executive Branch or
NCA.</cnd:definition>
  <cnd:superCategory rdf:resource="#Domestic_Political_Support"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Congressional_Support"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="InterdepartmentalInteragency_Relationships">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Interdepartmental/Interagency Relationships
Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.1.1.3</cnd:index>
  <cnd:title>Interdepartmental/Interagency Relationships</cnd:title>
  <cnd:definition>Extent to which Executive Branch of government and other
agencies work together toward articulated goals.</cnd:definition>
  <cnd:superCategory rdf:resource="#Domestic_Political_Support"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-InterdepartmentalInteragency_Relationships"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Legality">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Legality Class</rdfs:label>

```

```

        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>3.1.1.4</cnd:index>
        <cnd:title>Legality</cnd:title>
        <cnd:definition>The extent to which an act or action is in accordance
with domestic or international law.</cnd:definition>
        <cnd:superCategory rdf:resource="#Domestic_Political_Support"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Legality"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Media_Relations">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Media Relations Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>3.1.1.5</cnd:index>
        <cnd:title>Media Relations</cnd:title>
        <cnd:definition>The rapport between the military and the press, and the
attitude of the press toward particular military activities.</cnd:definition>
        <cnd:superCategory rdf:resource="#Domestic_Political_Support"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Media_Relations"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="International_Politics">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>International Politics Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>3.1.2</cnd:index>
        <cnd:title>International Politics</cnd:title>
        <cnd:definition>Those political factors, independent of one&apos;s own
government, which impact the commander&apos;s freedom of
action.</cnd:definition>
        <cnd:superCategory rdf:resource="#Political_Policies"/>
        <cnd:subCategory rdf:resource="#Major_Power_Involvement"/>
        <cnd:subCategory rdf:resource="#Foreign_Government_Stability"/>
        <cnd:subCategory rdf:resource="#Foreign_Government_Support"/>
        <cnd:subCategory rdf:resource="#Foreign_Public_Opinion"/>
        <cnd:subCategory rdf:resource="#International_Organization_Support"/>
        <cnd:subCategory rdf:resource="#Multinational_Business_Support"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-International_Politics"/>
            </owl:Restriction>
        </rdfs:subClassOf>

```



```

</owl:Class>
<owl:Class rdf:ID="Major_Power_Involvement">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Major Power Involvement Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>3.1.2.1</cnid:index>
  <cnid:title>Major Power Involvement</cnid:title>
  <cnid:definition>The major power interests about a region or military
operation and the ability and willingness of a particular major power to act on
those interests.</cnid:definition>
  <cnid:superCategory rdf:resource="#International_Politics"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Major_Power_Involvement"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Foreign_Government_Stability">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Foreign Government Stability Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>3.1.2.2</cnid:index>
  <cnid:title>Foreign Government Stability</cnid:title>
  <cnid:definition>The degree to which governments in a region remain in
power and are consistent in their policies.</cnid:definition>
  <cnid:superCategory rdf:resource="#International_Politics"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Foreign_Government_Stability"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Foreign_Government_Support">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Foreign Government Support Class</rdfs:label>
  <cnid:categoryCode>C</cnid:categoryCode>
  <cnid:index>3.1.2.3</cnid:index>
  <cnid:title>Foreign Government Support</cnid:title>
  <cnid:definition>The willingness of a foreign government to support
military actions of another nation.</cnid:definition>
  <cnid:superCategory rdf:resource="#International_Politics"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Foreign_Government_Support"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Foreign_Public_Opinion">

```

```

<rdfs:subClassOf rdf:resource="#Condition"/>
<rdfs:label>Foreign Public Opinion Class</rdfs:label>
<cnd:categoryCode>C</cnd:categoryCode>
<cnd:index>3.1.2.4</cnd:index>
<cnd:title>Foreign Public Opinion</cnd:title>
<cnd:definition>Foreign public attitude expressed about a military
operation.</cnd:definition>
<cnd:superCategory rdf:resource="#International_Politics"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Foreign_Public_Opinion"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="International_Organization_Support">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>International Organization Support Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.1.2.5</cnd:index>
  <cnd:title>International Organization Support</cnd:title>
  <cnd:definition>The degree of support expressed by non-governmental
organizations for military actions.</cnd:definition>
  <cnd:superCategory rdf:resource="#International_Politics"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-International_Organization_Support"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Multinational_Business_Support">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Multinational Business Support Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.1.2.6</cnd:index>
  <cnd:title>Multinational Business Support</cnd:title>
  <cnd:definition>The degree of support expressed by multinational
business organizations for military actions (e.g., oil
companies).</cnd:definition>
  <cnd:superCategory rdf:resource="#International_Politics"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Multinational_Business_Support"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="NCA_Decisions">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>NCA Decisions Class</rdfs:label>

```

```

        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>3.1.3</cnd:index>
        <cnd:title>NCA Decisions</cnd:title>
        <cnd:definition>Decisions taken by the NCA with regard to national
security policy and strategy.</cnd:definition>
        <cnd:superCategory rdf:resource="#Political_Policies"/>
        <cnd:subCategory rdf:resource="#Number_Of_Crises"/>
        <cnd:subCategory rdf:resource="#Mission_Priority"/>
        <cnd:subCategory rdf:resource="#Mobilization_Level"/>
        <cnd:subCategory rdf:resource="#Restrains_On_Action"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-NCA_Decisions"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Number_Of_Crises">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Number of Crises Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>3.1.3.1</cnd:index>
        <cnd:title>Number of Crises</cnd:title>
        <cnd:definition>The number of crises (MRC or LRC) being addressed by the
NCA and the NSC.</cnd:definition>
        <cnd:superCategory rdf:resource="#NCA_Decisions"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Number_Of_Crises"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Mission_Priority">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Mission Priority Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>3.1.3.2</cnd:index>
        <cnd:title>Mission Priority</cnd:title>
        <cnd:definition>The relationship of one mission compared to
another.</cnd:definition>
        <cnd:superCategory rdf:resource="#NCA_Decisions"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Mission_Priority"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Mobilization_Level">
        <rdfs:subClassOf rdf:resource="#Condition"/>

```

```

<rdfs:label>Mobilization Level Class</rdfs:label>
<cond:categoryCode>C</cond:categoryCode>
<cond:index>3.1.3.3</cond:index>
<cond:title>Mobilization Level</cond:title>
<cond:definition>The extent of mobilization by a nation.</cond:definition>
<cond:superCategory rdf:resource="#NCA_Decisions"/>
<cond:subCategory rdf:resource="#Force_Level"/>
<cond:subCategory rdf:resource="#Draft"/>
<cond:subCategory rdf:resource="#Mobilization_Facilities"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Mobilization_Level"/>
  </owl:Restriction>
</rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Force_Level">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Force Level Class</rdfs:label>
  <cond:categoryCode>C</cond:categoryCode>
  <cond:index>3.1.3.3.1</cond:index>
  <cond:title>Force Level</cond:title>
  <cond:definition>The size of mobilization required.</cond:definition>
  <cond:superCategory rdf:resource="#Mobilization_Level"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Force_Level"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Draft">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Draft Class</rdfs:label>
  <cond:categoryCode>C</cond:categoryCode>
  <cond:index>3.1.3.3.2</cond:index>
  <cond:title>Draft</cond:title>
  <cond:definition>Compulsory military service.</cond:definition>
  <cond:superCategory rdf:resource="#Mobilization_Level"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Draft"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Mobilization_Facilities">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Mobilization Facilities Class</rdfs:label>
  <cond:categoryCode>C</cond:categoryCode>
  <cond:index>3.1.3.3.3</cond:index>

```

```

        <cnid:title>Mobilization Facilities</cnid:title>
        <cnid:definition>Those grounds, buildings, and equipment available to
train or retrain an expanding active duty force.</cnid:definition>
        <cnid:superCategory rdf:resource="#Mobilization_Level"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Mobilization_Facilities"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Restrains_On_Action">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Restrains on Action Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>3.1.3.4</cnid:index>
        <cnid:title>Restrains on Action</cnid:title>
        <cnid:definition>The limitations on a commander's freedom of action
attendant to an NCA-assigned mission.</cnid:definition>
        <cnid:superCategory rdf:resource="#NCA_Decisions"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Restrains_On_Action"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Culture">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Culture Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>3.2</cnid:index>
        <cnid:title>Culture</cnid:title>
        <cnid:definition>Those aspects of a people that relate to their language,
history, customs, economics, religion, and character.</cnid:definition>
        <cnid:superCategory rdf:resource="#Civil_Environment"/>
        <cnid:subCategory rdf:resource="#Language"/>
        <cnid:subCategory rdf:resource="#Customs_Adjustment"/>
        <cnid:subCategory rdf:resource="#Religious_Beliefs"/>
        <cnid:subCategory rdf:resource="#Significant_Cultural_Sites"/>
        <cnid:subCategory rdf:resource="#Cultural_Unity"/>
        <cnid:subCategory rdf:resource="#National_Character"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Culture"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Language">
        <rdfs:subClassOf rdf:resource="#Condition"/>

```

```

    <rdfs:label>Language Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>3.2.1</cnd:index>
    <cnd:title>Language</cnd:title>
    <cnd:definition>The spoken and written means of
communication.</cnd:definition>
    <cnd:superCategory rdf:resource="#Culture"/>
    <cnd:subCategory rdf:resource="#Language_Translation"/>
    <cnd:subCategory rdf:resource="#Language_Translators"/>
    <rdfs:subClassOf>
      <owl:Restriction owl:cardinality="1">
        <owl:onProperty rdf:resource="#descriptor"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Language"/>
        </owl:Restriction>
      </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Language_Translation">
      <rdfs:subClassOf rdf:resource="#Condition"/>
      <rdfs:label>Language Translation Class</rdfs:label>
      <cnd:categoryCode>C</cnd:categoryCode>
      <cnd:index>3.2.1.1</cnd:index>
      <cnd:title>Language Translation</cnd:title>
      <cnd:definition>The types of translations to be performed during the
mission, including weaponeering, engineering, intelligence, POW interrogation,
and staff coordination.</cnd:definition>
      <cnd:superCategory rdf:resource="#Language"/>
      <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
          <owl:onProperty rdf:resource="#descriptor"/>
          <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Language_Translation"/>
          </owl:Restriction>
        </rdfs:subClassOf>
      </owl:Class>
      <owl:Class rdf:ID="Language_Translators">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Language Translators Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>3.2.1.2</cnd:index>
        <cnd:title>Language Translators</cnd:title>
        <cnd:definition>The number and type of translators to be used during the
mission, including those for weaponeering, engineering, intelligence, POW
interrogation, and staff coordination.</cnd:definition>
        <cnd:superCategory rdf:resource="#Language"/>
        <rdfs:subClassOf>
          <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Language_Translators"/>
            </owl:Restriction>
          </rdfs:subClassOf>
        </owl:Class>

```

```

<owl:Class rdf:ID="Customs_Adjustment">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Customs Adjustment Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.2.2</cnd:index>
  <cnd:title>Customs Adjustment</cnd:title>
  <cnd:definition>Customs within a nation or an area that may require
accommodation.</cnd:definition>
  <cnd:superCategory rdf:resource="#Culture"/>
  <cnd:subCategory rdf:resource="#Societal_Openness"/>
  <cnd:subCategory rdf:resource="#Legal_Penalties"/>
  <cnd:subCategory rdf:resource="#Law_Source"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Customs_Adjustment"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Societal_Openness">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Societal Openness Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.2.2.1</cnd:index>
  <cnd:title>Societal Openness</cnd:title>
  <cnd:definition>The degree to which the population of a nation or an
area is open to the presence of people from different nations or cultural
backgrounds.</cnd:definition>
  <cnd:superCategory rdf:resource="#Customs_Adjustment"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Societal_Openness"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Legal_Penalties">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Legal Penalties Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.2.2.2</cnd:index>
  <cnd:title>Legal Penalties</cnd:title>
  <cnd:definition>The seriousness of legal or religious penalties, in a
foreign nation, associated with acts that violate cultural or legal
norms.</cnd:definition>
  <cnd:superCategory rdf:resource="#Customs_Adjustment"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Legal_Penalties"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>

```

```

        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Law_Source">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Law Source Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>3.2.2.3</cnd:index>
        <cnd:title>Law Source</cnd:title>
        <cnd:definition>The basis for current laws and justice (see C 3.2.2.2,
Legal Penalties).</cnd:definition>
        <cnd:superCategory rdf:resource="#Customs_Adjustment"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Law_Source"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Religious_Beliefs">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Religious Beliefs Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>3.2.3</cnd:index>
        <cnd:title>Religious Beliefs</cnd:title>
        <cnd:definition>Strength of adherence to religion, the impact on
behavior, and the degree of domination over the life of a
nation.</cnd:definition>
        <cnd:superCategory rdf:resource="#Culture"/>
        <cnd:subCategory rdf:resource="#Religious_Unity"/>
        <cnd:subCategory rdf:resource="#Religious_Militancy"/>
        <cnd:subCategory rdf:resource="#Religion-State_Relationship"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Religious_Beliefs"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Religious_Unity">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Religious Unity Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>3.2.3.1</cnd:index>
        <cnd:title>Religious Unity</cnd:title>
        <cnd:definition>Degree of religious unity within a
nation.</cnd:definition>
        <cnd:superCategory rdf:resource="#Religious_Beliefs"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Religious_Unity"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>

```



```

        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Religious_Militancy">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Religious Militancy Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>3.2.3.2</cnd:index>
    <cnd:title>Religious Militancy</cnd:title>
    <cnd:definition>The degree to which a religious group believes it can or
should impose its views on others, internally or externally, by force of arms,
if necessary.</cnd:definition>
    <cnd:superCategory rdf:resource="#Religious_Beliefs"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Religious_Militancy"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Religion-State_Relationship">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Religion-State Relationship Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>3.2.3.3</cnd:index>
    <cnd:title>Religion-State Relationship</cnd:title>
    <cnd:definition>The extent to which a given religion influences the
civil government of a nation.</cnd:definition>
    <cnd:superCategory rdf:resource="#Religious_Beliefs"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Religion-State_Relationship"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Significant_Cultural_Sites">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Significant Cultural Sites Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>3.2.4</cnd:index>
    <cnd:title>Significant Cultural Sites</cnd:title>
    <cnd:definition>Restrictions on actions due to the existence of
particular sites held by certain cultures or religions to be sacred places or
national treasures.</cnd:definition>
    <cnd:superCategory rdf:resource="#Culture"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Significant_Cultural_Sites"/>
        </owl:Restriction>

```

```

        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Cultural_Unity">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Cultural Unity Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>3.2.5</cnd:index>
        <cnd:title>Cultural Unity</cnd:title>
        <cnd:definition>The extent to which a country is free from serious
ethnic, cultural, and language divisions.</cnd:definition>
        <cnd:superCategory rdf:resource="#Culture"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Cultural_Unity"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="National_Character">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>National Character Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>3.2.6</cnd:index>
        <cnd:title>National Character</cnd:title>
        <cnd:definition>Perceived behavior of the populace in a nation or an
area.</cnd:definition>
        <cnd:superCategory rdf:resource="#Culture"/>
        <cnd:subCategory rdf:resource="#National_Discipline"/>
        <cnd:subCategory rdf:resource="#National_Aggressiveness"/>
        <cnd:subCategory rdf:resource="#Nationalism"/>
        <cnd:subCategory rdf:resource="#Ethnocentrism"/>
        <cnd:subCategory rdf:resource="#Internationalism"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-National_Character"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="National_Discipline">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>National Discipline Class</rdfs:label>
        <cnd:categoryCode>C</cnd:categoryCode>
        <cnd:index>3.2.6.1</cnd:index>
        <cnd:title>National Discipline</cnd:title>
        <cnd:definition>The historically-based perception of a
nationality's response to the direction and will of their central
government.</cnd:definition>
        <cnd:superCategory rdf:resource="#National_Character"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>

```

```

        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-National_Discipline"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="National_Aggressiveness">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>National Aggressiveness Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>3.2.6.2</cnid:index>
    <cnid:title>National Aggressiveness</cnid:title>
    <cnid:definition>Tendency to use national power to achieve
goals.</cnid:definition>
    <cnid:superCategory rdf:resource="#National_Character"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-National_Aggressiveness"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Nationalism">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Nationalism Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>3.2.6.3</cnid:index>
    <cnid:title>Nationalism</cnid:title>
    <cnid:definition>Belief that the good of the nation is
paramount.</cnid:definition>
    <cnid:superCategory rdf:resource="#National_Character"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Nationalism"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="Ethnocentrism">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Ethnocentrism Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>3.2.6.4</cnid:index>
    <cnid:title>Ethnocentrism</cnid:title>
    <cnid:definition>Degree of emphasis on a particular ethnic grouping or
background.</cnid:definition>
    <cnid:superCategory rdf:resource="#National_Character"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Ethnocentrism"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>

```

```

        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Internationalism">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Internationalism Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>3.2.6.5</cnd:index>
    <cnd:title>Internationalism</cnd:title>
    <cnd:definition>Degree of involvement in international organizations,
even to the extent of granting some degree of sovereignty to such an
international organization.</cnd:definition>
    <cnd:superCategory rdf:resource="#National_Character"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Internationalism"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Economy">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Economy Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>3.3</cnd:index>
    <cnd:title>Economy</cnd:title>
    <cnd:definition>Those factors that provide a nation with the manpower,
materiel, and money to allow it to play a role on the military stage and shape
that role.</cnd:definition>
    <cnd:superCategory rdf:resource="#Civil_Environment"/>
    <cnd:subCategory rdf:resource="#Population"/>
    <cnd:subCategory rdf:resource="#Refugee_Impact"/>
    <cnd:subCategory rdf:resource="#Gross_Domestic_Product_GDP"/>
    <cnd:subCategory rdf:resource="#International_Economic_Position"/>
    <cnd:subCategory rdf:resource="#Industry"/>
    <cnd:subCategory rdf:resource="#National_Potential"/>
    <cnd:subCategory rdf:resource="#Science_And_Technology"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Economy"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Population">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Population Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>3.3.1</cnd:index>
    <cnd:title>Population</cnd:title>
    <cnd:definition>The population of a nation or region based on the
estimates from the Bureau of the Census.</cnd:definition>
    <cnd:superCategory rdf:resource="#Economy"/>

```

```

<cond:subCategory rdf:resource="#Size_Of_Military"/>
<cond:subCategory rdf:resource="#Population_Growth_Rate"/>
<cond:subCategory rdf:resource="#Educated_Population"/>
<cond:subCategory rdf:resource="#Civil_Health"/>
<cond:subCategory rdf:resource="#Health_Risk"/>
<cond:subCategory rdf:resource="#Civil_Unrest"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Population"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Size_Of_Military">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Size of Military Class</rdfs:label>
  <cond:categoryCode>C</cond:categoryCode>
  <cond:index>3.3.1.1</cond:index>
  <cond:title>Size of Military</cond:title>
  <cond:definition>The number of people in a nation or region who are
currently under arms, or who are trained and available for military
service.</cond:definition>
  <cond:superCategory rdf:resource="#Population"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Size_Of_Military"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Population_Growth_Rate">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Population Growth Rate Class</rdfs:label>
  <cond:categoryCode>C</cond:categoryCode>
  <cond:index>3.3.1.2</cond:index>
  <cond:title>Population Growth Rate</cond:title>
  <cond:definition>The annual change in a nation's population due to
birthrates, migration, etc.</cond:definition>
  <cond:superCategory rdf:resource="#Population"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Population_Growth_Rate"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Educated_Population">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Educated Population Class</rdfs:label>
  <cond:categoryCode>C</cond:categoryCode>

```

```

<end:index>3.3.1.3</end:index>
<end:title>Educated Population</end:title>
<end:definition>The general level of education of the people of a
nation. Ranked here by average literacy level, however, it is also reflected by
(1) total secondary schools, technical schools, and university graduates per
100,000 population</end:definition>
<end:superCategory rdf:resource="#Population"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Educated_Population"/>
  </owl:Restriction>
</rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Civil_Health">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Civil Health Class</rdfs:label>
  <end:categoryCode>C</end:categoryCode>
  <end:index>3.3.1.4</end:index>
  <end:title>Civil Health</end:title>
  <end:definition>The physical and medical condition of a people, ranked
here by only one indicator, life expectancy at birth.</end:definition>
  <end:superCategory rdf:resource="#Population"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Civil_Health"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Health_Risk">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Health Risk Class</rdfs:label>
  <end:categoryCode>C</end:categoryCode>
  <end:index>3.3.1.5</end:index>
  <end:title>Health Risk</end:title>
  <end:definition>Disease presence and conditions favorable to disease
transmission.</end:definition>
  <end:superCategory rdf:resource="#Population"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Health_Risk"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Civil_Unrest">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Civil Unrest Class</rdfs:label>
  <end:categoryCode>C</end:categoryCode>
  <end:index>3.3.1.6</end:index>

```

```

        <rnd:title>Civil Unrest</rnd:title>
        <rnd:definition>The level of dissension within a nation or region as
reflected by acts of civil disobedience or demonstrations against government or
government policies.</rnd:definition>
        <rnd:superCategory rdf:resource="#Population"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Civil_Unrest"/>
            </owl:Restriction>
        </rnd:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Refugee_Impact">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>Refugee Impact Class</rnd:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>3.3.2</rnd:index>
        <rnd:title>Refugee Impact</rnd:title>
        <rnd:definition>Impact of need for humane treatment of refugees and
displaced persons on military operations.</rnd:definition>
        <rnd:superCategory rdf:resource="#Economy"/>
        <rnd:subCategory rdf:resource="#Refugee_Type"/>
        <rnd:subCategory rdf:resource="#Refugee_Congestion"/>
        <rnd:subCategory rdf:resource="#Refugee_Care_Responsibility"/>
        <rnd:subCategory rdf:resource="#Refugee_Relocation_Effort"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Refugee_Impact"/>
            </owl:Restriction>
        </rnd:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Refugee_Type">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>Refugee Type Class</rnd:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>3.3.2.1</rnd:index>
        <rnd:title>Refugee Type</rnd:title>
        <rnd:definition>The principal reason for population dislocation or
migration.</rnd:definition>
        <rnd:superCategory rdf:resource="#Refugee_Impact"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Refugee_Type"/>
            </owl:Restriction>
        </rnd:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Refugee_Congestion">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>Refugee Congestion Class</rnd:label>

```

```

        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>3.3.2.2</cnid:index>
        <cnid:title>Refugee Congestion</cnid:title>
        <cnid:definition>Degree of disruption of main supply routes, avenues of
approach, and LOCs.</cnid:definition>
        <cnid:superCategory rdf:resource="#Refugee_Impact"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
descriptor-dt#DSC-Refugee_Congestion"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Refugee_Care_Responsibility">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Refugee Care Responsibility Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>3.3.2.3</cnid:index>
        <cnid:title>Refugee Care Responsibility</cnid:title>
        <cnid:definition>Requirement to provide basic shelter, security, health,
sanitation, and nutrition for refugees.</cnid:definition>
        <cnid:superCategory rdf:resource="#Refugee_Impact"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
descriptor-dt#DSC-Refugee_Care_Responsibility"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Refugee_Relocation_Effort">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Refugee Relocation Effort Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>3.3.2.4</cnid:index>
        <cnid:title>Refugee Relocation Effort</cnid:title>
        <cnid:definition>Degree of effort expended by the military force to place
refugees back in their original homes or cities.</cnid:definition>
        <cnid:superCategory rdf:resource="#Refugee_Impact"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
descriptor-dt#DSC-Refugee_Relocation_Effort"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Gross_Domestic_Product_GDP">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Gross Domestic Product (GDP) Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>3.3.3</cnid:index>
        <cnid:title>Gross Domestic Product (GDP)</cnid:title>

```



```

        <rnd:definition>The value of all goods and services produced
domestically, measured in US dollars.</rnd:definition>
        <rnd:superCategory rdf:resource="#Economy"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Gross_Domestic_Product_GDP"/>
            </owl:Restriction>
        </rnd:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="International_Economic_Position">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>International Economic Position Class</rnd:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>3.3.4</rnd:index>
        <rnd:title>International Economic Position</rnd:title>
        <rnd:definition>The relative economic standing of a nation or
region.</rnd:definition>
        <rnd:superCategory rdf:resource="#Economy"/>
        <rnd:subCategory rdf:resource="#Economic_Self-Sufficiency"/>
        <rnd:subCategory rdf:resource="#Fiscal_Position"/>
        <rnd:subCategory rdf:resource="#Infrastructure_Dependence"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-International_Economic_Position"/>
            </owl:Restriction>
        </rnd:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Economic_Self-Sufficiency">
        <rnd:subClassOf rdf:resource="#Condition"/>
        <rnd:label>Economic Self-Sufficiency Class</rnd:label>
        <rnd:categoryCode>C</rnd:categoryCode>
        <rnd:index>3.3.4.1</rnd:index>
        <rnd:title>Economic Self-Sufficiency</rnd:title>
        <rnd:definition>The ability of a nation to sustain itself without
support from other nations. It is not only the amount of imports to exports,
but also the dependence on the import of a particular product and the uniqueness
of that product that can make a nation vulnerable.</rnd:definition>
        <rnd:superCategory rdf:resource="#International_Economic_Position"/>
        <rnd:subCategory rdf:resource="#Self-Sufficiency_In_Food"/>
        <rnd:subCategory rdf:resource="#Self-Sufficiency_In_Fuel"/>
        <rnd:subCategory rdf:resource="#Self-Sufficiency_In_Raw_Materials"/>
        <rnd:subCategory rdf:resource="#Self-Sufficiency_In_Finished_Goods"/>
        <rnd:subCategory rdf:resource="#Self-Sufficiency_In_Machinery"/>
        <rnd:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Economic_Self-Sufficiency"/>
            </owl:Restriction>
        </rnd:subClassOf>

```

```

</owl:Class>
<owl:Class rdf:ID="Self-Sufficiency_In_Food">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Self-Sufficiency in Food Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.3.4.1.1</cnd:index>
  <cnd:title>Self-Sufficiency in Food</cnd:title>
  <cnd:definition>Amount of food consumption produced
locally.</cnd:definition>
  <cnd:superCategory rdf:resource="#Economic_Self-Sufficiency"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Self-Sufficiency_In_Food"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Self-Sufficiency_In_Fuel">
  <rdfs:subClassOf rdf:resource="#Condition"/>

  <rdfs:label>Self-Sufficiency in Fuel Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.3.4.1.2</cnd:index>
  <cnd:title>Self-Sufficiency in Fuel</cnd:title>
  <cnd:definition>Amount of fuel consumption produced
locally.</cnd:definition>
  <cnd:superCategory rdf:resource="#Economic_Self-Sufficiency"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Self-Sufficiency_In_Fuel"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Self-Sufficiency_In_Raw_Materials">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Self-Sufficiency in Raw Materials Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.3.4.1.3</cnd:index>
  <cnd:title>Self-Sufficiency in Raw Materials</cnd:title>
  <cnd:definition>Amount of raw materials (needed for finished goods
consumption) produced locally.</cnd:definition>
  <cnd:superCategory rdf:resource="#Economic_Self-Sufficiency"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Self-Sufficiency_In_Raw_Materials"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Self-Sufficiency_In_Finished_Goods">

```

```

<rdfs:subClassOf rdf:resource="#Condition"/>
<rdfs:label>Self-Sufficiency in Finished Goods Class</rdfs:label>
<cnd:categoryCode>C</cnd:categoryCode>
<cnd:index>3.3.4.1.4</cnd:index>
<cnd:title>Self-Sufficiency in Finished Goods</cnd:title>
<cnd:definition>Amount of finished goods (needed for local economy)
produced locally.</cnd:definition>
<cnd:superCategory rdf:resource="#Economic_Self-Sufficiency"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Self-Sufficiency_In_Finished_Goods"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Self-Sufficiency_In_Machinery">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Self-Sufficiency in Machinery Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.3.4.1.5</cnd:index>
  <cnd:title>Self-Sufficiency in Machinery</cnd:title>
  <cnd:definition>Amount of machinery (needed for local economy) produced
locally.</cnd:definition>
  <cnd:superCategory rdf:resource="#Economic_Self-Sufficiency"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Self-Sufficiency_In_Machinery"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Fiscal_Position">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Fiscal Position Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.3.4.2</cnd:index>
  <cnd:title>Fiscal Position</cnd:title>
  <cnd:definition>The availability of currency and reserves to support
military action.</cnd:definition>
  <cnd:superCategory rdf:resource="#International_Economic_Position"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Fiscal_Position"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Infrastructure_Dependence">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Infrastructure Dependence Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>

```

```

        <cnid:index>3.3.4.3</cnid:index>
        <cnid:title>Infrastructure Dependence</cnid:title>
        <cnid:definition>The degree of infrastructure (roads, shipping/fishing
fleet, railroads, pipelines, communications, etc.) required to sustain the
economy.</cnid:definition>
        <cnid:superCategory rdf:resource="#International_Economic_Position"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Infrastructure_Dependence"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Industry">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Industry Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>3.3.5</cnid:index>
        <cnid:title>Industry</cnid:title>
        <cnid:definition>The general ability of a nation to produce materiel for
warfighting.</cnid:definition>
        <cnid:superCategory rdf:resource="#Economy"/>
        <cnid:subCategory rdf:resource="#Industrialization"/>
        <cnid:subCategory rdf:resource="#Industrial_Growth_Rate"/>
        <cnid:subCategory rdf:resource="#Electrical_Production"/>
        <cnid:subCategory rdf:resource="#Armaments_Production_Capacity"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Industry"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Industrialization">
        <rdfs:subClassOf rdf:resource="#Condition"/>
        <rdfs:label>Industrialization Class</rdfs:label>
        <cnid:categoryCode>C</cnid:categoryCode>
        <cnid:index>3.3.5.1</cnid:index>
        <cnid:title>Industrialization</cnid:title>
        <cnid:definition>The extent of industrialization, measured as percent of
GDP.</cnid:definition>
        <cnid:superCategory rdf:resource="#Industry"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#descriptor"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Industrialization"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Industrial_Growth_Rate">
        <rdfs:subClassOf rdf:resource="#Condition"/>

```

```

    <rdfs:label>Industrial Growth Rate Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>3.3.5.2</cnid:index>
    <cnid:title>Industrial Growth Rate</cnid:title>
    <cnid:definition>Annualized rate of growth in industrial
production.</cnid:definition>
    <cnid:superCategory rdf:resource="#Industry"/>
    <rdfs:subClassOf>
      <owl:Restriction owl:cardinality="1">
        <owl:onProperty rdf:resource="#descriptor"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Industrial_Growth_Rate"/>
      </owl:Restriction>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Electrical_Production">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Electrical Production Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>3.3.5.3</cnid:index>
    <cnid:title>Electrical Production</cnid:title>
    <cnid:definition>Electrical generation capacity per
capita.</cnid:definition>
    <cnid:superCategory rdf:resource="#Industry"/>
    <rdfs:subClassOf>
      <owl:Restriction owl:cardinality="1">
        <owl:onProperty rdf:resource="#descriptor"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Electrical_Production"/>
      </owl:Restriction>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Armaments_Production_Capacity">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Armaments Production Capacity Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>3.3.5.4</cnid:index>
    <cnid:title>Armaments Production Capacity</cnid:title>
    <cnid:definition>Annual armaments production capacity.</cnid:definition>
    <cnid:superCategory rdf:resource="#Industry"/>
    <rdfs:subClassOf>
      <owl:Restriction owl:cardinality="1">
        <owl:onProperty rdf:resource="#descriptor"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Armaments_Production_Capacity"/>
      </owl:Restriction>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="National_Potential">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>National Potential Class</rdfs:label>
    <cnid:categoryCode>C</cnid:categoryCode>
    <cnid:index>3.3.6</cnid:index>

```

```

<cnd:title>National Potential</cnd:title>

<cnd:definition>A nation's ability to expand its economy and thus
its warmaking potential.</cnd:definition>
<cnd:superCategory rdf:resource="#Economy"/>
<cnd:subCategory rdf:resource="#Transportation_Infrastructure"/>
<cnd:subCategory rdf:resource="#Telecommunications_Infrastructure"/>
<cnd:subCategory rdf:resource="#Available_Capital"/>
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#descriptor"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-National_Potential"/>
  </owl:Restriction>
</rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Transportation_Infrastructure">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Transportation Infrastructure Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.3.6.1</cnd:index>
  <cnd:title>Transportation Infrastructure</cnd:title>
  <cnd:definition>Adequacy of railroads, highways, inland waterways,
pipelines, sea and air ports, merchant marine ships, and telecommunication
stations.</cnd:definition>
  <cnd:superCategory rdf:resource="#National_Potential"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Transportation_Infrastructure"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Telecommunications_Infrastructure">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Telecommunications Infrastructure Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.3.6.2</cnd:index>
  <cnd:title>Telecommunications Infrastructure</cnd:title>
  <cnd:definition>Extent of national capability for transmission,
emission, or reception of signals, writings, images, sounds, or information by
wire, radio, visual, or any other means.</cnd:definition>
  <cnd:superCategory rdf:resource="#National_Potential"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Telecommunications_Infrastructure"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Available_Capital">
  <rdfs:subClassOf rdf:resource="#Condition"/>

```

```

<rdfs:label>Available Capital Class</rdfs:label>
<cnd:categoryCode>C</cnd:categoryCode>
<cnd:index>3.3.6.3</cnd:index>
<cnd:title>Available Capital</cnd:title>
<cnd:definition>A nation's available capital, including capital
markets (banks, pension funds), capital goods (manufactured products used to
produce other goods), and capital formation.</cnd:definition>
<cnd:superCategory rdf:resource="#National_Potential"/>
<rdfs:subClassOf>

    <owl:Restriction owl:cardinality="1">
        <owl:onProperty rdf:resource="#descriptor"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Available_Capital"/>
    </owl:Restriction>
</rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Science_And_Technology">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Science and Technology Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>3.3.7</cnd:index>
    <cnd:title>Science and Technology</cnd:title>
    <cnd:definition>The level of effort and ability of a nation to develop
and exploit science and technology.</cnd:definition>
    <cnd:superCategory rdf:resource="#Economy"/>
    <cnd:subCategory rdf:resource="#Basic_Research"/>
    <cnd:subCategory rdf:resource="#Research_Application_Military"/>
    <cnd:subCategory rdf:resource="#High_Technology_Production"/>
    <cnd:subCategory rdf:resource="#Information_Management"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Science_And_Technology"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Basic_Research">
    <rdfs:subClassOf rdf:resource="#Condition"/>
    <rdfs:label>Basic Research Class</rdfs:label>
    <cnd:categoryCode>C</cnd:categoryCode>
    <cnd:index>3.3.7.1</cnd:index>
    <cnd:title>Basic Research</cnd:title>
    <cnd:definition>The amount of a nation's intellectual resources
applied to basic research.</cnd:definition>
    <cnd:superCategory rdf:resource="#Science_And_Technology"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#descriptor"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Basic_Research"/>
        </owl:Restriction>
    </rdfs:subClassOf>

```

```

</owl:Class>
<owl:Class rdf:ID="Research_Application_Military">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Research Application (Military) Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.3.7.2</cnd:index>
  <cnd:title>Research Application (Military)</cnd:title>
  <cnd:definition>A nation's ability to turn basic research into
(militarily) useful products.</cnd:definition>
  <cnd:superCategory rdf:resource="#Science_And_Technology"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Research_Application_Military"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="High_Technology_Production">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>High Technology Production Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.3.7.3</cnd:index>
  <cnd:title>High Technology Production</cnd:title>
  <cnd:definition>A nation's ability to mass-produce high-technology
products.</cnd:definition>
  <cnd:superCategory rdf:resource="#Science_And_Technology"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-High_Technology_Production"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Information_Management">
  <rdfs:subClassOf rdf:resource="#Condition"/>
  <rdfs:label>Information Management Class</rdfs:label>
  <cnd:categoryCode>C</cnd:categoryCode>
  <cnd:index>3.3.7.4</cnd:index>
  <cnd:title>Information Management</cnd:title>
  <cnd:definition>A nation's ability to collect and process
information.</cnd:definition>
  <cnd:superCategory rdf:resource="#Science_And_Technology"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#descriptor"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Descriptor/ver/0.1.0/D
escriptor-dt#DSC-Information_Management"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
</rdf:RDF>

```


Appendix E: Goals / Objectives Ontology

```

<?xml version="1.0"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:dc="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#"
  xmlns:ves="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#"

  xmlns:go="http://orlando.drc.com/SemanticWeb/OWL/Ontology/GoalsAndObjectives/ver
/0.1.0/GoalsAndObjectives-ont#"

  xmlns="http://orlando.drc.com/SemanticWeb/OWL/Ontology/GoalsAndObjectives/ver/0.
1.0/GoalsAndObjectives-ont#"
>
  <!-- Goals and Objectives Ontology -->
  <owl:Ontology rdf:about="">
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/dc/ver/0.1.0/dces-
ont"/>
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont"/>
    <rdfs:comment>This ontology describes a hierarchy for national
military goals and objectives.</rdfs:comment>
  </owl:Ontology>
  <!-- ***** Classes ***** -->
  <owl:Class rdf:ID="Goal">
    <rdfs:label>Goal</rdfs:label>
  </owl:Class>
  <owl:Class rdf:ID="FundimentalGoal">
    <rdfs:label>Fundimental Goal</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Goal"/>
    <rdfs:subClassOf>
      <owl:Restriction>
        <owl:onProperty rdf:resource="#supportedBy"/>
        <owl:allValuesFrom rdf:resource="#NationalObjective"/>
      </owl:Restriction>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Objective">
    <rdfs:label>Objective Task</rdfs:label>
    <owl:equivalentClass rdf:resource="#Goal"/>
  </owl:Class>
  <owl:Class rdf:ID="NationalObjective">
    <rdfs:label>National Objective</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Objective"/>
  </owl:Class>
  <!-- ***** Diplomatic Objectives ***** -->
  <owl:Class rdf:ID="DiplomaticObjective">
    <rdfs:label>Diplomatic Objective</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Objective"/>
  </owl:Class>
  <owl:Class rdf:ID="NationalDiplomaticObjective">
    <rdfs:label>National Diplomatic Objective</rdfs:label>

```

```

        <rdfs:subClassOf rdf:resource="#DiplomaticObjective"/>
        <rdfs:subClassOf rdf:resource="#NationalObjective"/>
    </owl:Class>
    <!-- ***** Information Objectives ***** -->
    <owl:Class rdf:ID="InformationObjective">
        <rdfs:label>Information Objective</rdfs:label>
        <rdfs:subClassOf rdf:resource="#Objective"/>
    </owl:Class>
    <owl:Class rdf:ID="NationalInformationObjective">
        <rdfs:label>National Information Objective</rdfs:label>
        <rdfs:subClassOf rdf:resource="#InformationObjective"/>
        <rdfs:subClassOf rdf:resource="#NationalObjective"/>
    </owl:Class>
    <!-- ***** Military Objectives ***** -->
    <owl:Class rdf:ID="MilitaryObjective">
        <rdfs:label>Military Objective</rdfs:label>
        <rdfs:subClassOf rdf:resource="#Objective"/>
    </owl:Class>
    <owl:Class rdf:ID="NationalMilitaryObjective">
        <rdfs:label>National Military Objective</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MilitaryObjective"/>
        <rdfs:subClassOf rdf:resource="#NationalObjective"/>
    </owl:Class>
    <owl:Class rdf:ID="StrategicObjective">
        <rdfs:label>Strategic Objective</rdfs:label>
        <rdfs:subClassOf rdf:resource="#NationalMilitaryObjective"/>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#supportedBy"/>
                <owl:allValuesFrom
rdf:resource="#OperationalObjective"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="OperationalObjective">
        <rdfs:label>Operational Objective</rdfs:label>
        <rdfs:subClassOf rdf:resource="#NationalMilitaryObjective"/>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#supportedBy"/>
                <owl:allValuesFrom rdf:resource="#TacticalObjective"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="TacticalObjective">
        <rdfs:label>Tactical Objective</rdfs:label>
        <rdfs:subClassOf rdf:resource="#NationalMilitaryObjective"/>
    </owl:Class>
    <!-- ***** Economic Objectives ***** -->
    <owl:Class rdf:ID="EconomicObjective">
        <rdfs:label>Economic Objective</rdfs:label>
        <rdfs:subClassOf rdf:resource="#Objective"/>
    </owl:Class>
    <owl:Class rdf:ID="NationalEconomicObjective">
        <rdfs:label>National Economic Objective</rdfs:label>
        <rdfs:subClassOf rdf:resource="#EconomicObjective"/>
        <rdfs:subClassOf rdf:resource="#NationalObjective"/>

```

```

</owl:Class>
<!-- ***** Security Objectives ***** -->
<owl:Class rdf:ID="SecurityObjective">
  <rdfs:label>Security Objective</rdfs:label>
  <rdfs:subClassOf rdf:resource="#Objective"/>
</owl:Class>
<owl:Class rdf:ID="NationalSecurityObjective">
  <rdfs:label>National Security Objective</rdfs:label>
  <rdfs:subClassOf rdf:resource="#SecurityObjective"/>
  <rdfs:subClassOf rdf:resource="#NationalObjective"/>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#supportedBy"/>
      <owl:allValuesFrom
rdf:resource="#NationalMilitaryObjective"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<!-- ***** Properties ***** -->
-->
<owl:ObjectProperty rdf:ID="supportedBy">
  <rdfs:label>Supported By</rdfs:label>
</owl:ObjectProperty>
</rdf:RDF>

```

Appendix F: National Security Organization Ontology

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:dc="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#"
  xmlns:ves="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#"

  xmlns:nso="http://orlando.drc.com/SemanticWeb/OWL/Ontology/NationalSecurity/ver/
0.1.0/NSO-ont#"

  xmlns="http://orlando.drc.com/SemanticWeb/OWL/Ontology/NationalSecurity/ver/0.1.
0/NSO-ont#"
>
  <owl:Ontology rdf:about="">
    <ves:versioning>
      <ves:VersionData>
        <dc:title>National Security Organization
Ontology</dc:title>
        <ves:version>0.1.0</ves:version>
        <ves:email>TeamXML@drc.com</ves:email>
        <dc:creator>DRC</dc:creator>
        <ves:releaseDate>2003-07-11</ves:releaseDate>
        <ves:releaseLevel>beta</ves:releaseLevel>
        <ves:status>current</ves:status>
        <dc:source>AFCS Pub 1; The Joint Staff Officer's Guide,
2000</dc:source>
      </ves:VersionData>
    </ves:versioning>
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont"/>
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VLS/ver/0.1.0/drc-
vls-ont"/>
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/dc/ver/0.1.0/dces-
ont"/>
    <rdfs:comment>This ontology represents the high-level classes and
relationships for the National Security Orgnization of the US.</rdfs:comment>
  </owl:Ontology>
  <!-- Abstract Classes
***** -->
  <owl:Class rdf:ID="Role">
    <rdfs:label>Role</rdfs:label>
    <rdfs:comment>A position/job/function that is held by a
person.</rdfs:comment>
  </owl:Class>
  <owl:Class rdf:ID="Secretary">
    <rdfs:label>Secretary</rdfs:label>
    <rdfs:comment>A national secretarial role.</rdfs:comment>
    <rdfs:subClassOf rdf:resource="#Role"/>
  </owl:Class>
  <owl:Class rdf:ID="JointChiefOfStaff">

```

```

        <rdfs:label>Joint Chief of Staff</rdfs:label>
        <rdfs:comment>A Joint Chief of Staff.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#Role"/>
    </owl:Class>
    <owl:Class rdf:ID="MilitaryServiceChief">
        <rdfs:label>Military Service Chief</rdfs:label>
        <rdfs:subClassOf rdf:resource="#JointChiefOfStaff"/>
    </owl:Class>
    <owl:Class rdf:ID="NationalCommandAuthority">
        <rdfs:label>National Command Authority</rdfs:label>
        <rdfs:comment>A National Command Authority of the US, of which there
are only two: the President and the Secretary of Defense.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#Role"/>
    </owl:Class>
    <owl:Class rdf:ID="Commander">
        <rdfs:label>Commander</rdfs:label>
        <rdfs:subClassOf rdf:resource="#Role"/>
    </owl:Class>
    <owl:Class rdf:ID="Organization">
        <rdfs:label>Organization</rdfs:label>
    </owl:Class>
    <owl:Class rdf:ID="Department">
        <rdfs:label>Department</rdfs:label>
        <rdfs:subClassOf rdf:resource="#Organization"/>
    </owl:Class>
    <owl:Class rdf:ID="ArmedForceDepartment">
        <rdfs:label>Armed Force Department</rdfs:label>
        <rdfs:subClassOf rdf:resource="#Department"/>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#hasIndividualMember"/>
                <owl:someValuesFrom rdf:resource="#Secretary"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#hasIndividualMember"/>
                <owl:someValuesFrom
rdf:resource="#MilitaryServiceChief"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#hasArmedForce"/>
                <owl:someValuesFrom rdf:resource="#ArmedForce"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="ArmedForce">
        <rdfs:label>Armed Force</rdfs:label>
    </owl:Class>
    <!-- Presidential Classes
***** -->
    <owl:Class rdf:ID="PresidentOfTheUnitedStates">
        <rdfs:label>President of the US</rdfs:label>
        <rdfs:comment>The President of the US.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#NationalCommandAuthority"/>

```

```

</owl:Class>
<owl:Class rdf:ID="ComanderInChief">
  <rdfs:label>Comander In Chief</rdfs:label>
  <rdfs:comment>The Commander in Chief (President) of the
US.</rdfs:comment>
  <owl:equivalentClass rdf:resource="#PresidentOfTheUnitedStates"/>
</owl:Class>
<owl:Class rdf:ID="VicePresidentOfTheUnitedStates">
  <rdfs:label>Vice President of the US</rdfs:label>
  <rdfs:comment>The Vice President of the US.</rdfs:comment>
  <rdfs:subClassOf rdf:resource="#Role"/>
</owl:Class>
<!-- Secretarial Classes
***** -->
<owl:Class rdf:ID="SecretaryOfDefense">
  <rdfs:label>Secretary of Defense</rdfs:label>
  <rdfs:comment>The Secretary of Defense of the US.</rdfs:comment>
  <rdfs:subClassOf rdf:resource="#NationalCommandAuthority"/>
  <rdfs:subClassOf rdf:resource="#Secretary"/>
</owl:Class>
<owl:Class rdf:ID="SecretaryOfState">
  <rdfs:label>Secretary of Defense</rdfs:label>
  <rdfs:comment>The Secretary of Defense of the US.</rdfs:comment>
  <rdfs:subClassOf rdf:resource="#Secretary"/>
</owl:Class>
<owl:Class rdf:ID="SecretaryOfTheArmy">
  <rdfs:label>Secretary of the Army</rdfs:label>
  <rdfs:comment>The Secretary of the Army of the US.</rdfs:comment>
  <rdfs:subClassOf rdf:resource="#Secretary"/>
</owl:Class>
<owl:Class rdf:ID="SecretaryOfTheAirForce">
  <rdfs:label>Secretary of the Air Force</rdfs:label>
  <rdfs:comment>The Secretary of the Air Force of the
US.</rdfs:comment>
  <rdfs:subClassOf rdf:resource="#Secretary"/>
</owl:Class>
<owl:Class rdf:ID="SecretaryOfTheNavy">
  <rdfs:label>Secretary of the Navy</rdfs:label>
  <rdfs:comment>The Secretary of the Navy of the US.</rdfs:comment>
  <rdfs:subClassOf rdf:resource="#Secretary"/>
</owl:Class>
<!-- Armed Forces Classes
***** -->
<owl:Class rdf:ID="UnitedStatesArmy">
  <rdfs:label>United States Army</rdfs:label>
  <rdfs:subClassOf rdf:resource="#ArmedForce"/>
</owl:Class>
<owl:Class rdf:ID="UnitedStatesAirForce">
  <rdfs:label>United States Air Force</rdfs:label>
  <rdfs:subClassOf rdf:resource="#ArmedForce"/>
</owl:Class>
<owl:Class rdf:ID="UnitedStatesNavy">
  <rdfs:label>United States Navy</rdfs:label>
  <rdfs:subClassOf rdf:resource="#ArmedForce"/>
</owl:Class>
<owl:Class rdf:ID="UnitedStatesMarineCorps">
  <rdfs:label>United States Marine Corps</rdfs:label>

```



```

        <rdfs:subClassOf rdf:resource="#ArmedForce"/>
    </owl:Class>
    <!-- Joint Chiefs Classes
    ***** -->
    <owl:Class rdf:ID="ChairmanOfTheJointChiefsOfStaff">
        <rdfs:label>Chairman of the Joint Chiefs of Staff</rdfs:label>
        <rdfs:comment>The Chairman of the Joint Chiefs of
Staff.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#JointChiefOfStaff"/>
    </owl:Class>
    <owl:Class rdf:ID="ViceChairmanOfTheJointChiefsOfStaff">
        <rdfs:label>Vice Chairman of the Joint Chiefs of Staff</rdfs:label>
        <rdfs:comment>The Vice Chairman of the Joint Chiefs of
Staff.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#JointChiefOfStaff"/>
    </owl:Class>
    <owl:Class rdf:ID="ChiefOfStaffOfTheArmy">
        <rdfs:label>Chief of Staff of the Army</rdfs:label>
        <rdfs:comment>The Chief of Staff of the Army.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#MilitaryServiceChief"/>
    </owl:Class>
    <owl:Class rdf:ID="ChiefOfNavalOperations">
        <rdfs:label>Chief of Naval Operations</rdfs:label>
        <rdfs:comment>The Chief of Naval Operations.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#MilitaryServiceChief"/>
    </owl:Class>
    <owl:Class rdf:ID="ChiefOfStaffOfTheAirForce">
        <rdfs:label>Chief of Staff of the Air Force</rdfs:label>
        <rdfs:comment>The Chief of Staff of the Air Force.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#MilitaryServiceChief"/>
    </owl:Class>
    <owl:Class rdf:ID="CommandantOfTheMarineCorps">
        <rdfs:label>Commandant of the Marine Corps</rdfs:label>
        <rdfs:comment>The Commandant of the Marine Corps.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#MilitaryServiceChief"/>
    </owl:Class>
    <!-- Combatant Comander Classes
    ***** -->
    <owl:Class rdf:ID="CombatantCommander">
        <rdfs:label>Combatant Commander</rdfs:label>
        <rdfs:comment>A Combatant Commander of the US.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#Commander"/>
        <!-- All combatant commanders are represented by this class. In
later versions this class may become abstract, then subclassed to specific types
of combatant commanders. -->
    </owl:Class>
    <owl:Class rdf:ID="ComponentCommandCommander">
        <rdfs:label>Component Command Commander</rdfs:label>
        <rdfs:comment>A Component Command Commander of the
US.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#Commander"/>
        <!-- All component commanders are represented by this class. In
later versions this class may become abstract, then subclassed to specific types
of component commanders. -->
    </owl:Class>
    <owl:Class rdf:ID="SubunifiedCommandCommander">
        <rdfs:label>Subunified Command Commander</rdfs:label>

```

```

        <rdfs:comment>A Subunified Command Commander of the
US.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#Commander"/>
        <!-- All subunified command commanders are represented by this
class. In later versions this class may become abstract, then subclassed to
specific types of subunified command commanders. -->
    </owl:Class>
    <owl:Class rdf:ID="JointTaskForceCommander">
        <rdfs:label>Joint Task Force Commander</rdfs:label>
        <rdfs:comment>A Joint Task Force Commander of the US.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#Commander"/>
        <!-- All joint task force commanders are represented by this class.
In later versions the this class become abstract, then subclassed to specific
types of joint task force commanders. -->
    </owl:Class>
    <!-- Organizaion Classes
***** -->
    <owl:Class rdf:ID="NationalSecurityCouncil">
        <rdfs:label>National Security Council</rdfs:label>
        <rdfs:comment>The National Security Council (NSC) of the US. The NSC
is the principal forum to consider national security issues that require
Presidential decision.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#Organization"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#hasGroupMember"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#hasGroupMember"/>
                <owl:someValuesFrom
rdf:resource="#NationalCommandAuthorities"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="2">
                <owl:onProperty rdf:resource="#hasIndividualMember"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#hasIndividualMember"/>
                <owl:someValuesFrom
rdf:resource="#VicePresidentOfTheUnitedStates"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#hasIndividualMember"/>
                <owl:someValuesFrom rdf:resource="#SecretaryOfState"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="NationalCommandAuthorities">
        <rdfs:label>National Command Authorities</rdfs:label>

```

```

        <rdfs:comment>The National Command Authorities (NCA) have the
constitutional authority to direct the Armed Forces in their execution of
military action. Both movement of troops and execution of military action must
be directed by the NCA; by law no one else in the chain of command has the
authority to take such action except in self-defense.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#Organization"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="2">
                <owl:onProperty rdf:resource="#hasIndividualMember"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#hasIndividualMember"/>
                <owl:allValuesFrom
rdf:resource="#NationalCommandAuthority"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="JointStaff">
        <rdfs:label>The Joint Staff</rdfs:label>
        <rdfs:comment>The Joint Staff.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#Organization"/>
    </owl:Class>
    <owl:Class rdf:ID="JointChiefsOfStaff">

        <rdfs:label>The Joint Chiefs of Staff</rdfs:label>
        <rdfs:comment>The Joint Chiefs of Staff (JCS).</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#Organization"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="6">
                <owl:onProperty rdf:resource="#hasIndividualMember"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#hasIndividualMember"/>
                <owl:allValuesFrom rdf:resource="#JointChiefOfStaff"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <!-- Department Classes
***** -->
    <owl:Class rdf:ID="DepartmentOfTheArmy">
        <rdfs:label>Department of the Army</rdfs:label>
        <rdfs:comment>The Department of the Army of the US.</rdfs:comment>
        <rdfs:subClassOf rdf:resource="#ArmedForceDepartment"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="2">
                <owl:onProperty rdf:resource="#hasIndividualMember"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#hasArmedForce"/>
            </owl:Restriction>
        </rdfs:subClassOf>

```

```

</owl:Class>
<owl:Class rdf:ID="DepartmentOfTheAirForce">
  <rdfs:label>Department of the Air Force</rdfs:label>
  <rdfs:comment>The Department of the Air Force of the
US.</rdfs:comment>
  <rdfs:subClassOf rdf:resource="#ArmedForceDepartment"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="2">
      <owl:onProperty rdf:resource="#hasIndividualMember"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#hasArmedForce"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="DepartmentOfTheNavy">
  <rdfs:label>Department of the Navy</rdfs:label>
  <rdfs:comment>The Department of the Navy of the US.</rdfs:comment>
  <rdfs:subClassOf rdf:resource="#ArmedForceDepartment"/>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="3">
      <owl:onProperty rdf:resource="#hasIndividualMember"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="2">
      <owl:onProperty rdf:resource="#hasArmedForce"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<!-- ***** Properties
***** -->
<!-- *** Member Properties *** -->
<owl:ObjectProperty rdf:ID="hasMember">
  <rdfs:label>Has Member</rdfs:label>
  <rdfs:comment>Indicates that something has a person as a
member.</rdfs:comment>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="hasIndividualMember">
  <rdfs:label>Has Member</rdfs:label>
  <rdfs:comment>Indicates that something has an individual (person) as
a member.</rdfs:comment>
  <rdfs:subPropertyOf rdf:resource="#hasMember"/>
</owl:ObjectProperty>
<!-- *** Group Member Properties *** -->
<owl:ObjectProperty rdf:ID="hasGroupMember">
  <rdfs:label>Has Member</rdfs:label>
  <rdfs:comment>Indicates that something has a group of people (not an
official organization) as a member.</rdfs:comment>
  <rdfs:subPropertyOf rdf:resource="#hasMember"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="hasNationalCommandAuthorities">
  <rdfs:label>Has National Command Authorities</rdfs:label>
  <rdfs:comment>Indicates that something has the National Command
Authorities as a component.</rdfs:comment>

```

```

        <rdfs:subPropertyOf rdf:resource="#hasGroupMember"/>
    </owl:ObjectProperty>
    <!-- *** Organization Member Properties *** -->
    <owl:ObjectProperty rdf:ID="hasOrganizationMember">
        <rdfs:label>Has Member</rdfs:label>
        <rdfs:comment>Indicates that something has an organization as a
member.</rdfs:comment>
        <rdfs:subPropertyOf rdf:resource="#hasMember"/>
    </owl:ObjectProperty>
    <owl:ObjectProperty rdf:ID="hasArmedForce">
        <rdfs:label>Has Armed Force Member</rdfs:label>
        <rdfs:comment>Indicates that something has an Armed Force as a
component.</rdfs:comment>
        <rdfs:subPropertyOf rdf:resource="#hasOrganizationMember"/>
    </owl:ObjectProperty>
    <!-- *** Other Properties *** -->
    <owl:TransitiveProperty rdf:ID="commands">
        <rdfs:label>Commands</rdfs:label>
        <rdfs:comment>Indicates that something is the commanding body of
another.</rdfs:comment>
    </owl:TransitiveProperty>
    <owl:TransitiveProperty rdf:ID="commandedBy">
        <rdfs:label>Commanded By</rdfs:label>
        <rdfs:comment>Indicates that something is the commanded by of
another.</rdfs:comment>
        <owl:inverseOf rdf:resource="#commands"/>
    </owl:TransitiveProperty>
    <owl:ObjectProperty rdf:ID="reportsTo">
        <rdfs:label>Reports To</rdfs:label>
        <rdfs:comment>Indicates that something reports to
another.</rdfs:comment>
    </owl:ObjectProperty>
    <owl:ObjectProperty rdf:ID="advises">
        <rdfs:label>Advises</rdfs:label>
        <rdfs:comment>Indicates that something advises to
another.</rdfs:comment>
    </owl:ObjectProperty>
    <owl:ObjectProperty rdf:ID="communicatesWith">
        <rdfs:label>Communicates With</rdfs:label>
        <rdfs:comment>Indicates that something communicates with to
another.</rdfs:comment>
    </owl:ObjectProperty>
</rdf:RDF>

```

Appendix G: Bibliographic Ontology

```

<?xml version="1.0"?>
<rdf:RDF
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
xmlns:owl="http://www.w3.org/2002/07/owl#"
xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
xmlns:dc="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#"
xmlns:ves="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#"
xmlns:geo="http://orlando.drc.com/SemanticWeb/OWL/Ontology/GeoSpatial/ver/0.1.0/
GeoSpatial-ont#"
xmlns:bib="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Bibliographic/ver/0.1
.0/Bibliographic-ont#"
xmlns="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Bibliographic/ver/0.1.0/B
ibliographic-ont#">
  <!-- ===== -->
  <!-- == Bibliographic Ontology -->
  <!-- ===== -->
  <owl:Ontology rdf:about="">
    <ves:versioning>
      <ves:VersionData>
        <dc:title>Bibliographic Ontology</dc:title>
        <ves:version>0.1.0</ves:version>
        <ves:email>TeamXML@drc.com</ves:email>
        <dc:creator>DRC</dc:creator>
        <ves:releaseDate>2003-07-11</ves:releaseDate>
        <ves:releaseLevel>beta</ves:releaseLevel>
        <ves:status>current</ves:status>
      </ves:VersionData>
    </ves:versioning>
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont"/>
      <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VLS/ver/0.1.0/drc-
vls-ont"/>
      <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/dc/ver/0.1.0/dces-
ont"/>
      <rdfs:comment>A sample Bibliographic ontology, with data types taken
from ISO 12620:1999(E) Annex B</rdfs:comment>
    </owl:Ontology>
    <!-- ===== -->
    <!-- == Reference...Class and Property Definitions -->
    <!-- ===== -->
    <owl:Class rdf:ID="Bibliographic">
      <rdfs:label>Bibliographic</rdfs:label>
      <rdfs:comment>includes elements that can be used as data categories
in bibliographic citations included in terminology databases</rdfs:comment>
    </owl:Class>
    <owl:Class rdf:ID="BibliographicEntry">
      <rdfs:label>Bibliographic Entry</rdfs:label>
      <rdfs:comment>An entry whose content consists of a standard
bibliographic citation</rdfs:comment>
      <owl:equivalentClass rdf:resource="#Bibliographic"/>
    </owl:Class>

```

```

<owl:ObjectProperty rdf:ID="sourceFor">
  <rdfs:label>Source For</rdfs:label>
  <rdfs:domain rdf:resource="#Bibliographic"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="referenceFor">
  <owl:equivalentProperty rdf:resource="#sourceFor"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="bibliographicEntryFor">
  <owl:equivalentProperty rdf:resource="#sourceFor"/>
</owl:ObjectProperty>
<owl:DatatypeProperty rdf:ID="advertisement">
  <rdfs:label>Advertisement</rdfs:label>
  <rdfs:comment>An advertisement or public notice within a serial
publication</rdfs:comment>
  <rdfs:domain rdf:resource="#Bibliographic"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="article">
  <rdfs:label>Article</rdfs:label>
  <rdfs:comment>An independent text forming a part of a
publication</rdfs:comment>
  <rdfs:domain rdf:resource="#Bibliographic"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="author">
  <rdfs:label>Author</rdfs:label>
  <rdfs:comment>A person or corporate body responsible for the
intellectual or artistic content of a document</rdfs:comment>
  <rdfs:domain rdf:resource="#Bibliographic"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="available">
  <rdfs:label>Available</rdfs:label>
  <rdfs:comment>Commercial source from which a cited document can be
obtained or a location where the document can be found</rdfs:comment>
  <rdfs:domain rdf:resource="#Bibliographic"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="book">
  <rdfs:label>Book</rdfs:label>
  <rdfs:comment>Publication complete in one volume or complete or
intended to be completed in a finite number of volumes</rdfs:comment>
  <rdfs:domain rdf:resource="#Bibliographic"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="category">
  <rdfs:label>Category</rdfs:label>
  <rdfs:comment>Type of publication</rdfs:comment>
  <rdfs:domain rdf:resource="#Bibliographic"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="publicationCategory">
  <owl:equivalentProperty rdf:resource="#category"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="citation">
  <rdfs:label>Citation</rdfs:label>

```



```

        <rdfs:comment>A reference to a book, article, of other
source</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="city">
        <rdfs:label>City</rdfs:label>
        <rdfs:comment>City and State in which a document is
published</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="coden">
        <rdfs:label>CODEN</rdfs:label>
        <rdfs:comment>A concise, unique, alphanumeric code assigned to
serial and monographic publications and used as an unambiguous, permanent
identifrier</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="codeNumber">
        <owl:equivalentProperty rdf:resource="#coden"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="corporateAuthor">
        <rdfs:label>Corporate Author</rdfs:label>
        <rdfs:comment>The organization responsible for the creation of all
or some of the intellectual or artistic content of the work</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="copyright">
        <rdfs:label>Copyright</rdfs:label>
        <rdfs:comment>The exclusive legal right granted for a specified
period to an author, designer, etc. or another appointed person, to print,
publish, perform, film, or record original literary, artistic, or musical
material</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="copyrightHolder">
        <rdfs:label>Copyright Holder</rdfs:label>
        <rdfs:comment>The name of the copyright owner at the time of
publication</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="country">
        <rdfs:label>Country</rdfs:label>
        <rdfs:comment>Country in which a document is
published</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="dateOfPublication">
        <rdfs:label>Date of Publication</rdfs:label>
        <rdfs:comment>Indication of the year, and if necessary, of the month
and day of publishing</rdfs:comment>

```

```

        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="publicationDate">
        <owl:equivalentProperty rdf:resource="#dateOfPublication"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="edition">
        <rdfs:label>Edition</rdfs:label>
        <rdfs:comment>Whole set of copies of a document produced from one
composition or from a single copy used as a master</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="editor">
        <rdfs:label>Editor</rdfs:label>
        <rdfs:comment>An organization or person responsible for the
preparation for publication of a document from the point of view of its
intellectual content</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="extent">
        <rdfs:label>Extent</rdfs:label>
        <rdfs:comment>Number of pages in a work</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="firstName">
        <rdfs:label>First Name</rdfs:label>
        <rdfs:comment>The given name of an individual</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="glossary">
        <rdfs:label>Glossary</rdfs:label>
        <rdfs:comment>Terminological list of short dictionary containing the
terminology of a specific subject field or of related fields</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="isbn">
        <rdfs:label>ISBN</rdfs:label>
        <rdfs:comment>Internationally recognized unique standard number
assigned to each edition of a book or other monographic publication for
identification purposes</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="issn">
        <rdfs:label>ISSN</rdfs:label>
        <rdfs:comment>Internationally recognized unique standard number
assigned to each edition of a book or other monographic publication for
identification purposes</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="issueNumber">

```

```

        <rdfs:label>Issue Number</rdfs:label>
        <rdfs:comment>Number of an element of a document published over a
period of time</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="libraryOfCongressCardNumber">
        <rdfs:label>Library Of Congress Card Number</rdfs:label>
        <rdfs:comment>Number assigned by the U.S. Library of Congress for
the purpose of providing access to a complete catalog record for a
work</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="organizationName">
        <rdfs:label>Organization Name</rdfs:label>
        <rdfs:comment>Name of an association, business or other
systematically structured entity</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="otherInformation">
        <rdfs:label>Other Information</rdfs:label>
        <rdfs:comment>Generic data category used in ISO 12083 for items not
otherwise treated in the list of elements; used in terminology database
management for terminological elements not normally treated in library-oriented
bibliographical resources</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="page">
        <rdfs:label>Page</rdfs:label>
        <rdfs:comment>One side of a leaf of a document</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="publisherName">
        <rdfs:label>Publisher Name</rdfs:label>
        <rdfs:comment>Name of person or organization responsible for the
production and dissemination of a document</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="reportIdentifier">
        <rdfs:label>Report Identifier</rdfs:label>

        <rdfs:comment>Complete formatted alphanumeric designation uniquely
identifying a report</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="role">
        <rdfs:label>Role</rdfs:label>
        <rdfs:comment>Special function of an originator of a
document</rdfs:comment>
        <rdfs:domain rdf:resource="#Bibliographic"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>

```

```

</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="serialTitle">
  <rdfs:label>Serial Title</rdfs:label>
  <rdfs:comment>The title of a monographic series</rdfs:comment>
  <rdfs:domain rdf:resource="#Bibliographic"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="surname">
  <rdfs:label>Surname</rdfs:label>
  <rdfs:comment>The dereditary name of an individual</rdfs:comment>
  <rdfs:domain rdf:resource="#Bibliographic"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="title">
  <rdfs:label>Title</rdfs:label>
  <rdfs:comment>A word or phrase, usually appearing on the document,
by which it is convenient to refer to it, which can be used to identify it, and
which often (though not invariably) distinguishes it from any other
document</rdfs:comment>
  <rdfs:domain rdf:resource="#Bibliographic"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="volumeIdentifier">
  <rdfs:label>Volume Identifier</rdfs:label>
  <rdfs:comment>Identifier for a material unit assembling a certain
number of leaves under one cover to form a whole or part of a set</rdfs:comment>
  <rdfs:domain rdf:resource="#Bibliographic"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
</rdf:RDF>

```

Appendix H : DAML-extension Ontology

```

<?xml version='1.0'?>
<rdf:RDF
  xmlns:rdf      ="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns          ="http://www.daml.org/2000/10/daml-ont#"
  xmlns:daml     ="http://www.daml.org/2000/10/daml-ont#"
  xmlns:a        ="https://www.daml.org/actionitems/actionitems-
20000905.rdfs#">

<!-- Suggested extentions of the base DAML ontology -->

<!-- mark DAML program action item 12 as complete -->
<rdf:Description about="https://www.daml.org/actionitems/12.rdf">
  <a:state>closed</a:state>
  <a:Action>
    <a:status>available at http://orl01.drc.com/daml/Ontology/daml-
extentions/daml-ext-ont.daml</a:status>
    <a:date>2000-10-31</a:date>
    <a:by>TeamXML@drc.com</a:by>
  </a:Action>
</rdf:Description>

<Ontology about="">
  <versionInfo>$Id: daml-ext-ont.daml, v 1.1, 2000/11/5 $</versionInfo>
  <comment>Suggested extentions to the base DAML ontology.</comment>
  <imports resource= "http://www.daml.org/2000/10/daml-ont"/>
</Ontology>

<!-- Base Class ***** -->
<Class ID="Artifact">
  <label>Artifact</label>
  <comment>A DAML artifact (DAML-A) is a document that uses the vocabulary
defined by one or more DAML ontologies (DAML-O).</comment>
</Class>

<!-- Properties ***** -->
<Property about="http://www.daml.org/2000/10/daml-ont#versionInfo">
  <domain resource="#Artifact"/>
</Property>

<Property about="http://www.daml.org/2000/10/daml-ont#imports">
  <domain resource="#Artifact"/>
</Property>

</rdf:RDF>

```

Appendix I: Dublin Core Ontology

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:ves="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#"
  xmlns:dc="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#"
  xmlns="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-ont#"
>
  <!-- DRC DCES Ontology metadata -->
  <owl:Ontology rdf:about="">
    <ves:versioning>
      <ves:VersionData>
        <title>The Dublin Core Element Set Ontology</title>
        <ves:version>0.1.0</ves:version>
        <ves:email>TeamXML@drc.com</ves:email>
        <creator>DRC</creator>
        <ves:releaseDate>2003-07-09</ves:releaseDate>
        <ves:releaseLevel>beta</ves:releaseLevel>
        <ves:status>current</ves:status>
      </ves:VersionData>
    </ves:versioning>
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont"/>
    <rdfs:comment>This file is a result of migrating DAML to OWL using
owlConverter.pl</rdfs:comment>
    <rdfs:comment>This DCES ontology was derived from the v1.1 Element
Set from Dublin Core. This ontology should be used until DC creates an official
OWL version of their Element Set.</rdfs:comment>
    <rdfs:comment>IMPORTANT: The true Namespace for Dublin Core ES v1.1
is 'http://purl.org/dc/elements/1.1/'. However, the OWL Validator produces an
warning/error when it is used because DC does not have a OWL document at the
Namespace location. Hence for the pupose of OWL validation, this document
references a DRC Namespace for the DCES.</rdfs:comment>
    <!-- DCES metadata -->
    <dc:title>The Dublin Core Element Set (ver 1.1)</dc:title>
    <dc:publisher>The Dublin Core Metadata Initiative</dc:publisher>
    <dc:description>The Dublin Core metadata vocabulary is a simple
vocabulary intended to facilitate discovery of resources.</dc:description>
    <dc:language>English</dc:language>
    <dc:relation>http://dublincore.org/documents/dces/</dc:relation>
    <dc:date>2000-07-02</dc:date>
  </owl:Ontology>
  <owl:DatatypeProperty rdf:ID="title">
    <rdfs:label>Title</rdfs:label>
    <rdfs:comment>A name given to the resource.</rdfs:comment>
    <rdfs:comment>Typically, a Title will be a name by which the
resource is formally known.</rdfs:comment>
  </owl:DatatypeProperty>
  <owl:DatatypeProperty rdf:ID="contributor">
    <rdfs:label>Contributor</rdfs:label>
    <rdfs:comment>An entity responsible for making contributions to the
content of the resource.</rdfs:comment>

```



```

        <rdfs:comment>Examples of a Contributor include a person, an
organisation, or a service. Typically, the name of a Contributor should be used
to indicate the entity.</rdfs:comment>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="creator">
        <rdfs:label>Author/Creator</rdfs:label>
        <rdfs:comment>An entity primarily responsible for making the content
of the resource.</rdfs:comment>
        <rdfs:comment>Examples of a Creator include a person, an
organisation, or a service. Typically, the name of a Creator should be used to
indicate the entity.</rdfs:comment>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="publisher">
        <rdfs:label>Publisher</rdfs:label>
        <rdfs:comment>An entity responsible for making the resource
available.</rdfs:comment>
        <rdfs:comment>Examples of a Publisher include a person, an
organisation, or a service. Typically, the name of a Publisher should be used to
indicate the entity.</rdfs:comment>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="subject">
        <rdfs:label>Subject</rdfs:label>
        <rdfs:comment>The topic of the content of the
resource.</rdfs:comment>
        <rdfs:comment>Typically, a Subject will be expressed as keywords,
key phrases or classification codes that describe a topic of the resource.
Recommended best practice is to select a value from a controlled vocabulary or
formal classification scheme.</rdfs:comment>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="description">
        <rdfs:label>Description</rdfs:label>
        <rdfs:comment>An account of the content of the
resource.</rdfs:comment>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="date">
        <rdfs:label>Date</rdfs:label>
        <rdfs:comment>A date associated with an event in the life cycle of
the resource.</rdfs:comment>
        <rdfs:comment>Typically, Date will be associated with the creation
or availability of the resource. Recommended best practice for encoding the date
value is defined in a profile of ISO 8601 [W3CDTF] and follows the YYYY-MM-DD
format.</rdfs:comment>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="type">
        <rdfs:label>Resource Type</rdfs:label>
        <rdfs:comment>The nature or genre of the content of the
resource.</rdfs:comment>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="format">
        <rdfs:label>Format</rdfs:label>
        <rdfs:comment>The physical or digital manifestation of the
resource.</rdfs:comment>
        <rdfs:comment>Typically, Format may include the media-type or
dimensions of the resource. Format may be used to determine the software,
hardware or other equipment needed to display or operate the resource. Examples
of dimensions include size and duration. Recommended best practice is to select

```

a value from a controlled vocabulary (for example, the list of Internet Media Types [MIME] defining computer media formats).</rdfs:comment>

```

    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="identifier">
      <rdfs:label>Resource Identifier</rdfs:label>
      <rdfs:comment>An unambiguous reference to the resource within a
given context.</rdfs:comment>
      <rdfs:comment>Recommended best practice is to identify the resource
by means of a string or number conforming to a formal identification system.
Example formal identification systems include the Uniform Resource Identifier
(URI) (including the Uniform Resource Locator (URL)), the Digital Object
Identifier (DOI) and the International Standard Book Number
(ISBN).</rdfs:comment>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="language">
      <rdfs:label>Language</rdfs:label>
      <rdfs:comment>A language of the intellectual content of the
resource.</rdfs:comment>
      <rdfs:comment>Recommended best practice for the values of the
Language element is defined by RFC 1766 [RFC1766] which includes a two-letter
Language Code (taken from the ISO 639 standard [ISO639]), followed optionally,
by a two-letter Country Code (taken from the ISO 3166 standard [ISO3166]). For
example, 'en' for English, 'fr' for French, or 'en-uk' for English used in the
United Kingdom.</rdfs:comment>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="relation">
      <rdfs:label>Relation</rdfs:label>
      <rdfs:comment>A reference to a related resource.</rdfs:comment>
      <rdfs:comment>Recommended best practice is to reference the resource
by means of a string or number conforming to a formal identification
system.</rdfs:comment>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="source">
      <rdfs:label>Source</rdfs:label>
      <rdfs:comment>A Reference to a resource from which the present
resource is derived.</rdfs:comment>
      <rdfs:comment>The present resource may be derived from the Source
resource in whole or in part. Recommended best practice is to reference the
resource by means of a string or number conforming to a formal identification
system.</rdfs:comment>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="coverage">
      <rdfs:label>Coverage</rdfs:label>
      <rdfs:comment>The extent or scope of the content of the
resource.</rdfs:comment>
      <rdfs:comment>Coverage will typically include spatial location (a
place name or geographic coordinates), temporal period (a period label, date, or
date range) or jurisdiction (such as a named administrative entity). Recommended
best practice is to select a value from a controlled vocabulary (for example,
the Thesaurus of Geographic Names [TGN]) and that, where appropriate, named
places or time periods be used in preference to numeric identifiers such as sets
of coordinates or date ranges.</rdfs:comment>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="rights">
      <rdfs:label>Rights</rdfs:label>
      <rdfs:comment>Information about rights held in and over the
resource.</rdfs:comment>

```

```
        <rdfs:comment>Typically, a Rights element will contain a rights
management statement for the resource, or reference a service providing such
information. Rights information often encompasses Intellectual Property Rights
(IPR), Copyright, and various Property Rights. If the Rights element is absent,
no assumptions can be made about the status of these and other rights with
respect to the resource.</rdfs:comment>
    </owl:DatatypeProperty>
</rdf:RDF>
```

Appendix J: Glossary Ontology

```

<?xml version="1.0"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:daml="http://www.daml.org/2001/03/daml+oil#"
  xmlns:xsd="http://www.w3.org/2000/10/XMLSchema#"
  xmlns:dc="http://orlando.drc.com/daml/ontology/DC/3.1/dces-ont#"
  xmlns:ves="http://orlando.drc.com/daml/ontology/VES/3.1/drc-ves-ont#"
  xmlns:glos="http://orlando.drc.com/daml/Ontology/Glossary/3.1/Glossary-ont#"
  xmlns="http://orlando.drc.com/daml/Ontology/Glossary/3.1/Glossary-ont#"
  <!-- ===== -->
  <!-- == Glossary Ontology -->
  <!-- ===== -->
  <daml:Ontology rdf:about="">
    <dc:title>Glossary Ontology</dc:title>

    <ves:location>http://orlando.drc.com/daml/Ontology/Glossary/3.1/Glossary-
ont.daml</ves:location>
    <ves:version>3.1</ves:version>
    <ves:email>TeamXML@drc.com</ves:email>
    <dc:creator>DRC</dc:creator>
    <ves:statusDate>2001-09-19</ves:statusDate>
    <ves:status>published</ves:status>
    <daml:comment>A sample glossary ontology, with data types taken from
ISO 12200 and ISO 12620</daml:comment>
    <daml:imports rdf:resource="http://www.daml.org/2001/03/daml+oil"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/ontology/VES/3.1/drc-ves-ont"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/Ontology/daml-extension/3.1/daml-ext-
ont"/>
  </daml:Ontology>
  <daml:Class rdf:ID="Glossary">
    <daml:label>Glossary</daml:label>
    <daml:comment>Many of the data categories reflect categories found
in ISO12200 and ISO 12620</daml:comment>
  </daml:Class>
  <daml:DatatypeProperty rdf:ID="name">
    <daml:label>Glossary Name</daml:label>
    <daml:domain rdf:resource="#Glossary"/>
    <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
  </daml:DatatypeProperty>
  <daml:ObjectProperty rdf:ID="hasDescription">
    <daml:label>Has Description</daml:label>
    <daml:domain rdf:resource="#Glossary"/>
    <daml:range rdf:resource="#Description"/>
    <daml:inverseOf rdf:resource="#descriptionFor"/>
  </daml:ObjectProperty>
  <daml:ObjectProperty rdf:ID="hasTermEntry">
    <daml:label>Has Term Entry</daml:label>
    <daml:domain rdf:resource="#Glossary"/>
    <daml:range rdf:resource="#TermEntry"/>
    <daml:inverseOf rdf:resource="#termEntryFor"/>
  </daml:ObjectProperty>
  <!-- ===== -->
  <!-- == Entry...Class, Property Definitions, and Subclasses -->

```

```

<!-- ===== -->
<daml:Class rdf:ID="TermEntry">
  <daml:label>Term Entry</daml:label>
  <daml:comment>Entry will contain descriptive and administrative data
and be made up of one or more terms for a complete terminological
entry</daml:comment>
  <daml:subClassOf>
    <daml:Restriction daml:cardinality="1">
      <daml:onProperty rdf:resource="#hasMainTerm"/>
    </daml:Restriction>
  </daml:subClassOf>
</daml:Class>
<daml:ObjectProperty rdf:ID="termEntryFor">
  <daml:label>Term Entry For</daml:label>
  <daml:domain rdf:resource="#TermEntry"/>
  <daml:range rdf:resource="#Glossary"/>
  <daml:inverseOf rdf:resource="#hasTermEntry"/>
</daml:ObjectProperty>
<daml:ObjectProperty rdf:about="#hasDescription">
  <daml:domain rdf:resource="#TermEntry"/>
  <daml:range rdf:resource="#Description"/>
</daml:ObjectProperty>
<daml:ObjectProperty rdf:ID="hasTerm">
  <daml:label>Has Term</daml:label>
  <daml:domain rdf:resource="#TermEntry"/>
  <daml:range rdf:resource="#Term"/>
  <daml:inverseOf rdf:resource="#termFor"/>
</daml:ObjectProperty>
<daml:ObjectProperty rdf:ID="hasMainTerm">
  <daml:label>Has Main Term</daml:label>
  <daml:comment>Chosen to head a terminological entry. Only one main
term per TermEntry allowed</daml:comment>
  <daml:domain rdf:resource="#TermEntry"/>
  <daml:range rdf:resource="#Term"/>
  <daml:inverseOf rdf:resource="#mainTermFor"/>
</daml:ObjectProperty>
<daml:ObjectProperty rdf:ID="hasHeadTerm">
  <daml:samePropertyAs rdf:resource="#hasMainTerm"/>
</daml:ObjectProperty>
<!-- ===== -->
<!-- == Term...Class and Property Definitions -->
<!-- ===== -->
<daml:Class rdf:ID="Term">
  <daml:label>Term</daml:label>
  <daml:comment>Term class will contain a Term Name and associated
descriptive and administrative data</daml:comment>
</daml:Class>
<daml:ObjectProperty rdf:ID="termFor">
  <daml:label>Term For</daml:label>
  <daml:domain rdf:resource="#Term"/>
  <daml:range rdf:resource="#TermEntry"/>
  <daml:inverseOf rdf:resource="#hasTerm"/>
</daml:ObjectProperty>
<daml:ObjectProperty rdf:about="#hasDescription">
  <daml:domain rdf:resource="#Term"/>
  <daml:range rdf:resource="#Description"/>
</daml:ObjectProperty>

```

```

<daml:DatatypeProperty rdf:about="name">
  <daml:domain rdf:resource="#Term"/>
</daml:DatatypeProperty>
<daml:ObjectProperty rdf:ID="mainTermFor">
  <daml:label>Main Term For</daml:label>
  <daml:comment>Chosen to head a terminological entry. Only one main
term per TermEntry allowed</daml:comment>
  <daml:domain rdf:resource="#Term"/>
  <daml:range rdf:resource="#TermEntry"/>
  <daml:inverseOf rdf:resource="#hasMainTerm"/>
</daml:ObjectProperty>
<daml:ObjectProperty rdf:ID="headTermFor">
  <daml:samePropertyAs rdf:resource="#mainTermFor"/>
</daml:ObjectProperty>
<daml:ObjectProperty rdf:ID="synonymFor">
  <daml:label>Synonym For</daml:label>
  <daml:comment>Any term that represents that same or a very similar
concept as the referenced term entry</daml:comment>
  <daml:domain rdf:resource="#Term"/>
  <daml:range rdf:resource="#Term"/>
  <daml:inverseOf rdf:resource="#hasSynonym"/>
</daml:ObjectProperty>
<daml:ObjectProperty rdf:ID="hasSynonym">
  <daml:label>Has Synonym</daml:label>
  <daml:comment>Any term that represents that same or a very similar
concept as the referenced term entry</daml:comment>
  <daml:domain rdf:resource="#Term"/>
  <daml:range rdf:resource="#Term"/>
  <daml:inverseOf rdf:resource="#synonymFor"/>
</daml:ObjectProperty>
<daml:ObjectProperty rdf:ID="quasiSynonymFor">
  <daml:label>Quasi Synonym For</daml:label>
  <daml:comment>A term that represents the same or a very similar
concept as another term in the same language, but for which interchnageability
is limited to some contexts and inapplicablein others</daml:comment>
  <daml:domain rdf:resource="#Term"/>
  <daml:range rdf:resource="#Term"/>
  <daml:inverseOf rdf:resource="#hasQuasiSynonym"/>
</daml:ObjectProperty>
<daml:ObjectProperty rdf:ID="nearSynonymFor">
  <daml:samePropertyAs rdf:resource="#quasiSynonymFor"/>
</daml:ObjectProperty>
<daml:ObjectProperty rdf:ID="hasQuasiSynonym">
  <daml:label>Has Quasi Synonym</daml:label>
  <daml:comment>A term that represents the same or a very similar
concept as another term in the same language, but for which interchnageability
is limited to some contexts and inapplicablein others</daml:comment>
  <daml:domain rdf:resource="#Term"/>
  <daml:range rdf:resource="#Term"/>
  <daml:inverseOf rdf:resource="#quasiSynonymFor"/>
</daml:ObjectProperty>
<daml:ObjectProperty rdf:ID="hasNearSynonym">
  <daml:samePropertyAs rdf:resource="#hasQuasiSynonym"/>
</daml:ObjectProperty>
<daml:ObjectProperty rdf:ID="commonNameFor">
  <daml:label>Common Name For</daml:label>

```

```

        <daml:comment>A synonym for an international scientific term that is
used in general discourse in a given language</daml:comment>
        <daml:domain rdf:resource="#Term"/>
        <daml:range rdf:resource="#Term"/>
        <daml:inverseOf rdf:resource="#hasCommonName"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="hasCommonName">
        <daml:label>Has Common Name</daml:label>
        <daml:comment>A synonym for an international scientific term that is
used in general discourse in a given language</daml:comment>
        <daml:domain rdf:resource="#Term"/>
        <daml:range rdf:resource="#Term"/>
        <daml:inverseOf rdf:resource="#commonNameFor"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="fullFormFor">
        <daml:label>Full Form For</daml:label>
        <daml:comment>The complete representation of a term for which there
is an abbreviated form</daml:comment>
        <daml:domain rdf:resource="#Term"/>
        <daml:range rdf:resource="#Term"/>
        <daml:inverseOf rdf:resource="#hasFullForm"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="expandedFormFor">
        <daml:samePropertyAs rdf:resource="#fullFormFor"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="expansionFor">
        <daml:samePropertyAs rdf:resource="#fullFormFor"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="hasFullForm">
        <daml:label>Has Full Form</daml:label>
        <daml:comment>The complete representation of a term for which there
is an abbreviated form</daml:comment>
        <daml:domain rdf:resource="#Term"/>
        <daml:range rdf:resource="#Term"/>
        <daml:inverseOf rdf:resource="#fullFormFor"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="hasExpandedForm">
        <daml:samePropertyAs rdf:resource="#hasFullForm"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="hasExpansion">
        <daml:samePropertyAs rdf:resource="#hasFullForm"/>
    </daml:ObjectProperty>
    <daml:DatatypeProperty rdf:ID="abbreviatedForm">
        <daml:label>Abbreviated Form</daml:label>
        <daml:comment>A term resulting in the omission of any part of the
full term while designating the same concept</daml:comment>
        <daml:domain rdf:resource="#Term"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="abbreviation">
        <daml:label>Abbreviation</daml:label>
        <daml:comment>An abbreviated form of a simple term resulting from
the omission of some of its letters</daml:comment>
        <daml:domain rdf:resource="#Term"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>

```



```

        <daml:subPropertyOf rdf:resource="#abbreviatedForm"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="shortForm">
        <daml:label>Short Form</daml:label>
        <daml:comment>A variant of a multiword term that includes fewer words
than the full form of the term</daml:comment>
        <daml:domain rdf:resource="#Term"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        <daml:subPropertyOf rdf:resource="#abbreviatedForm"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="initialism">
        <daml:label>Initialism</daml:label>
        <daml:comment>An abbreviated form of a term consisting of some of
the initial letters of the words making up a multiword term of the term elements
making up a compound term when these letters are pronounced
individually</daml:comment>
        <daml:domain rdf:resource="#Term"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        <daml:subPropertyOf rdf:resource="#abbreviatedForm"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="acronym">
        <daml:label>Acronym</daml:label>
        <daml:comment>An abbreviated form of a term made up of letters from
the full form of a multiword term strung together into a sequence pronounced
only syllabically</daml:comment>
        <daml:domain rdf:resource="#Term"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        <daml:subPropertyOf rdf:resource="#abbreviatedForm"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="clippedTerm">
        <daml:label>Clipped Term</daml:label>
        <daml:comment>An abbreviated form of a term resulting from the
omission of one or more term elements or syllables</daml:comment>
        <daml:domain rdf:resource="#Term"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        <daml:subPropertyOf rdf:resource="#abbreviatedForm"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="truncatedTerm">
        <daml:samePropertyAs rdf:resource="#clippedTerm"/>
    </daml:DatatypeProperty>
    <daml:ObjectProperty rdf:ID="variantFor">
        <daml:label>Variant For</daml:label>
        <daml:comment>One of the alternate forms of a term</daml:comment>
        <daml:domain rdf:resource="#Term"/>
        <daml:range rdf:resource="#Term"/>
        <daml:inverseOf rdf:resource="#hasVariant"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="hasVariant">
        <daml:label>Has Variant</daml:label>
        <daml:comment>One of the alternate forms of a term</daml:comment>
        <daml:domain rdf:resource="#Term"/>
        <daml:range rdf:resource="#Term"/>
        <daml:inverseOf rdf:resource="#variantFor"/>

```

```

    </daml:ObjectProperty>
    <daml:DatatypeProperty rdf:ID="symbol">
      <daml:label>Symbol</daml:label>
      <daml:comment>A designation of a concept by letters, numerals,
pictograms or any combination thereof</daml:comment>
      <daml:domain rdf:resource="#Term"/>
      <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="formula">
      <daml:label>Formula</daml:label>
      <daml:comment>Figures, symbols of the like used to express a concept
briefly, such as a mathematical or chemical formula</daml:comment>
      <daml:domain rdf:resource="#Term"/>
      <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="equation">
      <daml:label>Equation</daml:label>
      <daml:comment>An expression used to represent a concept based on a
statment that two mathematical exreesions are, for instance, equal as
identified by the equal sign, of assigned to one another by a similar
sign</daml:comment>
      <daml:domain rdf:resource="#Term"/>
      <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="logicalExpression">
      <daml:label>Logical Expression</daml:label>
      <daml:comment>An expression used to represent a concept based on
mathematical or logical relations, such as statements of inequality, set
relationships, boolean operations, and the like</daml:comment>
      <daml:domain rdf:resource="#Term"/>
      <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="grammar">
      <daml:label>Grammar</daml:label>
      <daml:comment>Grammatical information about a term</daml:comment>
      <daml:domain rdf:resource="#Term"/>
      <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="partOfSpeech">
      <daml:label>Part Of Speech</daml:label>
      <daml:comment>A category assigned to a word based on its grammatical
and semantic properties. Examples of parts of speech commonly documented in
terminology databases can include: noun, verb, adjective</daml:comment>
      <daml:domain rdf:resource="#Term"/>
      <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
      <daml:subPropertyOf rdf:resource="#grammar"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="grammaticalCategory">
      <daml:samePropertyAs rdf:resource="#partOfSpeech"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="wordCategoryFor">

```

```

        <daml:samePropertyAs rdf:resource="#partOfSpeech"/>
    </daml:DatatypeProperty>
    <!-- ===== -->
    <!-- == Description...Class and Property Definitions -->
    <!-- ===== -->
    <daml:Class rdf:ID="Description">
        <daml:label>Description</daml:label>
        <daml:comment>Descriptive Data Class</daml:comment>
    </daml:Class>
    <daml:ObjectProperty rdf:ID="descriptionFor">
        <daml:label>Description For</daml:label>
        <daml:domain rdf:resource="#Description"/>
        <daml:range rdf:resource="#Glossary"/>
        <daml:range rdf:resource="#TermEntry"/>
        <daml:range rdf:resource="#Term"/>
        <daml:inverseOf rdf:resource="#hasDescription"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="hasAdministration">
        <daml:label>Has Administration</daml:label>
        <daml:domain rdf:resource="#Description"/>
        <daml:range rdf:resource="#Administration"/>
        <daml:inverseOf rdf:resource="#administrationFor"/>
    </daml:ObjectProperty>
    <!-- ===== -->
    <!-- Subject Field...SubProperties -->
    <!-- ===== -->
    <daml:DatatypeProperty rdf:ID="subjectField">
        <daml:label>Subject Field</daml:label>
        <daml:comment>An area of human knowledge to which a terminological
record is assigned</daml:comment>
        <daml:domain rdf:resource="#Description"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="domain">
        <daml:samePropertyAs rdf:resource="#subjectField"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="subjectLabel">
        <daml:samePropertyAs rdf:resource="#subjectField"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="classificationSystem">
        <daml:label>Classification System</daml:label>
        <daml:comment>The arrangement of concepts into classes and their
subdivisions to express the relations among them</daml:comment>
        <daml:subPropertyOf rdf:resource="#subjectField"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="classificationNumber">
        <daml:label>Classification Number</daml:label>
        <daml:comment>A set of symbols, with rules for their application,
used to represent classes and their interrelations</daml:comment>
        <daml:subPropertyOf rdf:resource="#subjectField"/>
    </daml:DatatypeProperty>
    <!-- ===== -->
    <!-- Definition...SubProperties -->
    <!-- ===== -->
    <daml:DatatypeProperty rdf:ID="definition">
        <daml:label>Definition</daml:label>

```

```

        <daml:comment>A statement that describes a concept and permits its
differentiation from other concepts within a system of concepts</daml:comment>
        <daml:domain rdf:resource="#Description"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>
        <daml:DatatypeProperty rdf:ID="intensionalDefinition">
        <daml:label>Intensional Definition</daml:label>
        <daml:comment>A definition that identifies the concept's nearest
superordinate concept and the characteristics that differentiate the given
concept from coordinate concepts</daml:comment>
        <daml:subPropertyOf rdf:resource="#definition"/>
        </daml:DatatypeProperty>
        <daml:DatatypeProperty rdf:ID="extensionalDefinition">
        <daml:label>Extensional Definition</daml:label>
        <daml:comment>A definition based on the enumeration of the concepts
that refer to the main parts of an object covered by a superordinate concept in
a partitive relation</daml:comment>
        <daml:subPropertyOf rdf:resource="#definition"/>
        </daml:DatatypeProperty>
        <daml:DatatypeProperty rdf:ID="partitiveDefinition">
        <daml:label>Partitive Definition</daml:label>
        <daml:comment>A definition based on the enumeration of the concepts
that refer to the main parts of an object covered by a superordinate concept in
a partitive relation</daml:comment>
        <daml:subPropertyOf rdf:resource="#definition"/>
        </daml:DatatypeProperty>
        <daml:DatatypeProperty rdf:ID="explanation">
        <daml:label>Explanation</daml:label>
        <daml:comment>A statement that describes and clarifies a concept and
makes it understandable, but does not necessarily differentiate it from other
concepts</daml:comment>
        <daml:domain rdf:resource="#Description"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>
        <!-- ===== -->
        <!-- Context...SubProperties -->
        <!-- ===== -->
        <daml:DatatypeProperty rdf:ID="context">
        <daml:label>Context</daml:label>
        <daml:comment>A text or part of a text in which a term
occurs</daml:comment>
        <daml:domain rdf:resource="#Description"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>
        <daml:DatatypeProperty rdf:ID="definingContext">
        <daml:label>Defining Context</daml:label>
        <daml:comment>A context that contains substantial information about
a concept, but that does not possess the formal rigor of a
definition</daml:comment>
        <daml:subPropertyOf rdf:resource="#context"/>
        </daml:DatatypeProperty>
        <daml:DatatypeProperty rdf:ID="explanatoryContext">
        <daml:label>Explanatory Context</daml:label>

```

```

        <daml:comment>A context that provides a summary explanation of a
concept</daml:comment>
        <daml:subPropertyOf rdf:resource="#context"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="associativeContext">
        <daml:label>Associative Context</daml:label>
        <daml:comment>A context that contains the minimum amount of
conceptual information needed to associate a concept to a particular concept
field</daml:comment>
        <daml:subPropertyOf rdf:resource="#context"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="linguisticContext">
        <daml:label>Linguistic Context</daml:label>
        <daml:comment>Context that illustrates the function of a term in
discourse, but that provides no conceptual information</daml:comment>
        <daml:subPropertyOf rdf:resource="#context"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="metaLinguisticContext">
        <daml:label>Meta Linguistic Context</daml:label>
        <daml:comment>Context consisting of a discourse about the term as a
sign in such a way that the term is used in an autonomous way</daml:comment>
        <daml:subPropertyOf rdf:resource="#context"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="example">
        <daml:label>Example</daml:label>
        <daml:comment>Descriptive material that provides a sample of the
object or entity defined in the entry</daml:comment>
        <daml:domain rdf:resource="#Description"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <!-- ===== -->
    <!-- == Administration...Class and Property Definitions -->
    <!-- ===== -->
    <daml:Class rdf:ID="Administration">
        <daml:label>Administration</daml:label>
        <daml:comment>Administrative Data Class</daml:comment>
    </daml:Class>
    <daml:ObjectProperty rdf:ID="administrationFor">
        <daml:label>Administration For</daml:label>
        <daml:domain rdf:resource="#Administration"/>
        <daml:range rdf:resource="#Description"/>
        <daml:inverseOf rdf:resource="#hasAdministration"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty
rdf:about="http://orlando.drc.com/dam1/Ontology/Bibliographic/3.1/Bibliographic-
ont#sourceFor">
        <daml:range rdf:resource="#Administration"/>
        <daml:inverseOf rdf:resource="#hasSource"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="hasSource">
        <daml:label>Has Source</daml:label>
        <daml:comment>A complete citation of the bibliographic information
pertaining to a document or other resource</daml:comment>
        <daml:domain rdf:resource="#Administration"/>

```

```

        <daml:range
rdf:resource="http://orlando.drc.com/daml/Ontology/Bibliographic/3.1/Bibliograph
ic-ont#Bibliographic"/>
        <daml:inverseOf
rdf:resource="http://orlando.drc.com/daml/Ontology/Bibliographic/3.1/Bibliograph
ic-ont#sourceFor"/>
        </daml:ObjectProperty>
        <daml:ObjectProperty rdf:ID="hasReference">
            <daml:label>Has Reference</daml:label>
            <daml:samePropertyAs rdf:resource="#hasSource"/>
            <daml:inverseOf
rdf:resource="http://orlando.drc.com/daml/Ontology/Bibliographic/3.1/Bibliograph
ic-ont#referenceFor"/>
            </daml:ObjectProperty>
            <daml:ObjectProperty rdf:ID="hasBibliographicEntry">
                <daml:samePropertyAs rdf:resource="#hasSource"/>
                <daml:inverseOf
rdf:resource="http://orlando.drc.com/daml/Ontology/Bibliographic/3.1/Bibliograph
ic-ont#bibliographicEntryFor"/>
                </daml:ObjectProperty>
                <!-- ===== -->
                <!-- Date...SubProperties -->
                <!-- ===== -->
                <daml:DatatypeProperty rdf:ID="date">
                    <daml:label>Date</daml:label>
                    <daml:comment>The point of time at which a transaction or event
takes place</daml:comment>
                    <daml:samePropertyAs
rdf:resource="http://orlando.drc.com/daml/ontology/DC/3.1/dces-ont#date"/>
                    <daml:domain rdf:resource="#Administration"/>
                </daml:DatatypeProperty>
                <daml:DatatypeProperty rdf:ID="originationDate">
                    <daml:label>Origination Date</daml:label>
                    <daml:comment>The date on which an element (field, record, entry,
etc.) is created</daml:comment>
                    <daml:subPropertyOf rdf:resource="#date"/>
                </daml:DatatypeProperty>
                <daml:DatatypeProperty rdf:ID="inputDate">
                    <daml:label>Input Date</daml:label>
                    <daml:comment>The date on which an element (field, record, entry,
etc.) is input into a data collection</daml:comment>
                    <daml:subPropertyOf rdf:resource="#date"/>
                </daml:DatatypeProperty>
                <daml:DatatypeProperty rdf:ID="modificationDate">
                    <daml:label>Modification Date</daml:label>
                    <daml:comment>The date when a field, record, etc. is edited or
otherwise modified</daml:comment>
                    <daml:subPropertyOf rdf:resource="#date"/>
                </daml:DatatypeProperty>
                <daml:DatatypeProperty rdf:ID="checkDate">
                    <daml:label>Check Date</daml:label>
                    <daml:comment>The date when a field, record, etc. is
checked</daml:comment>
                    <daml:subPropertyOf rdf:resource="#date"/>
                </daml:DatatypeProperty>
                <daml:DatatypeProperty rdf:ID="approvalDate">
                    <daml:label>Approval Date</daml:label>

```

```

        <daml:comment>The date when a record, entry, etc. is approved or
declared a consolidated item</daml:comment>
        <daml:subPropertyOf rdf:resource="#date"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="withdrawalDate">
        <daml:label>Withdrawal Date</daml:label>
        <daml:comment>The date when a record or entry is removed from an
active data collection and placed in an archive file</daml:comment>
        <daml:subPropertyOf rdf:resource="#date"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="standardizationDate">
        <daml:label>Standardization Date</daml:label>
        <daml:comment>The date when a term is introduced as a normative term
based on final approval by an authoritative body</daml:comment>
        <daml:subPropertyOf rdf:resource="#date"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="exportationDate">
        <daml:label>Exportation Date</daml:label>
        <daml:comment>The date when a terminological entry is exported from
a database to another database or to an interchange format</daml:comment>
        <daml:subPropertyOf rdf:resource="#date"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="importationDate">
        <daml:label>Importation Date</daml:label>
        <daml:comment>The date when a terminological entry is imported into
a database</daml:comment>
        <daml:subPropertyOf rdf:resource="#date"/>
    </daml:DatatypeProperty>
    <!-- ===== -->
    <!-- Responsibility SubProperties -->
    <!-- ===== -->
    <daml:DatatypeProperty rdf:ID="responsibility">
        <daml:label>Responsibility</daml:label>
        <daml:comment>Identifies the individual associated with a
terminology management transaction</daml:comment>
        <daml:domain rdf:resource="#Administration"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="originator">
        <daml:label>Originator</daml:label>
        <daml:comment>An identifier assigned to the individual creating a
field, record, etc.</daml:comment>
        <daml:subPropertyOf rdf:resource="#responsibility"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="inputter">
        <daml:label>Inputter</daml:label>
        <daml:comment>An identifier assigned to the individual inputting a
field, or record, etc. if this varies from the originator</daml:comment>
        <daml:subPropertyOf rdf:resource="#responsibility"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="updater">
        <daml:label>Updater</daml:label>
        <daml:comment>An identifier assigned to the individual editing or
otherwise modifying a field or record</daml:comment>
        <daml:subPropertyOf rdf:resource="#responsibility"/>
    </daml:DatatypeProperty>

```

```

    <daml:DatatypeProperty rdf:ID="checker">
      <daml:label>Checker</daml:label>
      <daml:comment>An identifier assigned to the individual checking a
field or record</daml:comment>
      <daml:subPropertyOf rdf:resource="#responsibility"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="approver">
      <daml:label>Approver</daml:label>
      <daml:comment>An identifier assigned to the individual approving a
consolidated or definitive field or record</daml:comment>
      <daml:subPropertyOf rdf:resource="#responsibility"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="user">
      <daml:label>User</daml:label>
      <daml:comment>An identifier assigned to the specific user-audience
of a terminological entry</daml:comment>
      <daml:subPropertyOf rdf:resource="#responsibility"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="withdrawer">
      <daml:label>Withdrawer</daml:label>
      <daml:comment>An identifier assigned to the individual responsible
for withdrawing a terminological entry from the main terminology
collection</daml:comment>
      <daml:subPropertyOf rdf:resource="#responsibility"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="exporter">
      <daml:label>Exporter</daml:label>
      <daml:comment>An identifier assigned to the individual responsible
for exporting a terminological entry from a terminology database</daml:comment>
      <daml:subPropertyOf rdf:resource="#responsibility"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="importer">
      <daml:label>Importer</daml:label>
      <daml:comment>An identifier assigned to the individual responsible
for importing a terminological entry into a terminology database</daml:comment>
      <daml:subPropertyOf rdf:resource="#responsibility"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="subsetOwner">
      <daml:label>Subset Owner</daml:label>
      <daml:comment>An identifier assigned to the specific individual
responsible for administering a subset of terminological records</daml:comment>
      <daml:subPropertyOf rdf:resource="#responsibility"/>
    </daml:DatatypeProperty>
    <!-- ===== -->
    <!-- Subset Identifier SubProperties -->
    <!-- ===== -->
    <daml:DatatypeProperty rdf:ID="subset">
      <daml:label>Subset</daml:label>
      <daml:comment>Any sub-group of terms within a database identified as
having a property in common with other members of the sub-group, such as being
administered by a single user or used for a specified application</daml:comment>
      <daml:domain rdf:resource="#Administration"/>
      <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="customerSubset">
      <daml:label>Customer Subset</daml:label>

```



```

        <daml:comment>An identifier assigned to a terminological record
indicating that it is associated with a specific customer</daml:comment>
        <daml:subPropertyOf rdf:resource="#subset"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="initialCustomerSubset">
        <daml:label>Initial Customer Subset</daml:label>
        <daml:comment>An identifier assigned to a terminological record
indicating that it is associated with a specific initial customer</daml:comment>
        <daml:subPropertyOf rdf:resource="#subset"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="projectSubset">
        <daml:label>Project Subset</daml:label>
        <daml:comment>An identifier assigned to a specific project
indicating that it is associated with a term, record or entry</daml:comment>
        <daml:subPropertyOf rdf:resource="#subset"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="initialProjectSubset">
        <daml:label>Initial Project Subset</daml:label>
        <daml:comment>An identifier assigned to a specific initial project
with which a term, record or entry is associated</daml:comment>
        <daml:subPropertyOf rdf:resource="#subset"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="productSubset">
        <daml:label>Product Subset</daml:label>
        <daml:comment>An identifier assigned to a product to which a term is
related</daml:comment>
        <daml:subPropertyOf rdf:resource="#subset"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="applicationSubset">
        <daml:label>Application Subset</daml:label>
        <daml:comment>An identifier assigned to a terminology entry
associated with a specific application</daml:comment>
        <daml:subPropertyOf rdf:resource="#subset"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="environmentSubset">
        <daml:label>Environment Subset</daml:label>
        <daml:comment>An identifier assigned to a terminology entry
indicating its association with a specific computer environment</daml:comment>
        <daml:subPropertyOf rdf:resource="#subset"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="businessUnitSubset">
        <daml:label>Business Unit Subset</daml:label>
        <daml:comment>An identifier assigned to a term or terminological
record indicating its association with a specific department, division, or other
unit of an enterprise</daml:comment>
        <daml:subPropertyOf rdf:resource="#subset"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="securitySubset">
        <daml:label>Security Subset</daml:label>
        <daml:comment>An in-house security classification of a
term</daml:comment>
        <daml:subPropertyOf rdf:resource="#subset"/>
    </daml:DatatypeProperty>
    <!-- ===== -->
    <!-- Other Administrative Data Subproperties -->
    <!-- ===== -->
    <daml:DatatypeProperty rdf:ID="workingStatus">

```

```

        <daml:label>Working Status</daml:label>
        <daml:comment>A code indicating the level of completeness and
accuracy of an element (field, record, entry) within a terminological
collection</daml:comment>
        <daml:domain rdf:resource="#Administration"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>
        <daml:DatatypeProperty rdf:ID="targetDatabase">
        <daml:label>Target Database</daml:label>
        <daml:comment>A database or format to which data are
exported</daml:comment>
        <daml:domain rdf:resource="#Administration"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>
        <daml:DatatypeProperty rdf:ID="entrySource">
        <daml:label>Entry Source</daml:label>
        <daml:comment>A database or format from which data are
imported</daml:comment>
        <daml:domain rdf:resource="#Administration"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>
        <daml:DatatypeProperty rdf:ID="recordIdentifier">
        <daml:label>Record Identifier</daml:label>
        <daml:comment>A separate record identifier can be necessary in cases
where several physical records are linked to form a virtual entry</daml:comment>
        <daml:domain rdf:resource="#Administration"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>
        <daml:DatatypeProperty rdf:ID="fileIdentifier">
        <daml:label>File Identifier</daml:label>
        <daml:comment>File identifiers become valuable when data from
several files are merged or when aggregate files are split into subsets during
data exportation and importation</daml:comment>
        <daml:domain rdf:resource="#Administration"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>
        <daml:ObjectProperty rdf:ID="hasCrossReference">
        <daml:label>Has Cross Reference</daml:label>
        <daml:comment>A pointer field used in a data collection to direct
the user to another related location</daml:comment>
        <daml:domain rdf:resource="#Administration"/>
        <daml:range rdf:resource="#Term"/>
        </daml:ObjectProperty>
        <daml:ObjectProperty rdf:ID="see">
        <daml:label>See</daml:label>
        <daml:comment>A pointer field used in a terminology collection as a
direction from one location that does not contain information to the location(s)
where information can be found</daml:comment>
        <daml:domain rdf:resource="#Administration"/>
        <daml:range rdf:resource="#Term"/>
        <daml:subPropertyOf rdf:resource="#hasCrossReference"/>
        </daml:ObjectProperty>

```

```

    <daml:ObjectProperty rdf:ID="seeAlso">
      <daml:label>See Also</daml:label>
      <daml:comment>A pointer field used in a terminology collection as a
direction from one location that contains information to one or more other
locations where related information will be found</daml:comment>
      <daml:domain rdf:resource="#Administration"/>
      <daml:range rdf:resource="#Term"/>
      <daml:subPropertyOf rdf:resource="#hasCrossReference"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="hasInvertedTerm">
      <daml:label>Has Inverted Term</daml:label>
      <daml:comment>A multiword string that has been rearranged to create
a new entry so that a desired keyword appearing at the end of the string appears
first for the purpose of alphabetization</daml:comment>
      <daml:domain rdf:resource="#Administration"/>
      <daml:range rdf:resource="#Term"/>
      <daml:subPropertyOf rdf:resource="#hasCrossReference"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="hasPermutedTerm">
      <daml:label>Has Permuted Term</daml:label>
      <daml:comment>A multiword string that has been rearranged so that
desired keywords embedded in the term appear first for the purpose of
alphabetization</daml:comment>
      <daml:domain rdf:resource="#Administration"/>
      <daml:range rdf:resource="#Term"/>
      <daml:subPropertyOf rdf:resource="#hasCrossReference"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="hasHomograph">
      <daml:label>Has Homograph</daml:label>
      <daml:comment>A word that is spelled like another, but that has a
different pronunciation, meaning, and origin</daml:comment>
      <daml:domain rdf:resource="#Administration"/>
      <daml:range rdf:resource="#Term"/>
      <daml:subPropertyOf rdf:resource="#hasCrossReference"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="hasAntonym">
      <daml:label>Has Antonym</daml:label>
      <daml:comment>A term whose concept constitutes the opposite of the
concept represented by a second term</daml:comment>
      <daml:domain rdf:resource="#Administration"/>
      <daml:range rdf:resource="#Term"/>
      <daml:subPropertyOf rdf:resource="#hasCrossReference"/>
    </daml:ObjectProperty>
    <daml:DatatypeProperty rdf:ID="namespaceIdentifier">
      <daml:label>Namespace Identifier</daml:label>
      <daml:comment>Identifier used to retrieve documents and resources on
the World Wide Web</daml:comment>
      <daml:domain rdf:resource="#Administration"/>
      <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="url">
      <daml:label>URL</daml:label>
      <daml:comment>The unique address for a page on the World Wide
Web</daml:comment>
      <daml:domain rdf:resource="#Administration"/>

```

```

        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        <daml:subPropertyOf rdf:resource="#namespaceIdentifier"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="uniformResourceLocator">
        <daml:label>Uniform Resource Locator</daml:label>
        <daml:samePropertyAs rdf:resource="#url"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="fpi">
        <daml:label>FPI</daml:label>
        <daml:comment>The unique identifier for a representative of a given
document in the World Wide Web environment</daml:comment>
        <daml:domain rdf:resource="#Administration"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        <daml:subPropertyOf rdf:resource="#namespaceIdentifier"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="formalPublicIdentifier">
        <daml:label>Formal Public Identifier</daml:label>
        <daml:samePropertyAs rdf:resource="#fpi"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="originatingEntity">
        <daml:label>Originatin Entity</daml:label>
        <daml:comment>A person, an institution, a company, etc., that serves
as the origin of information in lieu of a document</daml:comment>
        <daml:domain rdf:resource="#Administration"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="originatingPerson">
        <daml:label>Originatin Person</daml:label>
        <daml:comment>An individual treated as a source of information for
the purpose of bibliographic documentation</daml:comment>
        <daml:domain rdf:resource="#Administration"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="expert">
        <daml:label>Expert</daml:label>
        <daml:samePropertyAs rdf:resource="#originatingPerson"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="specialist">
        <daml:label>Specialist</daml:label>
        <daml:samePropertyAs rdf:resource="#originatingPerson"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="originatingInstitution">
        <daml:label>Originatin Institution</daml:label>
        <daml:comment>An institution (i.e., company, government agency,
etc.) treated as a source of information for the purpose of bibliographic
documentation</daml:comment>
        <daml:domain rdf:resource="#Administration"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="originatingDatabase">
        <daml:label>Originatin Database</daml:label>

```

```
      <daml:comment>A database treated as as document for the purpose of  
bibliographic documentation</daml:comment>  
      <daml:domain rdf:resource="#Administration"/>  
      <daml:range  
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>  
    </daml:DatatypeProperty>  
</rdf:RDF>
```

Appendix K: GPS Ontology

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
xmlns:owl="http://www.w3.org/2002/07/owl#"
xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
xmlns:dc="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#"
xmlns:vls="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VLS/ver/0.1.0/drc-
vls-ont#"
xmlns:ves="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#"
xmlns:geo="http://orlando.drc.com/SemanticWeb/OWL/Ontology/GeoSpatialCoordinates
/ver/0.1.0/GeoSpatialCoordinates-ont#"
xmlns="http://orlando.drc.com/SemanticWeb/OWL/Ontology/GeoSpatialCoordinates/ver
/0.1.0/GeoSpatialCoordinates-ont#">
  <!-- GeoSpatialCoordinates Ontology -->
  <owl:Ontology rdf:about="">
    <ves:versioning>
      <ves:VersionData>
        <dc:title>GeoSpatial Coordinates Ontology</dc:title>
        <ves:version>0.1.0</ves:version>
        <ves:email>TeamXML@drc.com</ves:email>
        <dc:creator>DRC</dc:creator>
        <ves:releaseDate>2003-07-11</ves:releaseDate>
        <ves:releaseLevel>beta</ves:releaseLevel>
        <ves:status>current</ves:status>
      </ves:VersionData>
    </ves:versioning>
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont"/>
      <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VLS/ver/0.1.0/drc-
vls-ont"/>
      <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/dc/ver/0.1.0/dces-
ont"/>
      <rdfs:comment>This is an ontology to capture the most popular
coordinate systems used by GPS</rdfs:comment>
    </owl:Ontology>
  <!--
*****
***** -->
  <!-- *** GPSCoordinates Class *** -->
  <owl:Class rdf:ID="GPSCoordinates">
    <rdfs:label>GPS Coordinates</rdfs:label>
    <!-- *** locationName Restrictions *** -->
    <rdfs:subClassOf>
      <owl:Restriction owl:maxCardinality="1">
        <owl:onProperty rdf:resource="#locationName"/>
      </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
      <owl:Restriction>
        <owl:onProperty rdf:resource="#locationName"/>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>

```

```

        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- *** elevation Restrictions *** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:maxCardinality="1">
            <owl:onProperty rdf:resource="#elevation"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#elevation"/>
            <owl:allValuesFrom rdf:resource="#Elevation"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<!--
*****
***** -->
    <!-- *** Degrees Minutes Seconds (DMS) Coordinates Class *** -->
    <owl:Class rdf:ID="DMSCoordinates">
        <rdfs:label>Degrees Minutes Seconds (DMS) Coordinates</rdfs:label>
        <rdfs:subClassOf rdf:resource="#GPSCoordinates"/>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#hasDMSCoordinates"/>
                <owl:allValuesFrom rdf:resource="#DMSCoordinates"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <!-- *** latitude Restrictions *** -->
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#latitude"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#latitude"/>
                <owl:allValuesFrom rdf:resource="#DMSLatitude"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <!-- *** longitude Restrictions *** -->
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#longitude"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#longitude"/>
                <owl:allValuesFrom rdf:resource="#DMSLongitude"/>
            </owl:Restriction>
        </rdfs:subClassOf>

    </owl:Class>
    <!--
*****
***** -->

```



```

<!-- *** Degree Decimal Minutes (DDM) Coordinates Class *** -->
<owl:Class rdf:ID="DDMCoordinates">
  <rdfs:label>Degree Decimal Minutes (DDM) Coordinates</rdfs:label>
  <rdfs:subClassOf rdf:resource="#GPSCoordinates"/>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasDDMCoordinates"/>
      <owl:allValuesFrom rdf:resource="#DDMCoordinates"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <!-- *** latitude Restrictions *** -->
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#latitude"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#latitude"/>
      <owl:allValuesFrom rdf:resource="#DDMLatitude"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <!-- *** longitude Restrictions *** -->
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#longitude"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#longitude"/>
      <owl:allValuesFrom rdf:resource="#DDMLongitude"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<!--
*****
***** -->
<!-- *** Decimal Degree (DD) Coordinates Class *** -->
<owl:Class rdf:ID="DDCoordinates">
  <rdfs:label>Decimal Degree (DD) Coordinates</rdfs:label>
  <rdfs:subClassOf rdf:resource="#GPSCoordinates"/>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasDDCoordinates"/>
      <owl:allValuesFrom rdf:resource="#DDCoordinates"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <!-- *** latitude Restrictions *** -->
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#latitude"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#latitude"/>

```

```

        <owl:allValuesFrom rdf:resource="#DDLatitude"/>
    </owl:Restriction>
</rdfs:subClassOf>
<!-- *** longitude Restrictions *** -->
<rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
        <owl:onProperty rdf:resource="#longitude"/>
    </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
    <owl:Restriction>
        <owl:onProperty rdf:resource="#longitude"/>
        <owl:allValuesFrom rdf:resource="#DDLongitude"/>
    </owl:Restriction>
</rdfs:subClassOf>
</owl:Class>
<!--
*****
***** -->
<!-- *** Universal Transverse Mercator Coordinates Class *** -->
<owl:Class rdf:ID="UTMCoordinates">
    <rdfs:label>Universal Transverse Mercator Coordinates</rdfs:label>
    <rdfs:comment>UTM zones extend from a latitude of 80° S to 84°
N</rdfs:comment>
    <rdfs:subClassOf rdf:resource="#GPSCoordinates"/>
    <!-- *** zoneNumber Restrictions *** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#zoneNumber"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#zoneNumber"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/gps/ver/0.1.0/gps-
dt#UTMZoneNumberRange"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- *** zoneCharacter Restrictions *** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:maxCardinality="1">
            <owl:onProperty rdf:resource="#zoneCharacter"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#zoneCharacter"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/gps/ver/0.1.0/gps-
dt#UTMZoneCharacter"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- *** easting Restrictions *** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#easting"/>

```

```

        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#easting"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#integer"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- *** northing Restrictions *** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#northing"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#northing"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#integer"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<!--
*****
***** -->
    <!-- *** Elevation Class *** -->
    <owl:Class rdf:ID="Elevation">
        <rdfs:label>Elevation</rdfs:label>
        <!-- *** category Restrictions *** -->
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#category"/>
            </owl:Restriction>
        </rdfs:subClassOf>

        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#category"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/gps/ver/0.1.0/gps-
dt#elevationCategory"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <!-- *** altitude Restrictions *** -->
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#altitude"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#altitude"/>
                <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#decimal"/>
            </owl:Restriction>
        </rdfs:subClassOf>

```

```

<!-- *** UOM Restrictions *** -->
<rdfs:subClassOf>
  <owl:Restriction owl:cardinality="1">
    <owl:onProperty rdf:resource="#uom"/>
  </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#uom"/>
    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/gps/ver/0.1.0/gps-
dt#unitOfMeasure"/>
  </owl:Restriction>
</rdfs:subClassOf>
</owl:Class>
<!--
*****
***** -->
<!-- *** Latitude Class *** -->
<owl:Class rdf:ID="Latitude">
  <rdfs:label>Latitude</rdfs:label>
  <rdfs:comment>The angular distance north or south of the earth's
equator, measured in degrees along a meridian, as on a map or
globe.</rdfs:comment>
  <!-- *** direction Restrictions *** -->
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#direction"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#direction"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/gps/ver/0.1.0/gps-
dt#latitudinalDirection"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<!--
*****
***** -->
<!-- *** Longitude Class *** -->
<owl:Class rdf:ID="Longitude">
  <rdfs:label>Longitude</rdfs:label>
  <rdfs:comment>The angular distance on the earth's surface, measured
east or west from the prime meridian at Greenwich, England, to the meridian
passing through a position, expressed in degrees (or hours), minutes, and
seconds.</rdfs:comment>
  <!-- *** direction Restrictions *** -->
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#direction"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>

```

```

        <owl:onProperty rdf:resource="#direction"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/gps/ver/0.1.0/gps-
dt#longitudinalDirection"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<!--
*****
***** -->
<!-- *** Degree Coordinate Class *** -->
<owl:Class rdf:ID="DegreeCoordinate">
    <rdfs:label>Degree Coordinate</rdfs:label>
    <!-- *** degrees Restrictions *** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#degrees"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- *** minutes Restrictions *** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:maxCardinality="1">
            <owl:onProperty rdf:resource="#minutes"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- *** seconds Restrictions *** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:maxCardinality="1">
            <owl:onProperty rdf:resource="#seconds"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#seconds"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/gps/ver/0.1.0/gps-
dt#decimalMinute-SecondRange"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<!--
*****
***** -->
<!-- *** DMSLatitude Class *** -->
<owl:Class rdf:ID="DMSLatitude">
    <rdfs:label>DMS Latitude</rdfs:label>

    <rdfs:subClassOf rdf:resource="#DMSCoordinate"/>
    <rdfs:subClassOf rdf:resource="#Latitude"/>
</owl:Class>
<!-- *** DMSLongitude Class *** -->
<owl:Class rdf:ID="DMSLongitude">
    <rdfs:label>DMS Longitude</rdfs:label>
    <rdfs:subClassOf rdf:resource="#DMSCoordinate"/>
    <rdfs:subClassOf rdf:resource="#Longitude"/>
</owl:Class>
<!-- *** DMSCoordinate Class *** -->

```

```

<owl:Class rdf:ID="DMSCoordinate">
  <rdfs:label>Degrees Minutes Seconds (DMS) Coordinate</rdfs:label>
  <rdfs:subClassOf rdf:resource="#DegreeCoordinate"/>
  <!-- *** degrees Restrictions *** -->
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#degrees"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/gps/ver/0.1.0/gps-
dt#integerDegreeRange"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <!-- *** minutes Restrictions *** -->
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#minutes"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#minutes"/>
      <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/gps/ver/0.1.0/gps-
dt#integerMinuteRange"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <!-- *** seconds Restrictions *** -->
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#seconds"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<!--
*****
***** -->
<!-- *** DDMLatitude Class *** -->
<owl:Class rdf:ID="DDMLatitude">
  <rdfs:label>DDM Latitude</rdfs:label>
  <rdfs:subClassOf rdf:resource="#DDMCoordinate"/>
  <rdfs:subClassOf rdf:resource="#Latitude"/>
</owl:Class>
<!-- *** DDMLongitude Class *** -->
<owl:Class rdf:ID="DDMLongitude">
  <rdfs:label>DDM Longitude</rdfs:label>
  <rdfs:subClassOf rdf:resource="#DDMCoordinate"/>
  <rdfs:subClassOf rdf:resource="#Longitude"/>
</owl:Class>
<!-- *** DDMCoordinate Class *** -->
<owl:Class rdf:ID="DDMCoordinate">
  <rdfs:label>Degree Decimal Minutes (DDM) Coordinate</rdfs:label>
  <rdfs:subClassOf rdf:resource="#DegreeCoordinate"/>
  <!-- *** degrees Restrictions *** -->
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#degrees"/>

```

```

        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/gps/ver/0.1.0/gps-
dt#integerDegreeRange"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- *** minutes Restrictions *** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#minutes"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#minutes"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/gps/ver/0.1.0/gps-
dt#decimalMinute-SecondRange"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- *** seconds Restrictions *** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="0">
            <owl:onProperty rdf:resource="#seconds"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<!--
*****
***** -->
    <!-- *** DDLatitude Class *** -->
    <owl:Class rdf:ID="DDLatitude">
        <rdfs:label>DD Latitude</rdfs:label>
        <rdfs:subClassOf rdf:resource="#DDCoordinate"/>
        <rdfs:subClassOf rdf:resource="#Latitude"/>
    </owl:Class>
    <!-- *** DDLongitude Class *** -->
    <owl:Class rdf:ID="DDLongitude">
        <rdfs:label>DD Longitude</rdfs:label>
        <rdfs:subClassOf rdf:resource="#DDCoordinate"/>
        <rdfs:subClassOf rdf:resource="#Longitude"/>
    </owl:Class>
    <!-- *** DDCoordinate Class *** -->
    <owl:Class rdf:ID="DDCoordinate">
        <rdfs:label>Decimal Degree (DD) Coordinate</rdfs:label>
        <rdfs:subClassOf rdf:resource="#DegreeCoordinate"/>
        <!-- *** degrees Restrictions *** -->
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#degrees"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/gps/ver/0.1.0/gps-
dt#decimalDegreeRange"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <!-- *** minutes Restrictions *** -->
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="0">

```

```

        <owl:onProperty rdf:resource="#minutes"/>
    </owl:Restriction>
</rdfs:subClassOf>
<!-- *** seconds Restrictions *** -->
<rdfs:subClassOf>
    <owl:Restriction owl:cardinality="0">
        <owl:onProperty rdf:resource="#seconds"/>
    </owl:Restriction>
</rdfs:subClassOf>
</owl:Class>
<!--
*****
***** -->
<!-- *** Elevation Properties *** -->
<owl:ObjectProperty rdf:ID="elevation">
    <rdfs:label>Elevation</rdfs:label>
</owl:ObjectProperty>
<owl:DatatypeProperty rdf:ID="altitude">
    <rdfs:label>Altitude</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="category">
    <rdfs:label>Category</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="uom">
    <rdfs:label>Unit of Measure</rdfs:label>
</owl:DatatypeProperty>
<!--
*****
***** -->
<!-- *** UTM Properties *** -->
<owl:DatatypeProperty rdf:ID="zoneCharacter">
    <rdfs:label>Zone Character</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="zoneNumber">
    <rdfs:label>Zone Number</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="easting">
    <rdfs:label>Easting</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="northing">
    <rdfs:label>Northing</rdfs:label>
</owl:DatatypeProperty>
<!--
*****
***** -->
<!-- *** Degree Properties *** -->
<owl:DatatypeProperty rdf:ID="degrees">
    <rdfs:label>Degrees</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="minutes">
    <rdfs:label>Minutes</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="seconds">
    <rdfs:label>Seconds</rdfs:label>
</owl:DatatypeProperty>

```



```

<!--
*****
***** -->
<!-- *** latitude / longitude Properties *** -->
<owl:ObjectProperty rdf:ID="latitude">
  <rdfs:label>Latitude</rdfs:label>
  <rdfs:comment>The angular distance north or south of the earth's
equator, measured in degrees along a meridian, as on a map or
globe.</rdfs:comment>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="longitude">
  <rdfs:label>Longitude</rdfs:label>
  <rdfs:comment>Longitude - Angular distance on the earth's surface,
measured east or west from the prime meridian at Greenwich, England, to the
meridian passing through a position, expressed in degrees (or hours), minutes,
and seconds.</rdfs:comment>
</owl:ObjectProperty>
<owl:DatatypeProperty rdf:ID="direction">
  <rdfs:label>direction</rdfs:label>
  <rdfs:comment>north, south, east, west</rdfs:comment>
</owl:DatatypeProperty>
<owl:ObjectProperty rdf:ID="hasDMSCoordinates">
  <rdfs:label>Has DMS Coordinates</rdfs:label>
  <rdfs:comment>Used to reference a Degrees Minutes Seconds (DMS)
Coordinates Class</rdfs:comment>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="hasDDMCoordinates">
  <rdfs:label>Has DDM Coordinates</rdfs:label>
  <rdfs:comment>Used to reference a Degree Decimal Minutes (DDM)
Coordinates Class</rdfs:comment>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="hasDDCoordinates">
  <rdfs:label>Has DD Coordinates</rdfs:label>
  <rdfs:comment>Used to reference a Decimal Degree (DD) Coordinates
Class</rdfs:comment>
</owl:ObjectProperty>
<!--
*****
***** -->
<!-- *** locationName Property *** -->
<owl:DatatypeProperty rdf:ID="locationName">
  <rdfs:label>Location Name</rdfs:label>
</owl:DatatypeProperty>
</rdf:RDF>

```

Appendix L: Thesaurus Ontology

```

<?xml version="1.0"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:ves="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#"
  xmlns:dc="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#"

  xmlns:cto="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Thesaurus/CALL/0.1.0/
CALL-Thesaurus-ont#"

  xmlns="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Thesaurus/CALL/0.1.0/CALL
-Thesaurus-ont#">
  <!-- CALL Thesaurus Ontology -->
  <owl:Ontology rdf:about="">
    <ves:versioning>
      <ves:VersionData>
        <dc:title>Call Thesaurus Ontology</dc:title>
        <ves:version>0.1.0</ves:version>
        <ves:email>_TeamXML@drc.com</ves:email>
        <dc:creator>DRC</dc:creator>
        <ves:releaseDate>2003-07-18</ves:releaseDate>
        <ves:releaseLevel>beta</ves:releaseLevel>
        <ves:status>current</ves:status>

      </ves:VersionData>
    </ves:versioning>
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont"/>
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont"/>
    <rdfs:comment>Center for Army Lessons Learned Thesaurus
Ontology</rdfs:comment>
    <rdfs:comment>This is an ontology of information about CALL
Thesaurus Entries.</rdfs:comment>
  </owl:Ontology>
  <!-- Term Class -->
  <owl:Class rdf:ID="Term">
    <rdfs:label>Thesaurus Term</rdfs:label>
    <rdfs:comment>One or more words designating a
concept.</rdfs:comment>
    <rdfs:subClassOf>
      <owl:Restriction owl:cardinality="1">
        <owl:onProperty rdf:resource="#name"/>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
      </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
      <owl:Restriction>
        <owl:onProperty rdf:resource="#descriptorFor"/>
        <owl:allValuesFrom rdf:resource="#Term"/>
      </owl:Restriction>
    </rdfs:subClassOf>
  </owl:Class>

```

```

        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#preferredTermFor"/>
            <owl:allValuesFrom rdf:resource="#Term"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#entryTermFor"/>
            <owl:allValuesFrom rdf:resource="#Term"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#BT"/>
            <owl:allValuesFrom rdf:resource="#Term"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#NT"/>
            <owl:allValuesFrom rdf:resource="#Term"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#RT"/>
            <owl:allValuesFrom rdf:resource="#Term"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#USE"/>
            <owl:allValuesFrom rdf:resource="#Term"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#UF"/>
            <owl:allValuesFrom rdf:resource="#Term"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#ACK"/>
            <owl:allValuesFrom rdf:resource="#Term"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#AF"/>
            <owl:allValuesFrom rdf:resource="#Term"/>
        </owl:Restriction>
    </rdfs:subClassOf>

```

```

</owl:Class>
<!-- CALL Term Class -->
<owl:Class rdf:ID="CALL-Term">
    <rdfs:label>CALL Thesaurus Term</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Term"/>
</owl:Class>
<!-- Term Properties -->
<owl:ObjectProperty rdf:ID="descriptorFor">
    <rdfs:label>Descriptor For</rdfs:label>
    <rdfs:comment>A type of heading that is a term chosen as the
preferred expression of a concept in a thesaurus.</rdfs:comment>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="preferredTermFor">
    <rdfs:label>Preferred Term For</rdfs:label>
    <rdfs:comment>One of two or more synonyms or lexical variants
selectd as a descriptor.</rdfs:comment>
    <rdfs:subPropertyOf rdf:resource="#descriptorFor"/>
    <owl:inverseOf rdf:resource="#entryTermFor"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="entryTermFor">
    <rdfs:label>Entry Term For</rdfs:label>
    <rdfs:comment>The nonprefered term in a cross-reference that leads
to a descriptor in a thesaurus.</rdfs:comment>
    <owl:inverseOf rdf:resource="#preferredTermFor"/>
</owl:ObjectProperty>
<owl:DatatypeProperty rdf:ID="name">
    <rdfs:label>Term Name</rdfs:label>
    <rdfs:comment>The name of the Term</rdfs:comment>
</owl:DatatypeProperty>
<owl:TransitiveProperty rdf:ID="BT">
    <rdfs:label>Broader Term</rdfs:label>
    <owl:inverseOf rdf:resource="#NT"/>
</owl:TransitiveProperty>
<owl:TransitiveProperty rdf:ID="NT">
    <rdfs:label>Narrower Term</rdfs:label>
    <owl:inverseOf rdf:resource="#BT"/>
</owl:TransitiveProperty>
<owl:TransitiveProperty rdf:ID="RT">
    <rdfs:label>Related Term</rdfs:label>
</owl:TransitiveProperty>
<owl:ObjectProperty rdf:ID="USE">
    <rdfs:label>Preferred Entry Name</rdfs:label>
    <owl:inverseOf rdf:resource="#UF"/>
    <rdfs:subPropertyOf rdf:resource="#preferredTermFor"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="UF">
    <rdfs:label>Used For</rdfs:label>
    <owl:inverseOf rdf:resource="#USE"/>
    <rdfs:subPropertyOf rdf:resource="#entryTermFor"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="ACK">
    <rdfs:label>Acronym</rdfs:label>
    <owl:inverseOf rdf:resource="#AF"/>
    <rdfs:subPropertyOf rdf:resource="#preferredTermFor"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="AF">
    <rdfs:label>Acronym For</rdfs:label>

```

```
        <owl:inverseOf rdf:resource="#ACK"/>
        <rdfs:subPropertyOf rdf:resource="#entryTermFor"/>
    </owl:ObjectProperty>
</rdf:RDF>
```

Appendix M: UniversalProperty Ontology

```

<?xml version="1.0" ?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:daml="http://www.daml.org/2001/03/daml+oil#"
  xmlns:xsd="http://www.w3.org/2000/10/XMLSchema#"
  xmlns:dc="http://orlando.drc.com/daml/ontology/DC/3.1/dces-ont#"
  xmlns:ves="http://orlando.drc.com/daml/ontology/VES/3.1/drc-ves-ont#"

  xmlns:upr="http://orlando.drc.com/daml/ontology/UniversalProperty/3.1/UniversalP
  roperty-ont#"

  xmlns="http://orlando.drc.com/daml/ontology/UniversalProperty/3.1/UniversalPrope
  rty-ont#"
>
  <!-- Universal Property Ontology -->
  <daml:Ontology rdf:about="">
    <dc:title>Universal Property Ontology</dc:title>

    <ves:location>http://orlando.drc.com/daml/ontology/UniversalProperty/3.1/U
    niversalProperty-ont.daml</ves:location>
    <ves:version>3.1</ves:version>
    <ves:email>TeamXML@drc.com</ves:email>
    <dc:creator>DRC</dc:creator>
    <ves:statusDate>2001-09-25</ves:statusDate>
    <ves:status>published</ves:status>
    <daml:imports rdf:resource="http://www.daml.org/2001/03/daml+oil"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/ontology/VES/3.1/drc-ves-ont"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/Ontology/daml-extension/3.1/daml-ext-
ont"/>
    <daml:comment>This ontology defines general properties which are
used with most Things. They can be used directly or can be built upon by
creating a subproperty. </daml:comment>
  </daml:Ontology>
  <daml:DatatypeProperty rdf:ID="name">
    <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    <daml:comment>The name of a thing.</daml:comment>
  </daml:DatatypeProperty>
  <daml:DatatypeProperty rdf:ID="alias">
    <daml:subPropertyOf rdf:resource="#name"/>
    <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    <daml:comment>An alternate name for a thing.</daml:comment>
  </daml:DatatypeProperty>
</rdf:RDF>

```


Appendix N: VES Ontology

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:dc="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-ont#"
  xmlns:vls="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VLS/ver/0.1.0/drc-vls-ont#"
  xmlns:ves="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-ves-ont#"
  xmlns="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-ves-ont#"
>
  <owl:Ontology rdf:about="">
    <ves:versioning>
      <ves:VersionData>
        <dc:title>Versioning Element Set Ontology</dc:title>
        <ves:version>0.1.0</ves:version>
        <vls:lineage
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/drc-ves-ont-
lng#v-0.1.0"/>
          <ves:email>TeamXML@drc.com</ves:email>
          <dc:creator>DRC</dc:creator>
          <dc:contributor>TeamXML</dc:contributor>
          <ves:releaseDate>2003-07-09</ves:releaseDate>
          <ves:releaseLevel>beta</ves:releaseLevel>
          <ves:status>current</ves:status>
        </ves:VersionData>
      </ves:versioning>
      <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/dc/ver/0.1.0/dces-ont"/>
        <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VLS/ver/0.1.0/drc-vls-ont"/>
          <rdfs:comment>This file is a result of migrating DAML to OWL using
owlConverter.pl</rdfs:comment>
          <rdfs:comment>This ontology provides features for versioning of
ontologies and instances (artifacts). It includes the following: indications
for title, version, status, release level, release date, deprecation and
obsolescence. And by referencing the Version Lineage System (VLS) Ontology,
enables relations for previous and next versions, and explicit statements for
backward compatibility.</rdfs:comment>
          <rdfs:comment>Some of the elements in the DRCVES, were defined by
Dublin Core(DC). Thus, they are defined here with samePropertyAs. The common
elements are: title, creator, contributor, and source.</rdfs:comment>
          <rdfs:comment>Important! -- In practice however, only the DC
elements should be used, rather than their VES equivalents. Although the
equivalencies have been defined, the OWL Validator does not recognized them as
such. For example, a cardinality restriction was placed on the DC title
property, but the Validator doesn't allow a VES title to be used in place of the
DC title. The opposite is true as well. To facilitate visibility of multiple
ontology usage, the restrictions were placed on the DC elements rather than the
VES elements. Hence, using the VES elements title, creator, contributor, and

```

source is unrestricted and will result in cardinality violations of their DC equivalents.</rdfs:comment>

```
</owl:Ontology>
<!-- Define the versioning property. -->
<owl:ObjectProperty rdf:ID="versioning">
  <rdfs:label>Versioning</rdfs:label>
  <rdfs:comment>This property should be used to associate the version
data to a class.</rdfs:comment>
</owl:ObjectProperty>
<!-- Extend the owl:Ontology class to include explicitly defined version
data. -->
<rdfs:Class rdf:about="http://www.w3.org/2002/07/owl#Ontology">
  <!-- **** versioning Restrictions **** -->
  <rdfs:subClassOf>
    <owl:Restriction owl:maxCardinality="1">
      <owl:onProperty rdf:resource="#versioning"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#versioning"/>
      <owl:allValuesFrom rdf:resource="#VersionData"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</rdfs:Class>
<!-- Define a description class for an instance file (artifact). -->
<owl:Class rdf:ID="Artifact">
  <rdfs:label>Artifact</rdfs:label>
  <rdfs:comment>A OWL artifact (OWL-A) is a document that uses the
vocabulary defined by one or more OWL ontologies (OWL-O). OWL-A is also
referred to as "instance data" and "content."</rdfs:comment>
  <!-- **** versioning Restrictions **** -->
  <rdfs:subClassOf>

    <owl:Restriction owl:cardinality="1">
      <owl:onProperty rdf:resource="#versioning"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#versioning"/>
      <owl:allValuesFrom rdf:resource="#VersionData"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
<!-- Define the VersionData class with its restrictions. -->
<owl:Class rdf:ID="VersionData">
  <rdfs:label>Version Data</rdfs:label>
  <rdfs:comment>This class is used to describe the Version Information
of a document.</rdfs:comment>
  <!-- **** title Restrictions **** -->
  <rdfs:subClassOf>
    <owl:Restriction owl:cardinality="1">
      <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#title"/>
    </owl:Restriction>
```

```

        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#title"/>
                    <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
                </owl:Restriction>
            </rdfs:subClassOf>
            <!-- **** lineage Restrictions **** -->
            <rdfs:subClassOf>
                <owl:Restriction owl:maxCardinality="1">
                    <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VLS/ver/0.1.0/drc-
vls-ont#lineage"/>
                </owl:Restriction>
            </rdfs:subClassOf>
            <rdfs:subClassOf>
                <owl:Restriction>
                    <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VLS/ver/0.1.0/drc-
vls-ont#lineage"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VLS/ver/0.1.0/drc-
vls-ont#VersionLineage"/>
                </owl:Restriction>
            </rdfs:subClassOf>
            <!-- **** version Restrictions **** -->
            <rdfs:subClassOf>
                <owl:Restriction owl:cardinality="1">
                    <owl:onProperty rdf:resource="#version"/>
                </owl:Restriction>
            </rdfs:subClassOf>
            <rdfs:subClassOf>
                <owl:Restriction>
                    <owl:onProperty rdf:resource="#version"/>
                    <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/VES/Indication/ver/0.1
.0/indication-dt#versionIndication"/>
                </owl:Restriction>
            </rdfs:subClassOf>
            <!-- **** email Restrictions **** -->
            <rdfs:subClassOf>
                <owl:Restriction owl:minCardinality="1">
                    <owl:onProperty rdf:resource="#email"/>
                </owl:Restriction>
            </rdfs:subClassOf>
            <rdfs:subClassOf>
                <owl:Restriction>
                    <owl:onProperty rdf:resource="#email"/>
                    <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
                </owl:Restriction>
            </rdfs:subClassOf>
            <!-- **** creator Restrictions **** -->
            <rdfs:subClassOf>

```

```

        <owl:Restriction owl:minCardinality="1">
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#creator"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#creator"/>
        </owl:Restriction>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </rdfs:subClassOf>
    <!-- **** contributor Restrictions **** -->
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#contributor"/>
        </owl:Restriction>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </rdfs:subClassOf>
    <!-- **** source Restrictions **** -->
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#source"/>
        </owl:Restriction>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </rdfs:subClassOf>
    <!-- **** releaseDate Restrictions **** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#releaseDate"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#releaseDate"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#date"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- **** releaseLevel Restrictions **** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#releaseLevel"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#releaseLevel"/>

```

```

        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/VES/Indication/ver/0.1
.0/indication-dt#releaseLevel"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- **** status Restrictions **** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty rdf:resource="#status"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#status"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/VES/Indication/ver/0.1
.0/indication-dt#status"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- **** deprecationDate Restrictions **** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:maxCardinality="1">
            <owl:onProperty rdf:resource="#deprecationDate"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#deprecationDate"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#date"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- **** deprecationYearsToObsolescence Restrictions **** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:maxCardinality="1">
            <owl:onProperty
rdf:resource="#deprecationYearsToObsolescence"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty
rdf:resource="#deprecationYearsToObsolescence"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#decimal"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<!-- Datatype Property Definitions -->
<owl:DatatypeProperty rdf:ID="title">
    <rdfs:label>Title</rdfs:label>
    <owl:equivalentProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#title"/>
    <rdfs:comment>A title given to the ontology.</rdfs:comment>
    <rdfs:comment>Important! -- In practice, only the DC elements should
be used, rather than their VES equivalents. Although the equivalencies have

```

been defined, the OWL Validator does not recognize them as such. For example, a cardinality restriction was placed on the DC title property, but the Validator doesn't allow a VES title to be used in place of the DC title. The opposite is true as well. To facilitate visibility of multiple ontology usage, the restrictions were placed on the DC elements rather than the VES elements. Hence, using the VES elements title, creator, contributor, and source is unrestricted and will result in cardinality violations of their DC equivalents.

```

</owl:DatatypeProperty>
<owl:ObjectProperty rdf:ID="lineage">
  <rdfs:label>Lineage</rdfs:label>
  <owl:equivalentProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VLS/ver/0.1.0/drc-
vls-ont#lineage"/>
  <rdfs:comment>References a particular version
lineage.</rdfs:comment>
  <rdfs:comment>Important! -- In practice, only the VLS lineage should
be used, rather than its VES equivalent. Although the equivalency has been
defined, the OWL Validator does not recognize it as such. For example, a
cardinality restriction was placed on the VLS lineage property, but the
Validator doesn't allow a VES lineage to be used in place of the VLS lineage.
The opposite is true as well. To facilitate visibility of multiple ontology
usage, the restrictions were placed on the VLS property rather than the VES
property. Hence, using the VES lineage property is unrestricted.</rdfs:comment>
</owl:ObjectProperty>
<owl:DatatypeProperty rdf:ID="version">
  <rdfs:label>Version</rdfs:label>
  <rdfs:comment>The version indication.</rdfs:comment>
  <rdfs:comment>A version indication is either the term "volatile" or
a version number.</rdfs:comment>
  <rdfs:comment>The term "volatile" indicates that historical versions
have no value, thus tracking versions is not meaningful. Accordingly,
maintaining a version lineage would also be fruitless.</rdfs:comment>
  <rdfs:comment>Version numbers must begin with a number and can
contain letters, numbers, dashes ("-"), underscores ("_"), and periods
(".").</rdfs:comment>

```

```

  <rdfs:comment>The version number may be used as a directory name and
therefore should not contain any characters that would be illegal for that
purpose.</rdfs:comment>
</owl:DatatypeProperty>

```

```

<owl:DatatypeProperty rdf:ID="email">
  <rdfs:label>Email Address</rdfs:label>
  <rdfs:comment>The point of contact email address for the
document.</rdfs:comment>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="creator">
  <rdfs:label>Creator</rdfs:label>
  <owl:equivalentProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#creator"/>
  <rdfs:comment>An entity primarily responsible for making the content
of the ontology.</rdfs:comment>
  <rdfs:comment>Important! -- In practice, only the DC elements should
be used, rather than their VES equivalents. Although the equivalencies have
been defined, the OWL Validator does not recognize them as such. For example,
a cardinality restriction was placed on the DC title property, but the Validator

```

doesn't allow a VES title to be used in place of the DC title. The opposite is true as well. To facilitate visibility of multiple ontology usage, the restrictions were placed on the DC elements rather than the VES elements. Hence, using the VES elements title, creator, contributor, and source is unrestricted and will result in cardinality violations of their DC equivalents.</rdfs:comment>

```
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="contributor">
  <rdfs:label>Contributor</rdfs:label>
  <owl:equivalentProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-ont#contributor"/>
```

```
  <rdfs:comment>An entity responsible for making contributions to the
content of the ontology.</rdfs:comment>
```

```
  <rdfs:comment>Important! -- In practice, only the DC elements should
be used, rather than their VES equivalents. Although the equivalencies have
been defined, the OWL Validator does not recognized them as such. For example,
a cardinality restriction was placed on the DC title property, but the Validator
doesn't allow a VES title to be used in place of the DC title. The opposite is
true as well. To facilitate visibility of multiple ontology usage, the
restrictions were placed on the DC elements rather than the VES elements.
Hence, using the VES elements title, creator, contributor, and source is
unrestricted and will result in cardinality violations of their DC
equivalents.</rdfs:comment>
```

```
  </owl:DatatypeProperty>
  <owl:DatatypeProperty rdf:ID="source">
    <rdfs:label>Source</rdfs:label>
    <owl:equivalentProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-ont#source"/>
```

```
  <rdfs:comment>A Reference to a resource from which the present
ontology is partially or fully derived.</rdfs:comment>
```

```
  <rdfs:comment>Important! -- In practice, only the DC elements should
be used, rather than their VES equivalents. Although the equivalencies have
been defined, the OWL Validator does not recognized them as such. For example,
a cardinality restriction was placed on the DC title property, but the Validator
doesn't allow a VES title to be used in place of the DC title. The opposite is
true as well. To facilitate visibility of multiple ontology usage, the
restrictions were placed on the DC elements rather than the VES elements.
Hence, using the VES elements title, creator, contributor, and source is
unrestricted and will result in cardinality violations of their DC
equivalents.</rdfs:comment>
```

```
  </owl:DatatypeProperty>
  <owl:DatatypeProperty rdf:ID="releaseDate">
    <rdfs:label>Release Date</rdfs:label>
    <rdfs:subPropertyOf
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-ont#date"/>
```

```
  <rdfs:comment>The date the ontology was
released/published.</rdfs:comment>
```

```
  </owl:DatatypeProperty>
  <owl:DatatypeProperty rdf:ID="releaseLevel">
    <rdfs:label>Release Level</rdfs:label>
    <rdfs:comment>The release level of the document: Development, Alpha,
Beta, Stable.</rdfs:comment>
```


<rdfs:comment>The Development level is the beginning of a new release, as such, no guarantees can be made. The product is not available for external/public review.</rdfs:comment>

<rdfs:comment>Alpha is the second level of the development cycle in which all critical issues have been resolved. The product is typically not available for external/public review.</rdfs:comment>

<rdfs:comment>Beta is the third level of the development cycle in which all serious or greater issues have been resolved, and all documentation is up to date. The product is released specifically for external/public review and testing prior to graduation to the final level. Although external/public review is not required, it is strongly recommended.</rdfs:comment>

<rdfs:comment>Stable is the fourth and final level of the development cycle in which all medium level or greater issues have been resolved, including issue submitted by outside sources. The product is officially released (published). Modifications to Stable releases is limited to bug fixes and minor/superficial updates.</rdfs:comment>

<rdfs:comment>Stable releases are required to remain available externally and/or to the public until it becomes obsolete. Lower level releases have no such requirement.</rdfs:comment>

</owl:DatatypeProperty>

<owl:DatatypeProperty rdf:ID="status">

<rdfs:label>Status</rdfs:label>

<rdfs:comment>The status of the document: Current, Deprecated, Obsolete.</rdfs:comment>

<rdfs:comment>The Current status indicates the product is the most recent version in the release history. Applies to all four levels of the development cycle. There can be only one Current-Stable release, and only one Current-(Development, Alpha, or Beta) release. All Current releases can be modified, the extent of which is dependant on its level.</rdfs:comment>

<rdfs:comment>The Deprecated status indicates a product has been replaced by a newer version. The Deprecation chain occurs as follows: A Current-Development release begins a new-version branch, it depreciates nothing. A Current-Alpha release depreciates its parent, Development. A Current-Beta release depreciates its parent, Alpha. Finally, a Current-Stable release depreciates two releases: its parent, Beta, and its great-great grandparent, the previous Stable release. Deprecated-(Development, Alpha, and Beta) releases cannot be modified. In rare cases, Deprecated-Stable releases may be updated (bug fixes). However, such updates may never propagate to the deprecated release's Current-Stable descendant. Deprecated releases should store a deprecation date from which obsolescence can be derived implicitly or explicitly.</rdfs:comment>

<rdfs:comment>The Obsolete status indicates that a release has reached the end of its lifecycle. Releases in this status are no longer available. Automated systems (agents), and administrators are authorized to free all resources utilized by an Obsolete release. The Obsolete status is likely to be implied (by years of deprecation) more often than explicitly defined. However, explicit definition could signal an Agent to free resources, rather than doing so manually.</rdfs:comment>

</owl:DatatypeProperty>

<owl:DatatypeProperty rdf:ID="deprecationDate">

<rdfs:label>Deprecation Date</rdfs:label>

<rdfs:subPropertyOf

rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-ont#date"/>

<rdfs:comment>The date the document was replaced by a newer version.</rdfs:comment>

```
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="deprecationYearsToObsolescence">
  <rdfs:label>Deprecation Years to Obsolescence</rdfs:label>
  <rdfs:comment>The number of years a document remains depreciated
beore it will become obsolete. A time-to-live period, after which the document
should be considered unavailable.</rdfs:comment>
</owl:DatatypeProperty>
</rdf:RDF>
```

Appendix O: VLS Ontology

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:ves="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#"
  xmlns:dc="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#"
  xmlns:vls="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VLS/ver/0.1.0/drc-
vls-ont#"
  xmlns="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VLS/ver/0.1.0/drc-vls-
ont#"
  >
    <owl:Ontology rdf:about="">
      <ves:versioning>
        <ves:VersionData>
          <dc:title>Versioning Lineage System Ontology</dc:title>
          <vls:lineage
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VLS/drc-vls-ont-
lng#v-0.1.0"/>
            <ves:version>0.1.0</ves:version>
            <ves:email>TeamXML@drc.com</ves:email>
            <dc:creator>DRC</dc:creator>
            <ves:releaseDate>2003-07-09</ves:releaseDate>
            <ves:releaseLevel>beta</ves:releaseLevel>
            <ves:status>current</ves:status>
          </ves:VersionData>
        </ves:versioning>
        <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont"/>
          <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/dc/ver/0.1.0/dces-
ont"/>
            <rdfs:comment>This file is a result of migrating DAML to OWL using
owlConverter.pl</rdfs:comment>
            <rdfs:comment>This ontology provides features for versioning of
ontologies and instances (artifacts). It includes the following: relations to
previous and next versions, status indications, explicit statements for backward
compatibility, and indications for deprecation and obsolescence.</rdfs:comment>
          </owl:Ontology>

          <!-- *** Product class *** -->
          <owl:Class rdf:ID="Product">
            <rdfs:label>Product</rdfs:label>
            <rdfs:comment>This class is used to describe the metadata which is
true for all versions of the product.</rdfs:comment>
            <!-- **** title Restrictions **** -->
            <rdfs:subClassOf>
              <owl:Restriction owl:cardinality="1">
                <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#title"/>
                  </owl:Restriction>
                </rdfs:subClassOf>

```

```

        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#title"/>
                    <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
                </owl:Restriction>
            </rdfs:subClassOf>
        <!-- **** productType Restrictions **** -->
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#productType"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#productType"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/VLS/Indication/ver/0.1
.0/indication-dt#productType"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <!-- **** creator Restrictions **** -->
        <rdfs:subClassOf>
            <owl:Restriction owl:minCardinality="1">
                <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#creator"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#creator"/>
                <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <!-- **** email Restrictions **** -->
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#email"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#email"/>
                <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
            </owl:Restriction>
        </rdfs:subClassOf>

```

```

        <!-- **** source Restrictions **** -->
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#source"/>

                    <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
                </owl:Restriction>
            </rdfs:subClassOf>
        <!-- **** defaultDeprecationYearsToObsolescence Restrictions **** --
>
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty
rdf:resource="#defaultDeprecationYearsToObsolescence"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty
rdf:resource="#defaultDeprecationYearsToObsolescence"/>
                <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#decimal"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <!-- *** Version Lineage Class *** -->
    <owl:Class rdf:ID="VersionLineage">
        <rdfs:label>Version Lineage</rdfs:label>
        <!-- **** version Restrictions **** -->
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#version"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#version"/>
                <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/VES/Indication/ver/0.1
.0/indication-dt#versionNumber"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <!-- **** versionOf Restrictions **** -->
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#versionOf"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>

```

```

                <owl:onProperty rdf:resource="#versionOf"/>
                <owl:allValuesFrom rdf:resource="#Product"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <!-- **** previous Restrictions **** -->
        <rdfs:subClassOf>
            <owl:Restriction owl:maxCardinality="1">
                <owl:onProperty rdf:resource="#previous"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#previous"/>
                <owl:allValuesFrom rdf:resource="#VersionLineage"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <!-- **** next Restrictions **** -->
        <rdfs:subClassOf>
            <owl:Restriction owl:maxCardinality="1">
                <owl:onProperty rdf:resource="#next"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#next"/>
                <owl:allValuesFrom rdf:resource="#VersionLineage"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <!-- **** backwardCompatibleWith Restrictions **** -->
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#backwardCompatibleWith"/>
                <owl:allValuesFrom rdf:resource="#VersionLineage"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <!-- **** forwardCompatibleWith Restrictions **** -->
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#forwardCompatibleWith"/>
                <owl:allValuesFrom rdf:resource="#VersionLineage"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <!-- **** location Restrictions **** -->
        <rdfs:subClassOf>
            <owl:Restriction owl:cardinality="1">
                <owl:onProperty rdf:resource="#location"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction>
                <owl:onProperty rdf:resource="#location"/>
                <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#anyURI"/>
            </owl:Restriction>
        </rdfs:subClassOf>
        <!-- **** email Restrictions **** -->
        <rdfs:subClassOf>

```

```

        <owl:Restriction owl:maxCardinality="1">
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#email"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#email"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- **** contributor Restrictions **** -->
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#contributor"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- **** source Restrictions **** -->
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#source"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- **** releaseDate Restrictions **** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#releaseDate"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#releaseDate"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#date"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- **** releaseLevel Restrictions **** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">

```



```

        <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#releaseLevel"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#releaseLevel"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/VES/Indication/ver/0.1
.0/indication-dt#releaseLevel"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    <!-- **** status Restrictions **** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:cardinality="1">
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#status"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#status"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/VES/Indication/ver/0.1
.0/indication-dt#status"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    <!-- **** deprecationDate Restrictions **** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:maxCardinality="1">
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#deprecationDate"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#deprecationDate"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#date"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    <!-- **** deprecationYearsToObsolescence Restrictions **** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:maxCardinality="1">
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#deprecationYearsToObsolescence"/>

```

```

        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#deprecationYearsToObsolescence"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#decimal"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- *** hasDevelopment Restrictions ** -->
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#hasDevelopment"/>
            <owl:allValuesFrom rdf:resource="#Development"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<!-- *** Development Classes *** -->
<owl:Class rdf:ID="Development">
    <rdfs:label>Development</rdfs:label>
    <!-- **** contributor Restrictions **** -->
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#contributor"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- *** priority Restrictions *** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:maxCardinality="1">
            <owl:onProperty rdf:resource="#priority"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#priority"/>
            <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/datatype/VLS/Indication/ver/0.1
.0/indication-dt#priority"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- *** developmentDate Restrictions *** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:maxCardinality="1">
            <owl:onProperty rdf:resource="#developmentDate"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#developmentDate"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#date"/>

```

```

        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- *** heading Restrictions *** -->
    <rdfs:subClassOf>
        <owl:Restriction owl:maxCardinality="1">
            <owl:onProperty rdf:resource="#heading"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#heading"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- *** entry Restrictions *** -->
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#entry"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
        </owl:Restriction>
    </rdfs:subClassOf>
    <!-- *** hasDevelopment Restrictions ** -->
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="#hasDevelopment"/>
            <owl:allValuesFrom rdf:resource="#Development"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<!-- *** Development Subclasses *** -->
<owl:Class rdf:ID="Addition">
    <rdfs:label>Addition</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Development"/>
</owl:Class>
<owl:Class rdf:ID="Deletion">
    <rdfs:label>Deletion</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Development"/>
</owl:Class>
<owl:Class rdf:ID="Change">
    <rdfs:label>Change</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Development"/>
</owl:Class>
<owl:Class rdf:ID="Update">
    <rdfs:label>Update</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Development"/>
</owl:Class>
<!-- *** Properties *** -->
<owl:ObjectProperty rdf:ID="previous">
    <rdfs:label>Previous</rdfs:label>
    <rdfs:comment>reference to the previous version.</rdfs:comment>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="next">
    <rdfs:label>Next</rdfs:label>
    <owl:inverseOf rdf:resource="#previous"/>
    <rdfs:comment>reference to the next version.</rdfs:comment>

```

```

</owl:ObjectProperty>
<owl:DatatypeProperty rdf:ID="location">
  <rdfs:label>Location</rdfs:label>
  <rdfs:comment>URL / URI / URN reference of the
document.</rdfs:comment>
</owl:DatatypeProperty>
<owl:TransitiveProperty rdf:ID="backwardCompatibleWith">
  <rdfs:label>Backward Compatible With</rdfs:label>
  <rdfs:comment>Indicates the specified older version which is
compatible with the selected version.</rdfs:comment>
</owl:TransitiveProperty>
<owl:TransitiveProperty rdf:ID="forwardCompatibleWith">
  <rdfs:label>Forward Compatible With</rdfs:label>
  <owl:inverseOf rdf:resource="#backwardCompatibleWith"/>
  <rdfs:comment>Indicates the specified newer version which is
compatible with the selected version.</rdfs:comment>
</owl:TransitiveProperty>
<owl:DatatypeProperty rdf:ID="defaultDeprecationYearsToObsolescence">
  <rdfs:label>Default Deprecation Years to Obsolescence</rdfs:label>
  <rdfs:comment>The default number of years a document remains
depreciated before becomes obsolete. A time-to-die period, after which the
document should be considered unavailable.</rdfs:comment>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="priority">
  <rdfs:label>priority</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="heading">
  <rdfs:label>heading</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="entry">
  <rdfs:label>entry</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="developmentDate">
  <rdfs:subPropertyOf
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#date"/>
  <rdfs:label>Development Date</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="productType">
  <rdfs:label>Product Type</rdfs:label>
</owl:DatatypeProperty>
<owl:ObjectProperty rdf:ID="versionOf">
  <rdfs:label>Version Of</rdfs:label>
</owl:ObjectProperty>
<!-- *** hasDevelopment Propertiers *** -->
<owl:ObjectProperty rdf:ID="hasDevelopment">
  <rdfs:label>Has Development</rdfs:label>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="creation">
  <rdfs:label>Creation</rdfs:label>
  <rdfs:subPropertyOf rdf:resource="#hasDevelopment"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="revision">
  <rdfs:label>Revision</rdfs:label>
  <rdfs:subPropertyOf rdf:resource="#hasDevelopment"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="bugFix">

```

```

        <rdfs:label>Bug Fix</rdfs:label>
        <rdfs:subPropertyOf rdf:resource="#hasDevelopment"/>
    </owl:ObjectProperty>
    <!-- *** Properties used by other ontologies to reference the Version
Lineage *** -->
    <owl:ObjectProperty rdf:ID="lineage">
        <rdfs:label>Lineage</rdfs:label>
        <rdfs:comment>References a particular version
lineage.</rdfs:comment>
        <!-- *** When used in a restriction, this property should be
restricted to class VersionLineage. -->
    </owl:ObjectProperty>
</rdf:RDF>

```

Appendix P: Commercial Shipping Ontology

```

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:ves="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#"
  xmlns:dc="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#"
  xmlns:ship="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Commercial/Shipping/
ver/0.1.0/CommercialShip-ont#"
  xmlns="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Commercial/Shipping/ver/0
.1.0/CommercialShip-ont#"
>
  <!--=====-->
  <!--Commercial Ship Ontology-->
  <!--=====-->
  <owl:Ontology rdf:about="">
    <ves:versioning>
      <ves:VersionData>
        <dc:title>Commercial Ship Ontology</dc:title>
        <ves:version>0.1.0</ves:version>
        <ves:email>_TeamXML@drc.com</ves:email>
        <dc:creator>DRC</dc:creator>
        <ves:releaseDate>2003-07-18</ves:releaseDate>
        <ves:releaseLevel>beta</ves:releaseLevel>
        <ves:status>current</ves:status>
      </ves:VersionData>
    </ves:versioning>
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont"/>
      <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont"/>
      <rdfs:comment>A sample commercial/merchant ships ontology. Source
being Jane's Merchant Ships 2000-2001 and the third edition 1998-
1999.</rdfs:comment>
    </owl:Ontology>
    <!--=====-->
    <!--CommercialShip Base Class-->
    <!--=====-->
    <owl:Class rdf:ID="CommercialShip">
      <rdfs:label>Commercial-Ship</rdfs:label>
      <rdfs:comment>The data categories reflect elements defined in the
recognition system.</rdfs:comment>
      <!--Restricted ObjectProperties-->
      <rdfs:subClassOf>
        <owl:Restriction rdf:about="#r-sisterShip"/>
      </rdfs:subClassOf>
      <rdfs:subClassOf>
        <owl:Restriction rdf:about="#r-crewMember"/>
      </rdfs:subClassOf>
      <!--Restricted DatatypeProperties-->
      <rdfs:subClassOf>
        <owl:Restriction rdf:about="#r-c1-sequence"/>

```

```

        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction rdf:about="#r-c1-hullForm"/>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction rdf:about="#r-c1-shipName"/>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction rdf:about="#r-c1-vesselType"/>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction rdf:about="#r-c1-tonnages"/>
        </rdfs:subClassOf>

        <rdfs:subClassOf>
            <owl:Restriction rdf:about="#r-c1-dimensions"/>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction rdf:about="#r-c1-machinery"/>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
            <owl:Restriction rdf:about="#r-c1-maxSpeed"/>
        </rdfs:subClassOf>
    </owl:Class>
    <!--=====-->
    <!--LowAirdraughtShip Class-->
    <!--=====-->
    <owl:Class rdf:ID="LowAirdraughtShip">
        <rdfs:label>Low-Airdraught-Ship (sea/rivier)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CommercialShip"/>
    </owl:Class>
    <!--=====-->
    <!--PassengerShip Class-->
    <!--=====-->
    <owl:Class rdf:ID="PassengerShip">
        <rdfs:label>Passenger-Ship (including ferries)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CommercialShip"/>
    </owl:Class>
    <!--=====-->
    <!--VehicleCarrier Class-->
    <!--=====-->
    <owl:Class rdf:ID="VehicleCarrier">
        <rdfs:label>Vehicle-Carrier</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CommercialShip"/>
    </owl:Class>
    <!--=====-->
    <!--CargoShip Class-->
    <!--=====-->
    <owl:Class rdf:ID="CargoShip">
        <rdfs:label>Cargo-Ship</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CommercialShip"/>
    </owl:Class>
    <!--=====-->
    <!--DryCargoShip Class-->
    <!--=====-->
    <owl:Class rdf:ID="DryCargoShip">
        <rdfs:label>Dry-Cargo-Ship</rdfs:label>

```



```

        <rdfs:subClassOf rdf:resource="#CargoShip"/>
    </owl:Class>
    <!--=====-->
    <!--RefrigeratedCargoShip Class-->
    <!--=====-->
    <owl:Class rdf:ID="RefrigeratedCargoShip">
        <rdfs:label>Refrigerated-Cargo-Ship (reefers)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CargoShip"/>
    </owl:Class>
    <!--=====-->
    <!--ContainerShip Class-->
    <!--=====-->
    <owl:Class rdf:ID="ContainerShip">
        <rdfs:label>Container-Ship</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CargoShip"/>
    </owl:Class>
    <!--=====-->
    <!--GasCarrier Class-->
    <!--=====-->
    <owl:Class rdf:ID="GasCarrier">
        <rdfs:label>Gas-Carrier</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CargoShip"/>
    </owl:Class>
    <!--=====-->
    <!--DryCargoShipWithDeckCranes Class-->
    <!--=====-->
    <owl:Class rdf:ID="DryCargoShipWithDeckCranes">
        <rdfs:label>Dry-Cargo-Ship-With-Deck-Cranes</rdfs:label>
        <rdfs:subClassOf rdf:resource="#DryCargoShip"/>
    </owl:Class>
    <!--=====-->
    <!--DryCargoShipWithMixedDerrickPost Class-->
    <!--=====-->
    <owl:Class rdf:ID="DryCargoShipWithMixedDerrickPost">
        <rdfs:label>Dry-Cargo-Ship-With-Mixed-Derrick-Post</rdfs:label>
        <rdfs:subClassOf rdf:resource="#DryCargoShip"/>
    </owl:Class>
    <!--=====-->
    <!--DryCargoShipWithMixedCargoGear Class-->
    <!--=====-->
    <owl:Class rdf:ID="DryCargoShipWithMixedCargoGear">
        <rdfs:label>Dry-Cargo-Ship-With-Mixed-Cargo-Gear</rdfs:label>
        <rdfs:subClassOf rdf:resource="#DryCargoShip"/>
    </owl:Class>
    <!--=====-->
    <!--DryCargoShipWithTravelingCranesAndSelfUnloadingGear Class-->
    <!--=====-->
    <owl:Class rdf:ID="DryCargoShipWithTravelingCranesAndSelfUnloadingGear">
        <rdfs:label>Dry-Cargo-Ship-With-Traveling-Cranes-And-Self-Unloading-
Gear</rdfs:label>
        <rdfs:subClassOf rdf:resource="#DryCargoShip"/>
    </owl:Class>
    <!--=====-->
    <!--GearlessDryCargoVesselOver275ft Class-->
    <!--=====-->
    <owl:Class rdf:ID="GearlessDryCargoVesselOver275ft">
        <rdfs:label>Gearless-Dry-Cargo-Vessel-Over-275-ft</rdfs:label>

```

```

        <rdfs:subClassOf rdf:resource="#DryCargoShip"/>
</owl:Class>
<!--=====-->
<!--GearlessDryCargoVesselUnder275ft Class-->
<!--=====-->
<owl:Class rdf:ID="GearlessDryCargoVesselUnder275ft">
    <rdfs:label>Gearless-Dry-Cargo-Vessel-Under-275-ft</rdfs:label>
    <rdfs:subClassOf rdf:resource="#DryCargoShip"/>
</owl:Class>
<!--=====-->
<!--GearedContainerShip Class-->
<!--=====-->
<owl:Class rdf:ID="GearedContainerShip">
    <rdfs:label>Geared-Container-Ship</rdfs:label>
    <rdfs:subClassOf rdf:resource="#ContainerShip"/>
</owl:Class>
<!--=====-->
<!--GearlessContainerShip Class-->
<!--=====-->
<owl:Class rdf:ID="GearlessContainerShip">
    <rdfs:label>Gearless-Container-Ship</rdfs:label>
    <rdfs:subClassOf rdf:resource="#ContainerShip"/>
</owl:Class>
<!--=====-->
<!--GearlessRoRoContainerShip Class-->
<!--=====-->
<owl:Class rdf:ID="GearlessRoRoContainerShip">
    <rdfs:label>Ro-Ro Container (gearless)</rdfs:label>
    <rdfs:subClassOf rdf:resource="#GearlessContainerShip"/>
</owl:Class>
<!--=====-->
<!--LiquefiedGasCarrier Class-->
<!--=====-->
<owl:Class rdf:ID="LiquefiedGasCarrier">
    <rdfs:label>Liquefied-Gas-Carrier</rdfs:label>

    <rdfs:subClassOf rdf:resource="#GasCarrier"/>
</owl:Class>
<!--=====-->
<!--LiquefiedGasCarrierWithTankOnDeck Class-->
<!--=====-->
<owl:Class rdf:ID="LiquefiedGasCarrierWithTankOnDeck">
    <rdfs:label>Liquefied-Gas-Carrier-With-Tank-On-Deck</rdfs:label>
    <rdfs:subClassOf rdf:resource="#LiquefiedGasCarrier"/>
</owl:Class>
<!--=====-->
<!--LiquefiedGasCarrierWithoutDeckTanks Class-->
<!--=====-->
<owl:Class rdf:ID="LiquefiedGasCarrierWithoutDeckTanks">
    <rdfs:label>Liquefied-Gas-Carrier-Without-Deck-Tanks</rdfs:label>
    <rdfs:subClassOf rdf:resource="#LiquefiedGasCarrier"/>
</owl:Class>
<!--=====-->
<!--Restrictions on ObjectProperties for CommercialShip Class-->
<!--=====-->
<owl:Restriction rdf:ID="r-sisterShip">
    <owl:onProperty rdf:resource="#sisterShip"/>

```

```

        <owl:allValuesFrom rdf:resource="#CommercialShip"/>
    </owl:Restriction>
    <owl:Restriction rdf:ID="r-crewMember">
        <owl:onProperty rdf:resource="#crewMember"/>
        <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Person/ver/0.1.0/Person-ont#Person"/>
    </owl:Restriction>
    <!--=====-->
    <!--Restrictions on DatatypeProperties for CommercialShip Class-->
    <!--=====-->
    <owl:Restriction owl:cardinality="1" rdf:ID="r-c1-sequence">
        <owl:onProperty rdf:resource="#sequence"/>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:Restriction>
    <owl:Restriction owl:cardinality="1" rdf:ID="r-c1-hullForm">
        <owl:onProperty rdf:resource="#hullForm"/>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:Restriction>
    <owl:Restriction owl:cardinality="1" rdf:ID="r-c1-shipName">
        <owl:onProperty rdf:resource="#shipName"/>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:Restriction>
    <owl:Restriction owl:cardinality="1" rdf:ID="r-c1-vesselType">
        <owl:onProperty rdf:resource="#vesselType"/>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:Restriction>
    <owl:Restriction owl:cardinality="1" rdf:ID="r-c1-tonnages">
        <owl:onProperty rdf:resource="#tonnages"/>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:Restriction>
    <owl:Restriction owl:cardinality="1" rdf:ID="r-c1-dimensions">
        <owl:onProperty rdf:resource="#dimensions"/>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:Restriction>
    <owl:Restriction owl:cardinality="1" rdf:ID="r-c1-machinery">
        <owl:onProperty rdf:resource="#machinery"/>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:Restriction>
    <owl:Restriction owl:cardinality="1" rdf:ID="r-c1-maxSpeed">
        <owl:onProperty rdf:resource="#maxSpeed"/>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:Restriction>
    <!--=====-->
    <!--ObjectProperties for CommercialShip Class-->
    <!--=====-->
    <owl:ObjectProperty rdf:ID="sisterShip">
        <rdfs:label>Sister-Ship</rdfs:label>

```

```

</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="crewMember">
  <rdfs:label>Crew-Member</rdfs:label>
</owl:ObjectProperty>
<!--=====-->
<!--DatatypeProperties for CommercialShip Class-->
<!--=====-->
<owl:DatatypeProperty rdf:ID="sequence">
  <rdfs:label>Sequence</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="hullForm">
  <rdfs:label>Hull-Form</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="shipName">
  <rdfs:label>Ship-Name</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="vesselType">
  <rdfs:label>Vessel-Type</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="tonnages">
  <rdfs:label>Tonnages</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="dimensions">
  <rdfs:label>Dimensions</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="machinery">
  <rdfs:label>Machinery/Screws</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="maxSpeed">
  <rdfs:label>Max-Speed</rdfs:label>
</owl:DatatypeProperty>
</rdf:RDF>

```

Appendix Q: Fugitive Ontology

```

<?xml version="1.0"?>
<rdf:RDF
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
xmlns:owl="http://www.w3.org/2002/07/owl#"
xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
xmlns:ves="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#"
xmlns:dc="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#"
xmlns:fug="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Fugitive/ver/0.1.0/Fu
gitive-ont#"
xmlns="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Fugitive/ver/0.1.0/Fugiti
ve-ont#"
>
  <!-- Fugitive Ontology -->
  <owl:Ontology rdf:about="">
    <ves:versioning>
      <ves:VersionData>
        <dc:title>Fugitive Ontology</dc:title>
        <ves:version>0.1.0</ves:version>
        <ves:email>_TeamXML@drc.com</ves:email>
        <dc:creator>DRC</dc:creator>
        <ves:releaseDate>2003-07-18</ves:releaseDate>
        <ves:releaseLevel>beta</ves:releaseLevel>
        <ves:status>current</ves:status>
      </ves:VersionData>
    </ves:versioning>
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont"/>
      <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont"/>
        <rdfs:comment>Fugitive Ontology</rdfs:comment>
      </owl:Ontology>
      <!-- ===== -->
      <!-- Define Person Class and Property Definitions -->
      <!-- ===== -->
      <owl:Class rdf:ID="Person">
        <rdfs:label>Person</rdfs:label>
        <rdfs:comment>This class represents a particular person (living or
dead) independent of a particular description of the person</rdfs:comment>
        <rdfs:subClassOf>
          <owl:Restriction rdf:about="#r-source"/>
        </rdfs:subClassOf>
      </owl:Class>

      <owl:DatatypeProperty rdf:ID="name">
        <rdfs:domain rdf:resource="#Person"/>
        <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
      </owl:DatatypeProperty>
      <owl:ObjectProperty rdf:ID="placeOfBirth">
        <rdfs:domain rdf:resource="#Person"/>
        <rdfs:range
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Locator/ver/0.1.0/
Locator-ont#PhysicalLocator"/>

```

```

</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="describedAs">
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:range rdf:resource="#PersonDescription"/>
</owl:ObjectProperty>
<!-- ===== -->
<!-- Define PersonDescription Class and Property Definitions -->
<!-- ===== -->
<owl:Class rdf:ID="PersonDescription">
  <rdfs:label>Person</rdfs:label>
  <rdfs:comment>This class represents a description of a Person
(observable, from a particular perspective, and date/time)</rdfs:comment>
  <rdfs:subClassOf>
    <owl:Restriction rdf:about="#r-source"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:DatatypeProperty rdf:ID="sex">
  <rdfs:domain rdf:resource="#PersonDescription"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="hair">
  <rdfs:domain rdf:resource="#PersonDescription"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="eyes">
  <rdfs:domain rdf:resource="#PersonDescription"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="height">
  <rdfs:domain rdf:resource="#PersonDescription"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="weight">
  <rdfs:domain rdf:resource="#PersonDescription"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="race">
  <rdfs:domain rdf:resource="#PersonDescription"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="nationality">
  <rdfs:domain rdf:resource="#PersonDescription"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="occupation">
  <rdfs:domain rdf:resource="#PersonDescription"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="scarsMarks">
  <rdfs:domain rdf:resource="#PersonDescription"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="remarks">
  <rdfs:domain rdf:resource="#PersonDescription"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<!-- ===== -->

```

```

<!-- Define Fugitive Class and Property Definitions -->
<!-- ===== -->
<owl:Class rdf:ID="Fugitive">
  <rdfs:subClassOf rdf:resource="#Person"/>
  <rdfs:label>Fugitive</rdfs:label>
  <rdfs:comment>This class represents a specialization of Person(s)
that are fugitives</rdfs:comment>
</owl:Class>
<owl:DatatypeProperty rdf:ID="reason">
  <rdfs:domain rdf:resource="#Fugitive"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="NCIC">
  <rdfs:domain rdf:resource="#Fugitive"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="caution">
  <rdfs:domain rdf:resource="#Fugitive"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<!-- ===== -->
<!-- Define Fugitive Description Class and Property Definitions --
>
<!-- ===== -->
<owl:Class rdf:ID="FugitiveDescription">
  <rdfs:subClassOf rdf:resource="#PersonDescription"/>
  <rdfs:label>Fugitive Description</rdfs:label>
  <rdfs:comment>This class represents a specialization of
PersonDescription to associate properties for fugitives</rdfs:comment>
</owl:Class>
<owl:DatatypeProperty rdf:ID="alias">
  <rdfs:domain rdf:resource="#FugitiveDescription"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="dateOfBirthUsed">
  <rdfs:domain rdf:resource="#FugitiveDescription"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<!-- ===== -->
<!-- Define Terrorist Class and Property Definitions -->
<!-- ===== -->
<owl:Class rdf:ID="Terrorist">
  <rdfs:subClassOf rdf:resource="#Fugitive"/>
  <rdfs:label>Terrorist</rdfs:label>
  <rdfs:comment>This class represents a specialization of fugitives
that are suspected terrorist</rdfs:comment>
</owl:Class>
<!-- ===== -->
<!-- Define Terrorist Description Class and Property Definitions --
>
<!-- ===== -->
<owl:Class rdf:ID="TerroristDescription">
  <rdfs:subClassOf rdf:resource="#FugitiveDescription"/>
  <rdfs:label>Terrorist Description</rdfs:label>
  <rdfs:comment>This class represents a specialization of
FugitiveDescription to associate properties for terrorists</rdfs:comment>
</owl:Class>

```



```

<owl:DatatypeProperty rdf:ID="language">
  <rdfs:domain rdf:resource="#TerroristDescription"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<!-- ===== -->
<owl:Restriction rdf:ID="r-source">
  <owl:onProperty rdf:resource="#source"/>
  <owl:allValuesFrom
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Bibliographic/ver/
0.1.0/Bibliographic-ont#Bibliographic"/>
  </owl:Restriction>
  <owl:ObjectProperty rdf:ID="source">
    <rdfs:label>Source</rdfs:label>
  </owl:ObjectProperty>
</rdf:RDF>

```

Appendix R: Intelligence Report Ontology

```

<?xml version="1.0" ?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:daml="http://www.daml.org/2001/03/daml+oil#"
  xmlns:xsd="http://www.w3.org/2000/10/XMLSchema#"
  xmlns:dc="http://orlando.drc.com/daml/ontology/DC/3.1/dces-ont#"
  xmlns:ves="http://orlando.drc.com/daml/ontology/VES/3.1/drc-ves-ont#"

  xmlns:imo="http://orlando.drc.com/daml/ontology/Intelligence/Report/3.1.1/Intel-Report-ont#"
  xmlns="http://orlando.drc.com/daml/ontology/Intelligence/Report/3.1.1/Intel-Report-ont#"
>
  <!-- IntelligenceReport Ontology -->
  <daml:Ontology rdf:about="">
    <dc:title>Intelink Managment Office - Sample Intelligence
Report</dc:title>

    <ves:previous>http://orlando.drc.com/daml/ontology/Intelligence/Report/3.1/Intel-Report-ont.daml</ves:previous>

    <ves:location>http://orlando.drc.com/daml/ontology/Intelligence/Report/3.1.1/Intel-Report-ont.daml</ves:location>
    <ves:version>3.1.1</ves:version>
    <ves:email>TeamXML@drc.com</ves:email>
    <dc:creator>DRC</dc:creator>
    <ves:statusDate>2001-09-29</ves:statusDate>
    <ves:status>published</ves:status>
    <daml:imports rdf:resource="http://www.daml.org/2001/03/daml+oil"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/ontology/VES/3.1/drc-ves-ont"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/Ontology/daml-extension/3.1/daml-ext-ont"/>
    <daml:comment>Intelink Report ontology, with data types taken from
XML Schema</daml:comment>
  </daml:Ontology>

  <!-- ===== -->
  <!-- Class and Property Definitions -->
  <!-- ===== -->

  <daml:Class rdf:ID="IntelligenceReport">
    <daml:label>Report</daml:label>
    <daml:comment>This class represents an IntelLink Intelligence
Report</daml:comment>
  </daml:Class>
  <daml:ObjectProperty rdf:ID="conclusion">
    <daml:domain rdf:resource="#IntelligenceReport"/>
    <daml:range rdf:resource="#Conclusion"/>
  </daml:ObjectProperty>
  <daml:ObjectProperty rdf:ID="event">
    <daml:domain rdf:resource="#IntelligenceReport"/>
    <daml:range rdf:resource="#Event"/>
  </daml:ObjectProperty>
  <daml:ObjectProperty rdf:ID="metadata">

```

```

        <daml:domain rdf:resource="#IntelligenceReport"/>
        <daml:range rdf:resource="#Metadata"/>
    </daml:ObjectProperty>

    <daml:Class rdf:ID="Event">
        <daml:label>Event</daml:label>
        <daml:comment>This class represents a major event that is documented
within a Report</daml:comment>
    </daml:Class>
    <daml:DatatypeProperty rdf:ID="analysis">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:ObjectProperty rdf:ID="reporter">
        <daml:domain rdf:resource="#Event"/>
        <daml:range rdf:resource="#Person"/>
    </daml:ObjectProperty >
    <daml:ObjectProperty rdf:ID="activity">
        <daml:domain rdf:resource="#Event"/>
        <daml:range rdf:resource="#Activity"/>
    </daml:ObjectProperty >
    <daml:ObjectProperty rdf:ID="note">
        <daml:domain rdf:resource="#Event"/>
        <daml:range rdf:resource="#Note"/>
    </daml:ObjectProperty >
    <daml:ObjectProperty rdf:ID="predecessor">
        <daml:domain rdf:resource="#Event"/>
        <daml:range rdf:resource="#Event"/>
    </daml:ObjectProperty >
    <daml:DatatypeProperty rdf:ID="eventType">
        <daml:domain rdf:resource="#Event"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>

    <daml:Class rdf:ID="Activity">
        <daml:label>Activity</daml:label>
        <daml:comment>This class represents an Activity that occurs within
an Event</daml:comment>
    </daml:Class>
    <daml:ObjectProperty rdf:ID="directObject">
        <daml:domain rdf:resource="#Activity"/>
        <daml:range rdf:resource="#Person"/>
        <daml:range rdf:resource="#Vehicle"/>
        <daml:range rdf:resource="#Organization"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="indirectObject">
        <daml:domain rdf:resource="#Activity"/>
        <daml:range rdf:resource="#Person"/>
        <daml:range rdf:resource="#Vehicle"/>
        <daml:range rdf:resource="#Organization"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="subject">
        <daml:domain rdf:resource="#Activity"/>
        <daml:range rdf:resource="#Person"/>

```

```

        <daml:range rdf:resource="#Vehicle"/>
        <daml:range rdf:resource="#Organization"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="source">
        <daml:domain rdf:resource="#Activity"/>
        <daml:range rdf:resource="#Person"/>
        <daml:range rdf:resource="#Vehicle"/>
        <daml:range rdf:resource="#Organization"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="timeframe">
        <daml:domain rdf:resource="#Activity"/>
        <daml:range rdf:resource="#Timeframe"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="location">
        <daml:domain rdf:resource="#Activity"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="resultedIn">
        <daml:domain rdf:resource="#Activity"/>
        <daml:range rdf:resource="#Activity"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="willResultIn">
        <daml:domain rdf:resource="#Activity"/>
        <daml:range rdf:resource="#Activity"/>
    </daml:ObjectProperty>
    <daml:DatatypeProperty rdf:ID="frequency">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:domain rdf:resource="#Activity"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="rationale">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:domain rdf:resource="#Activity"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="duration">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:domain rdf:resource="#Activity"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="verb">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>

    <daml:Class rdf:ID="Note">
        <daml:label>Note</daml:label>
        <daml:comment>This class is used to associate textual notes with an
instance of a class</daml:comment>

```

```

    </daml:Class>
    <daml:DatatypeProperty rdf:ID="comment">
      <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
      <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:ObjectProperty rdf:ID="regarding">
      <daml:domain rdf:resource="#Note"/>
      <daml:range rdf:resource="#Activity"/>
      <daml:range rdf:resource="#Person"/>
      <daml:range rdf:resource="#Timeframe"/>
      <daml:range rdf:resource="#Organization"/>
    </daml:ObjectProperty>

    <daml:Class rdf:ID="Conclusion">
      <daml:label>Conclusion</daml:label>
      <daml:comment>This class represents conclusion of intelligence report
analysis</daml:comment>
    </daml:Class>
    <daml:ObjectProperty rdf:ID="conclusionEvent">
      <daml:domain rdf:resource="#Conclusion"/>
      <daml:range rdf:resource="#Event"/>
    </daml:ObjectProperty>

    <daml:Class rdf:ID="Metadata">
      <daml:label>Metadata</daml:label>
      <daml:comment>This class represents metadata information about the
intelligence report</daml:comment>
    </daml:Class>
    <daml:DatatypeProperty rdf:ID="property">
      <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
      <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="value">
      <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
      <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>

    <!-- ===== -->
    <!-- Person and Related Class and Property Definitions -->
    <!-- ===== -->

    <daml:Class rdf:ID="Person">
      <daml:label>Person</daml:label>
      <daml:comment>This class represents individual
humanoids</daml:comment>
    </daml:Class>
    <daml:DatatypeProperty rdf:ID="role">

```

```

        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:ObjectProperty rdf:ID="locatedIn">
        <daml:domain rdf:resource="#Person"/>
        <daml:domain rdf:resource="#Building"/>
        <daml:range rdf:resource="#LocationArea"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="describedAs">
        <daml:domain rdf:resource="#Person"/>
        <daml:range rdf:resource="#PersonDescription"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="memberOf">
        <daml:domain rdf:resource="#Person"/>
        <daml:range rdf:resource="#Organization"/>
    </daml:ObjectProperty>

    <daml:Class rdf:ID="PersonDescription">
        <daml:label>PersonDescription</daml:label>
        <daml:comment>This class represents descriptions of instances of the
Person class</daml:comment>
    </daml:Class>
    <daml:DatatypeProperty rdf:ID="agerange">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="build">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="clothing">
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="complexion">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:ObjectProperty rdf:ID="driving">
        <daml:domain rdf:resource="#PersonDescription"/>
        <daml:range rdf:resource="#Vehicle"/>
    </daml:ObjectProperty>
    <daml:DatatypeProperty rdf:ID="generalheight">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="hair">

```

```

        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="height">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="heightQualifier">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="sex">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>

    <!-- ===== -->
    <!-- Vehicle and Related Class and Property Definitions -->
    <!-- ===== -->

    <daml:Class rdf:ID="Equipment">
        <daml:label>Equipment</daml:label>
        <daml:comment>This class represents equipment
entities</daml:comment>
    </daml:Class>
    <daml:DatatypeProperty rdf:ID="description">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>

    <daml:Class rdf:ID="Vehicle">
        <daml:label>Vehicle</daml:label>
        <daml:comment>This class represents individual
conveyances</daml:comment>
        <daml:subClassOf rdf:resource="#Equipment"/>
    </daml:Class>
    <daml:DatatypeProperty rdf:ID="color">
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:ObjectProperty rdf:ID="drivenBy">
        <daml:domain rdf:resource="#Vehicle"/>
        <daml:range rdf:resource="#Person"/>
    </daml:ObjectProperty>
    <daml:DatatypeProperty rdf:ID="size">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>

```



```

        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>
        <daml:DatatypeProperty rdf:ID="status">
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>

        <daml:Class rdf:ID="Automobile">
        <daml:label>Automobile</daml:label>
        <daml:comment>This class represents cars</daml:comment>
        <daml:subClassOf rdf:resource="#Vehicle"/>
        </daml:Class>

        <daml:Class rdf:ID="Motorcycle">
        <daml:label>Motorcycle</daml:label>
        <daml:comment>This class represents two wheeled motorized
vehicles</daml:comment>
        <daml:subClassOf rdf:resource="#Vehicle"/>
        <daml:disjointWith rdf:resource="#Automobile"/>
        </daml:Class>

        <!-- ===== -->
        <!-- Timeframe Class and Property Definitions -->
        <!-- ===== -->
        <!-- Note: the properties associated with this class should eventually
evolve into XML Schema date types -->
        <!-- ===== -->
        <daml:Class rdf:ID="Timeframe">
        <daml:label>Timeframe</daml:label>
        <daml:comment>This class represents a specific date or range of
dates</daml:comment>
        </daml:Class>
        <daml:DatatypeProperty rdf:ID="day">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>
        <daml:DatatypeProperty rdf:ID="month">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>
        <daml:DatatypeProperty rdf:ID="year">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        </daml:DatatypeProperty>

        <!-- ===== -->
        <!-- Organization and Related Class and Property Definitions -->
        <!-- ===== -->
        <daml:Class rdf:ID="Organization">
        <daml:label>Organization</daml:label>

```

```

        <daml:comment>This class represents groups that contain instances of
Person and/or Organization</daml:comment>
    </daml:Class>
    <daml:ObjectProperty rdf:ID="partOf">
        <daml:domain rdf:resource="#Organization"/>
        <daml:range rdf:resource="#Organization"/>
    </daml:ObjectProperty>

    <daml:Class rdf:ID="TerroristOrganization">
        <daml:label>Terrorist Organization</daml:label>
        <daml:comment>This class represents a Terrorist
Organization</daml:comment>
        <daml:subClassOf rdf:resource="#Organization"/>
    </daml:Class>
    <daml:ObjectProperty rdf:ID="base">
        <daml:domain rdf:resource="#TerroristOrganization"/>
        <daml:range rdf:resource="#LocationArea"/>
    </daml:ObjectProperty>
    <daml:DatatypeProperty rdf:ID="character">
        <daml:type
rdf:resource="http://www.daml.org/2001/03/daml+oil#UniqueProperty"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    </daml:DatatypeProperty>
    <daml:ObjectProperty rdf:ID="formedIn">
        <daml:domain rdf:resource="#TerroristOrganization"/>
        <daml:range rdf:resource="#Timeframe"/>
    </daml:ObjectProperty>

    <!-- ===== -->
    <!-- LocationArea and Related Class and Property Definitions -->
    <!-- ===== -->

    <daml:Class rdf:ID="LocationArea">
        <daml:label>LocationArea</daml:label>
        <daml:comment>This class represents a location representing a region
or area</daml:comment>
    </daml:Class>
    <daml:ObjectProperty rdf:ID="within">
        <daml:domain rdf:resource="#LocationArea"/>
        <daml:range rdf:resource="#LocationArea"/>
        <daml:range rdf:resource="#Country"/>
    </daml:ObjectProperty>

    <daml:Class rdf:ID="Country">
        <daml:label>Country</daml:label>
        <daml:comment>This class represents countries</daml:comment>
        <daml:subClassOf rdf:resource="#LocationArea"/>
    </daml:Class>

    <daml:Class rdf:ID="Building">
        <daml:label>Building</daml:label>
        <daml:comment>This class represents a specific
building</daml:comment>
    </daml:Class>

</rdf:RDF>

```

Appendix S: ArmyEQ Ontologies

```
<?xml version="1.0"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:daml="http://www.daml.org/2001/03/daml+oil#"
  xmlns:xsd="http://www.w3.org/2000/10/XMLSchema#"
  xmlns:dc="http://orlando.drc.com/daml/ontology/DC/G3/dces-ont-g3r1#"
  xmlns:ves="http://orlando.drc.com/daml/ontology/VES/G3/drc-ves-ont-
g3r1#"
  xmlns:poc="http://orlando.drc.com/daml/ontology/POC/G3/POC-ont-g3r1#"
  xmlns="http://orlando.drc.com/daml/ontology/POC/G3/POC-ont-g3r1#"

  xmlns:armyEQ="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-
ont-1.0v.daml#"

  xmlns:armyEQUOM="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUO
M-ont-1.0v.daml#"
>
  <!-- An Army AN GVS-5 Sight Equipment Model -->
  <!-- mark DAML program action item 12 as complete -->
  <daml:Ontology about="">
    <dc:title>POC Ontology</dc:title>

    <ves:location>http://orlando.drc.com/daml/ontology/POC/G3/POC-
ont-g3r1.daml</ves:location>

    <ves:previous>http://orlando.drc.com/daml/ontology/POC/2.X/POC-
ont-2.0v.daml</ves:previous>
    <ves:version>3.1</ves:version>
    <ves:email>TeamXML@drc.com</ves:email>
    <dc:creator>DRC</dc:creator>
    <dc:date>25 Sep 2001</dc:date>
    <daml:imports
rdf:resource="http://www.daml.org/2001/03/daml+oil"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/ontology/VES/G3/drc-ves-ont-
g3r1"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/Ontology/daml-
extension/G3/daml-ext-ont-g3r1"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-
ont-1.0v.daml#"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUOM
-ont-1.0v.daml#"/>
    <daml:comment>A Point of Contact Ontology</daml:comment>
  </daml:Ontology>
  <!-- Army Equipment Sensor Optic -->
  <armyEQ:SensorOptic rdf:ID="ANGVS-5">
    <armyEQ:lightLevel>
```

```

        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:lightLevel>
    <armyEQ:probOfDetectionDist>
        <armyEQ:value>8000</armyEQ:value>
        <armyEQ:uom>meters</armyEQ:uom>
    </armyEQ:probOfDetectionDist>
    <armyEQ:maxRecognition>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxRecognition>
    <armyEQ:identificationRange>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:identificationRange>

    <armyEQ:narrowMagnification>TBD</armyEQ:narrowMagnification>
    <armyEQ:wideMagnification>TBD</armyEQ:wideMagnification>

    <armyEQ:wideHorizFieldOfView>TBD</armyEQ:wideHorizFieldOfView>

    <armyEQ:wideVertFieldOfView>TBD</armyEQ:wideVertFieldOfView>

    <armyEQ:narrowHorizFieldOfView>TBD</armyEQ:narrowHorizFieldOfView>
>

    <armyEQ:narrowVertFieldOfView>TBD</armyEQ:narrowVertFieldOfView>
    </armyEQ:SensorOptic>
    <!-- Army Equipment Sensor -->
    <armyEQ:Sensor rdf:about="ANGVS-5">
        <armyEQ:imageTypeInfo>TBD</armyEQ:imageTypeInfo>
        <armyEQ:missionTypeInfo>Observation and Laser range finding
for target acquisition.</armyEQ:missionTypeInfo>
        <armyEQ:maxSensorRange>
            <armyEQ:value>900</armyEQ:value>
            <armyEQ:uom>meters</armyEQ:uom>
        </armyEQ:maxSensorRange>
        <armyEQ:nightDegradation>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:nightDegradation>
        <armyEQ:sensorDiagraph>TBD</armyEQ:sensorDiagraph>
        <armyEQ:rainDegradation>TBD</armyEQ:rainDegradation>
        <armyEQ:snowDegradation>TBD</armyEQ:snowDegradation>

    <armyEQ:obscurationDegradation>TBD</armyEQ:obscurationDegradation>
>

        <armyEQ:Active>TBD</armyEQ:Active>
    </armyEQ:Sensor>
    <!-- Army Equipment Component -->
    <armyEQ:Component rdf:about="ANGVS-5">
        <armyEQ:crewSize>TBD</armyEQ:crewSize>
        <armyEQ:maxEmplacementTime>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxEmplacementTime>
        <armyEQ:maxDisplacementTime>

```

```

        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxDisplacementTime>
    <armyEQ:mtbf>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:mtbf>
    <armyEQ:mttr>
        <armyEQ:value>2.0</armyEQ:value>
        <armyEQ:uom>hours</armyEQ:uom>
    </armyEQ:mttr>
    <armyEQ:failureNotes>TBD</armyEQ:failureNotes>
    <armyEQ:componentNotes>TBD</armyEQ:componentNotes>
</armyEQ:Component>
<!-- Army Equipment Item Nomenclature -->

    <armyEQ:ItemNomenclature rdf:about="ANGVS-5">
        <armyEQ:model>AN /GVS-5</armyEQ:model>
        <armyEQ:commonName>Laser Rangefinder</armyEQ:commonName>
        <armyEQ:nomenclature>SET, Laser infrared observation
device</armyEQ:nomenclature>
        <armyEQ:lin>L41005</armyEQ:lin>
        <armyEQ:nsn>5987-01-067-3759</armyEQ:nsn>
        <armyEQ:supplyClass>VII G</armyEQ:supplyClass>
        <armyEQ:itemNomenclatureNotes>A lightweight, hand-held,
binocular-like laser rangefinder used for observation and target
acquisition.</armyEQ:itemNomenclatureNotes>
        <armyEQ:itemType>sensorOptic</armyEQ:itemType>
    </armyEQ:ItemNomenclature>
</rdf:RDF>
<?xml version="1.0"?>
<rdf:RDF
    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
    xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
    xmlns:daml="http://www.daml.org/2001/03/daml+oil#"
    xmlns:xsd="http://www.w3.org/2000/10/XMLSchema#"
    xmlns:dc="http://orlando.drc.com/daml/ontology/DC/G3/dces-ont-g3r1#"
    xmlns:ves="http://orlando.drc.com/daml/ontology/VES/G3/drc-ves-ont-
g3r1#"
    xmlns:poc="http://orlando.drc.com/daml/ontology/POC/G3/POC-ont-g3r1#"
    xmlns="http://orlando.drc.com/daml/ontology/POC/G3/POC-ont-g3r1#"

    xmlns:armyEQ="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-
ont-1.0v.daml#"

    xmlns:armyEQUOM="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUO
M-ont-1.0v.daml#"
>
    <!-- An Army AN GVS-5 Sight Equipment Model -->
    <!-- mark DAML program action item 12 as complete -->
    <daml:Ontology about="">
        <dc:title>POC Ontology</dc:title>

        <ves:location>http://orlando.drc.com/daml/ontology/POC/G3/POC-
ont-g3r1.daml</ves:location>

```

```

    <ves:previous>http://orlando.drc.com/daml/ontology/POC/2.X/POC-
ont-2.0v.daml</ves:previous>
    <ves:version>3.1</ves:version>
    <ves:email>TeamXML@drc.com</ves:email>
    <dc:creator>DRC</dc:creator>
    <dc:date>25 Sep 2001</dc:date>
    <daml:imports
rdf:resource="http://www.daml.org/2001/03/daml+oil"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/ontology/VES/G3/drc-ves-ont-
g3r1"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/Ontology/daml-
extension/G3/daml-ext-ont-g3r1"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-
ont-1.0v.daml#"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUOM
-ont-1.0v.daml#"/>
    <daml:comment>A Point of Contact Ontology</daml:comment>
</daml:Ontology>
<!-- Army Equipment Sensor Optic -->
<armyEQ:SensorOptic rdf:ID="ANGVS-5">
    <armyEQ:lightLevel>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:lightLevel>
    <armyEQ:probOfDetectionDist>
        <armyEQ:value>8000</armyEQ:value>
        <armyEQ:uom>meters</armyEQ:uom>
    </armyEQ:probOfDetectionDist>
    <armyEQ:maxRecognition>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxRecognition>
    <armyEQ:identificationRange>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:identificationRange>

    <armyEQ:narrowMagnification>TBD</armyEQ:narrowMagnification>
    <armyEQ:wideMagnification>TBD</armyEQ:wideMagnification>

    <armyEQ:wideHorizFieldOfView>TBD</armyEQ:wideHorizFieldOfView>

    <armyEQ:wideVertFieldOfView>TBD</armyEQ:wideVertFieldOfView>

    <armyEQ:narrowHorizFieldOfView>TBD</armyEQ:narrowHorizFieldOfView
>

    <armyEQ:narrowVertFieldOfView>TBD</armyEQ:narrowVertFieldOfView>
</armyEQ:SensorOptic>
<!-- Army Equipment Sensor -->
<armyEQ:Sensor rdf:about="ANGVS-5">

```

```

        <armyEQ:imageTypeInfo>TBD</armyEQ:imageTypeInfo>
        <armyEQ:missionTypeInfo>Observation and Laser range finding
for target acquisition.</armyEQ:missionTypeInfo>
        <armyEQ:maxSensorRange>
                <armyEQ:value>900</armyEQ:value>
                <armyEQ:uom>meters</armyEQ:uom>
        </armyEQ:maxSensorRange>
        <armyEQ:nightDegradation>
                <armyEQ:value>TBD</armyEQ:value>
                <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:nightDegradation>
        <armyEQ:sensorDiagraph>TBD</armyEQ:sensorDiagraph>
        <armyEQ:rainDegradation>TBD</armyEQ:rainDegradation>
        <armyEQ:snowDegradation>TBD</armyEQ:snowDegradation>

        <armyEQ:obscurationDegradation>TBD</armyEQ:obscurationDegradation
>
        <armyEQ:Active>TBD</armyEQ:Active>
</armyEQ:Sensor>
<!-- Army Equipment Component -->
<armyEQ:Component rdf:about="ANGVS-5">
        <armyEQ:crewSize>TBD</armyEQ:crewSize>
        <armyEQ:maxEmplacementTime>
                <armyEQ:value>TBD</armyEQ:value>
                <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxEmplacementTime>
        <armyEQ:maxDisplacementTime>
                <armyEQ:value>TBD</armyEQ:value>
                <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxDisplacementTime>
        <armyEQ:mtbf>
                <armyEQ:value>TBD</armyEQ:value>
                <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:mtbf>
        <armyEQ:mttr>
                <armyEQ:value>2.0</armyEQ:value>
                <armyEQ:uom>hours</armyEQ:uom>
        </armyEQ:mttr>
        <armyEQ:failureNotes>TBD</armyEQ:failureNotes>
        <armyEQ:componentNotes>TBD</armyEQ:componentNotes>
</armyEQ:Component>
<!-- Army Equipment Item Nomenclature -->

<armyEQ:ItemNomenclature rdf:about="ANGVS-5">
        <armyEQ:model>AN /GVS-5</armyEQ:model>
        <armyEQ:commonName>Laser Rangefinder</armyEQ:commonName>
        <armyEQ:nomenclature>SET, Laser infrared observation
device</armyEQ:nomenclature>
        <armyEQ:lin>L41005</armyEQ:lin>
        <armyEQ:nsn>5987-01-067-3759</armyEQ:nsn>
        <armyEQ:supplyClass>VII G</armyEQ:supplyClass>
        <armyEQ:itemNomenclatureNotes>A lightweight, hand-held,
binocular-like laser rangefinder used for observation and target
acquisition.</armyEQ:itemNomenclatureNotes>
        <armyEQ:itemType>sensorOptic</armyEQ:itemType>
</armyEQ:ItemNomenclature>
</rdf:RDF>

```

```

<?xml version="1.0"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns="http://www.daml.org/2000/10/daml-ont#"
xmlns:daml="http://www.daml.org/2000/10/daml-ont#"
xmlns:armyEQ="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#"
xmlns:armyEQUOM="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUO
M-ont-1.0v.daml#"
xmlns:a="https://www.daml.org/actionitems/actionitems-20000905.rdfs#">
  <!-- An Army AN PVS-4 Sight Equipment Model -->
  <!-- mark DAML program action item 12 as complete -->
  <rdf:Description about="https://www.daml.org/actionitems/12.rdf">
    <a:state>closed</a:state>
    <a:Action>
      <a:status>available at
http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml</a:status>
      <a:date>2000-10-31</a:date>
      <a:by>TeamXML@drc.com</a:by>
    </a:Action>
  </rdf:Description>
  <Ontology about="">
    <versionInfo>$Id: ArmyEQ-AN_PVS-4Sight-ont-1.0v.daml, v
1.0, 2000/12/1 $</versionInfo>
    <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#" />
    <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUOM-ont-
1.0v.daml daml#" />
  </Ontology>
  <!-- Army Equipment Sensor Optic -->
  <armyEQ:SensorOptic ID="ANPVS4">
    <armyEQ:lightLevel>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:lightLevel>
    <armyEQ:probOfDetectionDist>
      <armyEQ:value>900</armyEQ:value>
      <armyEQ:uom>meters</armyEQ:uom>
    </armyEQ:probOfDetectionDist>
    <armyEQ:maxRecognition>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxRecognition>
    <armyEQ:identificationRange>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:identificationRange>

    <armyEQ:narrowMagnification>TBD</armyEQ:narrowMagnification>
    <armyEQ:wideMagnification>TBD</armyEQ:wideMagnification>

    <armyEQ:wideHorizFieldOfView>20</armyEQ:wideHorizFieldOfView>
    <armyEQ:wideVertFieldOfView>20</armyEQ:wideVertFieldOfView>

```



```

    <armyEQ:narrowHorizFieldOfView>TBD</armyEQ:narrowHorizFieldOfView>
>

    <armyEQ:narrowVertFieldOfView>TBD</armyEQ:narrowVertFieldOfView>
  </armyEQ:SensorOptic>
  <!-- Army Equipment Sensor -->
  <armyEQ:Sensor about="ANPVS4">
    <armyEQ:imageTypeInfo>image
  intensifier</armyEQ:imageTypeInfo>
    <armyEQ:missionTypeInfo>Observation and Aimed
  Fire</armyEQ:missionTypeInfo>
    <armyEQ:maxSensorRange>
      <armyEQ:value>900</armyEQ:value>
      <armyEQ:uom>meters</armyEQ:uom>
    </armyEQ:maxSensorRange>
    <armyEQ:nightDegradation>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:nightDegradation>
    <armyEQ:sensorDiagraph>95</armyEQ:sensorDiagraph>
    <armyEQ:rainDegradation>TBD</armyEQ:rainDegradation>
    <armyEQ:snowDegradation>TBD</armyEQ:snowDegradation>

    <armyEQ:obscurationDegradation>56</armyEQ:obscurationDegradation>
    <armyEQ:Active>TBD</armyEQ:Active>
  </armyEQ:Sensor>
  <!-- Army Equipment Component -->
  <armyEQ:Component about="ANPVS4">
    <armyEQ:crewSize>TBD</armyEQ:crewSize>
    <armyEQ:maxEmplacementTime>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxEmplacementTime>
    <armyEQ:maxDisplacementTime>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxDisplacementTime>
    <armyEQ:mtbf>
      <armyEQ:value>100</armyEQ:value>
      <armyEQ:uom>hours</armyEQ:uom>
    </armyEQ:mtbf>
    <armyEQ:mttr>
      <armyEQ:value>1</armyEQ:value>
      <armyEQ:uom>hours</armyEQ:uom>
    </armyEQ:mttr>
    <armyEQ:failureNotes>TBD</armyEQ:failureNotes>
    <armyEQ:componentNotes>TBD</armyEQ:componentNotes>
  </armyEQ:Component>
  <!-- Army Equipment Item Nomenclature -->
  <armyEQ:ItemNomenclature about="ANPVS4">
    <armyEQ:model>AN /PVS-4</armyEQ:model>
    <armyEQ:commonName>Night Vision Site, Individual
  Weapon</armyEQ:commonName>
    <armyEQ:nomenclature>Night Vision Site, Individual
  Weapon</armyEQ:nomenclature>
    <armyEQ:lin>R52369</armyEQ:lin>

```

```

        <armyEQ:nsn>4569-12-956-3598</armyEQ:nsn>
        <armyEQ:supplyClass>VII G</armyEQ:supplyClass>
        <armyEQ:itemNomenclatureNotes>A portable, battery-operated
electro-optical image intensifier.</armyEQ:itemNomenclatureNotes>
        <armyEQ:itemType>sensorOptic</armyEQ:itemType>
    </armyEQ:ItemNomenclature>
</rdf:RDF>
<?xml version="1.0"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns="http://www.daml.org/2000/10/daml-ont#"
xmlns:daml="http://www.daml.org/2000/10/daml-ont#"
xmlns:armyEQ="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#"
xmlns:armyEQUOM="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUO
M-ont-1.0v.daml#"
xmlns:a="https://www.daml.org/actionitems/actionitems-20000905.rdfs#">
    <!-- An Army AN PVS-4 Sight Equipment Model -->
    <!-- mark DAML program action item 12 as complete -->
    <rdf:Description about="https://www.daml.org/actionitems/12.rdf">
        <a:state>closed</a:state>
        <a:Action>
            <a:status>available at
http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml</a:status>
            <a:date>2000-10-31</a:date>
            <a:by>TeamXML@drc.com</a:by>
        </a:Action>
    </rdf:Description>
    <Ontology about="">
        <versionInfo>$Id: ArmyEQ-AN_PVS-4Sight-ont-1.0v.daml, v
1.0, 2000/12/1 $</versionInfo>
        <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#" />
        <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUOM-ont-
1.0v.daml daml#" />
    </Ontology>
    <!-- Army Equipment Sensor Optic -->
    <armyEQ:SensorOptic ID="ANPVS4">
        <armyEQ:lightLevel>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:lightLevel>
        <armyEQ:probOfDetectionDist>
            <armyEQ:value>900</armyEQ:value>
            <armyEQ:uom>meters</armyEQ:uom>
        </armyEQ:probOfDetectionDist>
        <armyEQ:maxRecognition>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxRecognition>
        <armyEQ:identificationRange>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:identificationRange>
    </armyEQ:SensorOptic>

```

```

<armyEQ:narrowMagnification>TBD</armyEQ:narrowMagnification>
  <armyEQ:wideMagnification>TBD</armyEQ:wideMagnification>

<armyEQ:wideHorizFieldOfView>20</armyEQ:wideHorizFieldOfView>
  <armyEQ:wideVertFieldOfView>20</armyEQ:wideVertFieldOfView>

<armyEQ:narrowHorizFieldOfView>TBD</armyEQ:narrowHorizFieldOfView>
>

<armyEQ:narrowVertFieldOfView>TBD</armyEQ:narrowVertFieldOfView>
</armyEQ:SensorOptic>
<!-- Army Equipment Sensor -->
<armyEQ:Sensor about="ANPVS4">
  <armyEQ:imageTypeInfo>image
intenfier</armyEQ:imageTypeInfo>
  <armyEQ:missionTypeInfo>Observation and Aimed
Fire</armyEQ:missionTypeInfo>
  <armyEQ:maxSensorRange>
    <armyEQ:value>900</armyEQ:value>
    <armyEQ:uom>meters</armyEQ:uom>
  </armyEQ:maxSensorRange>
  <armyEQ:nightDegradation>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:nightDegradation>
  <armyEQ:sensorDiagraph>95</armyEQ:sensorDiagraph>
  <armyEQ:rainDegradation>TBD</armyEQ:rainDegradation>
  <armyEQ:snowDegradation>TBD</armyEQ:snowDegradation>

<armyEQ:obscurationDegradation>56</armyEQ:obscurationDegradation>
  <armyEQ:Active>TBD</armyEQ:Active>
</armyEQ:Sensor>
<!-- Army Equipment Component -->
<armyEQ:Component about="ANPVS4">
  <armyEQ:crewSize>TBD</armyEQ:crewSize>
  <armyEQ:maxEmplacementTime>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:maxEmplacementTime>
  <armyEQ:maxDisplacementTime>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:maxDisplacementTime>
  <armyEQ:mtbf>
    <armyEQ:value>100</armyEQ:value>
    <armyEQ:uom>hours</armyEQ:uom>
  </armyEQ:mtbf>
  <armyEQ:mttr>
    <armyEQ:value>1</armyEQ:value>
    <armyEQ:uom>hours</armyEQ:uom>
  </armyEQ:mttr>
  <armyEQ:failureNotes>TBD</armyEQ:failureNotes>
  <armyEQ:componentNotes>TBD</armyEQ:componentNotes>
</armyEQ:Component>
<!-- Army Equipment Item Nomenclature -->
<armyEQ:ItemNomenclature about="ANPVS4">

```

```

        <armyEQ:model>AN /PVS-4</armyEQ:model>
        <armyEQ:commonName>Night Vision Site, Individual
Weapon</armyEQ:commonName>
        <armyEQ:nomenclature>Night Vision Site, Individual
Weapon</armyEQ:nomenclature>
        <armyEQ:lin>R52369</armyEQ:lin>
        <armyEQ:nsn>4569-12-956-3598</armyEQ:nsn>
        <armyEQ:supplyClass>VII G</armyEQ:supplyClass>
        <armyEQ:itemNomenclatureNotes>A portable, battery-oeparted
electro-optical image intensifier.</armyEQ:itemNomenclatureNotes>
        <armyEQ:itemType>sensorOptic</armyEQ:itemType>
    </armyEQ:ItemNomenclature>
</rdf:RDF>
<?xml version="1.0"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns="http://www.daml.org/2000/10/daml-ont#"
xmlns:daml="http://www.daml.org/2000/10/daml-ont#"
xmlns:armyEQ="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#"
xmlns:armyEQUOM="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUO
M-ont-1.0v.daml#"
xmlns:a="https://www.daml.org/actionitems/actionitems-20000905.rdfs#">
    <!-- An Army AN VRC-91A Communication Radio Equipment Model -->
    <!-- mark DAML program action item 12 as complete -->
    <rdf:Description about="https://www.daml.org/actionitems/12.rdf">
        <a:state>closed</a:state>
        <a:Action>
            <a:status>available at
http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml</a:status>
            <a:date>2000-10-31</a:date>
            <a:by>TeamXML@drc.com</a:by>
        </a:Action>
    </rdf:Description>
    <Ontology about="">
        <versionInfo>$Id: ArmyEQ-AN_VRC-91A-ont-1.0v.daml, v 1.0,
2000/12/1 $</versionInfo>
        <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#"/>
        <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUOM-ont-
1.0v.daml daml#"/>
    </Ontology>
    <!-- Army Equipment Communication Radio -->
    <armyEQ:CommRadio ID="ANVRC91A">
        <armyEQ:azimuthAngle>TBD</armyEQ:azimuthAngle>
        <armyEQ:numberTrans>1</armyEQ:numberTrans>
        <armyEQ:numberRecv>1</armyEQ:numberRecv>
        <armyEQ:power>
            <armyEQ:value>60</armyEQ:value>
            <armyEQ:uom>watts</armyEQ:uom>
        </armyEQ:power>
        <armyEQ:commOperationMode>Voice, Retransmit Digital
data</armyEQ:commOperationMode>
    </armyEQ:CommRadio>
    <!-- Army Equipment Communication Radio Band -->

```

```

<armyEQ:CommRadioBand about="ANVRC91A">
  <armyEQ:typeRadio>Both</armyEQ:typeRadio>
  <armyEQ:maxPlanningRange>
    <armyEQ:value>15</armyEQ:value>
    <armyEQ:uom>kilometers</armyEQ:uom>
  </armyEQ:maxPlanningRange>
  <armyEQ:maxFrequency>
    <armyEQ:value>85.365</armyEQ:value>
    <armyEQ:uom>megahertz</armyEQ:uom>
  </armyEQ:maxFrequency>
  <armyEQ:minFrequency>
    <armyEQ:value>20</armyEQ:value>
    <armyEQ:uom>megahertz</armyEQ:uom>
  </armyEQ:minFrequency>
  <armyEQ:frequencyInterval>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:frequencyInterval>
  <armyEQ:maxRadioChannel>TBD</armyEQ:maxRadioChannel>
  <armyEQ:radioTypeDescription>Composed of a receiver and
transmitter.</armyEQ:radioTypeDescription>

  <armyEQ:modulationDescription>TBD</armyEQ:modulationDescription>
</armyEQ:CommRadioBand>
<!-- Army Equipment Communication Equipment -->
<armyEQ:CommEq about="ANVRC91A">
  <armyEQ:cryptoSystem>RT-1523T</armyEQ:cryptoSystem>
  <armyEQ:cryptTypeInfo>Encrypted voice and
data</armyEQ:cryptTypeInfo>
  <armyEQ:digitalTransmissionRate>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:digitalTransmissionRate>
  <armyEQ:spreadSpectrum>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:spreadSpectrum>
  <armyEQ:typeModulation>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:typeModulation>
</armyEQ:CommEq>
<!-- Army Equipment Component -->
<armyEQ:Component about="ANVRC91A">
  <armyEQ:crewSize>TBD</armyEQ:crewSize>
  <armyEQ:maxEmplacementTime>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:maxEmplacementTime>
  <armyEQ:maxDisplacementTime>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:maxDisplacementTime>
  <armyEQ:mtbf>
    <armyEQ:value>6000</armyEQ:value>
    <armyEQ:uom>hours</armyEQ:uom>
  </armyEQ:mtbf>

```

```

        <armyEQ:mttr>
            <armyEQ:value>1.5</armyEQ:value>
            <armyEQ:uom>hours</armyEQ:uom>
        </armyEQ:mttr>
        <armyEQ:failureNotes>TBD</armyEQ:failureNotes>
        <armyEQ:componentNotes>TBD</armyEQ:componentNotes>
    </armyEQ:Component>
    <!-- Army Equipment Item Nomenclature -->
    <armyEQ:ItemNomenclature about="ANVRC91A">
        <armyEQ:model>AN/VRC-91A</armyEQ:model>
        <armyEQ:commonName>LR AND SR SINCGARS</armyEQ:commonName>
        <armyEQ:nomenclature>RADIO SET, Range</armyEQ:nomenclature>
        <armyEQ:lin>G53949</armyEQ:lin>
        <armyEQ:nsn>4537-56-985-6359</armyEQ:nsn>
        <armyEQ:supplyClass>VII G</armyEQ:supplyClass>
        <armyEQ:itemNomenclatureNotes>It recieves and transmits FM
signals.</armyEQ:itemNomenclatureNotes>
        <armyEQ:itemType>commRadio</armyEQ:itemType>
    </armyEQ:ItemNomenclature>
    <!-- Army Equipment Composite - Communication Equipment and
Communication Antenna (Valid Communication Antenna) -->
    <armyEQ:ValidCommAntenna about="#ANVRC91A">
        <unionOf parseType="daml:collection">
            <CommEq ID="ANVRC91A"/>
            <CommAntenna
ID="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-AS-3900_PRC-
ont-1.0v.daml#"/>
        </unionOf>
    </armyEQ:ValidCommAntenna>
    <armyEQ:ValidCommAntenna about="#ANVRC91A">
        <unionOf parseType="daml:collection">
            <CommEq about="ANVRC91A"/>
            <CommAntenna
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-AS-
3916_PRC-ont-1.0v.daml#"/>
        </unionOf>
    </armyEQ:ValidCommAntenna>
</rdf:RDF>
<?xml version="1.0"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns="http://www.daml.org/2000/10/daml-ont#"
xmlns:daml="http://www.daml.org/2000/10/daml-ont#"
xmlns:armyEQ="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#"
xmlns:armyEQUOM="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUO
M-ont-1.0v.daml#"
xmlns:a="https://www.daml.org/actionitems/actionitems-20000905.rdfs#">
    <!-- An Army AN VRC-91A Communication Radio Equipment Model -->
    <!-- mark DAML program action item 12 as complete -->
    <rdf:Description about="https://www.daml.org/actionitems/12.rdf">
        <a:state>closed</a:state>
        <a:Action>
            <a:status>available at
http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml</a:status>
            <a:date>2000-10-31</a:date>
            <a:by>TeamXML@drc.com</a:by>

```

```

        </a:Action>
    </rdf:Description>
    <Ontology about="">
        <versionInfo>$Id: ArmyEQ-AN_VRC-91A-ont-1.0v.daml, v 1.0,
2000/12/1 $</versionInfo>
        <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#" />
        <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUOM-ont-
1.0v.daml daml#" />
    </Ontology>
    <!-- Army Equipment Communication Radio -->
    <armyEQ:CommRadio ID="ANVRC91A">
        <armyEQ:azimuthAngle>TBD</armyEQ:azimuthAngle>
        <armyEQ:numberTrans>1</armyEQ:numberTrans>
        <armyEQ:numberRecv>1</armyEQ:numberRecv>
        <armyEQ:power>
            <armyEQ:value>60</armyEQ:value>
            <armyEQ:uom>watts</armyEQ:uom>
        </armyEQ:power>
        <armyEQ:commOperationMode>Voice, Retransmit Digital
data</armyEQ:commOperationMode>
    </armyEQ:CommRadio>
    <!-- Army Equipment Communication Radio Band -->
    <armyEQ:CommRadioBand about="ANVRC91A">
        <armyEQ:typeRadio>Both</armyEQ:typeRadio>
        <armyEQ:maxPlanningRange>
            <armyEQ:value>15</armyEQ:value>
            <armyEQ:uom>kilometers</armyEQ:uom>
        </armyEQ:maxPlanningRange>
        <armyEQ:maxFrequency>
            <armyEQ:value>85.365</armyEQ:value>
            <armyEQ:uom>megahertz</armyEQ:uom>
        </armyEQ:maxFrequency>
        <armyEQ:minFrequency>
            <armyEQ:value>20</armyEQ:value>
            <armyEQ:uom>megahertz</armyEQ:uom>
        </armyEQ:minFrequency>
        <armyEQ:frequencyInterval>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:frequencyInterval>
        <armyEQ:maxRadioChannel>TBD</armyEQ:maxRadioChannel>
        <armyEQ:radioTypeDescription>Composed of a receiver and
transmitter.</armyEQ:radioTypeDescription>

        <armyEQ:modulationDescription>TBD</armyEQ:modulationDescription>
    </armyEQ:CommRadioBand>
    <!-- Army Equipment Communication Equipment -->
    <armyEQ:CommEq about="ANVRC91A">
        <armyEQ:cryptoSystem>RT-1523T</armyEQ:cryptoSystem>
        <armyEQ:cryptTypeInfo>Encrypted voice and
data</armyEQ:cryptTypeInfo>
        <armyEQ:digitalTransmissionRate>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>

```

```

        </armyEQ:digitalTransmissionRate>
        <armyEQ:spreadSpectrum>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:spreadSpectrum>
        <armyEQ:typeModulation>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:typeModulation>
    </armyEQ:CommEq>
    <!-- Army Equipment Component -->
    <armyEQ:Component about="ANVRC91A">
        <armyEQ:crewSize>TBD</armyEQ:crewSize>
        <armyEQ:maxEmplacementTime>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxEmplacementTime>
        <armyEQ:maxDisplacementTime>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxDisplacementTime>
        <armyEQ:mtbf>
            <armyEQ:value>6000</armyEQ:value>
            <armyEQ:uom>hours</armyEQ:uom>
        </armyEQ:mtbf>
        <armyEQ:mttr>
            <armyEQ:value>1.5</armyEQ:value>
            <armyEQ:uom>hours</armyEQ:uom>
        </armyEQ:mttr>
        <armyEQ:failureNotes>TBD</armyEQ:failureNotes>
        <armyEQ:componentNotes>TBD</armyEQ:componentNotes>
    </armyEQ:Component>
    <!-- Army Equipment Item Nomenclature -->
    <armyEQ:ItemNomenclature about="ANVRC91A">
        <armyEQ:model>AN/VRC-91A</armyEQ:model>
        <armyEQ:commonName>LR AND SR SINCGARS</armyEQ:commonName>
        <armyEQ:nomenclature>RADIO SET, Range</armyEQ:nomenclature>
        <armyEQ:lin>G53949</armyEQ:lin>
        <armyEQ:nsn>4537-56-985-6359</armyEQ:nsn>
        <armyEQ:supplyClass>VII G</armyEQ:supplyClass>
        <armyEQ:itemNomenclatureNotes>It recieves and transmits FM
signals.</armyEQ:itemNomenclatureNotes>
        <armyEQ:itemType>commRadio</armyEQ:itemType>
    </armyEQ:ItemNomenclature>
    <!-- Army Equipment Composite - Communication Equipment and
Communication Antenna (Valid Communication Antenna) -->
    <armyEQ:ValidCommAntenna about="#ANVRC91A">
        <unionOf parseType="daml:collection">
            <CommEq ID="ANVRC91A"/>
            <CommAntenna
ID="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-AS-3900_PRC-
ont-1.0v.daml#" />
        </unionOf>
    </armyEQ:ValidCommAntenna>
    <armyEQ:ValidCommAntenna about="#ANVRC91A">
        <unionOf parseType="daml:collection">
            <CommEq about="ANVRC91A"/>

```



```

        <CommAntenna
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-AS-
3916_PRC-ont-1.0v.daml#"/>
        </unionOf>
    </armyEQ:ValidCommAntenna>
</rdf:RDF>
<?xml version="1.0"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns="http://www.daml.org/2000/10/daml-ont#"
xmlns:daml="http://www.daml.org/2000/10/daml-ont#"
xmlns:armyEQ="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#"
xmlns:armyEQUOM="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUO
M-ont-1.0v.daml#"
xmlns:a="https://www.daml.org/actionitems/actionitems-20000905.rdfs#">
    <!-- An Army AS-3900 PRC Atenna Equipment Model -->
    <!-- mark DAML program action item 12 as complete -->
    <rdf:Description about="https://www.daml.org/actionitems/12.rdf">
        <a:state>closed</a:state>
        <a:Action>
            <a:status>available at
http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml</a:status>
            <a:date>2000-10-31</a:date>
            <a:by>TeamXML@drc.com</a:by>
        </a:Action>
    </rdf:Description>
    <Ontology about="">
        <versionInfo>$Id: ArmyEQ-AS-3900_PRC-ont-1.0v.daml, v 1.0,
2000/12/1 $</versionInfo>
        <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#"/>
        <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUOM-ont-
1.0v.daml daml#"/>
    </Ontology>
    <!-- Army Equipment Communication Antenna -->
    <armyEQ:CommAntenna ID="AS3900PRC">
        <armyEQ:typeAntenna>FM</armyEQ:typeAntenna>
        <armyEQ:antennaGain>TBD</armyEQ:antennaGain>
        <armyEQ:antennaHeight>
            <armyEQ:value>245.6</armyEQ:value>
            <armyEQ:uom>centimeters</armyEQ:uom>
        </armyEQ:antennaHeight>
        <armyEQ:antennaPattern>TBD</armyEQ:antennaPattern>
        <armyEQ:antennaDescription>It recieves and transmits FM
signals.</armyEQ:antennaDescription>
    </armyEQ:CommAntenna>
    <!-- Army Equipment Component -->
    <armyEQ:Component about="AS3900PRC">
        <armyEQ:crewSize>TBD</armyEQ:crewSize>
        <armyEQ:maxEmplacementTime>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxEmplacementTime>
        <armyEQ:maxDisplacementTime>

```

```

        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxDisplacementTime>
    <armyEQ:mtbf>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:mtbf>
    <armyEQ:mttr>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:mttr>
    <armyEQ:failureNotes>TBD</armyEQ:failureNotes>
    <armyEQ:componentNotes>TBD</armyEQ:componentNotes>
</armyEQ:Component>
<!-- Army Equipment Item Nomenclature -->
<armyEQ:ItemNomenclature about="AS3900PRC">
    <armyEQ:model>AS-3900/PRC</armyEQ:model>
    <armyEQ:commonName>ANTENNA</armyEQ:commonName>
    <armyEQ:nomenclature>ANTENNA,
Vehicular</armyEQ:nomenclature>
    <armyEQ:lin>546032</armyEQ:lin>
    <armyEQ:nsn>1235-65-849-7635</armyEQ:nsn>
    <armyEQ:supplyClass>VII G</armyEQ:supplyClass>
    <armyEQ:itemNomenclatureNotes>It recieves and transmits FM
signals.</armyEQ:itemNomenclatureNotes>
    <armyEQ:itemType>commAtenna</armyEQ:itemType>
</armyEQ:ItemNomenclature>
</rdf:RDF>
<?xml version="1.0"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns="http://www.daml.org/2000/10/daml-ont#"
xmlns:daml="http://www.daml.org/2000/10/daml-ont#"
xmlns:armyEQ="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#"
xmlns:armyEQUOM="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUO
M-ont-1.0v.daml#"
xmlns:a="https://www.daml.org/actionitems/actionitems-20000905.rdfs#">
    <!-- An Army AS-3916 PRC Atenna Equipment Model -->
    <!-- mark DAML program action item 12 as complete -->
    <rdf:Description about="https://www.daml.org/actionitems/12.rdf">
        <a:state>closed</a:state>
        <a:Action>
            <a:status>available at
http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml</a:status>
            <a:date>2000-10-31</a:date>
            <a:by>TeamXML@drc.com</a:by>
        </a:Action>
    </rdf:Description>
    <Ontology about="">
        <versionInfo>$Id: ArmyEQ-AS-3916_PRC-ont-1.0v.daml, v 1.0,
2000/12/1 $</versionInfo>
        <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#"/>

```

```

    <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUOM-ont-
1.0v.daml daml#" />
    </Ontology>
    <!-- Army Equipment Communication Antenna -->
    <armyEQ:CommAntenna ID="AS3916PRC">
        <armyEQ:typeAntenna>FM</armyEQ:typeAntenna>
        <armyEQ:antennaGain>TBD</armyEQ:antennaGain>
        <armyEQ:antennaHeight>
            <armyEQ:value>200.8</armyEQ:value>
            <armyEQ:uom>centimeters</armyEQ:uom>
        </armyEQ:antennaHeight>
        <armyEQ:antennaPattern>TBD</armyEQ:antennaPattern>
        <armyEQ:antennaDescription>It recieves and transmits FM
signals.</armyEQ:antennaDescription>
    </armyEQ:CommAntenna>
    <!-- Army Equipment Component -->
    <armyEQ:Component about="AS3916PRC">
        <armyEQ:crewSize>TBD</armyEQ:crewSize>
        <armyEQ:maxEmplacementTime>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxEmplacementTime>
        <armyEQ:maxDisplacementTime>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxDisplacementTime>
        <armyEQ:mtbf>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:mtbf>
        <armyEQ:mttr>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:mttr>
        <armyEQ:failureNotes>TBD</armyEQ:failureNotes>
        <armyEQ:componentNotes>TBD</armyEQ:componentNotes>
    </armyEQ:Component>
    <!-- Army Equipment Item Nomenclature -->
    <armyEQ:ItemNomenclature about="AS3916PRC">
        <armyEQ:model>AS-3916/PRC</armyEQ:model>
        <armyEQ:commonName>ANTENNA</armyEQ:commonName>
        <armyEQ:nomenclature>ANTENNA,
Vehicular</armyEQ:nomenclature>
        <armyEQ:lin>TBD</armyEQ:lin>
        <armyEQ:nsn>TBD</armyEQ:nsn>
        <armyEQ:supplyClass>VII G</armyEQ:supplyClass>
        <armyEQ:itemNomenclatureNotes>It recieves and transmits FM
signals.</armyEQ:itemNomenclatureNotes>
        <armyEQ:itemType>commAtenna</armyEQ:itemType>
    </armyEQ:ItemNomenclature>
</rdf:RDF>
<?xml version="1.0"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns="http://www.daml.org/2000/10/daml-ont#"
xmlns:daml="http://www.daml.org/2000/10/daml-ont#"
xmlns:armyEQ="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-

```

```

1.0v.daml#"
xmlns:armyEQUOM="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUO
M-ont-1.0v.daml#"
xmlns:a="https://www.daml.org/actionitems/actionitems-20000905.rdfs#">
  <!-- An Army Armor Piercing Weapon Catridge Equipment Model -->
  <!-- mark DAML program action item 12 as complete -->
  <rdf:Description about="https://www.daml.org/actionitems/12.rdf">
    <a:state>closed</a:state>
    <a:Action>
      <a:status>available at
http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml</a:status>
      <a:date>2000-10-31</a:date>
      <a:by>TeamXML@drc.com</a:by>
    </a:Action>
  </rdf:Description>
  <Ontology about="">
    <versionInfo>$Id: ArmyEQ-CartridgeArmorPiercing-ont-
1.0v.daml, v 1.0, 2000/12/1 $</versionInfo>
    <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#" />
    <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUOM-ont-
1.0v.daml daml#" />
  </Ontology>
  <!-- Army Equipment Supply Munition Ballistic -->
  <armyEQ:SupplyMunitionBallistic ID="ArmorCart">
    <!-- No Properties -->
  </armyEQ:SupplyMunitionBallistic>
  <!-- Army Equipment Supply Munition -->
  <armyEQ:SupplyMunition about="ArmorCart">
    <armyEQ:dodac>TBD</armyEQ:dodac>

  <armyEQ:battlefieldFunction>TBD</armyEQ:battlefieldFunction>
    <armyEQ:minRange>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:minRange>
    <armyEQ:maxRange>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxRange>
    <armyEQ:maxFireRate>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxFireRate>
    <armyEQ:effArea>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:effArea>
    <armyEQ:openingHeight>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:openingHeight>
    <armyEQ:maxEffectiveRange>
      <armyEQ:value>TBD</armyEQ:value>

```

```

        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxEffectiveRange>
    <armyEQ:typeOfWarhead>TBD</armyEQ:typeOfWarhead>
    <armyEQ:typeOfFuze>TBD</armyEQ:typeOfFuze>
</armyEQ:SupplyMunition>
<!-- Army Equipment Supply -->
<armyEQ:Supply about="ArmorCart">
    <armyEQ:unitOfIssue>TBD</armyEQ:unitOfIssue>
</armyEQ:Supply>
<!-- Army Equipment Item Nomenclature -->
<armyEQ:ItemNomenclature about="ArmorCart">
    <armyEQ:model>TBD</armyEQ:model>
    <armyEQ:commonName>CARTRIDGE, Armor-piercing,
NATO</armyEQ:commonName>
    <armyEQ:nomenclature>TBD</armyEQ:nomenclature>
    <armyEQ:lin>TBD</armyEQ:lin>
    <armyEQ:nsn>TBD</armyEQ:nsn>
    <armyEQ:supplyClass>TBD</armyEQ:supplyClass>

    <armyEQ:itemNomenclatureNotes>TBD</armyEQ:itemNomenclatureNotes>
    <armyEQ:itemType>TBD</armyEQ:itemType>
</armyEQ:ItemNomenclature>
<!-- Army Equipment Signature -->
<armyEQ:Signature about="ArmorCart">
    <armyEQ:visualSig>TBD</armyEQ:visualSig>
    <armyEQ:thermalSig>TBD</armyEQ:thermalSig>
    <armyEQ:rfsig>TBD</armyEQ:rfsig>
    <armyEQ:seismicSig>TBD</armyEQ:seismicSig>
    <armyEQ:magneticSig>TBD</armyEQ:magneticSig>
    <armyEQ:emrSig>TBD</armyEQ:emrSig>
    <armyEQ:chemSig>TBD</armyEQ:chemSig>
    <armyEQ:weight>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:weight>
    <armyEQ:height>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:height>
    <armyEQ:length>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:length>
    <armyEQ:width>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:width>
    <armyEQ:volume>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:volume>
    <armyEQ:radarCrossSection>TBD</armyEQ:radarCrossSection>
</armyEQ:Signature>
</rdf:RDF>
<?xml version="1.0"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns="http://www.daml.org/2000/10/daml-ont#"

```

```

xmlns:daml="http://www.daml.org/2000/10/daml-ont#"
xmlns:armyEQ="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-1.0v.daml#"
xmlns:armyEQUOM="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/1.X/ArmyEQUOM-ont-1.0v.daml#"
xmlns:a="https://www.daml.org/actionitems/actionitems-20000905.rdfs#">
  <!-- An Army Ball Weapon Catridge Equipment Model -->
  <!-- mark DAML program action item 12 as complete -->
  <rdf:Description about="https://www.daml.org/actionitems/12.rdf">
    <a:state>closed</a:state>
    <a:Action>
      <a:status>available at
http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-1.0v.daml</a:status>
      <a:date>2000-10-31</a:date>
      <a:by>TeamXML@drc.com</a:by>
    </a:Action>
  </rdf:Description>
  <Ontology about="">
    <versionInfo>$Id: ArmyEQ-CartridgeBall-ont-1.0v.daml, v
1.0, 2000/12/1 $</versionInfo>
    <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-1.0v.daml#" />
    <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUOM-ont-1.0v.daml daml#" />
  </Ontology>
  <!-- Army Equipment Supply Munition Ballistic -->
  <armyEQ:SupplyMunitionBallistic ID="#BallCart">
    <!-- No Properties -->
  </armyEQ:SupplyMunitionBallistic>
  <!-- Army Equipment Supply Munition -->
  <armyEQ:SupplyMunition about="#BallCart">
    <armyEQ:dodac>TBD</armyEQ:dodac>

    <armyEQ:battlefieldFunction>TBD</armyEQ:battlefieldFunction>
    <armyEQ:minRange>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:minRange>
    <armyEQ:maxRange>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxRange>
    <armyEQ:maxFireRate>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxFireRate>
    <armyEQ:effArea>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:effArea>
    <armyEQ:openingHeight>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:openingHeight>

```

```

        <armyEQ:maxEffectiveRange>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxEffectiveRange>
        <armyEQ:typeOfWarhead>TBD</armyEQ:typeOfWarhead>
        <armyEQ:typeOfFuze>TBD</armyEQ:typeOfFuze>
    </armyEQ:SupplyMunition>
    <!-- Army Equipment Supply -->
    <armyEQ:Supply about="#BallCart">
        <armyEQ:unitOfIssue>TBD</armyEQ:unitOfIssue>
    </armyEQ:Supply>
    <!-- Army Equipment Item Nomenclature -->
    <armyEQ:ItemNomenclature about="#BallCart">
        <armyEQ:model>TBD</armyEQ:model>
        <armyEQ:commonName>CARTRIDGE, Ball,
NATO</armyEQ:commonName>
        <armyEQ:nomenclature>TBD</armyEQ:nomenclature>
        <armyEQ:lin>TBD</armyEQ:lin>
        <armyEQ:nsn>TBD</armyEQ:nsn>
        <armyEQ:supplyClass>TBD</armyEQ:supplyClass>

    <armyEQ:itemNomenclatureNotes>TBD</armyEQ:itemNomenclatureNotes>
        <armyEQ:itemType>TBD</armyEQ:itemType>
    </armyEQ:ItemNomenclature>
    <!-- Army Equipment Signature -->
    <armyEQ:Signature about="#BallCart">
        <armyEQ:visualSig>TBD</armyEQ:visualSig>
        <armyEQ:thermalSig>TBD</armyEQ:thermalSig>
        <armyEQ:rfSig>TBD</armyEQ:rfSig>
        <armyEQ:seismicSig>TBD</armyEQ:seismicSig>
        <armyEQ:magneticSig>TBD</armyEQ:magneticSig>
        <armyEQ:emrSig>TBD</armyEQ:emrSig>
        <armyEQ:chemSig>TBD</armyEQ:chemSig>
        <armyEQ:weight>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:weight>
        <armyEQ:height>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:height>
        <armyEQ:length>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:length>
        <armyEQ:width>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:width>
        <armyEQ:volume>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:volume>
        <armyEQ:radarCrossSection>TBD</armyEQ:radarCrossSection>
    </armyEQ:Signature>
</rdf:RDF>
<?xml version="1.0"?>

```

```

<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns="http://www.daml.org/2000/10/daml-ont#"
xmlns:daml="http://www.daml.org/2000/10/daml-ont#"
xmlns:armyEQ="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#"
xmlns:armyEQUOM="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUO
M-ont-1.0v.daml#"
xmlns:a="https://www.daml.org/actionitems/actionitems-20000905.rdfs#">
  <!-- An Army Tracer Weapon Catridge Equipment Model -->
  <!-- mark DAML program action item 12 as complete -->
  <rdf:Description about="https://www.daml.org/actionitems/12.rdf">
    <a:state>closed</a:state>
    <a:Action>
      <a:status>available at
http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml</a:status>
      <a:date>2000-10-31</a:date>
      <a:by>TeamXML@drc.com</a:by>
    </a:Action>
  </rdf:Description>
  <Ontology about="">
    <versionInfo>$Id: ArmyEQ-CartridgeTracer-ont-1.0v.daml, v
1.0, 2000/12/1 $</versionInfo>
    <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#" />
    <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUOM-ont-
1.0v.daml daml#" />
  </Ontology>
  <!-- Army Equipment Supply Munition Ballistic -->
  <armyEQ:SupplyMunitionBallistic ID="TracerCart">
    <!-- No Properties -->
  </armyEQ:SupplyMunitionBallistic>
  <!-- Army Equipment Supply Munition -->
  <armyEQ:SupplyMunition about="#TracerCart">
    <armyEQ:dodac>TBD</armyEQ:dodac>

  <armyEQ:battlefieldFunction>TBD</armyEQ:battlefieldFunction>
    <armyEQ:minRange>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:minRange>
    <armyEQ:maxRange>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxRange>
    <armyEQ:maxFireRate>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxFireRate>
    <armyEQ:effArea>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:effArea>
    <armyEQ:openingHeight>
      <armyEQ:value>TBD</armyEQ:value>

```



```

        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:openingHeight>
    <armyEQ:maxEffectiveRange>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxEffectiveRange>
    <armyEQ:typeOfWarhead>TBD</armyEQ:typeOfWarhead>
    <armyEQ:typeOfFuze>TBD</armyEQ:typeOfFuze>
</armyEQ:SupplyMunition>
<!-- Army Equipment Supply -->
<armyEQ:Supply about="#TracerCart">
    <armyEQ:unitOfIssue>TBD</armyEQ:unitOfIssue>
</armyEQ:Supply>
<!-- Army Equipment Item Nomenclature -->
<armyEQ:ItemNomenclature about="#TracerCart">
    <armyEQ:model>TBD</armyEQ:model>
    <armyEQ:commonName>CARTRIDGE, Tracer,
NATO</armyEQ:commonName>
    <armyEQ:nomenclature>TBD</armyEQ:nomenclature>
    <armyEQ:lin>TBD</armyEQ:lin>
    <armyEQ:nsn>TBD</armyEQ:nsn>

    <armyEQ:supplyClass>TBD</armyEQ:supplyClass>

<armyEQ:itemNomenclatureNotes>TBD</armyEQ:itemNomenclatureNotes>
    <armyEQ:itemType>TBD</armyEQ:itemType>
</armyEQ:ItemNomenclature>
<!-- Army Equipment Signature -->
<armyEQ:Signature about="#TracerCart">
    <armyEQ:visualSig>TBD</armyEQ:visualSig>
    <armyEQ:thermalSig>TBD</armyEQ:thermalSig>
    <armyEQ:rfSig>TBD</armyEQ:rfSig>
    <armyEQ:seismicSig>TBD</armyEQ:seismicSig>
    <armyEQ:magneticSig>TBD</armyEQ:magneticSig>
    <armyEQ:emrSig>TBD</armyEQ:emrSig>
    <armyEQ:chemSig>TBD</armyEQ:chemSig>
    <armyEQ:weight>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:weight>
    <armyEQ:height>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:height>
    <armyEQ:length>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:length>
    <armyEQ:width>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:width>
    <armyEQ:volume>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:volume>
    <armyEQ:radarCrossSection>TBD</armyEQ:radarCrossSection>

```

```

    </armyEQ:Signature>
</rdf:RDF>
<?xml version="1.0"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns="http://www.daml.org/2000/10/daml-ont#"
xmlns:daml="http://www.daml.org/2000/10/daml-ont#"
xmlns:armyEQ="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#"
xmlns:armyEQUOM="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUO
M-ont-1.0v.daml#"
xmlns:a="https://www.daml.org/actionitems/actionitems-20000905.rdfs#">
    <!-- An Army Armament Carrier Basic Armor, M1025A1 Equipment
Model -->
    <!-- mark DAML program action item 12 as complete -->
    <rdf:Description about="https://www.daml.org/actionitems/12.rdf">
        <a:state>closed</a:state>
        <a:Action>
            <a:status>available at
http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml</a:status>
            <a:date>2000-10-31</a:date>
            <a:by>TeamXML@drc.com</a:by>
        </a:Action>
    </rdf:Description>
    <Ontology about="">
        <versionInfo>$Id: ArmyEQ-M1025A1-ont-1.0v.daml, v 1.0,
2000/12/1 $</versionInfo>
        <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#" />
        <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUOM-ont-
1.0v.daml daml#" />
    </Ontology>
    <!-- Army Equipment Platform -->
    <armyEQ:Platform ID="M1025A1">
        <armyEQ:crewSize>4</armyEQ:crewSize>
        <armyEQ:crewCmf>TBD</armyEQ:crewCmf>
        <armyEQ:minCrew>5</armyEQ:minCrew>
        <armyEQ:minExperts>3</armyEQ:minExperts>
        <armyEQ:platformNotes>Basic vehicle may be armed with
machinegun, a M60 machinegun, or a Mk-56
launcher.</armyEQ:platformNotes>
        <armyEQ:fuelCapacity>
            <armyEQ:value>89.0</armyEQ:value>
            <armyEQ:uom>liters</armyEQ:uom>
        </armyEQ:fuelCapacity>

        <armyEQ:fuelTypeDescription>Diesel</armyEQ:fuelTypeDescription>
        <armyEQ:safeRefuelRate>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:safeRefuelRate>
    </armyEQ:Platform>
    <!-- Army Equipment Component -->
    <armyEQ:Component about="#M1025A1">
        <armyEQ:crewSize>5</armyEQ:crewSize>

```

```

    <armyEQ:maxEmplacementTime>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxEmplacementTime>
    <armyEQ:maxDisplacementTime>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:maxDisplacementTime>
    <armyEQ:mtbf>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:mtbf>
    <armyEQ:mttr>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:mttr>
    <armyEQ:failureNotes>TBD</armyEQ:failureNotes>
    <armyEQ:componentNotes>TBD</armyEQ:componentNotes>
  </armyEQ:Component>
  <!-- Army Equipment Chassis -->
  <armyEQ:Chassis about="#M1025A1">
    <armyEQ:mmbf>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:mmbf>
    <armyEQ:chassisDesc>Vehicle has 4
wheels.</armyEQ:chassisDesc>
    <armyEQ:overpressure>TBD</armyEQ:overpressure>
  </armyEQ:Chassis>
  <!-- Ground Army Equipment Chassis -->
  <armyEQ:ChassisGround about="#M1025A1">
    <armyEQ:groundPressure>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:groundPressure>
    <armyEQ:groundClearance>
      <armyEQ:value>70</armyEQ:value>
      <armyEQ:uom>centimeters</armyEQ:uom>
    </armyEQ:groundClearance>
    <armyEQ:towingCap>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:towingCap>
    <armyEQ:highestWallClimb>
      <armyEQ:value>TBD</armyEQ:value>
      <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:highestWallClimb>
    <armyEQ:trenchCrossing>
      <armyEQ:value>60</armyEQ:value>
      <armyEQ:uom>centimeters</armyEQ:uom>
    </armyEQ:trenchCrossing>
    <armyEQ:topSpeedRdDay>
      <armyEQ:value>75</armyEQ:value>
      <armyEQ:uom>kilometersPerHour</armyEQ:uom>
    </armyEQ:topSpeedRdDay>
    <armyEQ:topSpeedRdNt>
      <armyEQ:value>TBD</armyEQ:value>

```

```

        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:topSpeedRdNt>
    <armyEQ:topSpeedXctryDay>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:topSpeedXctryDay>
    <armyEQ:topSpeedXctryNt>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:topSpeedXctryNt>
    <armyEQ:steepestGrade>
        <armyEQ:value>45</armyEQ:value>
        <armyEQ:uom>percent</armyEQ:uom>
    </armyEQ:steepestGrade>
    <armyEQ:fordingDepth>
        <armyEQ:value>36</armyEQ:value>
        <armyEQ:uom>centimeters</armyEQ:uom>
    </armyEQ:fordingDepth>
    <armyEQ:turningRadius>
        <armyEQ:value>6.86</armyEQ:value>
        <armyEQ:uom>meters</armyEQ:uom>
    </armyEQ:turningRadius>
    <armyEQ:fuelUseGround>
        <armyEQ:value>0.0569</armyEQ:value>
        <armyEQ:uom>gallonsPerHour</armyEQ:uom>
    </armyEQ:fuelUseGround>
    <armyEQ:fuelUseMaxGround>
        <armyEQ:value>0.0569</armyEQ:value>
        <armyEQ:uom>gallonsPerHour</armyEQ:uom>
    </armyEQ:fuelUseMaxGround>
</armyEQ:ChassisGround>
<!-- Ground Wheeled Army Equipment Chassis -->
<armyEQ:ChassisGroundWheeled about="#M1025A1">

    <armyEQ:groundnumWheelsPressure>5</armyEQ:groundnumWheelsPressure
>
</armyEQ:ChassisGroundWheeled>
<!-- Army Equipment Item Nomenclature -->
<armyEQ:ItemNomenclature about="#M1025A1">
    <armyEQ:model>M1025A1</armyEQ:model>
    <armyEQ:commonName>HMMWV-Mk19</armyEQ:commonName>
    <armyEQ:nomenclature>TRUCK, Utility Vehicle, Armament
Carrier</armyEQ:nomenclature>
    <armyEQ:lin>TBD</armyEQ:lin>
    <armyEQ:nsn>5639-01-459-8756</armyEQ:nsn>
    <armyEQ:supplyClass>VII 0</armyEQ:supplyClass>
    <armyEQ:itemNomenclatureNotes>The M1025A1 provides mounting
and firing of the numerous machine guns.</armyEQ:itemNomenclatureNotes>
    <armyEQ:itemType>platform</armyEQ:itemType>
</armyEQ:ItemNomenclature>
<!-- Army Equipment Signature -->
<armyEQ:Signature about="#M1025A1">
    <armyEQ:visualSig>TBD</armyEQ:visualSig>
    <armyEQ:thermalSig>TBD</armyEQ:thermalSig>
    <armyEQ:rfsig>TBD</armyEQ:rfsig>
    <armyEQ:seismicSig>TBD</armyEQ:seismicSig>
    <armyEQ:magneticSig>TBD</armyEQ:magneticSig>

```

```

    <armyEQ:emrSig>TBD</armyEQ:emrSig>
    <armyEQ:chemSig>TBD</armyEQ:chemSig>
    <armyEQ:weight>
      <armyEQ:value>8965</armyEQ:value>
      <armyEQ:uom>kilograms</armyEQ:uom>
    </armyEQ:weight>
    <armyEQ:height>
      <armyEQ:value>90</armyEQ:value>
      <armyEQ:uom>centimeters</armyEQ:uom>
    </armyEQ:height>
    <armyEQ:length>
      <armyEQ:value>536</armyEQ:value>
      <armyEQ:uom>centimeters</armyEQ:uom>
    </armyEQ:length>
    <armyEQ:width>
      <armyEQ:value>235</armyEQ:value>
      <armyEQ:uom>centimeters</armyEQ:uom>
    </armyEQ:width>
    <armyEQ:volume>
      <armyEQ:value>16.58</armyEQ:value>
      <armyEQ:uom>cubic</armyEQ:uom>
    </armyEQ:volume>
    <armyEQ:radarCrossSection>TBD</armyEQ:radarCrossSection>
  </armyEQ:Signature>
  <!-- Army Equipment Data Source -->
  <armyEQ:PlatformDataSource about="#M1025A1">
    <armyEQ:appendixBName>Armament Carrier Basic Armored
Vehicle, M1025A1</armyEQ:appendixBName>
    <armyEQ:preparedBy>John Adams
(john.adams@here.com)</armyEQ:preparedBy>
    <armyEQ:reviewedBy>Arnold Jonson
(arnold.johnson@here.com)</armyEQ:reviewedBy>
    <armyEQ:fdbUniqueID>GRD00456</armyEQ:fdbUniqueID>
    <armyEQ:rn>356975-45</armyEQ:rn>
    <armyEQ:source>TM 4-1597-364-45</armyEQ:source>
    <armyEQ:origDatePrepared>16 June
1997</armyEQ:origDatePrepared>
    <armyEQ:currentRevNo>A</armyEQ:currentRevNo>
    <armyEQ:RevDesc>Revised and updated all model
attributes.</armyEQ:RevDesc>
  </armyEQ:PlatformDataSource>
  <!-- Army Equipment Composite - Platform and Component -->
  <armyEQ:PlatformComponent about="#M1025A1">
    <unionOf parseType="daml:collection">
      <Platform about="#M1025A1"/>
      <Component
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-AN_PVS-
4Sight-ont-1.0v.daml#" />
    </unionOf>
  </armyEQ:PlatformComponent>
  <armyEQ:PlatformComponent about="#M1025A1">
    <armyEQ:quantityPlatformComponent>1</armyEQ:quantityPlatformCompo
nent>
    <armyEQ:optionalPlatformComponent>No</armyEQ:optionalPlatformComp
onent>
    </unionOf>
  </armyEQ:PlatformComponent>
  <armyEQ:PlatformComponent about="#M1025A1">

```

```

        <unionOf parseType="daml:collection">
            <Platform about="#M1025A1"/>
            <Component
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-AN_GVS-
5Sight-ont-1.0v.daml#"/>

        <armyEQ:quantityPlatformComponent>1</armyEQ:quantityPlatformCompo
nent>

        <armyEQ:optionalPlatformComponent>No</armyEQ:optionalPlatformComp
onent>
        </unionOf>
        </armyEQ:PlatformComponent>
        <armyEQ:PlatformComponent about="#M1025A1">
            <unionOf parseType="daml:collection">
                <Platform about="#M1025A1"/>
                <Component
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-AN_VRC-91A-
ont-1.0v.daml#"/>

            <armyEQ:quantityPlatformComponent>1</armyEQ:quantityPlatformCompo
nent>

            <armyEQ:optionalPlatformComponent>No</armyEQ:optionalPlatformComp
onent>
            </unionOf>
            </armyEQ:PlatformComponent>
            <armyEQ:PlatformComponent about="#M1025A1">
                <unionOf parseType="daml:collection">
                    <Platform about="#M1025A1"/>
                    <Component
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-AS-
3916_PRC-ont-1.0v.daml#"/>

                <armyEQ:quantityPlatformComponent>1</armyEQ:quantityPlatformCompo
nent>

                <armyEQ:optionalPlatformComponent>No</armyEQ:optionalPlatformComp
onent>
                </unionOf>
                </armyEQ:PlatformComponent>
                <armyEQ:PlatformComponent about="#M1025A1">
                    <unionOf parseType="daml:collection">
                        <Platform about="#M1025A1"/>
                        <Component
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-AS-
3900_PRC-ont-1.0v.daml#"/>

                    <armyEQ:quantityPlatformComponent>1</armyEQ:quantityPlatformCompo
nent>

                    <armyEQ:optionalPlatformComponent>No</armyEQ:optionalPlatformComp
onent>
                    </unionOf>
                    </armyEQ:PlatformComponent>
                    <!-- Army Equipment Composite - Platform and Weapon (Platform
Basic Load) -->

```

```

        <armyEQ:PlatformBasicLoad about="#M1025A1">
            <unionOf parseType="daml:collection">
                <Platform about="#M1025A1"/>
                <Weapon
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-
M60MachineGun-ont-1.0v.daml#"/>

            </unionOf>
        </armyEQ:PlatformBasicLoad>
    </rdf:RDF>
    <?xml version="1.0"?>
    <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns="http://www.daml.org/2000/10/daml-ont#"
xmlns:daml="http://www.daml.org/2000/10/daml-ont#"
xmlns:armyEQ="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#"
xmlns:armyEQUOM="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUO
M-ont-1.0v.daml#"
xmlns:a="https://www.daml.org/actionitems/actionitems-20000905.rdfs#">
        <!-- An Army TRUCK, Utility: S-250 Shelter Carrier Equipment
Model -->
        <!-- mark DAML program action item 12 as complete -->
        <rdf:Description about="https://www.daml.org/actionitems/12.rdf">
            <a:state>closed</a:state>
            <a:Action>
                <a:status>available at
http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml</a:status>
                <a:date>2000-10-31</a:date>
                <a:by>TeamXML@drc.com</a:by>
            </a:Action>
        </rdf:Description>
        <Ontology about="">
            <versionInfo>$Id: ArmyEQ-M1037A1-ont-1.0v.daml, v 1.0,
2000/12/1 $</versionInfo>
            <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#"/>
            <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUOM-ont-
1.0v.daml daml#"/>
        </Ontology>
        <!-- Army Equipment Platform -->
        <armyEQ:Platform ID="#M1037A1">
            <armyEQ:crewSize>4</armyEQ:crewSize>
            <armyEQ:crewCmf>TBD</armyEQ:crewCmf>
            <armyEQ:minCrew>3</armyEQ:minCrew>
            <armyEQ:minExperts>TBD</armyEQ:minExperts>
            <armyEQ:platformNotes>TBD</armyEQ:platformNotes>
            <armyEQ:fuelCapacity>

```

```

        <armyEQ:value>40.0</armyEQ:value>
        <armyEQ:uom>liters</armyEQ:uom>
    </armyEQ:fuelCapacity>

    <armyEQ:fuelTypeDescription>Diesel</armyEQ:fuelTypeDescription>
        <armyEQ:safeRefuelRate>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:safeRefuelRate>
    </armyEQ:Platform>
    <!-- Army Equipment Component -->
    <armyEQ:Component about="#M1037A1">
        <armyEQ:crewSize>TBD</armyEQ:crewSize>
        <armyEQ:maxEmplacementTime>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxEmplacementTime>
        <armyEQ:maxDisplacementTime>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxDisplacementTime>
        <armyEQ:mtbf>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:mtbf>
        <armyEQ:mttr>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:mttr>
        <armyEQ:failureNotes>TBD</armyEQ:failureNotes>
        <armyEQ:componentNotes>TBD</armyEQ:componentNotes>
    </armyEQ:Component>
    <!-- Army Equipment Chassis -->
    <armyEQ:Chassis about="#M1037A1">
        <armyEQ:mmbf>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:mmbf>
        <armyEQ:chassisDesc>Has 4 wheels.</armyEQ:chassisDesc>
        <armyEQ:overpressure>TBD</armyEQ:overpressure>
    </armyEQ:Chassis>
    <!-- Ground Army Equipment Chassis -->
    <armyEQ:ChassisGround about="#M1037A1">
        <armyEQ:groundPressure>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:groundPressure>
        <armyEQ:groundClearance>
            <armyEQ:value>70</armyEQ:value>
            <armyEQ:uom>centimeters</armyEQ:uom>
        </armyEQ:groundClearance>
        <armyEQ:towingCap>
            <armyEQ:value>1600</armyEQ:value>
            <armyEQ:uom>kilograms</armyEQ:uom>
        </armyEQ:towingCap>
        <armyEQ:highestWallClimb>

```



```

        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:highestWallClimb>
    <armyEQ:trenchCrossing>
        <armyEQ:value>90</armyEQ:value>
        <armyEQ:uom>centimeters</armyEQ:uom>
    </armyEQ:trenchCrossing>
    <armyEQ:topSpeedRdDay>
        <armyEQ:value>75</armyEQ:value>
        <armyEQ:uom>kilometersPerHour</armyEQ:uom>
    </armyEQ:topSpeedRdDay>
    <armyEQ:topSpeedRdNt>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:topSpeedRdNt>
    <armyEQ:topSpeedXctryDay>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:topSpeedXctryDay>
    <armyEQ:topSpeedXctryNt>
        <armyEQ:value>TBD</armyEQ:value>
        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:topSpeedXctryNt>
    <armyEQ:steepestGrade>
        <armyEQ:value>15</armyEQ:value>
        <armyEQ:uom>degrees</armyEQ:uom>
    </armyEQ:steepestGrade>
    <armyEQ:fordingDepth>
        <armyEQ:value>90</armyEQ:value>
        <armyEQ:uom>centimeters</armyEQ:uom>
    </armyEQ:fordingDepth>
    <armyEQ:turningRadius>
        <armyEQ:value>6.98</armyEQ:value>
        <armyEQ:uom>meters</armyEQ:uom>
    </armyEQ:turningRadius>
    <armyEQ:fuelUseGround>
        <armyEQ:value>0.0536</armyEQ:value>
        <armyEQ:uom>litersPerHour</armyEQ:uom>
    </armyEQ:fuelUseGround>
    <armyEQ:fuelUseMaxGround>
        <armyEQ:value>0.0536</armyEQ:value>
        <armyEQ:uom>litersPerHour</armyEQ:uom>
    </armyEQ:fuelUseMaxGround>
</armyEQ:ChassisGround>
<!-- Ground Wheeled Army Equipment Chassis -->
<armyEQ:ChassisGroundWheeled about="#M1037A1">

    <armyEQ:groundnumWheelsPressure>TBD</armyEQ:groundnumWheelsPressu
re>
    </armyEQ:ChassisGroundWheeled>
    <!-- Army Equipment Item Nomenclature -->
    <armyEQ:ItemNomenclature about="#M1037A1">
        <armyEQ:model>M1037A1</armyEQ:model>
        <armyEQ:commonName>Shelter Carrier</armyEQ:commonName>
        <armyEQ:nomenclature>TRUCK, Utility Vehicle, S-250 Shelter
Carrier</armyEQ:nomenclature>
        <armyEQ:lin>T85536</armyEQ:lin>

```

```

        <armyEQ:nsn>2759-90-369-1256</armyEQ:nsn>
        <armyEQ:supplyClass>VII K</armyEQ:supplyClass>
        <armyEQ:itemNomenclatureNotes>Provides capability to secure
and transport the S250 shelter unit.</armyEQ:itemNomenclatureNotes>
        <armyEQ:itemType>TBD</armyEQ:itemType>
    </armyEQ:ItemNomenclature>
    <!-- Army Equipment Signature -->
    <armyEQ:Signature about="#M1037A1">
        <armyEQ:visualSig>TBD</armyEQ:visualSig>
        <armyEQ:thermalSig>TBD</armyEQ:thermalSig>
        <armyEQ:rfSig>TBD</armyEQ:rfSig>
        <armyEQ:seismicSig>TBD</armyEQ:seismicSig>
        <armyEQ:magneticSig>TBD</armyEQ:magneticSig>
        <armyEQ:emrSig>TBD</armyEQ:emrSig>
        <armyEQ:chemSig>TBD</armyEQ:chemSig>
        <armyEQ:weight>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:weight>
        <armyEQ:height>
            <armyEQ:value>160</armyEQ:value>
            <armyEQ:uom>centimeters</armyEQ:uom>
        </armyEQ:height>
        <armyEQ:length>
            <armyEQ:value>500</armyEQ:value>
            <armyEQ:uom>centimeters</armyEQ:uom>
        </armyEQ:length>
        <armyEQ:width>
            <armyEQ:value>200</armyEQ:value>
            <armyEQ:uom>centimeters</armyEQ:uom>
        </armyEQ:width>
        <armyEQ:volume>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:volume>
        <armyEQ:radarCrossSection>TBD</armyEQ:radarCrossSection>
    </armyEQ:Signature>
    <!-- Army Equipment Data Source -->
    <armyEQ:PlatformDataSource about="#M1037A1">
        <armyEQ:appendixBName>Truck, Utility, S250 Shelter Carrier,
M1037A1</armyEQ:appendixBName>
        <armyEQ:preparedBy>John Adams
(john.adams@here.com)</armyEQ:preparedBy>
        <armyEQ:reviewedBy>Arnold Jonson
(arnold.johnson@here.com)</armyEQ:reviewedBy>
        <armyEQ:fdbUniqueID>TBD</armyEQ:fdbUniqueID>
        <armyEQ:rn>TBD</armyEQ:rn>
        <armyEQ:source>TBD</armyEQ:source>
        <armyEQ:origDatePrepared>16-April-
99</armyEQ:origDatePrepared>
        <armyEQ:currentRevNo>A</armyEQ:currentRevNo>
        <armyEQ:RevDesc>Initial Release</armyEQ:RevDesc>
    </armyEQ:PlatformDataSource>
    <!-- Army Equipment Composite - Platform and Component -->
    <armyEQ:PlatformComponent about="#M1037A1">
        <unionOf parseType="daml:collection">
            <Platform about="#M1037A1"/>

```

```

        <Component
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-AN_PVS-
4Sight-ont-1.0v.daml#"/>

    <armyEQ:quantityPlatformComponent>1</armyEQ:quantityPlatformCompo
nent>

    <armyEQ:optionalPlatformComponent>No</armyEQ:optionalPlatformComp
onent>

    </unionOf>
    </armyEQ:PlatformComponent>
    <armyEQ:PlatformComponent about="#M1037A1">
        <unionOf parseType="daml:collection">
            <Platform about="#M1037A1"/>
            <Component
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-AN_GVS-
5Sight-ont-1.0v.daml#"/>

                <armyEQ:quantityPlatformComponent>1</armyEQ:quantityPlatformCompo
nent>

                <armyEQ:optionalPlatformComponent>No</armyEQ:optionalPlatformComp
onent>

                </unionOf>
                </armyEQ:PlatformComponent>
                <armyEQ:PlatformComponent about="#M1037A1">
                    <unionOf parseType="daml:collection">
                        <Platform about="#M1037A1"/>
                        <Component
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-AN_VRC-91A-
ont-1.0v.daml#"/>

                            <armyEQ:quantityPlatformComponent>1</armyEQ:quantityPlatformCompo
nent>

                            <armyEQ:optionalPlatformComponent>No</armyEQ:optionalPlatformComp
onent>

                            </unionOf>
                            </armyEQ:PlatformComponent>
                            <armyEQ:PlatformComponent about="#M1037A1">
                                <unionOf parseType="daml:collection">
                                    <Platform about="#M1037A1"/>
                                    <Component
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-AS-
3916_PRC-ont-1.0v.daml#"/>

                                        <armyEQ:quantityPlatformComponent>1</armyEQ:quantityPlatformCompo
nent>

                                        <armyEQ:optionalPlatformComponent>No</armyEQ:optionalPlatformComp
onent>

                                        </unionOf>
                                        </armyEQ:PlatformComponent>
                                        <armyEQ:PlatformComponent about="#M1037A1">
                                            <unionOf parseType="daml:collection">
                                                <Platform about="#M1037A1"/>

```

```

        <Component
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-AS-
3900_PRC-ont-1.0v.daml#"/>

    <armyEQ:quantityPlatformComponent>1</armyEQ:quantityPlatformCompo
nent>

    <armyEQ:optionalPlatformComponent>No</armyEQ:optionalPlatformComp
onent>

    </unionOf>
    </armyEQ:PlatformComponent>
    <armyEQ:PlatformComponent about="#M1037A1">
        <unionOf parseType="daml:collection">
            <Platform about="#M1037A1"/>
            <Component
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-
S250Shelter-ont-1.0v.daml#"/>

        <armyEQ:quantityPlatformComponent>1</armyEQ:quantityPlatformCompo
nent>

        <armyEQ:optionalPlatformComponent>No</armyEQ:optionalPlatformComp
onent>

        </unionOf>
        </armyEQ:PlatformComponent>
    </rdf:RDF>
    <?xml version="1.0"?>
    <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns="http://www.daml.org/2000/10/daml-ont#"
xmlns:daml="http://www.daml.org/2000/10/daml-ont#"
xmlns:armyEQ="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#"
xmlns:armyEQUOM="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUO
M-ont-1.0v.daml#"
xmlns:a="https://www.daml.org/actionitems/actionitems-20000905.rdfs#">
        <!-- An Army M60 Machine Gun Equipment Model -->
        <!-- mark DAML program action item 12 as complete -->
        <rdf:Description about="https://www.daml.org/actionitems/12.rdf">
            <a:state>closed</a:state>
            <a:Action>
                <a:status>available at
http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml</a:status>
                <a:date>2000-10-31</a:date>
                <a:by>TeamXML@drc.com</a:by>
            </a:Action>
        </rdf:Description>
        <Ontology about="">
            <versionInfo>$Id: ArmyEQ-M60MachineGun-ont-1.0v.daml, v
1.0, 2000/12/1 $</versionInfo>
            <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#"/>
            <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUOM-ont-
1.0v.daml daml#"/>
        </Ontology>

```

```

<!-- Army Equipment Weapon -->
<armyEQ:Weapon ID="M60">
  <armyEQ:mrbf>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:mrbf>
  <armyEQ:rofMax>
    <armyEQ:value>150</armyEQ:value>
    <armyEQ:uom>roundsPerMinute</armyEQ:uom>
  </armyEQ:rofMax>
  <armyEQ:mrofMax>
    <armyEQ:value>3</armyEQ:value>
    <armyEQ:uom>minutes</armyEQ:uom>
  </armyEQ:mrofMax>
  <armyEQ:rofSust>
    <armyEQ:value>150</armyEQ:value>
    <armyEQ:uom>roundsPerMinute</armyEQ:uom>
  </armyEQ:rofSust>
  <armyEQ:rofRapid>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:rofRapid>
  <armyEQ:loadTime>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:loadTime>
  <armyEQ:maxIndependentElevation>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:maxIndependentElevation>
  <armyEQ:minIndependentElevation>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:minIndependentElevation>
  <armyEQ:rearmDuration>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:rearmDuration>
</armyEQ:Weapon>
<!-- Army Equipment Component -->
<armyEQ:Component about="#M60">
  <armyEQ:crewSize>TBD</armyEQ:crewSize>
  <armyEQ:maxEmplacementTime>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:maxEmplacementTime>
  <armyEQ:maxDisplacementTime>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>
  </armyEQ:maxDisplacementTime>
  <armyEQ:mtbf>
    <armyEQ:value>TBD</armyEQ:value>
    <armyEQ:uom>TBD</armyEQ:uom>

  </armyEQ:mtbf>
  <armyEQ:mttr>
    <armyEQ:value>TBD</armyEQ:value>

```

```

        <armyEQ:uom>TBD</armyEQ:uom>
    </armyEQ:mttr>
    <armyEQ:failureNotes>TBD</armyEQ:failureNotes>
    <armyEQ:componentNotes>TBD</armyEQ:componentNotes>
</armyEQ:Component>
<!-- Army Equipment Item Nomenclature -->
<armyEQ:ItemNomenclature about="#M60">
    <armyEQ:model>M60</armyEQ:model>
    <armyEQ:commonName>7.62 Machine Gun</armyEQ:commonName>
    <armyEQ:nomenclature>MACHINE GUN, light and
flexible</armyEQ:nomenclature>
    <armyEQ:lin>L92386</armyEQ:lin>
    <armyEQ:nsn>1950-00-612-7987</armyEQ:nsn>
    <armyEQ:supplyClass>VII M</armyEQ:supplyClass>
    <armyEQ:itemNomenclatureNotes>A general purpose machine
gun.</armyEQ:itemNomenclatureNotes>
    <armyEQ:itemType>weapon</armyEQ:itemType>
</armyEQ:ItemNomenclature>
<!-- Army Equipment Composite - Weapon and Supply Munition
(Weapon Munition) -->
    <armyEQ:WeaponMunition about="#M60">
        <unionOf parseType="daml:collection">
            <Weapon about="M60"/>
            <SupplyMunition
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-
CartridgeTracer-ont-1.0v.daml#" />
        </unionOf>
    </armyEQ:WeaponMunition>
    <armyEQ:WeaponMunition about="#M60">
        <unionOf parseType="daml:collection">
            <Weapon about="M60"/>
            <SupplyMunition
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-
CartridgeBal-ont-1.0vl.daml#" />
        </unionOf>
    </armyEQ:WeaponMunition>
    <armyEQ:WeaponMunition about="#M60">
        <unionOf parseType="daml:collection">
            <Weapon about="M60"/>
            <SupplyMunition
about="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-
CartridgeArmorPiercing-ont-1.0v.daml#" />
        </unionOf>
    </armyEQ:WeaponMunition>
</rdf:RDF>

```

```

<?xml version="1.0"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns="http://www.daml.org/2000/10/daml-ont#"
xmlns:daml="http://www.daml.org/2000/10/daml-ont#"
xmlns:a="https://www.daml.org/actionitems/actionitems-20000905.rdfs#">

    <!-- Army Equipment Ontology -->
    <!-- mark DAML program action item 12 as complete -->
    <rdf:Description
about="https://www.daml.org/actionitems/12.rdf#">
        <a:state>closed</a:state>
        <a:Action>
            <a:status>available at
http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml</a:status>
            <a:date>2000-10-31</a:date>
            <a:by>TeamXML@drc.com</a:by>
        </a:Action>
    </rdf:Description>
    <Ontology about="">
        <versionInfo>$Id: ArmyEQ-ont-1.0v.daml, v 1.0, 2000/12/1
$</versionInfo>
        <comment>An Army Equipment Ontology.</comment>
        <imports resource="http://www.daml.org/2000/10/daml-ont#" />
    </Ontology>
    <!-- Army Equipment System Unit -->
    <Class ID="SystemUnit">
        <comment>An Army Equipment System Unit</comment>
    </Class>
    <Property ID="descriptionUse">
        <domain resource="#SystemUnit"/>
        <range resource="#SystemUnit"/>
        <comment>A detailed description of the purpose of this
system unit.</comment>
    </Property>
    <Property ID="qualifiedPersonnel">
        <domain resource="#SystemUnit"/>
        <range resource="#SystemUnit"/>
        <comment>The number of qualified persons required to
operate the system unit at peak performance.</comment>
    </Property>
    <Property ID="maintenancePersonnel">
        <domain resource="#SystemUnit"/>
        <range resource="#SystemUnit"/>
        <comment>The number of maintenance personnel required for
function.</comment>
    </Property>
    <Property ID="services">
        <domain resource="#SystemUnit"/>
        <range resource="#SystemUnit"/>
        <comment>The types of services provided by this
system.</comment>
    </Property>
    <Property ID="maxChannel">
        <domain resource="#SystemUnit"/>
        <range resource="#SystemUnit"/>
        <comment>The maximum number of channels.</comment>

```

```

    </Property>
    <Property ID="maxMobileTerminal">
      <domain resource="#SystemUnit"/>
      <range resource="#SystemUnit"/>
      <comment>A description of the capacity or mobile traffic
system this system is capable of maintaining.</comment>
    </Property>
    <Property ID="maxStaticTerminal">
      <domain resource="#SystemUnit"/>
      <range resource="#SystemUnit"/>
      <comment>A description of the capacity or static traffic
this system is capable of maintaining.</comment>
    </Property>
    <Property ID="maxCableNodeTerminal">
      <domain resource="#SystemUnit"/>
      <range resource="#SystemUnit"/>
      <comment>A description of the capacity of network cable
connectivity this system is capable of maintaining.</comment>
    </Property>
    <Property ID="maxAirNodeCapacity">
      <domain resource="#SystemUnit"/>
      <range resource="#SystemUnit"/>
      <comment>A description of the capacity of network air
connectivity this system is capable of maintaining.</comment>
    </Property>
    <EQProperty ID="operationalMaxFrequency">
      <domain resource="#SystemUnit"/>
      <range resource="#EQProperty"/>

      <comment>The operational maximun frequency of the system
unit.</comment>
    </EQProperty>
    <EQProperty ID="operationalMinFrequency">
      <domain resource="#SystemUnit"/>
      <range resource="#SystemUnit"/>
      <comment>The operational minimum frequency of the system
unit.</comment>
    </EQProperty>
    <EQProperty ID="trainingMaxFrequency">
      <domain resource="#SystemUnit"/>
      <range resource="#SystemUnit"/>
      <comment>The training maximun frequency of the system
unit.</comment>
    </EQProperty>
    <EQProperty ID="trainingMinFrequency">
      <domain resource="#SystemUnit"/>
      <range resource="#SystemUnit"/>
      <comment>The training minimum frequency of the system
unit.</comment>
    </EQProperty>
    <EQProperty ID="systemUnitPower">
      <domain resource="#SystemUnit"/>
      <range resource="#SystemUnit"/>
      <comment>The system unit power.</comment>
    </EQProperty>
    <EQProperty ID="systemPlanningRange">
      <domain resource="#SystemUnit"/>

```



```

        <range resource="#SystemUnit"/>
        <comment>The maximum planning range of the system
unit.</comment>
    </EQProperty>
    <!-- Army Equipment Platform -->
    <Class ID="Platform">
        <subClassOf resource="#SystemUnit"/>
        <comment>An Army Equipment Platform</comment>
    </Class>
    <Property ID="crewSize">
        <domain resource="#Platform"/>
        <range resource="#Platform"/>
        <comment>The required number of personnel to crew for full
performance.</comment>
    </Property>
    <Property ID="crewCmf">
        <domain resource="#Platform"/>
        <range resource="#Platform"/>
        <comment>The career management field required to
crew.</comment>
    </Property>
    <Property ID="minCrew">
        <domain resource="#Platform"/>
        <range resource="#Platform"/>
        <comment>The minimum number of crew required for minimum
function.</comment>
    </Property>
    <Property ID="minExperts">
        <domain resource="#Platform"/>
        <range resource="#Platform"/>
        <comment>The minimum number of correct cmf required for
minimum function.</comment>
    </Property>
    <Property ID="platformNotes">
        <domain resource="#Platform"/>
        <range resource="#Platform"/>
        <comment>A definition of special configurations that may be
used on any particular equipment platform</comment>
    </Property>
    <EQProperty ID="fuelCapacity">
        <domain resource="#Platform"/>
        <range resource="#Platform"/>

        <comment>The fuel capacity.</comment>
    </EQProperty>
    <Property ID="fuelTypeDescription">
        <domain resource="#Platform"/>
        <range resource="#Platform"/>
        <comment>The type of fuel used.</comment>
    </Property>
    <EQProperty ID="safeRefuelRate">

        <domain resource="#Platform"/>
        <range resource="#Platform"/>
        <comment>The safe rate at which fuel can be re-supplied in
the vehicle.</comment>
    </EQProperty>

```

```

<!-- Army Equipment Component -->
<Class ID="Component">
    <subClassOf resource="#SystemUnit"/>
    <subClassOf resource="#Platform"/>
    <comment>An Army Equipment Component</comment>
</Class>
<EQProperty ID="maxEmplacementTime">
    <domain resource="#Component"/>
    <range resource="#Component"/>
    <comment>The maximum time to emplace the system and place
it in a fully operational state.</comment>
</EQProperty>
<EQProperty ID="maxDisplacementTime">
    <domain resource="#Component"/>
    <range resource="#Component"/>
    <comment>The maximum time required to displace the
system.</comment>
</EQProperty>
<EQProperty ID="mtbf">
    <domain resource="#Component"/>
    <range resource="#Component"/>
    <comment>The mean time before failure.</comment>
</EQProperty>
<EQProperty ID="mttr">
    <domain resource="#Component"/>
    <range resource="#Component"/>
    <comment>The mean time to repair.</comment>
</EQProperty>
<Property ID="failureNotes">
    <domain resource="#Component"/>
    <range resource="#Component"/>
    <comment>The text description of the type of
failure.</comment>
</Property>
<Property ID="componentNotes">
    <domain resource="#Component"/>
    <range resource="#Component"/>
    <comment>Any special considerations or configuration
information for a component.</comment>
</Property>
<!-- Army Equipment Cargo Container -->
<Class ID="CargoContainer">
    <subClassOf resource="#Component"/>
    <comment>An Army Equipment Cargo Container</comment>
</Class>
<Property ID="passengers">
    <domain resource="#CargoContainer"/>
    <range resource="#CargoContainer"/>
    <comment>The number of passengers that can be
carried.</comment>
</Property>
<EQProperty ID="wetCargo">
    <domain resource="#CargoContainer"/>
    <range resource="#CargoContainer"/>
    <comment>The quantity of wet cargo that can be carried by
the system.</comment>
</EQProperty>

```

```

    <EQProperty ID="dryCargo">
        <domain resource="#CargoContainer"/>
        <range resource="#CargoContainer"/>
        <comment>The quantity of dry cargo that can be carried by
the system.</comment>
    </EQProperty>
    <Property ID="palletCap">
        <domain resource="#CargoContainer"/>
        <range resource="#CargoContainer"/>
        <comment>The number of 463L pallets that can be
carried.</comment>
    </Property>
    <EQProperty ID="maxHeight">
        <domain resource="#CargoContainer"/>
        <range resource="#CargoContainer"/>
        <comment>The maximum height that can be loaded/carried in
the cargo space.</comment>
    </EQProperty>
    <EQProperty ID="maxWidth">
        <domain resource="#CargoContainer"/>
        <range resource="#CargoContainer"/>
        <comment>The maximum width that can be loaded/carried in
the cargo space.</comment>
    </EQProperty>
    <EQProperty ID="maxLength">
        <domain resource="#CargoContainer"/>
        <range resource="#CargoContainer"/>
        <comment>The maximum length that can be loaded/carried in
the cargo space.</comment>
    </EQProperty>
    <EQProperty ID="maxVolume">
        <domain resource="#CargoContainer"/>
        <range resource="#CargoContainer"/>
        <comment>The maximum volume that can be loaded/carried in
the cargo space.</comment>
    </EQProperty>
    <!-- Army Equipment Chassis -->
    <Class ID="Chassis">
        <subClassOf resource="#Component"/>
        <comment>An Army Equipment Chassis</comment>
    </Class>
    <EQProperty ID="mmbf">
        <domain resource="#Chassis"/>
        <range resource="#Chassis"/>
        <comment>The mean distance before failure.</comment>
    </EQProperty>
    <Property ID="chassisDesc">
        <domain resource="#Chassis"/>
        <range resource="#Chassis"/>
        <comment>Description of this chassis.</comment>
    </Property>
    <Property ID="overpressure">
        <domain resource="#Chassis"/>
        <range resource="#Chassis"/>
        <comment>Whether the chassis is equipped with collective
protection.</comment>
    </Property>

```

```

<!-- Air Army Equipment Chassis -->
<Class ID="ChassisAir">
    <subClassOf resource="#Chassis"/>
    <comment>An Air Army Equipment Chassis</comment>
</Class>
<EQProperty ID="takeoffGrossWeight">
    <domain resource="#ChassisAir"/>
    <range resource="#ChassisAir"/>
    <comment>The gross takeoff weight of the air
platform.</comment>
</EQProperty>
<EQProperty ID="normalPayload">
    <domain resource="#ChassisAir"/>
    <range resource="#ChassisAir"/>
    <comment>The normal payload.</comment>
</EQProperty>
<EQProperty ID="aircraftRange">
    <domain resource="#ChassisAir"/>
    <range resource="#ChassisAir"/>
    <comment>The round-trip range of the aircraft.</comment>
</EQProperty>
<EQProperty ID="cruiseSpeedAir">
    <domain resource="#ChassisAir"/>
    <range resource="#ChassisAir"/>
    <comment>The cruising speed of the aircraft.</comment>
</EQProperty>
<EQProperty ID="topSpeedNoe">
    <domain resource="#ChassisAir"/>
    <range resource="#ChassisAir"/>
    <comment>The max speed of the aircraft when flying nap-of-
the-earth.</comment>
</EQProperty>
<EQProperty ID="topSpeedOBS">
    <domain resource="#ChassisAir"/>
    <range resource="#ChassisAir"/>
    <comment>The maximum speed capable of reporting enemy
activity on the ground.</comment>
</EQProperty>
<EQProperty ID="topSpeedAir">
    <domain resource="#ChassisAir"/>
    <range resource="#ChassisAir"/>
    <comment>The maximum speed of the aircraft.</comment>
</EQProperty>
<EQProperty ID="maxAltitude">
    <domain resource="#ChassisAir"/>
    <range resource="#ChassisAir"/>
    <comment>The maximum altitude in which the air platform can
operate.</comment>
</EQProperty>
<Property ID="adverseWeatherCapability">
    <domain resource="#ChassisAir"/>
    <range resource="#ChassisAir"/>
    <comment>The degradation in percent of mission
capability.</comment>
</Property>
<Property ID="inflightRefuel">
    <domain resource="#ChassisAir"/>

```

```

        <range resource="#ChassisAir"/>
        <comment>The describes whether or not the aircraft can be
refueled in-flight.</comment>
    </Property>
    <EQProperty ID="maxTurnRate">
        <domain resource="#ChassisAir"/>
        <range resource="#ChassisAir"/>
        <comment>The maximum turn rate based as a function of
altitude and speed.</comment>
    </EQProperty>
    <EQProperty ID="maxRateOfClimb">
        <domain resource="#ChassisAir"/>
        <range resource="#ChassisAir"/>
        <comment>The maximum climbing distance per
second.</comment>
    </EQProperty>
    <EQProperty ID="maxRateOfDescent">
        <domain resource="#ChassisAir"/>
        <range resource="#ChassisAir"/>
        <comment>The maximum descending distance per
second.</comment>
    </EQProperty>
    <Property ID="nightCapability">
        <domain resource="#ChassisAir"/>
        <range resource="#ChassisAir"/>
        <comment>The degradation in percent of mission
capability.</comment>
    </Property>
    <EQProperty ID="flightEndurance">
        <domain resource="#ChassisAir"/>
        <range resource="#ChassisAir"/>
        <comment>The length of time in hours the platform can
remain airborne.</comment>
    </EQProperty>
    <EQProperty ID="maxHoverInGroundEffect">
        <domain resource="#ChassisAir"/>
        <range resource="#ChassisAir"/>
        <comment>Maximun hover capabilities while experiencing in
ground effect.</comment>
    </EQProperty>
    <EQProperty ID="maxHoverOutGroundEffect">
        <domain resource="#ChassisAir"/>
        <range resource="#ChassisAir"/>
        <comment>Maximun hover capabilities while experiencing out
of ground effect.</comment>
    </EQProperty>
    <!-- Air Fixed Wing Army Equipment Chassis -->
    <Class ID="ChassisAirFixedWing">
        <subClassOf resource="#ChassisAir"/>
        <comment>An Air Fixed Wing Army Equipment Chassis</comment>
    </Class>
    <EQProperty ID="stallSpeed">
        <domain resource="#ChassisAirFixedWing"/>
        <range resource="#ChassisAirFixedWing"/>
        <comment>The stall speed of the aircraft.</comment>
    </EQProperty>
    <EQProperty ID="runawayRQD">

```

```

        <domain resource="#ChassisAirFixedWing"/>
        <range resource="#ChassisAirFixedWing"/>
        <comment>The runway length to land or take off.</comment>
    </EQProperty>
    <!-- Air Rotary Wing Army Equipment Chassis -->
    <Class ID="ChassisAirRotaryWing">
        <subClassOf resource="#ChassisAir"/>
        <comment>An Air Rotary Wing Army Equipment
Chassis</comment>
    </Class>
    <EQProperty ID="mainRotorDiameter">
        <domain resource="#ChassisAirRotaryWing"/>
        <range resource="#ChassisAirRotaryWing"/>
        <comment>The diameter of the circle transcribed by the most
extreme outer tips of the rotors.</comment>
    </EQProperty>
    <EQProperty ID="minimumDensityAltitude">
        <domain resource="#ChassisAirRotaryWing"/>
        <range resource="#ChassisAirRotaryWing"/>
        <comment>The minimum density altitude at which the
aircraft may be safely operated.</comment>
    </EQProperty>
    <EQProperty ID="maxSpeedFwd">
        <domain resource="#ChassisAirRotaryWing"/>
        <range resource="#ChassisAirRotaryWing"/>
        <comment>The maximum forward speed of a rotary wing
aircraft.</comment>
    </EQProperty>
    <EQProperty ID="maxSpeedSide">
        <domain resource="#ChassisAirRotaryWing"/>
        <range resource="#ChassisAirRotaryWing"/>
        <comment>The maximum lateral speed of a rotary wing
aircraft.</comment>
    </EQProperty>
    <EQProperty ID="maxSpeedReverse">
        <domain resource="#ChassisAirRotaryWing"/>
        <range resource="#ChassisAirRotaryWing"/>
        <comment>The maximum reverse speed.</comment>
    </EQProperty>
    <!-- Ground Army Equipment Chassis -->
    <Class ID="ChassisGround">
        <subClassOf resource="#Chassis"/>
        <comment>A Ground Army Equipment Chassis</comment>
    </Class>
    <EQProperty ID="groundPressure">
        <domain resource="#ChassisGround"/>
        <range resource="#ChassisGround"/>
        <comment>The ground pressure exerted by the
vehicle.</comment>
    </EQProperty>
    <EQProperty ID="groundClearance">
        <domain resource="#ChassisGround"/>
        <range resource="#ChassisGround"/>
        <comment>The ground clearance the vehicle has between the
ground and the bottom of the vehicle.</comment>
    </EQProperty>
    <EQProperty ID="towingCap">

```

```

        <domain resource="#ChassisGround"/>
        <range resource="#ChassisGround"/>
        <comment>The platforms rated towing capacity on
road.</comment>
    </EQProperty>
    <EQProperty ID="highestWallClimb">
        <domain resource="#ChassisGround"/>
        <range resource="#ChassisGround"/>
        <comment>The highest vertical obstacle that a vehicle can
pass over.</comment>
    </EQProperty>
    <EQProperty ID="trenchCrossing">
        <domain resource="#ChassisGround"/>
        <range resource="#ChassisGround"/>
        <comment>The maximum width of unsupported horizontal gap
that a vehicle can cross without bridging.</comment>
    </EQProperty>
    <EQProperty ID="topSpeedRdDay">
        <domain resource="#ChassisGround"/>
        <range resource="#ChassisGround"/>
        <comment>The maximum road speed in daylight.</comment>
    </EQProperty>
    <EQProperty ID="topSpeedRdNt">
        <domain resource="#ChassisGround"/>
        <range resource="#ChassisGround"/>
        <comment>The maximum road speed at night.</comment>
    </EQProperty>
    <EQProperty ID="topSpeedXctryDay">
        <domain resource="#ChassisGround"/>
        <range resource="#ChassisGround"/>
        <comment>The maximum cross country speed in
daylight.</comment>
    </EQProperty>
    <EQProperty ID="topSpeedXctryNt">
        <domain resource="#ChassisGround"/>
        <range resource="#ChassisGround"/>
        <comment>The maximum cross country speed at
night.</comment>
    </EQProperty>
    <EQProperty ID="steepestGrade">
        <domain resource="#ChassisGround"/>
        <range resource="#ChassisGround"/>
        <comment>The steepest negotiable grade in
percent.</comment>
    </EQProperty>
    <EQProperty ID="fordingDepth">
        <domain resource="#ChassisGround"/>
        <range resource="#ChassisGround"/>
        <comment>The depth of water a vehicle can pass
through.</comment>
    </EQProperty>
    <EQProperty ID="turningRadius">
        <domain resource="#ChassisGround"/>
        <range resource="#ChassisGround"/>
        <comment>The minimum radius needed to turn the vehicle
without backing.</comment>
    </EQProperty>

```

```

<EQProperty ID="fuelUseGround">
    <domain resource="#ChassisGround"/>
    <range resource="#ChassisGround"/>
    <comment>The fuel consumption while idling.</comment>
</EQProperty>
<EQProperty ID="fuelUseMaxGround">
    <domain resource="#ChassisGround"/>
    <range resource="#ChassisGround"/>
    <comment>The maximum fuel consumption while
moving.</comment>
</EQProperty>
<!-- Ground Rail Army Equipment Chassis -->
<Class ID="ChassisGroundRail">
    <subClassOf resource="#ChassisGround"/>
    <comment>A Ground Rail Army Equipment Chassis</comment>
</Class>
<EQProperty ID="topSpeedRail">
    <domain resource="#ChassisGroundRail"/>
    <range resource="#ChassisGroundRail"/>
    <comment>The top speed of the train.</comment>
</EQProperty>
<EQProperty ID="trackGauge">
    <domain resource="#ChassisGroundRail"/>
    <range resource="#ChassisGroundRail"/>
    <comment>The track gauge width.</comment>
</EQProperty>
<!-- Ground Towed Army Equipment Chassis -->
<Class ID="ChassisGroundTowed">
    <subClassOf resource="#ChassisGround"/>
    <comment>A Ground Towed Army Equipment Chassis</comment>
</Class>
<EQProperty ID="towSpeedRd">
    <domain resource="#ChassisGroundTowed"/>
    <range resource="#ChassisGroundTowed"/>
    <comment>The maximum permissible towing speed, on
road.</comment>
</EQProperty>
<EQProperty ID="twoSpeedXctry">
    <domain resource="#ChassisGroundTowed"/>
    <range resource="#ChassisGroundTowed"/>
    <comment>The maximum permissible towing speed, cross
country.</comment>
</EQProperty>
<!-- Ground Tracked Army Equipment Chassis -->
<Class ID="ChassisGroundTracked">
    <subClassOf resource="#ChassisGround"/>
    <comment>A Ground Tracked Army Equipment Chassis</comment>
</Class>
<EQProperty ID="trackWidth">
    <domain resource="#ChassisGroundTracked"/>
    <range resource="#ChassisGroundTracked"/>
    <comment>The track width.</comment>
</EQProperty>
<!-- Ground Wheeled Army Equipment Chassis -->
<Class ID="ChassisGroundWheeled">
    <subClassOf resource="#ChassisGround"/>
    <comment>A Ground Wheeled Army Equipment Chassis</comment>

```



```

</Class>
<Property ID="numWheels">
    <domain resource="#ChassisGroundWheeled"/>
    <range resource="#ChassisGroundWheeled"/>
    <comment>The number of wheels.</comment>
</Property>
<!-- Stationary Army Equipment Chassis -->
<Class ID="ChassisStationary">
    <subClassOf resource="#Chassis"/>
    <comment>A Stationary Army Equipment Chassis</comment>
</Class>
<!-- Water Army Equipment Chassis -->
<Class ID="ChassisWater">
    <subClassOf resource="#Chassis"/>
    <comment>A Water Army Equipment Chassis</comment>
</Class>
<EQProperty ID="preparationTime">
    <domain resource="#ChassisWater"/>
    <range resource="#ChassisWater"/>
    <comment>The time to prepare the system for entry into the
water.</comment>
</EQProperty>
<EQProperty ID="reconfigurationTime">
    <domain resource="#ChassisWater"/>
    <range resource="#ChassisWater"/>
    <comment>The time required after leaving the water to place
the system back into its normal operating configuration.</comment>
</EQProperty>
<EQProperty ID="draftEmpty">
    <domain resource="#ChassisWater"/>
    <range resource="#ChassisWater"/>
    <comment>The draft unloaded.</comment>
</EQProperty>
<EQProperty ID="draftLoaded">
    <domain resource="#ChassisWater"/>
    <range resource="#ChassisWater"/>
    <comment>The draft loaded.</comment>
</EQProperty>
<EQProperty ID="cruiseSpeedWater">
    <domain resource="#ChassisWater"/>
    <range resource="#ChassisWater"/>
    <comment>Cruising speed in loaded condition.</comment>
</EQProperty>
<EQProperty ID="topSpeedWater">
    <domain resource="#ChassisWater"/>
    <range resource="#ChassisWater"/>
    <comment>The highest sustainable speed for the water
platform in loaded condition.</comment>
</EQProperty>
<EQProperty ID="maxNauticalRange">
    <domain resource="#ChassisWater"/>
    <range resource="#ChassisWater"/>
    <comment>Maximun range the water vehicle can travel before
re-fueling.</comment>
</EQProperty>
<Property ID="beachable">

```

```

        <domain resource="#ChassisWater"/>
        <range resource="#ChassisWater"/>
        <comment>Whether the platform is able to beach itself to
land cargo, y/n.</comment>
    </Property>
    <EQProperty ID="fuelUseWater">
        <domain resource="#ChassisWater"/>
        <range resource="#ChassisWater"/>
        <comment>The fuel consumption at cruising speed.</comment>
    </EQProperty>
    <EQProperty ID="fuelUseMax">
        <domain resource="#ChassisWater"/>
        <range resource="#ChassisWater"/>
        <comment>The fuel consumption at max speed.</comment>
    </EQProperty>
    <!-- Army Equipment Computer System -->
    <Class ID="ComputerSystem">
        <subClassOf resource="#Component"/>
        <comment>An Army Equipment Computer System</comment>
    </Class>
    <Property ID="systemTypeInfo">
        <domain resource="#ComputerSystem"/>
        <range resource="#ComputerSystem"/>
        <comment>The purpose of the system e.g. fire control,
navigation, targeting.</comment>
    </Property>
    <EQProperty ID="maxFunctions">
        <domain resource="#ComputerSystem"/>
        <range resource="#ComputerSystem"/>
        <comment>The maximum number of the computers designed
functions that can take place in a given period of time.</comment>
    </EQProperty>
    <EQProperty ID="timeToComplete">
        <domain resource="#ComputerSystem"/>
        <range resource="#ComputerSystem"/>
        <comment>The time required to complete a major computer
processing function.</comment>
    </EQProperty>
    <!-- Army Equipment Communication Antenna -->
    <Class ID="CommAntenna">
        <subClassOf resource="#Component"/>
        <comment>An Army Equipment Antenna</comment>
    </Class>
    <Property ID="typeAntenna">
        <domain resource="#CommAntenna"/>
        <range resource="#CommAntenna"/>
        <comment>The type of antenna used.</comment>
    </Property>
    <Property ID="antennaGain">
        <domain resource="#CommAntenna"/>
        <range resource="#CommAntenna"/>
        <comment>db.</comment>
    </Property>
    <EQProperty ID="antennaHeight">
        <domain resource="#CommAntenna"/>
        <range resource="#CommAntenna"/>

```

```

        <comment>The height of radiating element (if not known
assumed to be highest point.)</comment>
    </EQProperty>
    <Property ID="antennaPattern">
        <domain resource="#CommAntenna"/>
        <range resource="#CommAntenna"/>
        <comment>The antenna pattern.</comment>
    </Property>
    <Property ID="antennaDescription">
        <domain resource="#CommAntenna"/>
        <range resource="#CommAntenna"/>
        <comment>The detailed description of the antenna used by a
radio.</comment>
    </Property>
    <!-- Army Equipment Communication Equipment -->
    <Class ID="CommEq">
        <subClassOf resource="#Component"/>
        <comment>An Army Equipment Antenna</comment>
    </Class>
    <Property ID="cryptoSystem">
        <domain resource="#CommEq"/>
        <range resource="#CommEq"/>
        <comment>The alphanumeric description.</comment>
    </Property>
    <Property ID="crypTypeInfo">
        <domain resource="#CommEq"/>
        <range resource="#CommEq"/>
        <comment>Information on the crypto sytem type.</comment>
    </Property>
    <EQProperty ID="digitalTransmissionRate">
        <domain resource="#CommEq"/>
        <range resource="#CommEq"/>
        <comment>The rate in baud.</comment>
    </EQProperty>
    <EQProperty ID="spreadSpectrum">
        <domain resource="#CommEq"/>
        <range resource="#CommEq"/>
        <comment>Width the band operates on.</comment>
    </EQProperty>
    <EQProperty ID="typeModulation">
        <domain resource="#CommEq"/>
        <range resource="#CommEq"/>
        <comment>AM, FM, etc.</comment>
    </EQProperty>
    <!-- Army Equipment Communication Radio -->
    <Class ID="CommRadio">
        <subClassOf resource="#CommEq"/>
        <comment>The address of the terminal type.</comment>
    </Class>
    <Property ID="azimuthAngle">
        <domain resource="#CommRadio"/>
        <range resource="#CommRadio"/>
        <comment>The azimuth angle of the radio.</comment>
    </Property>
    <Property ID="numberTrans">
        <domain resource="#CommRadio"/>
        <range resource="#CommRadio"/>

```

```

        <comment>The number of transmissions the radio can
contain.</comment>
    </Property>
    <Property ID="numberRecv">
        <domain resource="#CommRadio"/>
        <range resource="#CommRadio"/>
        <comment>The number of recievers the radio can
contain.</comment>
    </Property>
    <EQProperty ID="power">
        <domain resource="#CommRadio"/>
        <range resource="#CommRadio"/>
        <comment>The radio system power.</comment>
    </EQProperty>
    <Property ID="commOperationMode">
        <domain resource="#CommRadio"/>
        <range resource="#CommRadio"/>
        <comment>The radio's operation mode.</comment>
    </Property>
    <!-- Army Equipment Communication Radio Band -->
    <Class ID="CommRadioBand">
        <subClassOf resource="#CommRadio"/>
        <comment>An Army Equipment Communication Radio
Band</comment>
    </Class>
    <Property ID="typeRadio">
        <domain resource="#CommRadioBand"/>
        <range resource="#CommRadioBand"/>
        <comment>The radio type.</comment>
    </Property>
    <EQProperty ID="maxPlanningRange">
        <domain resource="#CommRadioBand"/>
        <range resource="#CommRadioBand"/>
        <comment>The max planning range for the radio
band.</comment>
    </EQProperty>
    <EQProperty ID="maxFrequency">
        <domain resource="#CommRadioBand"/>
        <range resource="#CommRadioBand"/>
        <comment>The max frequency for the radio band.</comment>
    </EQProperty>
    <EQProperty ID="minFrequency">
        <domain resource="#CommRadioBand"/>
        <range resource="#CommRadioBand"/>
        <comment>The min frequency for the radio band.</comment>
    </EQProperty>
    <EQProperty ID="frequencyInterval">
        <domain resource="#CommRadioBand"/>
        <range resource="#CommRadioBand"/>
        <comment>The frequency interval for the radio
band.</comment>
    </EQProperty>
    <Property ID="maxRadioChannel">
        <domain resource="#CommRadioBand"/>
        <range resource="#CommRadioBand"/>
        <comment>The max radio channel.</comment>
    </Property>

```

```

    <Property ID="radioTypeDescription">
        <domain resource="#CommRadioBand"/>
        <range resource="#CommRadioBand"/>
        <comment>The basic description of radio function.</comment>
    </Property>
    <Property ID="modulationDescription">
        <domain resource="#CommRadioBand"/>
        <range resource="#CommRadioBand"/>
        <comment>The type of modulation.</comment>
    </Property>
    <!-- Army Equipment Communication Terminal -->
    <Class ID="CommTerminal">
        <subClassOf resource="#CommEQ"/>
        <comment>An Army Equipment Communication Terminal</comment>
    </Class>
    <Property ID="terminalAddress">
        <domain resource="#CommTerminal"/>
        <range resource="#CommTerminal"/>

        <comment>The azimuth angle of the radio.</comment>
    </Property>
    <!-- Army Equipment MSD -->
    <Class ID="MSD">
        <subClassOf resource="#Component"/>
        <comment>An Army Equipment Mission Specific
Device</comment>
    </Class>
    <Property ID="deviceHost">
        <domain resource="#MSD"/>
        <range resource="#MSD"/>
        <comment>Noun nomenclature of the platforms to which the
device may be attached.</comment>
    </Property>
    <EQProperty ID="attachmentTime">
        <domain resource="#MSD"/>
        <range resource="#MSD"/>
        <comment>The time required to attach the device to its host
platform in a fully ready for operations state.</comment>
    </EQProperty>
    <EQProperty ID="detachmentTime">
        <domain resource="#MSD"/>
        <range resource="#MSD"/>
        <comment>The time required to detach the device to its host
platform.</comment>
    </EQProperty>
    <EQProperty ID="tearDownTime">
        <domain resource="#MSD"/>
        <range resource="#MSD"/>
        <comment>The time required to prepare for
movement.</comment>
    </EQProperty>
    <Property ID="laserDesignate">
        <domain resource="#MSD"/>
        <range resource="#MSD"/>
        <comment>Whether the device can laser designate.</comment>
    </Property>
    <EQProperty ID="widthTotal">

```

```

        <domain resource="#MSD"/>
        <range resource="#MSD"/>
        <comment>The total width of device.</comment>
    </EQProperty>
    <EQProperty ID="msdLength">
        <domain resource="#MSD"/>
        <range resource="#MSD"/>
        <comment>The system length.</comment>
    </EQProperty>
    <EQProperty ID="msdWeight">
        <domain resource="#MSD"/>
        <range resource="#MSD"/>
        <comment>The system weight.</comment>
    </EQProperty>
    <EQProperty ID="msdSteepestGrade">
        <domain resource="#MSD"/>
        <range resource="#MSD"/>
        <comment>The steepest negotiable grade in
percent.</comment>
    </EQProperty>
    <EQProperty ID="msdHighestWallClimb">
        <domain resource="#MSD"/>
        <range resource="#MSD"/>
        <comment>The highest vertical obstacle that a vehical can
pass over.</comment>
    </EQProperty>
    <EQProperty ID="msdTopSpeedRdDay">
        <domain resource="#MSD"/>
        <range resource="#MSD"/>
        <comment>The maximum road speed in daylight.</comment>
    </EQProperty>
    <EQProperty ID="msdTurningRadius">
        <domain resource="#MSD"/>
        <range resource="#MSD"/>
        <comment>The minimum radius needed to turn the vehicle
without backing.</comment>
    </EQProperty>
    <EQProperty ID="speedForward">
        <domain resource="#MSD"/>
        <range resource="#MSD"/>
        <comment>The maximum forward speed.</comment>
    </EQProperty>
    <EQProperty ID="msdTrenchCrossing">
        <domain resource="#MSD"/>
        <range resource="#MSD"/>
        <comment>The maximum width of unsupported horizontal gap
that a vehicle can cross without bridging.</comment>
    </EQProperty>
    <!-- Army Equipment MSD Breaching -->
    <Class ID="MSDBreaching">
        <subClassOf resource="#MSD"/>
        <comment>An Army Equipment MSD Breaching</comment>
    </Class>
    <EQProperty ID="pointObstacleBreach">
        <domain resource="#MSDMaker"/>
        <range resource="#MSDMaker"/>
        <comment>The time to breach a point obstacle.</comment>

```

```

    </EQProperty>
    <Property ID="mineClear">
        <domain resource="#MSDMaker"/>
        <range resource="#MSDMaker"/>
        <comment>The time in minutes to clear standard lane thru
standard minefield.</comment>
    </Property>
    <Property ID="atDitchClear">
        <domain resource="#MSDMaker"/>
        <range resource="#MSDMaker"/>
        <comment>The time in minutes to breach Anti-tank
ditch.</comment>
    </Property>
    <Property ID="wireClear">
        <domain resource="#MSDMaker"/>
        <range resource="#MSDMaker"/>
        <comment>The time in minutes to breach wire
obstacle.</comment>
    </Property>
    <EQProperty ID="roadImprovementRate">
        <domain resource="#MSDMaker"/>
        <range resource="#MSDMaker"/>
        <comment>The rate to upgrade road.</comment>
    </EQProperty>
    <EQProperty ID="gapWidthCovered">
        <domain resource="#MSDMaker"/>
        <range resource="#MSDMaker"/>
        <comment>The unsupported distance from bank to
bank.</comment>
    </EQProperty>
    <EQProperty ID="mbc">
        <domain resource="#MSDMaker"/>
        <range resource="#MSDMaker"/>
        <comment>Military Bridge Classification.</comment>
    </EQProperty>
    <EQProperty ID="minimumBridgeGap">
        <domain resource="#MSDMaker"/>
        <range resource="#MSDMaker"/>
        <comment>The length of a single bridge span.</comment>
    </EQProperty>
    <EQProperty ID="maximumBridgeGap">
        <domain resource="#MSDMaker"/>
        <range resource="#MSDMaker"/>
        <comment>The maximum length of a bridge set.</comment>
    </EQProperty>
    <!-- Army Equipment MSD Decon EQ -->
    <Class ID="MSDDeconEQ">
        <subClassOf resource="#MSD"/>
        <comment>An Army Equipment MSD Decon EQ</comment>
    </Class>
    <EQProperty ID="routeDecon">
        <domain resource="#MSDDeconEQ"/>
        <range resource="#MSDDeconEQ"/>
        <comment>The rate to decontaminate a route.</comment>
    </EQProperty>
    <EQProperty ID="deconRateEquip">
        <domain resource="#MSDDeconEQ"/>

```

```

        <range resource="#MSDDeconEQ"/>
        <comment>The time required in minutes to decontaminate an
item of equipment.</comment>
    </EQProperty>
    <EQProperty ID="deconRatePers">
        <domain resource="#MSDDeconEQ"/>
        <range resource="#MSDDeconEQ"/>
        <comment>The time required in minutes to decontaminate an
individual.</comment>
    </EQProperty>
    <!-- Army Equipment MSD Maker -->
    <Class ID="MSDMaker">
        <subClassOf resource="#MSD"/>
        <comment>An Army Equipment MSD Maker</comment>
    </Class>
    <EQProperty ID="atDitch">
        <domain resource="#MSDMaker"/>
        <range resource="#MSDMaker"/>
        <comment>The time in minutes to create 100 meters of Anti-
tank ditch.</comment>
    </EQProperty>
    <Property ID="pointObstacleEmplace">
        <domain resource="#MSDMaker"/>
        <range resource="#MSDMaker"/>
        <comment>The time in minutes to emplace a point obstacle
across a road.</comment>
    </Property>
    <EQProperty ID="emplaceCreateTime">
        <domain resource="#MSDMaker"/>
        <range resource="#MSDMaker"/>
        <comment>The time in minutes to create hull down
emplacement.</comment>
    </EQProperty>
    <EQProperty ID="mineLay">
        <domain resource="#MSDMaker"/>
        <range resource="#MSDMaker"/>
        <comment>The time in minutes to emplace 100 meters of
Surface laid Anti-tank minefield.</comment>
    </EQProperty>
    <EQProperty ID="wire">
        <domain resource="#MSDMaker"/>
        <range resource="#MSDMaker"/>
        <comment>The time in minutes to create 30 meters of std
wire obstacle.</comment>
    </EQProperty>
    <!-- Army Equipment MSD MHE -->
    <Class ID="MSDMhe">
        <subClassOf resource="#MSD"/>
        <comment>An Army Equipment MSD MHE</comment>
    </Class>
    <EQProperty ID="liftCapacity">
        <domain resource="#MSDMhe"/>
        <range resource="#MSDMhe"/>
        <comment>The maximum weight that the system can
lift.</comment>
    </EQProperty>
    <EQProperty ID="winchCapacity">

```



```

        <domain resource="#MSDMhe"/>
        <range resource="#MSDMhe"/>
        <comment>The cargo winch capacity (pull rating.)</comment>
    </EQProperty>
    <!-- Army Equipment MSD Smoke Generation -->
    <Class ID="MSDSmokeGen">
        <subClassOf resource="#MSD"/>
        <comment>An Army Equipment MSD Smoke Generation</comment>
    </Class>
    <EQProperty ID="fogOilSupply">
        <domain resource="#MSDSmokeGen"/>
        <range resource="#MSDSmokeGen"/>
        <comment>The gallons per hour of fog oil used while
generating smoke.</comment>
    </EQProperty>
    <EQProperty ID="vess">
        <domain resource="#MSDSmokeGen"/>
        <range resource="#MSDSmokeGen"/>
        <comment>Whether the platform is equipped with automatic
smoke VESS smoke generators.</comment>
    </EQProperty>
    <Property ID="fogOilSpec">
        <domain resource="#MSDSmokeGen"/>
        <range resource="#MSDSmokeGen"/>
        <comment>Fog oil specification used to generate fog needed
for resupply.</comment>
    </Property>
    <!-- Army Equipment MSD TPU -->
    <Class ID="MSDTpu">
        <subClassOf resource="#MSD"/>
        <comment>An Army Equipment MSD TPU</comment>
    </Class>
    <EQProperty ID="pumpRate">
        <domain resource="#MSDSmokeGen"/>
        <range resource="#MSDSmokeGen"/>
        <comment>The pump rate of the Tank Pump Unit.</comment>
    </EQProperty>
    <!-- Army Equipment Power Supply -->
    <Class ID="PowerSupply">
        <subClassOf resource="#Component"/>
        <comment>An Army Equipment Power Supply</comment>
    </Class>
    <Property ID="kw">
        <domain resource="#PowerSupply"/>
        <range resource="#PowerSupply"/>
        <comment>The electrical power generated in
kilowatts.</comment>
    </Property>
    <Property ID="hp">
        <domain resource="#PowerSupply"/>
        <range resource="#PowerSupply"/>
        <comment>The power generated in horsepower.</comment>
    </Property>
    <EQProperty ID="fuelConsumption">
        <domain resource="#PowerSupply"/>
        <range resource="#PowerSupply"/>

```

```

        <comment>The amount of fuel consumed per hour of
operation.</comment>
    </EQProperty>
    <EQProperty ID="powerLife">
        <domain resource="#PowerSupply"/>
        <range resource="#PowerSupply"/>
        <comment>The time that a power storage device will provide
its rated power.</comment>
    </EQProperty>
    <!-- Army Equipment Sensor -->
    <Class ID="Sensor">
        <subClassOf resource="#Component"/>
        <comment>An Army Equipment Sensor</comment>
    </Class>
    <Property ID="imageTypeInfo">
        <domain resource="#Sensor"/>
        <range resource="#Sensor"/>
        <comment>The alphanumeric description.</comment>
    </Property>
    <Property ID="missionTypeInfo">
        <domain resource="#Sensor"/>
        <range resource="#Sensor"/>
        <comment>The alphanumeric description.</comment>
    </Property>
    <EQProperty ID="maxSensorRange">
        <domain resource="#Sensor"/>
        <range resource="#Sensor"/>
        <comment>The maximum range of the sensor.</comment>
    </EQProperty>
    <Property ID="sensorDiagraph">
        <domain resource="#Sensor"/>
        <range resource="#Sensor"/>
        <comment>The alphanumeric description.</comment>
    </Property>
    <Property ID="nightDegradation">
        <domain resource="#Sensor"/>
        <range resource="#Sensor"/>
        <comment>The degradation in percent of mission capability
as a result of night.</comment>
    </Property>
    <Property ID="rainDegradation">
        <domain resource="#Sensor"/>
        <range resource="#Sensor"/>
        <comment>The degradation in percent of mission capability
as a result of rain.</comment>
    </Property>
    <Property ID="snowDegradation">
        <domain resource="#Sensor"/>
        <range resource="#Sensor"/>
        <comment>The degradation in percent of mission capability
as a result of snow.</comment>
    </Property>
    <Property ID="obscurationDegradation">
        <domain resource="#Sensor"/>
        <range resource="#Sensor"/>

```

```

        <comment>The degradation in percent of mission capability
as a result of obscuration.</comment>
    </Property>
    <Property ID="Active">
        <domain resource="#Sensor"/>
        <range resource="#Sensor"/>
        <comment>Whether or not a sensor is active.</comment>
    </Property>
    <!-- Army Equipment Acoustic Sensor -->
    <Class ID="SensorAcoustic">
        <subClassOf resource="#Sensor"/>
        <comment>An Army Equipment Acoustic Sensor</comment>
    </Class>
    <EQProperty ID="accousticPosError">
        <domain resource="#SensorAcoustic"/>
        <range resource="#SensorAcoustic"/>
        <comment>The normal position errors in percent of range
reported by the sensor.</comment>
    </EQProperty>
    <!-- Army Equipment Chemical Sensor -->
    <Class ID="SensorChemical">
        <subClassOf resource="#Sensor"/>
        <comment>An Army Equipment Chemical Sensor</comment>
    </Class>
    <Property ID="ppmThreshold">
        <domain resource="#SensorChemical"/>
        <range resource="#SensorChemical"/>
        <comment>The parts per million of a contaminant that must
be present to trigger a detection.</comment>
    </Property>
    <!-- Army Equipment Infrared Sensor -->
    <Class ID="SensorInfrared">
        <subClassOf resource="#Sensor"/>
        <comment>An Army Equipment Infrared Sensor</comment>
    </Class>
    <!-- Army Equipment Optic Sensor -->
    <Class ID="SensorOptic">
        <subClassOf resource="#Sensor"/>
        <comment>An Army Equipment Optic Sensor</comment>
    </Class>
    <EQProperty ID="lightLevel">
        <domain resource="#SensorOptic"/>
        <range resource="#SensorOptic"/>
        <comment>The light level required for operation.</comment>
    </EQProperty>
    <EQProperty ID="probOfDetectionDist">
        <domain resource="#SensorOptic"/>
        <range resource="#SensorOptic"/>
        <comment>The distance that a target may be initially
detected.</comment>
    </EQProperty>
    <EQProperty ID="maxRecognition">
        <domain resource="#SensorOptic"/>
        <range resource="#SensorOptic"/>
        <comment>The maximun distance that equipment may be
determined by class, such as vehicles, personnel, etc.</comment>
    </EQProperty>

```

```

    <EQProperty ID="identificationRange">
      <domain resource="#SensorOptic"/>
      <range resource="#SensorOptic"/>
      <comment>The distance that equipment within a class may be
discriminated, such as T-55 tank.</comment>
    </EQProperty>
    <Property ID="narrowMagnification">
      <domain resource="#SensorOptic"/>
      <range resource="#SensorOptic"/>
      <comment>The level of magnification the sensor provides set
at narrow FoV.</comment>
    </Property>
    <Property ID="wideMagnification">
      <domain resource="#SensorOptic"/>
      <range resource="#SensorOptic"/>
      <comment>The level of magnification the sensor provides set
at wide FoV.</comment>
    </Property>
    <Property ID="wideHorizFieldOfView">
      <domain resource="#SensorOptic"/>
      <range resource="#SensorOptic"/>
      <comment>The horizontal angular spread in degrees in the
field of view of the sensor set at wide FoV.</comment>
    </Property>
    <Property ID="wideVertFieldOfView">
      <domain resource="#SensorOptic"/>
      <range resource="#SensorOptic"/>
      <comment>The vertical angular spread in degrees in the
field of view of the sensor set at wide FoV.</comment>
    </Property>
    <Property ID="narrowHorizFieldOfView">
      <domain resource="#SensorOptic"/>
      <range resource="#SensorOptic"/>
      <comment>The horizontal angular spread in degrees in the
field of view of the sensor set at narrow FoV.</comment>
    </Property>
    <Property ID="narrowVertFieldOfView">
      <domain resource="#SensorOptic"/>
      <range resource="#SensorOptic"/>
      <comment>The vertical angular spread in degrees in the
field of view of the sensor set at narrow FoV.</comment>
    </Property>
    <!-- Army Equipment Radar Sensor -->
    <Class ID="SensorRadar">
      <subClassOf resource="#Sensor"/>
      <comment>An Army Equipment Radar Sensor</comment>
    </Class>
    <Property ID="radarBand">
      <domain resource="#SensorRadar"/>
      <range resource="#SensorRadar"/>
      <comment>The bandwidth spectrum the sensor
detects.</comment>
    </Property>
    <EQProperty ID="minRadarFrequency">
      <domain resource="#SensorRadar"/>
      <range resource="#SensorRadar"/>

```

```

        <comment>The minumum frequency of the radars
emission.</comment>
    </EQProperty>
    <EQProperty ID="maxRadarFrequency">
        <domain resource="#SensorRadar"/>
        <range resource="#SensorRadar"/>
        <comment>The maximum frequency of the radars
emission.</comment>
    </EQProperty>
    <EQProperty ID="pulseRepetitionFreq">
        <domain resource="#SensorRadar"/>
        <range resource="#SensorRadar"/>
        <comment>The radar frequency.</comment>
    </EQProperty>
    <EQProperty ID="scanRate">
        <domain resource="#SensorRadar"/>
        <range resource="#SensorRadar"/>
        <comment>The sensor scan rate in passes per unit of
time.</comment>
    </EQProperty>
    <EQProperty ID="radarOnTime">
        <domain resource="#SensorRadar"/>
        <range resource="#SensorRadar"/>
        <comment>The length of time the radar is on in its
cycle.</comment>
    </EQProperty>
    <EQProperty ID="pulseWidth">
        <domain resource="#SensorRadar"/>
        <range resource="#SensorRadar"/>
        <comment>The bandwidth.</comment>
    </EQProperty>
    <Property ID="signalPolorizationFactor">
        <domain resource="#SensorRadar"/>
        <range resource="#SensorRadar"/>
        <comment>The signal polarization factor number.</comment>
    </Property>
    <EQProperty ID="powerOutput">
        <domain resource="#SensorRadar"/>
        <range resource="#SensorRadar"/>
        <comment>The power output of the sensor.</comment>
    </EQProperty>
    <EQProperty ID="posError">
        <domain resource="#SensorRadar"/>
        <range resource="#SensorRadar"/>
        <comment>The normal position errors reported by the
sensor.</comment>
    </EQProperty>
    <EQProperty ID="pulseRepetitionRate">
        <domain resource="#SensorRadar"/>
        <range resource="#SensorRadar"/>
        <comment>The frequency of pulse repetition rate.</comment>
    </EQProperty>
    <EQProperty ID="pulseRepetitionInterval">
        <domain resource="#SensorRadar"/>
        <range resource="#SensorRadar"/>
        <comment>The time interval between pulses.</comment>
    </EQProperty>

```

```

<EQProperty ID="modulationOnPulse">
  <domain resource="#SensorRadar"/>
  <range resource="#SensorRadar"/>
  <comment>The modulation on pulse.</comment>
</EQProperty>
<EQProperty ID="beamHeight">
  <domain resource="#SensorRadar"/>
  <range resource="#SensorRadar"/>
  <comment>The height of the beam.</comment>
</EQProperty>
<EQProperty ID="beamWidth">
  <domain resource="#SensorRadar"/>
  <range resource="#SensorRadar"/>
  <comment>The width of the beam.</comment>
</EQProperty>
<EQProperty ID="sideLobeAveragePower">
  <domain resource="#SensorRadar"/>
  <range resource="#SensorRadar"/>
  <comment>The side lobe average power.</comment>
</EQProperty>
<Property ID="elintNotation">
  <domain resource="#SensorRadar"/>
  <range resource="#SensorRadar"/>
  <comment>The elint notation.</comment>
</Property>
<Property ID="scanType">
  <domain resource="#SensorRadar"/>
  <range resource="#SensorRadar"/>
  <comment>The type of scan.</comment>
</Property>
<!-- Army Equipment Radiation Sensor -->
<Class ID="SensorRadiation">
  <subClassOf resource="#Sensor"/>
  <comment>An Army Equipment Radiation Sensor</comment>
</Class>
<!-- Army Equipment Radio Sensor -->
<Class ID="SensorRadio">
  <subClassOf resource="#Sensor"/>
  <comment>An Army Equipment Radio Sensor</comment>
</Class>
<Property ID="functionInfo">
  <domain resource="#SensorRadio"/>
  <range resource="#SensorRadio"/>
  <comment>The function of the sensor, such as comms
intercept, target location, etc.</comment>
</Property>
<Property ID="frequencyBand">
  <domain resource="#SensorRadio"/>
  <range resource="#SensorRadio"/>
  <comment>The bandwidth spectrum the sensor
detects.</comment>
</Property>
<EQProperty ID="minColumnFreq">
  <domain resource="#SensorRadio"/>
  <range resource="#SensorRadio"/>
  <comment>The minimum collectable frequency.</comment>
</EQProperty>

```

```

<EQProperty ID="maxColumnFreq">
    <domain resource="#SensorRadio"/>
    <range resource="#SensorRadio"/>
    <comment>The maximum collectable frequency.</comment>
</EQProperty>
<!-- Army Equipment Siesmic Sensor -->
<Class ID="SensorSiesmic">
    <subClassOf resource="#Sensor"/>
    <comment>An Army Equipment Siesmic Sensor</comment>
</Class>
<!-- Army Equipment Weapon -->
<Class ID="Weapon">
    <subClassOf resource="#Component"/>
    <comment>An Army Equipment Weapon</comment>
</Class>
<EQProperty ID="mrbf">
    <domain resource="#Weapon"/>
    <range resource="#Weapon"/>
    <comment>The mean rounds before failure.</comment>
</EQProperty>
<EQProperty ID="rofMax">
    <domain resource="#Weapon"/>
    <range resource="#Weapon"/>
    <comment>The maximum rate of fire in rounds.</comment>
</EQProperty>
<EQProperty ID="mrofMax">
    <domain resource="#Weapon"/>
    <range resource="#Weapon"/>
    <comment>The time in minutes after firing maximum rate
before that weapon can fire at maximum rate again.</comment>
</EQProperty>
<EQProperty ID="rofSust">
    <domain resource="#Weapon"/>
    <range resource="#Weapon"/>
    <comment>The sustained rate of fire in rounds.</comment>
</EQProperty>
<EQProperty ID="rofRapid">
    <domain resource="#Weapon"/>
    <range resource="#Weapon"/>
    <comment>The rapid rate of fire for the weapon.</comment>
</EQProperty>
<EQProperty ID="loadTime">
    <domain resource="#Weapon"/>
    <range resource="#Weapon"/>
    <comment>The time required to reload the
magazine.</comment>
</EQProperty>
<EQProperty ID="maxIndependentElevation">
    <domain resource="#Weapon"/>
    <range resource="#Weapon"/>
    <comment>The degrees above horizontal.</comment>
</EQProperty>
<EQProperty ID="minIndependentElevation">
    <domain resource="#Weapon"/>
    <range resource="#Weapon"/>
    <comment>The degrees below horizontal.</comment>
</EQProperty>

```

```

    <EQProperty ID="rearmDuration">
        <domain resource="#Weapon"/>
        <range resource="#Weapon"/>
        <comment>The time required, per round, to re-arm the
weapon.</comment>
    </EQProperty>
    <!-- Army Equipment Supply -->
    <Class ID="Supply">
        <comment>An Army Equipment Supply</comment>
    </Class>
    <Property ID="unitOfIssue">
        <domain resource="#Supply"/>
        <range resource="#Supply"/>
        <comment>The unit of issue.</comment>
    </Property>
    <!-- Army Equipment Supply Personnel Items -->
    <Class ID="SupplyPersonnelItems">
        <subClassOf resource="#Supply"/>
        <comment>An Army Equipment Supply Personnel Item.</comment>
    </Class>
    <EQProperty ID="rateOfConsumption">
        <domain resource="#SupplyPersonnelItems"/>
        <range resource="#SupplyPersonnelItems"/>
        <comment>The rate at which this class 1 or class 6 supply
item is consumed by personnel.</comment>
    </EQProperty>
    <Property ID="itemDescription">
        <domain resource="#SupplyPersonnelItems"/>
        <range resource="#SupplyPersonnelItems"/>
        <comment>A description of the Class 1 or Class 6 supply
item.</comment>
    </Property>
    <!-- Army Equipment Supply Munition -->
    <Class ID="SupplyMunition">
        <subClassOf resource="#Supply"/>
        <comment>An Army Equipment Supply Munition.</comment>
    </Class>
    <Property ID="dodac">
        <domain resource="#SupplyMunition"/>
        <range resource="#SupplyMunition"/>
        <comment>The Dept. of Defense Ammunition Code of the
munition.</comment>
    </Property>
    <Property ID="battlefieldFunction">
        <domain resource="#SupplyMunition"/>
        <range resource="#SupplyMunition"/>
        <comment>The battlefield function of the
munition.</comment>
    </Property>
    <EQProperty ID="minRange">
        <domain resource="#SupplyMunition"/>
        <range resource="#SupplyMunition"/>
        <comment>The distance a round travels before it becomes
capable of detonating.</comment>
    </EQProperty>
    <EQProperty ID="maxRange">
        <domain resource="#SupplyMunition"/>

```



```

        <range resource="#SupplyMunition"/>
        <comment>The max range of the munition.</comment>
    </EQProperty>
    <EQProperty ID="maxFireRate">
        <domain resource="#SupplyMunition"/>
        <range resource="#SupplyMunition"/>
        <comment>The max rate of fire for the munition if different
from weapon.</comment>
    </EQProperty>
    <EQProperty ID="effArea">
        <domain resource="#SupplyMunition"/>
        <range resource="#SupplyMunition"/>
        <comment>The weapon effective pattern area in the ground
plane.</comment>
    </EQProperty>
    <EQProperty ID="openingHeight">
        <domain resource="#SupplyMunition"/>
        <range resource="#SupplyMunition"/>
        <comment>Altitude of the weapon or dispenser opening
AGL.</comment>
    </EQProperty>
    <EQProperty ID="maxEffectiveRange">
        <domain resource="#SupplyMunition"/>
        <range resource="#SupplyMunition"/>
        <comment>The maximum effective range of the
munition.</comment>
    </EQProperty>
    <Property ID="typeOfWarhead">
        <domain resource="#SupplyMunition"/>
        <range resource="#SupplyMunition"/>
        <comment>The type of Warhead.</comment>
    </Property>
    <Property ID="typeOfFuze">
        <domain resource="#SupplyMunition"/>
        <range resource="#SupplyMunition"/>
        <comment>The type of fuze.</comment>
    </Property>
    <!-- Army Equipment Supply Munition Ballistic -->
    <Class ID="SupplyMunitionBallistic">
        <subClassOf resource="#SupplyMunition"/>
        <comment>An Army Equipment Supply Munition
Ballistic.</comment>
    </Class>
    <!-- Army Equipment Supply Munition Bio-Chemical -->
    <Class ID="SupplyMunitionBioChem">
        <subClassOf resource="#SupplyMunition"/>
        <comment>An Army Equipment Supply Bio-Chemical.</comment>
    </Class>
    <Property ID="agent">
        <domain resource="#SupplyMunitionBioChem"/>
        <range resource="#SupplyMunitionBioChem"/>
        <comment>Biological/Chemical agent used as
filler.</comment>
    </Property>
    <EQProperty ID="agentRND">
        <domain resource="#SupplyMunitionBioChem"/>
        <range resource="#SupplyMunitionBioChem"/>

```

```

        <comment>Amount of Chemical/biological agent per
round.</comment>
    </EQProperty>
    <!-- Army Equipment Supply Munition Flare -->
    <Class ID="SupplyMunitionFlare">
        <subClassOf resource="#SupplyMunition"/>
        <comment>An Army Equipment Supply Flare.</comment>
    </Class>
    <EQProperty ID="flareBurnDuration">
        <domain resource="#SupplyMunitionFlare"/>
        <range resource="#SupplyMunitionFlare"/>
        <comment>The time in seconds that the flare continues to
provide its rated illumination.</comment>
    </EQProperty>
    <EQProperty ID="flareRateOfFall">
        <domain resource="#SupplyMunitionFlare"/>
        <range resource="#SupplyMunitionFlare"/>
        <comment>The rate of fall.</comment>
    </EQProperty>
    <EQProperty ID="flareInnerConeAngle">
        <domain resource="#SupplyMunitionFlare"/>
        <range resource="#SupplyMunitionFlare"/>
        <comment>The inner flare angle in degrees.</comment>
    </EQProperty>
    <!-- Army Equipment Supply Munition Guided -->
    <Class ID="SupplyMunitionGuided">
        <subClassOf resource="#SupplyMunition"/>
        <comment>An Army Equipment Supply Guided.</comment>
    </Class>
    <EQProperty ID="smartMunitionAcqRadius">
        <domain resource="#SupplyMunitionGuided"/>
        <range resource="#SupplyMunitionGuided"/>
        <comment>The acquisition radius for the smart munition
warhead.</comment>
    </EQProperty>
    <Property ID="smtSubmunitionsWhd">
        <domain resource="#SupplyMunitionGuided"/>
        <range resource="#SupplyMunitionGuided"/>
        <comment>The number of sub-munitions per smart munition
warhead.</comment>
    </Property>
    <!-- Army Equipment Supply Munition Nuclear -->
    <Class ID="SupplyMunitionNuclear">
        <subClassOf resource="#SupplyMunition"/>
        <comment>An Army Equipment Supply Munition
Nuclear.</comment>
    </Class>
    <Property ID="kt">
        <domain resource="#SupplyMunitionNuclear"/>
        <range resource="#SupplyMunitionNuclear"/>
        <comment>The yield of the warhead.</comment>
    </Property>
    <!-- Army Equipment Supply Munition Smoke -->
    <Class ID="SupplyMunitionSmoke">
        <subClassOf resource="#SupplyMunition"/>
        <comment>An Army Equipment Supply Smoke.</comment>

```

```

</Class>
<Property ID="smokeColor">
    <domain resource="#SupplyMunitionSmoke"/>
    <range resource="#SupplyMunitionSmoke"/>
    <comment>The color of the smoke generated.</comment>
</Property>
<EQProperty ID="smokeDuration">
    <domain resource="#SupplyMunitionSmoke"/>
    <range resource="#SupplyMunitionSmoke"/>
    <comment>The duration of the smoke generated.</comment>
</EQProperty>
<EQProperty ID="smokeVolume">
    <domain resource="#SupplyMunitionSmoke"/>
    <range resource="#SupplyMunitionSmoke"/>
    <comment>The volume of smoke generated.</comment>
</EQProperty>
<Property ID="smokeType">
    <domain resource="#SupplyMunitionSmoke"/>
    <range resource="#SupplyMunitionSmoke"/>
    <comment>The type of observation against which the smoke is
directed, e.g. thermal, visual.</comment>
</Property>
<!-- Army Equipment Supply Repair Part -->
<Class ID="SupplyRepairPart">
    <subClassOf resource="#Supply"/>
    <comment>An Army Equipment Supply Repair Part</comment>
</Class>
<!-- Army Equipment Item Nomenclature -->
<Property ID="itemNomenclature">
    <domain resource="#SystemUnit"/>
    <domain resource="#Platform"/>
    <domain resource="#Component"/>
    <domain resource="#Supply"/>
    <range resource="#ItemNomenclature"/>
</Property>
<Class ID="ItemNomenclature">
    <subClassOf resource="#SystemUnit"/>
    <subClassOf resource="#Platform"/>
    <subClassOf resource="#Component"/>
    <subClassOf resource="#Supply"/>
    <comment>An Army Equipment Item Nomenclature</comment>
</Class>
<Property ID="model">
    <domain resource="#ItemNomenclature"/>
    <range resource="#ItemNomenclature"/>
    <comment>The model number (abbreviated
nomenclature).</comment>
</Property>
<Property ID="commonName">
    <domain resource="#ItemNomenclature"/>
    <range resource="#ItemNomenclature"/>
    <comment>A brief name in everyday use.</comment>
</Property>
<Property ID="nomenclature">
    <domain resource="#ItemNomenclature"/>
    <range resource="#ItemNomenclature"/>

```

```

        <comment>Official Army noun nomenclature, as given in the
relevant supply catalog or TM.</comment>
    </Property>
    <Property ID="lin">
        <domain resource="#ItemNomenclature"/>
        <range resource="#ItemNomenclature"/>
        <comment>Line Item Number of the equipment.</comment>
    </Property>
    <Property ID="nsn">
        <domain resource="#ItemNomenclature"/>
        <range resource="#ItemNomenclature"/>
        <comment>National Stock Number of the item.</comment>
    </Property>
    <Property ID="supplyClass">
        <domain resource="#ItemNomenclature"/>
        <range resource="#ItemNomenclature"/>
        <comment>The class of supply per FM 101-5-1.</comment>
    </Property>
    <Property ID="itemNomenclatureNotes">
        <domain resource="#ItemNomenclature"/>
        <range resource="#ItemNomenclature"/>
        <comment>A detailed description of the item.</comment>
    </Property>
    <Property ID="itemType">
        <domain resource="#ItemNomenclature"/>
        <range resource="#ItemNomenclature"/>
        <comment>The class of the item in question. (ie. WEAPON,
SENSOR OPTIC, EQ PLATFORM DESCRIPTION)</comment>
    </Property>
    <Class ID="ItemType">
        <oneOf parseType="daml:collection">
            <ItemType ID="systemUnit"/>
            <ItemType ID="platform"/>
            <ItemType ID="cargoContainer"/>
            <ItemType ID="computerSystem"/>
            <ItemType ID="commAntenna"/>
            <ItemType ID="commRadio"/>
            <ItemType ID="commTerminal"/>
            <ItemType ID="chassisAirFixedWing"/>
            <ItemType ID="chassisAirRotaryWing"/>
            <ItemType ID="chassisGroundRail"/>
            <ItemType ID="chassisGroundTracked"/>
            <ItemType ID="chassisGroundTowed"/>
            <ItemType ID="chassisGroundWheeled"/>
            <ItemType ID="chassisStationary"/>
            <ItemType ID="chassisWater"/>
            <ItemType ID="msdBreaching"/>
            <ItemType ID="msdDeconEq"/>
            <ItemType ID="msdMaker"/>
            <ItemType ID="msdMhe"/>
            <ItemType ID="msdSmokeGen"/>
            <ItemType ID="msdTpu"/>
            <ItemType ID="sensorAcoustic"/>
            <ItemType ID="sensorChemical"/>
            <ItemType ID="sensorInfrared"/>
            <ItemType ID="sensorOptic"/>
            <ItemType ID="sensorRadar"/>
        </oneOf>
    </Class>

```

```

        <ItemType ID="sensorRadiation"/>
        <ItemType ID="sensorRadio"/>
        <ItemType ID="sensorSiesmic"/>
        <ItemType ID="supplyMunitionBallistic"/>
        <ItemType ID="supplyMunitionBioChem"/>
        <ItemType ID="supplyMunitionFlare"/>

        <ItemType ID="supplyMunitionGuided"/>
        <ItemType ID="supplyMunitionNuclear"/>
        <ItemType ID="supplyMunitionSmoke"/>
        <ItemType ID="supplyPersonnelItems"/>
        <ItemType ID="supplyRepairPart"/>
        <ItemType ID="weapon"/>
    </oneOf>
</Class>
<!-- Army Equipment Data Source -->
<Class ID="PlatformDataSource">
    <subClassOf resource="#ItemNomenclature"/>
    <comment>An Army Equipment Data Source.</comment>
</Class>
<Property ID="appendixBName">
    <domain resource="#PlatformDataSource"/>
    <range resource="#PlatformDataSource"/>
    <comment>The fully qualified name of the Army Equipment
Item.</comment>
</Property>
<Property ID="preparedBy">
    <domain resource="#PlatformDataSource"/>
    <range resource="#PlatformDataSource"/>
    <comment>The individual who prepared the item.</comment>
</Property>
<Property ID="reviewedBy">
    <domain resource="#PlatformDataSource"/>
    <range resource="#PlatformDataSource"/>
    <comment>The individual who reviewed the item.</comment>
</Property>
<Property ID="fdbUniqueID">
    <domain resource="#PlatformDataSource"/>
    <range resource="#PlatformDataSource"/>
    <comment>The item's unique FDP identification
number.</comment>
</Property>
<Property ID="rn">
    <domain resource="#PlatformDataSource"/>
    <range resource="#PlatformDataSource"/>
    <comment>The item's required number.</comment>
</Property>
<Property ID="source">
    <domain resource="#PlatformDataSource"/>
    <range resource="#PlatformDataSource"/>
    <comment>The primary source for the item.</comment>
</Property>
<Property ID="origDatePrepared">
    <domain resource="#PlatformDataSource"/>
    <range resource="#PlatformDataSource"/>
    <comment>The original date the item was prepared.</comment>
</Property>

```

```

    <Property ID="currentRevNo">
      <domain resource="#PlatformDataSource"/>
      <range resource="#PlatformDataSource"/>
      <comment>The current revision number of the item.</comment>
    </Property>
    <Property ID="RevDesc">
      <domain resource="#PlatformDataSource"/>
      <range resource="#PlatformDataSource"/>
      <comment>The current revision description.</comment>
    </Property>
    <!-- Army Equipment Signature -->
    <Property ID="signature">
      <domain resource="#Platform"/>
      <domain resource="#Supply"/>
      <range resource="#Signature"/>
    </Property>
    <Class ID="Signature">
      <subClassOf resource="#Platform"/>
      <subClassOf resource="#Supply"/>
      <comment>An Army Equipment Signature</comment>
    </Class>
    <Property ID="visualSig">
      <domain resource="#Signature"/>
      <range resource="#Signature"/>
      <comment>The reference number to visually detect.</comment>
    </Property>
    <Property ID="thermalSig">
      <domain resource="#Signature"/>
      <range resource="#Signature"/>
      <comment>The reference number to thermally
detect.</comment>
    </Property>
    <Property ID="rfSig">
      <domain resource="#Signature"/>
      <range resource="#Signature"/>
      <comment>The reference number to detect by radar.</comment>
    </Property>
    <Property ID="acousticSig">
      <domain resource="#Signature"/>
      <range resource="#Signature"/>
      <comment>The reference number to acoustically
detect.</comment>
    </Property>
    <Property ID="seismicSig">
      <domain resource="#Signature"/>
      <range resource="#Signature"/>
      <comment>The reference number to seismically
detect.</comment>
    </Property>
    <Property ID="magneticSig">
      <domain resource="#Signature"/>
      <range resource="#Signature"/>
      <comment>The reference number to magnetically
detect.</comment>
    </Property>
    <Property ID="emrSig">
      <domain resource="#Signature"/>

```

```

        <range resource="#Signature"/>
        <comment>The reference number to detect from electro-
magnetic radiation.</comment>
    </Property>
    <Property ID="chemSig">
        <domain resource="#Signature"/>
        <range resource="#Signature"/>

        <comment>The reference number to detect from chemical
contamination.</comment>
    </Property>
    <EQProperty ID="weight">
        <domain resource="#Signature"/>
        <range resource="#Signature"/>
        <comment>The weight of an item.</comment>
    </EQProperty>
    <EQProperty ID="height">
        <domain resource="#Signature"/>
        <range resource="#Signature"/>
        <comment>The height of an item.</comment>
    </EQProperty>
    <EQProperty ID="length">
        <domain resource="#Signature"/>
        <range resource="#Signature"/>
        <comment>The length of an item.</comment>
    </EQProperty>
    <EQProperty ID="width">
        <domain resource="#Signature"/>
        <range resource="#Signature"/>
        <comment>The width of an item.</comment>
    </EQProperty>
    <EQProperty ID="volume">
        <domain resource="#Signature"/>
        <range resource="#Signature"/>
        <comment>The volume of an item.</comment>
    </EQProperty>
    <Property ID="radarCrossSection">
        <domain resource="#Signature"/>
        <range resource="#Signature"/>
        <comment>unclassified, fixed RCS</comment>
    </Property>
    <!-- Army Equipment Composite - System Unit and System Unit -->
    <Class ID="SystemUnitSystemUnit">
        <unionOf parseType="daml:collection">
            <class about="#SystemUnit"/>
        </unionOf>
        <comment>An Army Equipment Composition. A System Unit has
other System Units.</comment>
    </Class>
    <Property ID="quantitySystemUnit">
        <domain resource="#SystemUnitSystemUnit"/>
        <range resource="#SystemUnitSystemUnit"/>
        <comment>The total number of system units part of the
system unit in question.</comment>
    </Property>
    <!-- Army Equipment Composite - System Unit and Platform -->
    <Class ID="SystemUnitPlatform">

```

```

        <unionOf parseType="daml:collection">
            <class about="#SystemUnit"/>
            <class about="#Platform"/>
        </unionOf>
        <comment>An Army Equipment Composition. A System Unit has
Platforms.</comment>
    </Class>
    <Property ID="quantityPlatform">
        <domain resource="#SystemUnitPlatform"/>
        <range resource="#SystemUnitPlatform"/>
        <comment>The number of platform models in the system
unit.</comment>
    </Property>
    <!-- Army Equipment Composite - System Unit and Component -->
    <Class ID="SystemUnitComponent">
        <unionOf parseType="daml:collection">
            <class about="#SystemUnit"/>
            <class about="#Component"/>
        </unionOf>
        <comment>An Army Equipment Composition. A System Unit has
Components.</comment>
    </Class>
    <Property ID="quantityComponent">
        <domain resource="#SystemUnitPlatform"/>
        <range resource="#SystemUnitPlatform"/>
        <comment>The quantity of components in a system
unit.</comment>
    </Property>
    <!-- Army Equipment Composite - Platform and Platform (Primary
Mover) -->
    <Class ID="PlatformPrimaryMover">
        <unionOf parseType="daml:collection">
            <class about="#Platform"/>
        </unionOf>
        <comment>An Army Equipment Composition. A Platform has
other platforms.</comment>
    </Class>
    <!-- Army Equipment Composite - Platform and Component -->
    <Class ID="PlatformComponent">
        <unionOf parseType="daml:collection">
            <class about="#Platform"/>
            <class about="#Component"/>
        </unionOf>
        <comment>An Army Equipment Composition. A Platform has
Components.</comment>
    </Class>
    <Property ID="quantityPlatformComponent">
        <domain resource="#PlatformComponent"/>
        <range resource="#PlatformComponent"/>
        <comment>The quantity of components in a system
unit.</comment>
    </Property>
    <Property ID="optionalPlatformComponent">
        <domain resource="#PlatformComponent"/>
        <range resource="#PlatformComponent"/>
        <comment>The number of identical components a person
carries.</comment>

```



```

    </Property>
    <!-- Army Equipment Composite - Platform and Weapon (Platform
Basic Load) -->
    <Class ID="PlatformBasicLoad">
        <unionOf parseType="daml:collection">
            <class about="#Platform"/>
            <class about="#Weapon"/>
        </unionOf>
        <comment>An Army Equipment Composition. A Platform has
Weapons.</comment>
    </Class>
    <Property ID="quantityMunitionStored">
        <domain resource="#PlatformBasicLoad"/>
        <range resource="#PlatformBasicLoad"/>
        <comment>The quantity of munition stored for a component on
a platform.</comment>
    </Property>
    <Property ID="readyuse">
        <domain resource="#PlatformBasicLoad"/>
        <range resource="#PlatformBasicLoad"/>
        <comment>The quantity of munition stored for a component on
a platform that is READYUSE.</comment>
    </Property>
    <Property ID="quantityWeaponStored">
        <domain resource="#PlatformBasicLoad"/>
        <range resource="#PlatformBasicLoad"/>
        <comment>The quantity of weapons stored for a component on a
platform.</comment>
    </Property>
    <Property ID="optionalWeaponComponent">
        <domain resource="#PlatformBasicLoad"/>
        <range resource="#PlatformBasicLoad"/>
        <comment>Describes if a component is a required item to
define a platform, or if it is an allowed but optional item.</comment>
    </Property>
    <!-- Army Equipment Composite - Cargo Container and Supply (Cargo
Supply) -->
    <Class ID="CargoSupply">
        <unionOf parseType="daml:collection">
            <class about="#CargoContainer"/>
            <class about="#Supply"/>
        </unionOf>
        <comment>An Army Equipment Composition. A Cargo Container
has Supplies.</comment>
    </Class>
    <Property ID="quantityCargoSupply">
        <domain resource="#CargoSupply"/>
        <range resource="#CargoSupply"/>
        <comment>The number of identical supplies that a cargo
container holds.</comment>
    </Property>
    <!-- Army Equipment Composite - Component and Supply Repair Part
(Component Part) -->
    <Class ID="ComponentPart">
        <unionOf parseType="daml:collection">
            <class about="#Component"/>
            <class about="#SupplyRepairPart"/>

```

```

        </unionOf>
        <comment>An Army Equipment Composition. A Component has
Supply Repair Parts.</comment>
    </Class>
    <Property ID="quantityComponentParts">
        <domain resource="#ComponentPart"/>
        <range resource="#ComponentPart"/>
        <comment>The number of identical repair parts that are part
of a component.</comment>
    </Property>
    <!-- Army Equipment Composite - Weapon and Supply Munition
(Weapon Munition) -->
    <Class ID="WeaponMunition">
        <unionOf parseType="daml:collection">
            <class about="#Weapon"/>
            <class about="#SupplyMunition"/>
        </unionOf>
        <comment>An Army Equipment Composition. A Weapon has Supply
Munitions.</comment>
    </Class>
    <!-- Army Equipment Composite - Communication Equipment and
Communication Antenna (Valid Communication Antenna) -->
    <Class ID="ValidCommAntenna">
        <unionOf parseType="daml:collection">
            <class about="#CommEq"/>
            <class about="#CommAntenna"/>
        </unionOf>
        <comment>An Army Equipment Composition. A Communication
Equipment has Communication Atennas.</comment>
    </Class>
</rdf:RDF>
<?xml version="1.0"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns="http://www.daml.org/2000/10/daml-ont#"
xmlns:daml="http://www.daml.org/2000/10/daml-ont#"
xmlns:armyEQ="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#"
xmlns:armyEQUOM="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUO
M-ont-1.0v.daml#"
xmlns:a="https://www.daml.org/actionitems/actionitems-20000905.rdfs#">
    <!-- An Army S-250 Shelter Equipment Model -->
    <!-- mark DAML program action item 12 as complete -->
    <rdf:Description about="https://www.daml.org/actionitems/12.rdf">
        <a:state>closed</a:state>
        <a:Action>
            <a:status>available at
http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml</a:status>
            <a:date>2000-10-31</a:date>
            <a:by>TeamXML@drc.com</a:by>
        </a:Action>
    </rdf:Description>
    <Ontology about="">
        <versionInfo>$Id: ArmyEQ-S250Shelter-ont-1.0v.daml, v 1.0,
2000/12/1 $</versionInfo>

```

```

        <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQ-ont-
1.0v.daml#" />
        <imports
resource="http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUOM-ont-
1.0v.daml daml#" />
    </Ontology>
    <!-- Army Equipment Cargo Container -->
    <armyEQ:CargoContainer about="#S250">
        <armyEQ:passengers>TBD</armyEQ:passengers>
        <armyEQ:wetCargo>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:wetCargo>
        <armyEQ:dryCargo>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:dryCargo>
        <armyEQ:palletCap>TBD</armyEQ:palletCap>
        <armyEQ:maxHeight>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxHeight>
        <armyEQ:maxWidth>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxWidth>
        <armyEQ:maxLength>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxLength>
        <armyEQ:maxVolume>
            <armyEQ:value>790</armyEQ:value>
            <armyEQ:uom>cubicFeet</armyEQ:uom>
        </armyEQ:maxVolume>
    </armyEQ:CargoContainer>
    <!-- Army Equipment Component -->
    <armyEQ:Component about="#S250">
        <armyEQ:crewSize>TBD</armyEQ:crewSize>
        <armyEQ:maxEmplacementTime>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxEmplacementTime>

        <armyEQ:maxDisplacementTime>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:maxDisplacementTime>
        <armyEQ:mtbf>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:mtbf>
        <armyEQ:mttr>
            <armyEQ:value>TBD</armyEQ:value>
            <armyEQ:uom>TBD</armyEQ:uom>
        </armyEQ:mttr>
        <armyEQ:failureNotes>TBD</armyEQ:failureNotes>

```

```

        <armyEQ:componentNotes>TBD</armyEQ:componentNotes>
    </armyEQ:Component>
    <!-- Army Equipment Item Nomenclature -->
    <armyEQ:ItemNomenclature about="#S250">
        <armyEQ:model>S250</armyEQ:model>
        <armyEQ:commonName>S-250</armyEQ:commonName>
        <armyEQ:nomenclature>SHELTER</armyEQ:nomenclature>
        <armyEQ:lin>TBD</armyEQ:lin>
        <armyEQ:nsn>TBD</armyEQ:nsn>
        <armyEQ:supplyClass>TBD</armyEQ:supplyClass>

        <armyEQ:itemNomenclatureNotes>TBD</armyEQ:itemNomenclatureNotes>
        <armyEQ:itemType>TBD</armyEQ:itemType>
    </armyEQ:ItemNomenclature>
</rdf:RDF>

```

```

<?xml version="1.0"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns="http://www.daml.org/2000/10/daml-ont#"
xmlns:daml="http://www.daml.org/2000/10/daml-ont#"
xmlns:a="https://www.daml.org/actionitems/actionitems-20000905.rdfs#">

    <!-- Army Equipment Unit of Measure Ontology -->
    <!-- mark DAML program action item 12 as complete -->
    <rdf:Description about="https://www.daml.org/actionitems/12.rdf">
        <a:state>closed</a:state>
        <a:Action>
            <a:status>available at
http://orl01.drc.com/daml/Ontology/ArmyEQ/1.X/ArmyEQUOM-ont-1.0v.daml</a:status>
            <a:date>2000-10-31</a:date>
            <a:by>TeamXML@drc.com</a:by>
        </a:Action>
    </rdf:Description>
    <Ontology about="">
        <versionInfo>$Id: ArmyEQUOM-ont-1.0v.daml, v 1.0, 2000/12/1
$</versionInfo>
        <comment>An Army Equipment Unit of Measure Ontology</comment>
        <imports resource="http://www.daml.org/2000/10/daml-ont#" />
    </Ontology>
    <!-- Army Equipment Property -->
    <Class ID="EQProperty">
        <subClassOf resource="http://www.daml.org/2000/10/daml-
ont#Property" />
        <comment>An Army Equipment Property</comment>
    </Class>
    <Property ID="value">
        <domain resource="#EQProperty" />
        <comment>A value as it applies to an Army Equipment
Propert.</comment>
    </Property>
    <Property ID="uom">
        <domain resource="#EQProperty" />
        <range resource="#UnitOfMeasure" />
        <comment>A unit of measure as it applies to an Army Equipment
Propert.</comment>
    </Property>
    <!-- Unit of Measure -->
    <Class ID="UnitOfMeasure">
        <comment>Unit of Measure</comment>
    </Class>
    <Property ID="uomName">
        <domain resource="#UnitOfMeasure" />
        <range resource="#UOMName" />
    </Property>
    <Class ID="UOMName">
        <oneOf parseType="daml:collection">
            <UOMName ID="acres" />
            <UOMName ID="bitsPerSecond" />
            <UOMName ID="bytesPerSecond" />
            <UOMName ID="centimeters" />
            <UOMName ID="channels" />
            <UOMName ID="cubic" />
            <UOMName ID="cubicFeet" />

```

```

<UOMName ID="cubicMeters"/>
<UOMName ID="cubicMetersPerHour"/>
<UOMName ID="degrees"/>
<UOMName ID="each"/>
<UOMName ID="efcRounds"/>
<UOMName ID="explosions"/>
<UOMName ID="firings"/>
<UOMName ID="gallonsPerHour"/>
<UOMName ID="gigahertz"/>
<UOMName ID="grams"/>
<UOMName ID="hertz"/>
<UOMName ID="hours"/>
<UOMName ID="kilobytesPerSecond"/>
<UOMName ID="kilograms"/>
<UOMName ID="kilogramsPerSquareCentimeters"/>
<UOMName ID="kilohertz"/>
<UOMName ID="kilopascals"/>
<UOMName ID="kilometers"/>
<UOMName ID="kilometersPerHour"/>

<UOMName ID="kilometersPerLiter"/>
<UOMName ID="kilowatts"/>
<UOMName ID="liters"/>
<UOMName ID="litersPer100Kilometer"/>
<UOMName ID="litersPerHour"/>
<UOMName ID="litersPerMile"/>
<UOMName ID="litersPerMinute"/>
<UOMName ID="litersPerKilometer"/>
<UOMName ID="megahertz"/>
<UOMName ID="meters"/>
<UOMName ID="metersPerHour"/>
<UOMName ID="metersPerSecond"/>
<UOMName ID="metersPerTank"/>
<UOMName ID="metricTons"/>
<UOMName ID="microseconds"/>
<UOMName ID="mililiters"/>
<UOMName ID="milimeters"/>
<UOMName ID="mils"/>
<UOMName ID="minutes"/>
<UOMName ID="minutesPerRound"/>
<UOMName ID="missilePer3Seconds"/>
<UOMName ID="missilePer6Seconds"/>
<UOMName ID="missiles(boxedInSetsOf3)"/>
<UOMName ID="missilesPerSecond"/>
<UOMName ID="pulsesPerSecond"/>
<UOMName ID="rangings"/>
<UOMName ID="rocketsPerMinuteOrMissilesIn20Seconds"/>
<UOMName ID="rounds"/>
<UOMName ID="roundOnCommand"/>
<UOMName ID="roundsPer6Seconds"/>
<UOMName ID="roundsPerMinute"/>
<UOMName ID="roundPerMinuteFor1Minute"/>
<UOMName ID="roundsPerMinuteFor3Minutes"/>
<UOMName ID="revolutionsPerMinute"/>
<UOMName ID="roundsPer20Seconds"/>
<UOMName ID="roundsPerHour"/>
<UOMName ID="minutesPerMeter"/>

```

```

        <UOMName ID="shortTons"/>
        <UOMName ID="seconds"/>
        <UOMName ID="squareCentimeters"/>
        <UOMName ID="squareMiles"/>
        <UOMName ID="tons"/>
        <UOMName
ID="twoMissilesInLessThan20SecondsAtOneOrTwoAimpoints"/>
        <UOMName ID="unitsPerHour"/>
        <UOMName ID="us"/>
        <UOMName ID="watts"/>
    </oneOf>
</Class>
</rdf:RDF>

```

Appendix T: LandPlatform Ontology


```

<?xml version="1.0" encoding="ISO-8859-1"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
xmlns:owl="http://www.w3.org/2002/07/owl#"
xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
xmlns:dc="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#"
xmlns:vls="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VLS/ver/0.1.0/drc-
vls-ont#"
xmlns:ves="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#"
xmlns:landplat="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DIS/Entity/Platf
orm/Land/ver/0.1.0/land-platform-ont#"
xmlns="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DIS/Entity/Platform/Land/
ver/0.1.0/land-platform-ont#">
  <!-- DIS Entity - Land Platform Ontology -->
  <owl:Ontology rdf:about="">
    <ves:versioning>
      <ves:VersionData>
        <dc:title>DIS Entity Land Platform Ontology</dc:title>
        <ves:version>0.1.0</ves:version>
        <ves:email>TeamXML@drc.com</ves:email>
        <dc:creator>DRC</dc:creator>
        <ves:releaseDate>2003-07-11</ves:releaseDate>
        <ves:releaseLevel>beta</ves:releaseLevel>
        <ves:status>current</ves:status>
      </ves:VersionData>
    </ves:versioning>
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont"/>
      <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VLS/ver/0.1.0/drc-
vls-ont"/>
      <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/dc/ver/0.1.0/dces-
ont"/>
      <rdfs:comment>DIS Entity Land Platform Ontology</rdfs:comment>
    </owl:Ontology>
    <!-- DIS Land Platform Ontology Class -->
    <owl:Class rdf:ID="LandPlatform">
      <rdfs:comment>Land Platform</rdfs:comment>
      <rdfs:label>Land Platform</rdfs:label>
    </owl:Class>
    <!-- Land Platform Subclasses -->
    <owl:Class rdf:ID="OtherLandPlatform">
      <rdfs:comment>Other Land Platform</rdfs:comment>
      <rdfs:label>Other Land Platform</rdfs:label>
      <rdfs:subClassOf rdf:resource="#LandPlatform"/>
    </owl:Class>
    <owl:Class rdf:ID="Tank">
      <rdfs:comment>Tank</rdfs:comment>
      <rdfs:label>Tank</rdfs:label>
      <rdfs:subClassOf rdf:resource="#LandPlatform"/>
    </owl:Class>
    <owl:Class rdf:ID="ArmoredFightingVehicle">
      <rdfs:comment>Armored fighting Vehicle</rdfs:comment>

```

```

        <rdfs:label>Armored fighting Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LandPlatform"/>
    </owl:Class>
    <owl:Class rdf:ID="ArmoredUtilityVehicle">
        <rdfs:comment>Armored Utility Vehicle</rdfs:comment>
        <rdfs:label>Armored Utility Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LandPlatform"/>
    </owl:Class>
    <owl:Class rdf:ID="SelfPropelledArtillery">
        <rdfs:comment>Self-propelled artillery</rdfs:comment>
        <rdfs:label>Self-propelled artillery</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LandPlatform"/>
    </owl:Class>
    <owl:Class rdf:ID="TowedArtillery">
        <rdfs:comment>Towed artillery</rdfs:comment>
        <rdfs:label>Towed artillery</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LandPlatform"/>
    </owl:Class>
    <owl:Class rdf:ID="SmallWheeledUtilityVehicle">
        <rdfs:comment>Small wheeled Utility Vehicle</rdfs:comment>
        <rdfs:label>Small wheeled Utility Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LandPlatform"/>
    </owl:Class>
    <owl:Class rdf:ID="LargeWheeledUtilityVehicle">
        <rdfs:comment>Large wheeled Utility Vehicle</rdfs:comment>
        <rdfs:label>Large wheeled Utility Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LandPlatform"/>
    </owl:Class>
    <owl:Class rdf:ID="SmallTrackedUtilityVehicle">
        <rdfs:comment>Small Tracked Utility Vehicle</rdfs:comment>
        <rdfs:label>Small Tracked Utility Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LandPlatform"/>
    </owl:Class>
    <owl:Class rdf:ID="LargeTrackedUtilityVehicle">
        <rdfs:comment>Large Tracked Utility Vehicle</rdfs:comment>
        <rdfs:label>Large Tracked Utility Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LandPlatform"/>
    </owl:Class>
    <owl:Class rdf:ID="Mortar">
        <rdfs:comment>Mortar</rdfs:comment>
        <rdfs:label>Mortar</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LandPlatform"/>
    </owl:Class>
    <owl:Class rdf:ID="MinePlow">
        <rdfs:comment>Mine plow</rdfs:comment>
        <rdfs:label>Mine plow</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LandPlatform"/>
    </owl:Class>
    <owl:Class rdf:ID="MineRake">
        <rdfs:comment>Mine rake</rdfs:comment>
        <rdfs:label>Mine rake</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LandPlatform"/>
    </owl:Class>
    <owl:Class rdf:ID="MineRoller">
        <rdfs:comment>Mine roller</rdfs:comment>
        <rdfs:label>Mine roller</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LandPlatform"/>
    </owl:Class>

```

```

</owl:Class>
<owl:Class rdf:ID="CargoTrailer">
  <rdfs:comment>Cargo Trailer</rdfs:comment>
  <rdfs:label>Cargo Trailer</rdfs:label>
  <rdfs:subClassOf rdf:resource="#LandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="FuelTrailer">
  <rdfs:comment>Fuel Trailer</rdfs:comment>
  <rdfs:label>Fuel Trailer</rdfs:label>
  <rdfs:subClassOf rdf:resource="#LandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="GeneratorTrailer">
  <rdfs:comment>Generator Trailer</rdfs:comment>
  <rdfs:label>Generator Trailer</rdfs:label>
  <rdfs:subClassOf rdf:resource="#LandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="WaterTrailer">
  <rdfs:comment>Water Trailer</rdfs:comment>
  <rdfs:label>Water Trailer</rdfs:label>
  <rdfs:subClassOf rdf:resource="#LandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="EngineerEquipment">
  <rdfs:comment>Engineer Equipment</rdfs:comment>
  <rdfs:label>Engineer Equipment</rdfs:label>
  <rdfs:subClassOf rdf:resource="#LandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="HeavyEquipmentTransportTrailer">
  <rdfs:comment>Heavy Equipment Transport Trailer</rdfs:comment>
  <rdfs:label>Heavy Equipment Transport Trailer</rdfs:label>
  <rdfs:subClassOf rdf:resource="#LandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="MaintenanceEquipmentTrailer">
  <rdfs:comment>Maintenance Equipment Trailer</rdfs:comment>
  <rdfs:label>Maintenance Equipment Trailer</rdfs:label>
  <rdfs:subClassOf rdf:resource="#LandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="Limber">
  <rdfs:comment>Limber</rdfs:comment>
  <rdfs:label>Limber</rdfs:label>
  <rdfs:subClassOf rdf:resource="#LandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="ChemicalDecontaminationTrailer">
  <rdfs:comment>Chemical decontamination Trailer</rdfs:comment>
  <rdfs:label>Chemical decontamination Trailer</rdfs:label>
  <rdfs:subClassOf rdf:resource="#LandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="CISOtherLandPlatform">
  <rdfs:comment>CISOtherLandPlatform</rdfs:comment>
  <rdfs:label>CISOtherLandPlatform</rdfs:label>
  <rdfs:subClassOf rdf:resource="#OtherLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="USOtherLandPlatform">
  <rdfs:comment>USOtherLandPlatform</rdfs:comment>
  <rdfs:label>USOtherLandPlatform</rdfs:label>
  <rdfs:subClassOf rdf:resource="#OtherLandPlatform"/>
</owl:Class>

```

```

<owl:Class rdf:ID="CISBridgeLandPlatform">
  <rdfs:comment>Bridge</rdfs:comment>
  <rdfs:label>Bridge</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISOtherLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="CISMissileTransporterLauncherPlatform">
  <rdfs:comment>CISMissileTransporterLauncherPlatform</rdfs:comment>
  <rdfs:label>CISMissileTransporterLauncherPlatform</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISOtherLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="PMM2AmphibiousBridgingandFerrySystem">
  <rdfs:comment>PMM-2 Amphibious Bridging and Ferry
System</rdfs:comment>
  <rdfs:label>PMM-2 Amphibious Bridging and Ferry System</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="AmphibiousBridgingSystemWheeledABSW">
  <rdfs:comment>Amphibious Bridging System (Wheeled)
(ABS(W))</rdfs:comment>
  <rdfs:label>Amphibious Bridging System (Wheeled)
(ABS(W))</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="MTU72ArmoredBridgeLayer">
  <rdfs:comment>MTU-72 Armored BridgeLayer</rdfs:comment>
  <rdfs:label>MTU-72 Armored BridgeLayer</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="MTU20ArmoredBridgeLayerwBridge">
  <rdfs:comment>MTU-20 Armored BridgeLayer w/Bridge</rdfs:comment>
  <rdfs:label>MTU-20 Armored BridgeLayer w/Bridge</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="MTUArmoredBridgeLayer">
  <rdfs:comment>MTU Armored BridgeLayer</rdfs:comment>
  <rdfs:label>MTU Armored BridgeLayer</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="TMMTruckMountedTreadway">
  <rdfs:comment>TMM Truck-Mounted Treadway</rdfs:comment>
  <rdfs:label>TMM Truck-Mounted Treadway</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="KMMTruckMountedTreadway">
  <rdfs:comment>KMM Truck-Mounted Treadway</rdfs:comment>
  <rdfs:label>KMM Truck-Mounted Treadway</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="DPP40FloatingBridgeEquipment">
  <rdfs:comment>DPP-40 Floating Bridge Equipment</rdfs:comment>
  <rdfs:label>DPP-40 Floating Bridge Equipment</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="GSPheavyAmphibiousferry">
  <rdfs:comment>GSP heavy Amphibious ferry</rdfs:comment>
  <rdfs:label>GSP heavy Amphibious ferry</rdfs:label>

```

```

        <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="PVD20AirPortable">
    <rdfs:comment>PVD-20 airportable</rdfs:comment>
    <rdfs:label>PVD-20 airportable</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="PMPHeavyFoldingPontoon">
    <rdfs:comment>PMP heavy folding pontoon</rdfs:comment>
    <rdfs:label>PMP heavy folding pontoon</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="PPSHeavyGirderFloating">
    <rdfs:comment>PPS heavy girder Floating</rdfs:comment>
    <rdfs:label>PPS heavy girder Floating</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="PVMFootSuspension">
    <rdfs:comment>PVM foot suspension</rdfs:comment>
    <rdfs:label>PVM foot suspension</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="LVMLightsuspension">
    <rdfs:comment>LVM Light suspension</rdfs:comment>
    <rdfs:label>LVM Light suspension</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="TVMheavysuspension">
    <rdfs:comment>TVM heavy suspension</rdfs:comment>
    <rdfs:label>TVM heavy suspension</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="UnderwaterBridgeset">
    <rdfs:comment>Underwater Bridge set</rdfs:comment>
    <rdfs:label>Underwater Bridge set</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="MARMSectionalArch">
    <rdfs:comment>MARM sectional arch</rdfs:comment>
    <rdfs:label>MARM sectional arch</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="RMM4PortableSteelFixed">
    <rdfs:comment>RMM-4 portable steel fixed</rdfs:comment>
    <rdfs:label>RMM-4 portable steel fixed</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="SARMSectionalDeckTruss">
    <rdfs:comment>SARM sectional deck truss</rdfs:comment>
    <rdfs:label>SARM sectional deck truss</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="REM500RailwayandRoadSection">
    <rdfs:comment>REM-500 Railway and Road-section</rdfs:comment>
    <rdfs:label>REM-500 Railway and Road-section</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>

```

```

<owl:Class rdf:ID="NZhM56heavyFloatingRailwayandRoad">
    <rdfs:comment>NZhM-56 heavy Floating Railway and Road</rdfs:comment>
    <rdfs:label>NZhM-56 heavy Floating Railway and Road</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="HeavyBarge">
    <rdfs:comment>Heavy Barge</rdfs:comment>
    <rdfs:label>Heavy Barge</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="BMKTBridgingBoat">
    <rdfs:comment>BMK-T Bridging Boat</rdfs:comment>
    <rdfs:label>BMK-T Bridging Boat</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="BMK130BridgingBoat">
    <rdfs:comment>BMK-130 Bridging Boat</rdfs:comment>
    <rdfs:label>BMK-130 Bridging Boat</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="BMK150BridgingBoat">
    <rdfs:comment>BMK-150 Bridging Boat</rdfs:comment>
    <rdfs:label>BMK-150 Bridging Boat</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="BMK70BridgingBoat">
    <rdfs:comment>BMK-70 Bridging Boat</rdfs:comment>
    <rdfs:label>BMK-70 Bridging Boat</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="BMK90BridgingBoat">
    <rdfs:comment>BMK-90 Bridging Boat</rdfs:comment>
    <rdfs:label>BMK-90 Bridging Boat</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="MTU20ArmoredBridgeLayerwoBridge">
    <rdfs:comment>MTU-20 Armored BridgeLayer w/o Bridge</rdfs:comment>
    <rdfs:label>MTU-20 Armored BridgeLayer w/o Bridge</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="MTU20Bridge">
    <rdfs:comment>MTU-20 Bridge</rdfs:comment>
    <rdfs:label>MTU-20 Bridge</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISBridgeLandPlatform"/>
</owl:Class>
<owl:Class rdf:ID="SS25TEL">
    <rdfs:comment>SS-25 TEL</rdfs:comment>
    <rdfs:label>SS-25 TEL</rdfs:label>
    <rdfs:subClassOf
rdf:resource="#CISMissileTransporterLauncherPlatform"/>
</owl:Class>
<owl:Class rdf:ID="FrenchTank">
    <rdfs:comment>FranceTank</rdfs:comment>
    <rdfs:label>FranceTank</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Tank"/>
</owl:Class>

```

```

<owl:Class rdf:ID="GermanTank">
  <rdfs:comment>GermanyTank</rdfs:comment>
  <rdfs:label>GermanyTank</rdfs:label>
  <rdfs:subClassOf rdf:resource="#Tank"/>
</owl:Class>
<owl:Class rdf:ID="ItalianTank">
  <rdfs:comment>ItalyTank</rdfs:comment>
  <rdfs:label>ItalyTank</rdfs:label>
  <rdfs:subClassOf rdf:resource="#Tank"/>
</owl:Class>
<owl:Class rdf:ID="NKoreaTank">
  <rdfs:comment>NKoreaTank</rdfs:comment>
  <rdfs:label>NKoreaTank</rdfs:label>
  <rdfs:subClassOf rdf:resource="#Tank"/>
</owl:Class>
<owl:Class rdf:ID="SKoreaTank">
  <rdfs:comment>SKoreaTank</rdfs:comment>
  <rdfs:label>SKoreaTank</rdfs:label>
  <rdfs:subClassOf rdf:resource="#Tank"/>
</owl:Class>
<owl:Class rdf:ID="CISTank">
  <rdfs:comment>CISTank</rdfs:comment>
  <rdfs:label>CISTank</rdfs:label>
  <rdfs:subClassOf rdf:resource="#Tank"/>
</owl:Class>
<owl:Class rdf:ID="UKTank">
  <rdfs:comment>UKTank</rdfs:comment>
  <rdfs:label>UKTank</rdfs:label>
  <rdfs:subClassOf rdf:resource="#Tank"/>
</owl:Class>
<owl:Class rdf:ID="USTank">
  <rdfs:comment>USTank</rdfs:comment>
  <rdfs:label>USTank</rdfs:label>
  <rdfs:subClassOf rdf:resource="#Tank"/>
</owl:Class>
<owl:Class rdf:ID="AMX30">
  <rdfs:comment>AMX-30</rdfs:comment>
  <rdfs:label>AMX-30</rdfs:label>
  <rdfs:subClassOf rdf:resource="#FrenchTank"/>
</owl:Class>
<owl:Class rdf:ID="AMX30B2">
  <rdfs:comment>AMX-30B2</rdfs:comment>
  <rdfs:label>AMX-30B2</rdfs:label>
  <rdfs:subClassOf rdf:resource="#AMX30"/>
</owl:Class>
<owl:Class rdf:ID="AMX13LightTank">
  <rdfs:comment>AMX-13 Light Tank</rdfs:comment>
  <rdfs:label>AMX-13 Light Tank</rdfs:label>
  <rdfs:subClassOf rdf:resource="#FrenchTank"/>
</owl:Class>
<owl:Class rdf:ID="AMX40MBT">
  <rdfs:comment>AMX-40 MBT</rdfs:comment>
  <rdfs:label>AMX-40 MBT</rdfs:label>
  <rdfs:subClassOf rdf:resource="#FrenchTank"/>
</owl:Class>
<owl:Class rdf:ID="Leopard1MBT">
  <rdfs:comment>Leopard 1 MBT</rdfs:comment>

```

```

        <rdfs:label>Leopard 1 MBT</rdfs:label>
        <rdfs:subClassOf rdf:resource="#GermanTank"/>
</owl:Class>
<owl:Class rdf:ID="A1">
    <rdfs:comment>A1</rdfs:comment>
    <rdfs:label>A1</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Leopard1MBT"/>
</owl:Class>
<owl:Class rdf:ID="A2">
    <rdfs:comment>A2</rdfs:comment>
    <rdfs:label>A2</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Leopard1MBT"/>
</owl:Class>
<owl:Class rdf:ID="A3">
    <rdfs:comment>A3</rdfs:comment>
    <rdfs:label>A3</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Leopard1MBT"/>
</owl:Class>
<owl:Class rdf:ID="A4">
    <rdfs:comment>A4</rdfs:comment>
    <rdfs:label>A4</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Leopard1MBT"/>
</owl:Class>
<owl:Class rdf:ID="A5">
    <rdfs:comment>A5</rdfs:comment>
    <rdfs:label>A5</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Leopard1MBT"/>
</owl:Class>
<owl:Class rdf:ID="Leopard2MBT">
    <rdfs:comment>Leopard 2 MBT</rdfs:comment>
    <rdfs:label>Leopard 2 MBT</rdfs:label>
    <rdfs:subClassOf rdf:resource="#GermanTank"/>
</owl:Class>
<owl:Class rdf:ID="Leopard2MBT-improved">
    <rdfs:comment>Leopard 2 (improved) MBT</rdfs:comment>
    <rdfs:label>Leopard 2 (improved) MBT</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Leopard2MBT"/>
</owl:Class>
<owl:Class rdf:ID="SStridsfordon122">
    <rdfs:comment>(S) Stridsfordon 122</rdfs:comment>
    <rdfs:label>(S) Stridsfordon 122</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Leopard2MBT"/>
</owl:Class>
<owl:Class rdf:ID="LightTankRecon">
    <rdfs:comment>Tank/Recon</rdfs:comment>
    <rdfs:label>Tank/Recon</rdfs:label>
    <rdfs:subClassOf rdf:resource="#ItalianTank"/>
</owl:Class>
<owl:Class rdf:ID="CentauroB1">
    <rdfs:comment>Centauro B-1</rdfs:comment>
    <rdfs:label>Centauro B-1</rdfs:label>
    <rdfs:subClassOf rdf:resource="#LightTankRecon"/>
</owl:Class>
<owl:Class rdf:ID="M1985Lighttank">
    <rdfs:comment>Light tank</rdfs:comment>
    <rdfs:label>Light tank</rdfs:label>

```



```

        <rdfs:subClassOf rdf:resource="#NKoreaTank"/>
</owl:Class>
<owl:Class rdf:ID="Type88">
    <rdfs:comment>Type 88</rdfs:comment>
    <rdfs:label>Type 88</rdfs:label>
    <rdfs:subClassOf rdf:resource="#SKoreaTank"/>
</owl:Class>
<owl:Class rdf:ID="T80MBT">
    <rdfs:comment>T-80 MBT</rdfs:comment>
    <rdfs:label>T-80 MBT</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISTank"/>
</owl:Class>
<owl:Class rdf:ID="T80">
    <rdfs:comment>T-80</rdfs:comment>
    <rdfs:label>T-80</rdfs:label>
    <rdfs:subClassOf rdf:resource="#T80MBT"/>
</owl:Class>
<owl:Class rdf:ID="T80B">
    <rdfs:comment>T-80B</rdfs:comment>
    <rdfs:label>T-80B</rdfs:label>
    <rdfs:subClassOf rdf:resource="#T80MBT"/>
</owl:Class>
<owl:Class rdf:ID="T80BK">
    <rdfs:comment>T-80BK</rdfs:comment>
    <rdfs:label>T-80BK</rdfs:label>
    <rdfs:subClassOf rdf:resource="#T80MBT"/>
</owl:Class>
<owl:Class rdf:ID="T80BV">
    <rdfs:comment>T-80BV</rdfs:comment>
    <rdfs:label>T-80BV</rdfs:label>
    <rdfs:subClassOf rdf:resource="#T80MBT"/>
</owl:Class>
<owl:Class rdf:ID="T80BVK">
    <rdfs:comment>T-80BVK</rdfs:comment>
    <rdfs:label>T-80BVK</rdfs:label>
    <rdfs:subClassOf rdf:resource="#T80MBT"/>
</owl:Class>
<owl:Class rdf:ID="T80U">
    <rdfs:comment>T-80U</rdfs:comment>
    <rdfs:label>T-80U</rdfs:label>
    <rdfs:subClassOf rdf:resource="#T80MBT"/>
</owl:Class>
<owl:Class rdf:ID="T80Uv">
    <rdfs:comment>T-80Uv</rdfs:comment>
    <rdfs:label>T-80Uv</rdfs:label>
    <rdfs:subClassOf rdf:resource="#T80MBT"/>
</owl:Class>
<owl:Class rdf:ID="T80wmineplowroller">
    <rdfs:comment>T-80 w/mine plow roller</rdfs:comment>
    <rdfs:label>T-80 w/mine plow roller</rdfs:label>
    <rdfs:subClassOf rdf:resource="#T80MBT"/>
</owl:Class>
<owl:Class rdf:ID="T80Uvwmineplowroller">
    <rdfs:comment>T-80Uv w/mine plow roller</rdfs:comment>
    <rdfs:label>T-80Uv w/mine plow roller</rdfs:label>
    <rdfs:subClassOf rdf:resource="#T80MBT"/>
</owl:Class>

```

```

<owl:Class rdf:ID="T72MBT">
  <rdfs:comment>T-72 MBT</rdfs:comment>
  <rdfs:label>T-72 MBT</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISTank"/>
</owl:Class>
<owl:Class rdf:ID="T72">
  <rdfs:comment>T-72</rdfs:comment>
  <rdfs:label>T-72</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T72MBT"/>
</owl:Class>
<owl:Class rdf:ID="T72M">
  <rdfs:comment>T-72M</rdfs:comment>
  <rdfs:label>T-72M</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T72MBT"/>
</owl:Class>
<owl:Class rdf:ID="T72K">
  <rdfs:comment>T-72K</rdfs:comment>
  <rdfs:label>T-72K</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T72MBT"/>
</owl:Class>
<owl:Class rdf:ID="T72A">
  <rdfs:comment>T-72A</rdfs:comment>
  <rdfs:label>T-72A</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T72MBT"/>
</owl:Class>
<owl:Class rdf:ID="T72AK">
  <rdfs:comment>T-72AK</rdfs:comment>
  <rdfs:label>T-72AK</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T72MBT"/>
</owl:Class>
<owl:Class rdf:ID="T72B">
  <rdfs:comment>T-72B</rdfs:comment>
  <rdfs:label>T-72B</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T72MBT"/>
</owl:Class>
<owl:Class rdf:ID="T72BK">
  <rdfs:comment>T-72BK</rdfs:comment>
  <rdfs:label>T-72BK</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T72MBT"/>
</owl:Class>
<owl:Class rdf:ID="T72B1">
  <rdfs:comment>T-72B1</rdfs:comment>
  <rdfs:label>T-72B1</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T72MBT"/>
</owl:Class>
<owl:Class rdf:ID="T72B1K">
  <rdfs:comment>T-72B1K</rdfs:comment>
  <rdfs:label>T-72B1K</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T72MBT"/>
</owl:Class>
<owl:Class rdf:ID="T72Bv">
  <rdfs:comment>T-72 Bv</rdfs:comment>
  <rdfs:label>T-72 Bv</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T72MBT"/>
</owl:Class>
<owl:Class rdf:ID="T72Bvwmineplowroller">
  <rdfs:comment>T-72 Bv w/mine plow roller</rdfs:comment>

```

```

        <rdfs:label>T-72 Bv w/mine plow roller</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T72MBT"/>
    </owl:Class>
    <owl:Class rdf:ID="T72wmineplowroller">
        <rdfs:comment>T-72 w/mine plow roller</rdfs:comment>
        <rdfs:label>T-72 w/mine plow roller</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T72MBT"/>
    </owl:Class>
    <owl:Class rdf:ID="T64MBT">
        <rdfs:comment>T-64 MBT</rdfs:comment>
        <rdfs:label>T-64 MBT</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISTank"/>
    </owl:Class>
    <owl:Class rdf:ID="T64A">
        <rdfs:comment>T-64A</rdfs:comment>
        <rdfs:label>T-64A</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T64MBT"/>
    </owl:Class>
    <owl:Class rdf:ID="T64AK">
        <rdfs:comment>T-64AK</rdfs:comment>
        <rdfs:label>T-64AK</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T64MBT"/>
    </owl:Class>
    <owl:Class rdf:ID="T64B">
        <rdfs:comment>T-64B</rdfs:comment>
        <rdfs:label>T-64B</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T64MBT"/>
    </owl:Class>
    <owl:Class rdf:ID="T64BV">
        <rdfs:comment>T-64BV</rdfs:comment>
        <rdfs:label>T-64BV</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T64MBT"/>
    </owl:Class>
    <owl:Class rdf:ID="T64B1">
        <rdfs:comment>T-64B1</rdfs:comment>
        <rdfs:label>T-64B1</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T64MBT"/>
    </owl:Class>
    <owl:Class rdf:ID="T64B1K">
        <rdfs:comment>T-64B1K</rdfs:comment>
        <rdfs:label>T-64B1K</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T64MBT"/>
    </owl:Class>
    <owl:Class rdf:ID="T64BV1K">
        <rdfs:comment>T-64BV1K</rdfs:comment>
        <rdfs:label>T-64BV1K</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T64MBT"/>
    </owl:Class>
    <owl:Class rdf:ID="T64R">
        <rdfs:comment>T-64R</rdfs:comment>
        <rdfs:label>T-64R</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T64MBT"/>
    </owl:Class>
    <owl:Class rdf:ID="T64Bvwmineplowroller">
        <rdfs:comment>T-64 Bv w/mine plow roller</rdfs:comment>
        <rdfs:label>T-64 Bv w/mine plow roller</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T64MBT"/>

```

```

</owl:Class>
<owl:Class rdf:ID="T62MBT">
  <rdfs:comment>T-62 MBT</rdfs:comment>
  <rdfs:label>T-62 MBT</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISTank"/>
</owl:Class>
<owl:Class rdf:ID="T62">
  <rdfs:comment>T-62</rdfs:comment>
  <rdfs:label>T-62</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T62MBT"/>
</owl:Class>
<owl:Class rdf:ID="T62K">
  <rdfs:comment>T-62K</rdfs:comment>
  <rdfs:label>T-62K</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T62MBT"/>
</owl:Class>
<owl:Class rdf:ID="T62M">
  <rdfs:comment>T-62M</rdfs:comment>
  <rdfs:label>T-62M</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T62MBT"/>
</owl:Class>
<owl:Class rdf:ID="T62MK">
  <rdfs:comment>T-62MK</rdfs:comment>
  <rdfs:label>T-62MK</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T62MBT"/>
</owl:Class>
<owl:Class rdf:ID="T62MV">
  <rdfs:comment>T-62MV</rdfs:comment>
  <rdfs:label>T-62MV</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T62MBT"/>
</owl:Class>
<owl:Class rdf:ID="T62M1">
  <rdfs:comment>T-62M1</rdfs:comment>
  <rdfs:label>T-62M1</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T62MBT"/>
</owl:Class>
<owl:Class rdf:ID="T62Bvwmineplowroller">
  <rdfs:comment>T-62 Bv w/mine plow roller</rdfs:comment>
  <rdfs:label>T-62 Bv w/mine plow roller</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T62MBT"/>
</owl:Class>
<owl:Class rdf:ID="T54MBT">
  <rdfs:comment>T-54 MBT</rdfs:comment>
  <rdfs:label>T-54 MBT</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISTank"/>
</owl:Class>
<owl:Class rdf:ID="T54">
  <rdfs:comment>T-54</rdfs:comment>
  <rdfs:label>T-54</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T54MBT"/>
</owl:Class>
<owl:Class rdf:ID="T54K">
  <rdfs:comment>T-54K</rdfs:comment>
  <rdfs:label>T-54K</rdfs:label>
  <rdfs:subClassOf rdf:resource="#T54MBT"/>
</owl:Class>
<owl:Class rdf:ID="T54B">

```

```

        <rdfs:comment>T-54B</rdfs:comment>
        <rdfs:label>T-54B</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T54MBT"/>
</owl:Class>
<owl:Class rdf:ID="T54BK">
        <rdfs:comment>T-54BK</rdfs:comment>
        <rdfs:label>T-54BK</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T54MBT"/>
</owl:Class>
<owl:Class rdf:ID="T54M">
        <rdfs:comment>T-54M</rdfs:comment>
        <rdfs:label>T-54M</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T54MBT"/>
</owl:Class>
<owl:Class rdf:ID="T54MK">
        <rdfs:comment>T-54MK</rdfs:comment>
        <rdfs:label>T-54MK</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T54MBT"/>
</owl:Class>
<owl:Class rdf:ID="T55MBT">
        <rdfs:comment>T-55 MBT</rdfs:comment>
        <rdfs:label>T-55 MBT</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISTank"/>
</owl:Class>
<owl:Class rdf:ID="T55">
        <rdfs:comment>T-55</rdfs:comment>
        <rdfs:label>T-55</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T55MBT"/>
</owl:Class>
<owl:Class rdf:ID="T55K">
        <rdfs:comment>T-55K</rdfs:comment>
        <rdfs:label>T-55K</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T55MBT"/>
</owl:Class>
<owl:Class rdf:ID="T55A">
        <rdfs:comment>T-55A</rdfs:comment>
        <rdfs:label>T-55A</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T55MBT"/>
</owl:Class>
<owl:Class rdf:ID="T55AD">
        <rdfs:comment>T-55AD</rdfs:comment>
        <rdfs:label>T-55AD</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T55MBT"/>
</owl:Class>
<owl:Class rdf:ID="T55AK">
        <rdfs:comment>T-55AK</rdfs:comment>
        <rdfs:label>T-55AK</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T55MBT"/>
</owl:Class>
<owl:Class rdf:ID="T55AM">
        <rdfs:comment>T-55AM</rdfs:comment>
        <rdfs:label>T-55AM</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T55MBT"/>
</owl:Class>
<owl:Class rdf:ID="T55AMD">
        <rdfs:comment>T-55AMD</rdfs:comment>

```

```

        <rdfs:label>T-55AMD</rdfs:label>
        <rdfs:subClassOf rdf:resource="#T55MBT"/>
</owl:Class>
<owl:Class rdf:ID="T55AMK">
    <rdfs:comment>T-55AMK</rdfs:comment>
    <rdfs:label>T-55AMK</rdfs:label>
    <rdfs:subClassOf rdf:resource="#T55MBT"/>
</owl:Class>
<owl:Class rdf:ID="T55AMV">
    <rdfs:comment>T-55AMV</rdfs:comment>
    <rdfs:label>T-55AMV</rdfs:label>
    <rdfs:subClassOf rdf:resource="#T55MBT"/>
</owl:Class>
<owl:Class rdf:ID="T55M">
    <rdfs:comment>T-55M</rdfs:comment>
    <rdfs:label>T-55M</rdfs:label>
    <rdfs:subClassOf rdf:resource="#T55MBT"/>
</owl:Class>
<owl:Class rdf:ID="T55MK">
    <rdfs:comment>T-55MK</rdfs:comment>
    <rdfs:label>T-55MK</rdfs:label>
    <rdfs:subClassOf rdf:resource="#T55MBT"/>
</owl:Class>
<owl:Class rdf:ID="T55MVK">
    <rdfs:comment>T-55MVK</rdfs:comment>
    <rdfs:label>T-55MVK</rdfs:label>
    <rdfs:subClassOf rdf:resource="#T55MBT"/>
</owl:Class>
<owl:Class rdf:ID="PT76">
    <rdfs:comment>PT-76 Amphibious light tank</rdfs:comment>
    <rdfs:label>PT-76 Amphibious light tank</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISTank"/>
</owl:Class>
<owl:Class rdf:ID="PT76A">
    <rdfs:comment>PT-76A</rdfs:comment>
    <rdfs:label>PT-76A</rdfs:label>
    <rdfs:subClassOf rdf:resource="#PT76"/>
</owl:Class>
<owl:Class rdf:ID="PT76B">
    <rdfs:comment>PT-76B</rdfs:comment>
    <rdfs:label>PT-76B</rdfs:label>
    <rdfs:subClassOf rdf:resource="#PT76"/>
</owl:Class>
<owl:Class rdf:ID="T90MBT">
    <rdfs:comment>T-90 MBT</rdfs:comment>
    <rdfs:label>T-90 MBT</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISTank"/>
</owl:Class>
<owl:Class rdf:ID="ChieftainMBT">
    <rdfs:comment>Chieftain MBT</rdfs:comment>
    <rdfs:label>Chieftain MBT</rdfs:label>
    <rdfs:subClassOf rdf:resource="#UKTank"/>
</owl:Class>
<owl:Class rdf:ID="ChallengerMBT">
    <rdfs:comment>Challenger MBT</rdfs:comment>
    <rdfs:label>Challenger MBT</rdfs:label>
    <rdfs:subClassOf rdf:resource="#UKTank"/>

```

```

</owl:Class>
<owl:Class rdf:ID="MarkI">
  <rdfs:comment>Mark I</rdfs:comment>
  <rdfs:label>Mark I</rdfs:label>
  <rdfs:subClassOf rdf:resource="#ChallengerMBT"/>
</owl:Class>
<owl:Class rdf:ID="MarkII">
  <rdfs:comment>Mark II</rdfs:comment>
  <rdfs:label>Mark II</rdfs:label>
  <rdfs:subClassOf rdf:resource="#ChallengerMBT"/>
</owl:Class>
<owl:Class rdf:ID="M1Abrams">
  <rdfs:comment>Abrams</rdfs:comment>
  <rdfs:label>Abrams</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USTank"/>
</owl:Class>
<owl:Class rdf:ID="M1A1Abrams">
  <rdfs:comment>M1A1 Abrams</rdfs:comment>
  <rdfs:label>M1A1 Abrams</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M1Abrams"/>
</owl:Class>
<owl:Class rdf:ID="M1A2">
  <rdfs:comment>M1A2</rdfs:comment>
  <rdfs:label>M1A2</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M1Abrams"/>
</owl:Class>
<owl:Class rdf:ID="M1A1wminerollers">
  <rdfs:comment>M1A1 w/ mine rollers</rdfs:comment>
  <rdfs:label>M1A1 w/ mine rollers</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M1Abrams"/>
</owl:Class>
<owl:Class rdf:ID="M1A1wmineplows">
  <rdfs:comment>M1A1 w/ mine plows</rdfs:comment>
  <rdfs:label>M1A1 w/ mine plows</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M1Abrams"/>
</owl:Class>
<owl:Class rdf:ID="M1A1wDUarmor">
  <rdfs:comment>M1A1 w/ DU armor</rdfs:comment>
  <rdfs:label>M1A1 w/ DU armor</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M1Abrams"/>
</owl:Class>
<owl:Class rdf:ID="M1A2wCombatVehicleCommandandControlCVCC">
  <rdfs:comment>M1A2 w/ Combat Vehicle Command and Control
(CVCC)</rdfs:comment>
  <rdfs:label>M1A2 w/ Combat Vehicle Command and Control
(CVCC)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M1Abrams"/>
</owl:Class>
<owl:Class rdf:ID="M60MBT">
  <rdfs:comment>M60 Main Battle Tank (MBT)</rdfs:comment>
  <rdfs:label>M60 Main Battle Tank (MBT)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USTank"/>
</owl:Class>
<owl:Class rdf:ID="M60A3">
  <rdfs:comment>M60A3</rdfs:comment>
  <rdfs:label>M60A3</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M60MBT"/>

```

```

</owl:Class>
<owl:Class rdf:ID="M60A1">
  <rdfs:comment>M60A1</rdfs:comment>
  <rdfs:label>M60A1</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M60MBT"/>
</owl:Class>
<owl:Class rdf:ID="M60A1withERA">
  <rdfs:comment>M60A1 with ERA</rdfs:comment>
  <rdfs:label>M60A1 with ERA</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M60MBT"/>
</owl:Class>
<owl:Class rdf:ID="M551">
  <rdfs:comment>M551 Sheridan light tank/reconnaissance
Vehicle</rdfs:comment>
  <rdfs:label>M551 Sheridan light tank/reconnaissance
Vehicle</rdfs:label>

  <rdfs:subClassOf rdf:resource="#USTank"/>
</owl:Class>
<owl:Class rdf:ID="M551A1">
  <rdfs:comment>M551A1</rdfs:comment>
  <rdfs:label>M551A1</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M551"/>
</owl:Class>
<owl:Class rdf:ID="M48MediumTank">
  <rdfs:comment>M48 medium tank</rdfs:comment>
  <rdfs:label>M48 medium tank</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USTank"/>
</owl:Class>
<owl:Class rdf:ID="M48C">
  <rdfs:comment>M48C</rdfs:comment>
  <rdfs:label>M48C</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M48MediumTank"/>
</owl:Class>
<owl:Class rdf:ID="M48A1">
  <rdfs:comment>M48A1</rdfs:comment>
  <rdfs:label>M48A1</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M48MediumTank"/>
</owl:Class>
<owl:Class rdf:ID="M48A2">
  <rdfs:comment>M48A2</rdfs:comment>
  <rdfs:label>M48A2</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M48MediumTank"/>
</owl:Class>
<owl:Class rdf:ID="M48A2C">
  <rdfs:comment>M48A2C</rdfs:comment>
  <rdfs:label>M48A2C</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M48MediumTank"/>
</owl:Class>
<owl:Class rdf:ID="M48A3">
  <rdfs:comment>M48A3</rdfs:comment>
  <rdfs:label>M48A3</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M48MediumTank"/>
</owl:Class>
<owl:Class rdf:ID="M48A4">

  <rdfs:comment>M48A4</rdfs:comment>

```



```

        <rdfs:label>M48A4</rdfs:label>
        <rdfs:subClassOf rdf:resource="#M48MediumTank"/>
</owl:Class>
<owl:Class rdf:ID="M48A5">
    <rdfs:comment>M48A5</rdfs:comment>
    <rdfs:label>M48A5</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M48MediumTank"/>
</owl:Class>
<owl:Class rdf:ID="M48H">
    <rdfs:comment>M48H</rdfs:comment>
    <rdfs:label>M48H</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M48MediumTank"/>
</owl:Class>
<owl:Class rdf:ID="M48AVLB">
    <rdfs:comment>M48 AVLB</rdfs:comment>
    <rdfs:label>M48 AVLB</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M48MediumTank"/>
</owl:Class>
<owl:Class rdf:ID="M48ARV">
    <rdfs:comment>M48 ARV</rdfs:comment>
    <rdfs:label>M48 ARV</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M48MediumTank"/>
</owl:Class>
<owl:Class rdf:ID="M48mineclearingVehicle">
    <rdfs:comment>M48 mine clearing Vehicle</rdfs:comment>
    <rdfs:label>M48 mine clearing Vehicle</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M48MediumTank"/>
</owl:Class>
<owl:Class rdf:ID="M48A2GA2">
    <rdfs:comment>M48A2GA2</rdfs:comment>
    <rdfs:label>M48A2GA2</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M48MediumTank"/>
</owl:Class>
<owl:Class rdf:ID="M48A5E">
    <rdfs:comment>M48A5E</rdfs:comment>
    <rdfs:label>M48A5E</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M48MediumTank"/>
</owl:Class>
<owl:Class rdf:ID="M47MediumTank">
    <rdfs:comment>M47 medium tank</rdfs:comment>
    <rdfs:label>M47 medium tank</rdfs:label>
    <rdfs:subClassOf rdf:resource="#USTank"/>
</owl:Class>
<owl:Class rdf:ID="M47">
    <rdfs:comment>M47</rdfs:comment>
    <rdfs:label>M47</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M47MediumTank"/>
</owl:Class>
<owl:Class rdf:ID="M47M">
    <rdfs:comment>M47M</rdfs:comment>
    <rdfs:label>M47M</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M47MediumTank"/>
</owl:Class>
<owl:Class rdf:ID="GLSM47ARV">
    <rdfs:comment>GLS M47 ARV</rdfs:comment>
    <rdfs:label>GLS M47 ARV</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M47MediumTank"/>

```

```

</owl:Class>
<owl:Class rdf:ID="M41LightTank">
  <rdfs:comment>M41 light tank</rdfs:comment>
  <rdfs:label>M41 light tank</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USTank"/>
</owl:Class>
<owl:Class rdf:ID="M41C">
  <rdfs:comment>M41C</rdfs:comment>
  <rdfs:label>M41C</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M41LightTank"/>
</owl:Class>
<owl:Class rdf:ID="M41EW8V71TEngine">
  <rdfs:comment>M41E W/8V-71T Engine</rdfs:comment>
  <rdfs:label>M41E W/8V-71T Engine</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M41LightTank"/>
</owl:Class>
<owl:Class rdf:ID="QM41">
  <rdfs:comment>QM41</rdfs:comment>
  <rdfs:label>QM41</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M41LightTank"/>
</owl:Class>

<owl:Class rdf:ID="M41B">
  <rdfs:comment>M41B</rdfs:comment>
  <rdfs:label>M41B</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M41LightTank"/>
</owl:Class>
<owl:Class rdf:ID="M41GermanTankImprovementGTI">
  <rdfs:comment>M41 German Tank Improvement (GTI)</rdfs:comment>
  <rdfs:label>M41 German Tank Improvement (GTI)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M41LightTank"/>
</owl:Class>
<owl:Class rdf:ID="CadillacGageCommandoStingrayLighttank">
  <rdfs:comment>Cadillac Gage Commando Stingray Light
tank</rdfs:comment>
  <rdfs:label>Cadillac Gage Commando Stingray Light tank</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USTank"/>
</owl:Class>
<owl:Class rdf:ID="FMCCloseCombatVehicleLightVFM5tank">
  <rdfs:comment>FMC Close Combat Vehicle Light VFM 5
tank</rdfs:comment>
  <rdfs:label>FMC Close Combat Vehicle Light VFM 5 tank</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USTank"/>
</owl:Class>
<owl:Class rdf:ID="RDFLT">
  <rdfs:comment>AAI Rapid Deployment Force Light Tank (RDF/LT)
Combined Arms Team/Lightweight Combat Vehicle (CAT/LCV)</rdfs:comment>
  <rdfs:label>AAI Rapid Deployment Force Light Tank (RDF/LT) Combined
Arms Team/Lightweight Combat Vehicle (CAT/LCV)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USTank"/>
</owl:Class>
<owl:Class rdf:ID="Prototype">
  <rdfs:comment>Prototype</rdfs:comment>
  <rdfs:label>Prototype</rdfs:label>
  <rdfs:subClassOf rdf:resource="#RDFLT"/>
</owl:Class>
<owl:Class rdf:ID="TeledyneContinentalArmoredGunSystem">

```

```

        <rdfs:comment>Teledyne Continental Armored Gun System</rdfs:comment>
        <rdfs:label>Teledyne Continental Armored Gun System</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USTank"/>
    </owl:Class>
    <owl:Class rdf:ID="FrenchAFV">
        <rdfs:comment>Armored Fighting Vehicle</rdfs:comment>
        <rdfs:label>Armored Fighting Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#ArmoredFightingVehicle"/>
    </owl:Class>
    <owl:Class rdf:ID="GermanAFV">
        <rdfs:comment>Germany Armored Fighting Vehicle</rdfs:comment>
        <rdfs:label>Germany Armored Fighting Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#ArmoredFightingVehicle"/>
    </owl:Class>
    <owl:Class rdf:ID="ItalianAFV">
        <rdfs:comment>Italy Armored Fighting Vehicle</rdfs:comment>
        <rdfs:label>Italy Armored Fighting Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#ArmoredFightingVehicle"/>
    </owl:Class>
    <owl:Class rdf:ID="SwedishAFV">
        <rdfs:comment>Sweden Armored Fighting Vehicle</rdfs:comment>
        <rdfs:label>Sweden Armored Fighting Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#ArmoredFightingVehicle"/>
    </owl:Class>
    <owl:Class rdf:ID="CISAFV">
        <rdfs:comment>Commonwealth of Independent States Armored Fighting
Vehicle</rdfs:comment>
        <rdfs:label>Commonwealth of Independent States Armored Fighting
Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#ArmoredFightingVehicle"/>
    </owl:Class>
    <owl:Class rdf:ID="UKAFV">
        <rdfs:comment>United Kingdom Armored Fighting Vehicle</rdfs:comment>
        <rdfs:label>United Kingdom Armored Fighting Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#ArmoredFightingVehicle"/>
    </owl:Class>
    <owl:Class rdf:ID="USAFV">
        <rdfs:comment>United States Armored Fighting Vehicle</rdfs:comment>
        <rdfs:label>United States Armored Fighting Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#ArmoredFightingVehicle"/>
    </owl:Class>
    <owl:Class rdf:ID="VBC90Armoredcar">
        <rdfs:comment>VBC-90 Armored car</rdfs:comment>
        <rdfs:label>VBC-90 Armored car</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FrenchAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="ERC90Armoredcar">
        <rdfs:comment>ERC-90 Armored car</rdfs:comment>
        <rdfs:label>ERC-90 Armored car</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FrenchAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="AML90Armoredcar">
        <rdfs:comment>AML-90 Armored car</rdfs:comment>
        <rdfs:label>AML-90 Armored car</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FrenchAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="AML60Armoredcar">

```

```

        <rdfs:comment>AML-60 Armored car</rdfs:comment>
        <rdfs:label>AML-60 Armored car</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FrenchAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="VABAPC">
        <rdfs:comment>VAB APC</rdfs:comment>
        <rdfs:label>VAB APC</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FrenchAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="AMX10RCArmoredcar">
        <rdfs:comment>AMX-10RC Armored car</rdfs:comment>
        <rdfs:label>AMX-10RC Armored car</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FrenchAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="AMX13IFV">
        <rdfs:comment>AMX-13 IFV</rdfs:comment>
        <rdfs:label>AMX-13 IFV</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FrenchAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="AMX10IFV">
        <rdfs:comment>AMX-10 IFV</rdfs:comment>
        <rdfs:label>AMX-10 IFV</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FrenchAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="EBRArmoredcar">
        <rdfs:comment>EBR Armored car</rdfs:comment>
        <rdfs:label>EBR Armored car</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FrenchAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="AMX13VCIAPC">
        <rdfs:comment>AMX-13 VCI APC</rdfs:comment>
        <rdfs:label>AMX-13 VCI APC</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FrenchAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="AMX13DCA">
        <rdfs:comment>AMX-13 DCA</rdfs:comment>
        <rdfs:label>AMX-13 DCA</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FrenchAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="BerlietVXBArmoredcar">
        <rdfs:comment>Berliet VXB Armored car</rdfs:comment>
        <rdfs:label>Berliet VXB Armored car</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FrenchAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="PanhardEBR">
        <rdfs:comment>Panhard EBR</rdfs:comment>
        <rdfs:label>Panhard EBR</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FrenchAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="Marder1A3">
        <rdfs:comment>1 A3</rdfs:comment>
        <rdfs:label>1 A3</rdfs:label>
        <rdfs:subClassOf rdf:resource="#GermanAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="Marder2">
        <rdfs:comment>Marder 2</rdfs:comment>
        <rdfs:label>Marder 2</rdfs:label>

```

```

        <rdfs:subClassOf rdf:resource="#GermanAFV"/>
</owl:Class>
<owl:Class rdf:ID="BMP1">
    <rdfs:comment>BMP 1</rdfs:comment>
    <rdfs:label>BMP 1</rdfs:label>
    <rdfs:subClassOf rdf:resource="#GermanAFV"/>
</owl:Class>
<owl:Class rdf:ID="Jaguar1tankdestroyer">
    <rdfs:comment>Jaguar 1 tank destroyer, missile</rdfs:comment>
    <rdfs:label>Jaguar 1 tank destroyer, missile</rdfs:label>
    <rdfs:subClassOf rdf:resource="#GermanAFV"/>
</owl:Class>
<owl:Class rdf:ID="Jaguar2">
    <rdfs:comment>Jaguar 2</rdfs:comment>
    <rdfs:label>Jaguar 2</rdfs:label>
    <rdfs:subClassOf rdf:resource="#GermanAFV"/>
</owl:Class>
<owl:Class rdf:ID="LuchsArmoredreconnaissanceVehicle">
    <rdfs:comment>Luchs Armored reconnaissance Vehicle</rdfs:comment>
    <rdfs:label>Luchs Armored reconnaissance Vehicle</rdfs:label>
    <rdfs:subClassOf rdf:resource="#GermanAFV"/>
</owl:Class>
<owl:Class rdf:ID="ZobelArmoredreconnaissanceVehicle">
    <rdfs:comment>Zobel Armored reconnaissance Vehicle</rdfs:comment>
    <rdfs:label>Zobel Armored reconnaissance Vehicle</rdfs:label>
    <rdfs:subClassOf rdf:resource="#GermanAFV"/>
</owl:Class>
<owl:Class rdf:ID="RolandADsystem">
    <rdfs:comment>Roland AD system, missile</rdfs:comment>
    <rdfs:label>Roland AD system, missile</rdfs:label>
    <rdfs:subClassOf rdf:resource="#GermanAFV"/>
</owl:Class>
<owl:Class rdf:ID="GepardArmoredADGun">
    <rdfs:comment>Gepard Armored AD, Gun</rdfs:comment>
    <rdfs:label>Gepard Armored AD, Gun</rdfs:label>
    <rdfs:subClassOf rdf:resource="#GermanAFV"/>
</owl:Class>
<owl:Class rdf:ID="Wiesel">
    <rdfs:comment>Wiesel</rdfs:comment>
    <rdfs:label>Wiesel</rdfs:label>
    <rdfs:subClassOf rdf:resource="#GermanAFV"/>
</owl:Class>
<owl:Class rdf:ID="Wieselwith20mm">
    <rdfs:comment>Wiesel with 20mm</rdfs:comment>
    <rdfs:label>Wiesel with 20mm</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Wiesel"/>
</owl:Class>
<owl:Class rdf:ID="WieselwithTOW">
    <rdfs:comment>Wiesel with TOW</rdfs:comment>
    <rdfs:label>Wiesel with TOW</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Wiesel"/>
</owl:Class>
<owl:Class rdf:ID="ItalianAPC">
    <rdfs:comment>Personnel Carrier (APC)</rdfs:comment>
    <rdfs:label>Personnel Carrier (APC)</rdfs:label>
    <rdfs:subClassOf rdf:resource="#ItalianAFV"/>
</owl:Class>

```

```

<owl:Class rdf:ID="VCC12">
  <rdfs:comment>VCC 1/2</rdfs:comment>
  <rdfs:label>VCC 1/2</rdfs:label>
  <rdfs:subClassOf rdf:resource="#ItalianAPC"/>
</owl:Class>
<owl:Class rdf:ID="Fiat6614">
  <rdfs:comment>Fiat 6614</rdfs:comment>
  <rdfs:label>Fiat 6614</rdfs:label>
  <rdfs:subClassOf rdf:resource="#ItalianAPC"/>
</owl:Class>
<owl:Class rdf:ID="Stridsfordon90">
  <rdfs:comment>Stridsfordon D22290</rdfs:comment>
  <rdfs:label>Stridsfordon 90</rdfs:label>
  <rdfs:subClassOf rdf:resource="#SwedishAFV"/>
</owl:Class>
<owl:Class rdf:ID="Pansarbandvagn302">
  <rdfs:comment>Pansarbandvagn 302</rdfs:comment>
  <rdfs:label>Pansarbandvagn 302</rdfs:label>
  <rdfs:subClassOf rdf:resource="#SwedishAFV"/>
</owl:Class>
<owl:Class rdf:about="#BMP1">
  <rdfs:comment>BMP-1</rdfs:comment>
  <rdfs:label>BMP-1</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISAFV"/>
</owl:Class>
<owl:Class rdf:ID="BMP1basicmodel1970">
  <rdfs:comment>BMP-1, basic model 1970</rdfs:comment>
  <rdfs:label>BMP-1, basic model 1970</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BMP1"/>
</owl:Class>
<owl:Class rdf:ID="BMP1KCommand">
  <rdfs:comment>BMP-1K Command</rdfs:comment>
  <rdfs:label>BMP-1K Command</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BMP1"/>
</owl:Class>
<owl:Class rdf:ID="BMP1K3Command">
  <rdfs:comment>BMP-1K3 Command</rdfs:comment>
  <rdfs:label>BMP-1K3 Command</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BMP1"/>
</owl:Class>
<owl:Class rdf:ID="BMP1PwAT4ATGW">
  <rdfs:comment>BMP-1P w/ AT-4 ATGW</rdfs:comment>
  <rdfs:label>BMP-1P w/ AT-4 ATGW</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BMP1"/>
</owl:Class>
<owl:Class rdf:ID="BMP1PKCommand">
  <rdfs:comment>BMP-1PK Command</rdfs:comment>
  <rdfs:label>BMP-1PK Command</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BMP1"/>
</owl:Class>
<owl:Class rdf:ID="BRM1KreconakaM1976">
  <rdfs:comment>BRM-1K recon (aka M-1976)</rdfs:comment>
  <rdfs:label>BRM-1K recon (aka M-1976)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BMP1"/>
</owl:Class>
<owl:Class rdf:ID="BMP1KShMunarmedCommand">
  <rdfs:comment>BMP-1KSh Munarmed Command</rdfs:comment>

```

```

        <rdfs:label>BMP-1KShM unarmed Command</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BMP1"/>
    </owl:Class>
    <owl:Class rdf:ID="BMP2">
        <rdfs:comment>BMP-2</rdfs:comment>
        <rdfs:label>BMP-2</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="BMP2D">
        <rdfs:comment>BMP-2D</rdfs:comment>
        <rdfs:label>BMP-2D</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BMP2"/>
    </owl:Class>
    <owl:Class rdf:ID="BMP2K">
        <rdfs:comment>BMP-2K</rdfs:comment>
        <rdfs:label>BMP-2K</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BMP2"/>
    </owl:Class>
    <owl:Class rdf:ID="BMP2wKMT8KMT10">
        <rdfs:comment>BMP-2 w/ KMT-8/KMT-10</rdfs:comment>
        <rdfs:label>BMP-2 w/ KMT-8/KMT-10</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BMP2"/>
    </owl:Class>
    <owl:Class rdf:ID="BVP2Czech">
        <rdfs:comment>BVP-2 (Czech)</rdfs:comment>
        <rdfs:label>BVP-2 (Czech)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BMP2"/>
    </owl:Class>
    <owl:Class rdf:ID="BMP3">
        <rdfs:comment>BMP-3</rdfs:comment>
        <rdfs:label>BMP-3</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="BMP3-SIFVM19901">
        <rdfs:comment>BMP-3 [(SIFV) M1990/1]</rdfs:comment>
        <rdfs:label>BMP-3 [(SIFV) M1990/1]</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BMP3"/>
    </owl:Class>
    <owl:Class rdf:ID="BMP3ReconnaissanceVehicle">
        <rdfs:comment>BMP-3 Reconnaissance Vehicle</rdfs:comment>
        <rdfs:label>BMP-3 Reconnaissance Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BMP3"/>
    </owl:Class>
    <owl:Class rdf:ID="BRDM2">
        <rdfs:comment>BRDM-2 Reconnaissance Vehicle</rdfs:comment>
        <rdfs:label>BRDM-2 Reconnaissance Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="BRDM2wAT2ATGM">
        <rdfs:comment>BRDM-2 w/ AT-2 ATGM</rdfs:comment>
        <rdfs:label>BRDM-2 w/ AT-2 ATGM</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BRDM2"/>
    </owl:Class>
    <owl:Class rdf:ID="BRDM2wAT3ATGM">
        <rdfs:comment>BRDM-2 w/ AT-3 ATGM</rdfs:comment>
        <rdfs:label>BRDM-2 w/ AT-3 ATGM</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BRDM2"/>
    </owl:Class>

```

```

</owl:Class>
<owl:Class rdf:ID="BRDM2wAT5ATGM">
  <rdfs:comment>BRDM-2 w/ AT-5 ATGM</rdfs:comment>
  <rdfs:label>BRDM-2 w/ AT-5 ATGM</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BRDM2"/>
</owl:Class>
<owl:Class rdf:ID="BRDM2RKhbNBC">
  <rdfs:comment>BRDM-2-RKhb NBC</rdfs:comment>
  <rdfs:label>BRDM-2-RKhb NBC</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BRDM2"/>
</owl:Class>
<owl:Class rdf:ID="BRDM2UCommand">
  <rdfs:comment>BRDM-2U Command</rdfs:comment>
  <rdfs:label>BRDM-2U Command</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BRDM2"/>
</owl:Class>
<owl:Class rdf:ID="BRDM2w14.5mm">
  <rdfs:comment>BRDM-2 w/14.5mm</rdfs:comment>
  <rdfs:label>BRDM-2 w/14.5mm</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BRDM2"/>
</owl:Class>
<owl:Class rdf:ID="BTR40">
  <rdfs:comment>BTR-40 Reconnaissance Vehicle</rdfs:comment>
  <rdfs:label>BTR-40 Reconnaissance Vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISAFV"/>
</owl:Class>
<owl:Class rdf:ID="BTR40B">
  <rdfs:comment>BTR-40B</rdfs:comment>
  <rdfs:label>BTR-40B</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR40"/>
</owl:Class>
<owl:Class rdf:ID="BTR40Aantiair">
  <rdfs:comment>BTR-40A anti-air</rdfs:comment>
  <rdfs:label>BTR-40A anti-air</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR40"/>
</owl:Class>
<owl:Class rdf:ID="BTR40Khchemicalreconnaissance">
  <rdfs:comment>BTR-40Kh chemical reconnaissance</rdfs:comment>
  <rdfs:label>BTR-40Kh chemical reconnaissance</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR40"/>
</owl:Class>
<owl:Class rdf:ID="BTR40zhdrailRoad">
  <rdfs:comment>BTR-40zhd railRoad</rdfs:comment>
  <rdfs:label>BTR-40zhd railRoad</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR40"/>
</owl:Class>
<owl:Class rdf:ID="BTR152">
  <rdfs:comment>BTR-152</rdfs:comment>
  <rdfs:label>BTR-152</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISAFV"/>
</owl:Class>
<owl:Class rdf:ID="BTR152V">
  <rdfs:comment>BTR-152V</rdfs:comment>
  <rdfs:label>BTR-152V</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR152"/>
</owl:Class>
<owl:Class rdf:ID="BTR152V1">

```



```

        <rdfs:comment>BTR-152V1</rdfs:comment>
        <rdfs:label>BTR-152V1</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR152"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR152V2">
        <rdfs:comment>BTR-152V2</rdfs:comment>
        <rdfs:label>BTR-152V2</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR152"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR152V3">
        <rdfs:comment>BTR-152V3</rdfs:comment>
        <rdfs:label>BTR-152V3</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR152"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR152K">
        <rdfs:comment>BTR-152K</rdfs:comment>
        <rdfs:label>BTR-152K</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR152"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR152U">
        <rdfs:comment>BTR-152U</rdfs:comment>
        <rdfs:label>BTR-152U</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR152"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR152A">
        <rdfs:comment>BTR-152A</rdfs:comment>
        <rdfs:label>BTR-152A</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR152"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLB">
        <rdfs:comment>MT-LB Tracked Vehicle</rdfs:comment>
        <rdfs:label>MT-LB Tracked Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLB1V12">
        <rdfs:comment>MT-LB 1V12</rdfs:comment>
        <rdfs:label>MT-LB 1V12</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MTLB"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLB1V13batteryFireDirectionCenterFDC">
        <rdfs:comment>MT-LB 1V13 (battery Fire Direction Center
(FDC))</rdfs:comment>
        <rdfs:label>MT-LB 1V13 (battery Fire Direction Center
(FDC))</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MTLB"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLB1V14batteryCommandPost">
        <rdfs:comment>MT-LB 1V14 (battery Command Post)</rdfs:comment>
        <rdfs:label>MT-LB 1V14 (battery Command Post)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MTLB"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLB1V15battalionCommand">
        <rdfs:comment>MT-LB 1V15 (battalion Command)</rdfs:comment>
        <rdfs:label>MT-LB 1V15 (battalion Command)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MTLB"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLB1V16battalionFDC">

```

```

        <rdfs:comment>MT-LB 1V16 (battalion FDC)</rdfs:comment>
        <rdfs:label>MT-LB 1V16 (battalion FDC)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MTLB"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLB1V12MartilleryC2">
        <rdfs:comment>MT-LB 1V12M (artillery C2)</rdfs:comment>
        <rdfs:label>MT-LB 1V12M (artillery C2)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MTLB"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLB1V13MartilleryC2">
        <rdfs:comment>MT-LB 1V13M (artillery C2)</rdfs:comment>
        <rdfs:label>MT-LB 1V13M (artillery C2)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MTLB"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLB1V14MartilleryC2">
        <rdfs:comment>MT-LB 1V14M (artillery C2)</rdfs:comment>
        <rdfs:label>MT-LB 1V14M (artillery C2)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MTLB"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLB1V15MartilleryC2">
        <rdfs:comment>MT-LB 1V15M (artillery C2)</rdfs:comment>
        <rdfs:label>MT-LB 1V15M (artillery C2)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MTLB"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLB1V16MartilleryC2">
        <rdfs:comment>MT-LB 1V16M (artillery C2)</rdfs:comment>
        <rdfs:label>MT-LB 1V16M (artillery C2)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MTLB"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLB1V21staffCommand">
        <rdfs:comment>MT-LB 1V21 staff Command</rdfs:comment>
        <rdfs:label>MT-LB 1V21 staff Command</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MTLB"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLB1V22airdefensemanagement">
        <rdfs:comment>MT-LB 1V22 air defense management</rdfs:comment>
        <rdfs:label>MT-LB 1V22 air defense management</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MTLB"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLB1V23C2">
        <rdfs:comment>MT-LB 1V23 C2</rdfs:comment>
        <rdfs:label>MT-LB 1V23 C2</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MTLB"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLB1V24artilleryC3">
        <rdfs:comment>MT-LB 1V24 artillery C3</rdfs:comment>
        <rdfs:label>MT-LB 1V24 artillery C3</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MTLB"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLB1V25ADmanagement">
        <rdfs:comment>MT-LB 1V25 AD management</rdfs:comment>
        <rdfs:label>MT-LB 1V25 AD management</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MTLB"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLBSNAR10radar">
        <rdfs:comment>MT-LB SNAR-10 radar</rdfs:comment>
        <rdfs:label>MT-LB SNAR-10 radar</rdfs:label>

```

```

        <rdfs:subClassOf rdf:resource="#MTLB"/>
</owl:Class>
<owl:Class rdf:ID="MTLBVsnowswamp">
    <rdfs:comment>MT-LBV snow/swamp</rdfs:comment>
    <rdfs:label>MT-LBV snow/swamp</rdfs:label>
    <rdfs:subClassOf rdf:resource="#MTLB"/>
</owl:Class>
<owl:Class rdf:ID="MTLBengineer">
    <rdfs:comment>MT-LB engineer</rdfs:comment>
    <rdfs:label>MT-LB engineer</rdfs:label>
    <rdfs:subClassOf rdf:resource="#MTLB"/>

</owl:Class>
<owl:Class rdf:ID="MTLBambulance">
    <rdfs:comment>MT-LB ambulance</rdfs:comment>
    <rdfs:label>MT-LB ambulance</rdfs:label>
    <rdfs:subClassOf rdf:resource="#MTLB"/>
</owl:Class>
<owl:Class rdf:ID="MTLBRrepair">
    <rdfs:comment>MT-LBR repair</rdfs:comment>
    <rdfs:label>MT-LBR repair</rdfs:label>
    <rdfs:subClassOf rdf:resource="#MTLB"/>
</owl:Class>
<owl:Class rdf:ID="MTLBwAT6AntiTankGuidedWeaponATGW">
    <rdfs:comment>MT-LB w/ AT-6 (Anti-Tank Guided Weapon)
ATGW</rdfs:comment>
    <rdfs:label>MT-LB w/ AT-6 (Anti-Tank Guided Weapon)
ATGW</rdfs:label>
    <rdfs:subClassOf rdf:resource="#MTLB"/>
</owl:Class>
<owl:Class rdf:ID="BTR60">
    <rdfs:comment>BTR-60</rdfs:comment>
    <rdfs:label>BTR-60</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISAFV"/>
</owl:Class>
<owl:Class rdf:ID="BTR60P">
    <rdfs:comment>BTR-60P</rdfs:comment>
    <rdfs:label>BTR-60P</rdfs:label>
    <rdfs:subClassOf rdf:resource="#BTR60"/>
</owl:Class>
<owl:Class rdf:ID="BTR60PA">
    <rdfs:comment>BTR-60PA</rdfs:comment>
    <rdfs:label>BTR-60PA</rdfs:label>
    <rdfs:subClassOf rdf:resource="#BTR60"/>
</owl:Class>
<owl:Class rdf:ID="BTR60PB">
    <rdfs:comment>BTR-60PB</rdfs:comment>
    <rdfs:label>BTR-60PB</rdfs:label>
    <rdfs:subClassOf rdf:resource="#BTR60"/>
</owl:Class>
<owl:Class rdf:ID="BTR60PU">
    <rdfs:comment>BTR-60PU</rdfs:comment>
    <rdfs:label>BTR-60PU</rdfs:label>
    <rdfs:subClassOf rdf:resource="#BTR60"/>
</owl:Class>
<owl:Class rdf:ID="BTR60PBKCommand">
    <rdfs:comment>BTR-60PBK Command</rdfs:comment>

```

```

        <rdfs:label>BTR-60PBK Command</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR60"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR60PUCommand">
        <rdfs:comment>BTR-60PU Command</rdfs:comment>
        <rdfs:label>BTR-60PU Command</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR60"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR60PU12airdefenseCommand">
        <rdfs:comment>BTR-60PU-12 air defense Command</rdfs:comment>
        <rdfs:label>BTR-60PU-12 air defense Command</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR60"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR601V19FDC">
        <rdfs:comment>BTR-601V19 FDC</rdfs:comment>
        <rdfs:label>BTR-601V19 FDC</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR60"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR601V18artilleryobservation">
        <rdfs:comment>BTR-601V18 artillery observation</rdfs:comment>
        <rdfs:label>BTR-601V18 artillery observation</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR60"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR60R145BMcommunications">
        <rdfs:comment>BTR-60 R-145BM communications</rdfs:comment>
        <rdfs:label>BTR-60 R-145BM communications</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR60"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR60R975forwardaircontroller">
        <rdfs:comment>BTR-60 R-975 forward air controller</rdfs:comment>
        <rdfs:label>BTR-60 R-975 forward air controller</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR60"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR60E351BRgenerator">
        <rdfs:comment>BTR-60-E-351BR generator</rdfs:comment>
        <rdfs:label>BTR-60-E-351BR generator</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR60"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR60P238Tswitchboard">
        <rdfs:comment>BTR-60-P-238T switchboard</rdfs:comment>
        <rdfs:label>BTR-60-P-238T switchboard</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR60"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR60P240Tswitchboard">
        <rdfs:comment>BTR-60-P-240T switchboard</rdfs:comment>
        <rdfs:label>BTR-60-P-240T switchboard</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR60"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR60P241Tfieldtelephone">
        <rdfs:comment>BTR-60-P-241T field telephone</rdfs:comment>
        <rdfs:label>BTR-60-P-241T field telephone</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR60"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR50">
        <rdfs:comment>BTR-50 Amphibious Tracked APC</rdfs:comment>
        <rdfs:label>BTR-50 Amphibious Tracked APC</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISAFV"/>

```

```

</owl:Class>
<owl:Class rdf:ID="BTR50P">
  <rdfs:comment>BTR-50P</rdfs:comment>
  <rdfs:label>BTR-50P</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR50"/>
</owl:Class>
<owl:Class rdf:ID="BTR50PA">
  <rdfs:comment>BTR-50PA</rdfs:comment>
  <rdfs:label>BTR-50PA</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR50"/>
</owl:Class>
<owl:Class rdf:ID="BTR50PK">
  <rdfs:comment>BTR-50PK</rdfs:comment>
  <rdfs:label>BTR-50PK</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR50"/>
</owl:Class>
<owl:Class rdf:ID="BTR50PU">
  <rdfs:comment>BTR-50PU</rdfs:comment>
  <rdfs:label>BTR-50PU</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR50"/>
</owl:Class>
<owl:Class rdf:ID="BTR50PUR82">
  <rdfs:comment>BTR-50PU R82</rdfs:comment>
  <rdfs:label>BTR-50PU R82</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR50"/>
</owl:Class>
<owl:Class rdf:ID="BTR50PU11">
  <rdfs:comment>BTR-50PU-11</rdfs:comment>
  <rdfs:label>BTR-50PU-11</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR50"/>
</owl:Class>
<owl:Class rdf:ID="BTR50PUM">
  <rdfs:comment>BTR-50PUM</rdfs:comment>
  <rdfs:label>BTR-50PUM</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR50"/>
</owl:Class>
<owl:Class rdf:ID="BTR50PUR">
  <rdfs:comment>BTR-50PUR</rdfs:comment>
  <rdfs:label>BTR-50PUR</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR50"/>
</owl:Class>
<owl:Class rdf:ID="BTR50PKB">
  <rdfs:comment>BTR-50PK(B)</rdfs:comment>
  <rdfs:label>BTR-50PK(B)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR50"/>
</owl:Class>
<owl:Class rdf:ID="MTPtechnicalsupport">
  <rdfs:comment>MTP technical support</rdfs:comment>
  <rdfs:label>MTP technical support</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR50"/>
</owl:Class>
<owl:Class rdf:ID="MTKmineclearing">
  <rdfs:comment>MTK mineclearing</rdfs:comment>
  <rdfs:label>MTK mineclearing</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR50"/>
</owl:Class>
<owl:Class rdf:ID="MTR1repair">

```

```

        <rdfs:comment>MTR-1 repair</rdfs:comment>
        <rdfs:label>MTR-1 repair</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR50"/>
    </owl:Class>
    <owl:Class rdf:ID="BMDAFSV">
        <rdfs:comment>BMD airborne fire support Vehicle</rdfs:comment>
        <rdfs:label>BMD airborne fire support Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="BMD1">
        <rdfs:comment>BMD-1</rdfs:comment>
        <rdfs:label>BMD-1</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BMDAFSV"/>
    </owl:Class>
    <owl:Class rdf:ID="BMD1PwAT3ATGW">
        <rdfs:comment>BMD-1P w/ AT-3 ATGW</rdfs:comment>
        <rdfs:label>BMD-1P w/ AT-3 ATGW</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BMDAFSV"/>
    </owl:Class>
    <owl:Class rdf:ID="BMD2">
        <rdfs:comment>BMD-2</rdfs:comment>
        <rdfs:label>BMD-2</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BMDAFSV"/>
    </owl:Class>
    <owl:Class rdf:ID="BMDw82mmMortar">
        <rdfs:comment>BMD w/ 82-mm Mortar</rdfs:comment>
        <rdfs:label>BMD w/ 82-mm Mortar</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BMDAFSV"/>
    </owl:Class>
    <owl:Class rdf:ID="BMDKShMCommand">
        <rdfs:comment>BMD KShM Command</rdfs:comment>
        <rdfs:label>BMD KShM Command</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BMDAFSV"/>
    </owl:Class>
    <owl:Class rdf:ID="BTRD">
        <rdfs:comment>BTR-D</rdfs:comment>
        <rdfs:label>BTR-D</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BMDAFSV"/>
    </owl:Class>
    <owl:Class rdf:ID="BMD3">
        <rdfs:comment>BMD-3</rdfs:comment>
        <rdfs:label>BMD-3</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BMDAFSV"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR70">
        <rdfs:comment>BTR-70</rdfs:comment>
        <rdfs:label>BTR-70</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR70M19861">
        <rdfs:comment>BTR-70 M1986/1</rdfs:comment>
        <rdfs:label>BTR-70 M1986/1</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR70"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR70KhChemicalReconnaissance">
        <rdfs:comment>BTR-70Kh chemical reconnaissance</rdfs:comment>
        <rdfs:label>BTR-70Kh chemical reconnaissance</rdfs:label>

```

```

        <rdfs:subClassOf rdf:resource="#BTR70"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR70wAGS17">
        <rdfs:comment>BTR-70 w/ AGS-17</rdfs:comment>
        <rdfs:label>BTR-70 w/ AGS-17</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR70"/>
    </owl:Class>
    <owl:Class rdf:ID="SPR2possjammer">
        <rdfs:comment>SPR-2 (poss jammer)</rdfs:comment>
        <rdfs:label>SPR-2 (poss jammer)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR70"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR70MScommunications">
        <rdfs:comment>BTR-70MS communications</rdfs:comment>
        <rdfs:label>BTR-70MS communications</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR70"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR70KShMCommandstaff">
        <rdfs:comment>BTR-70KShM Command/staff</rdfs:comment>
        <rdfs:label>BTR-70KShM Command/staff</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR70"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR70BREMrepair">
        <rdfs:comment>BTR-70 BREM repair</rdfs:comment>
        <rdfs:label>BTR-70 BREM repair</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR70"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR80">
        <rdfs:comment>BTR-80</rdfs:comment>
        <rdfs:label>BTR-80</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR80M19811Command">
        <rdfs:comment>BTR-80 M1981/1 Command</rdfs:comment>
        <rdfs:label>BTR-80 M1981/1 Command</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR80"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR80RKhM4CR">
        <rdfs:comment>BTR-80 RKhM-4 chemical and
reconnaissance</rdfs:comment>
        <rdfs:label>BTR-80 RKhM-4 chemical and reconnaissance</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR80"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR80UNSh">
        <rdfs:comment>BTR-80 UNSh</rdfs:comment>
        <rdfs:label>BTR-80 UNSh</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR80"/>
    </owl:Class>
    <owl:Class rdf:ID="BMM1Ambulance">
        <rdfs:comment>BMM-1 Ambulance </rdfs:comment>
        <rdfs:label>BMM-1 Ambulance </rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR80"/>
    </owl:Class>
    <owl:Class rdf:ID="BMM2BnAidStation">
        <rdfs:comment>BMM-2 Bn Aid Station</rdfs:comment>
        <rdfs:label>BMM-2 Bn Aid Station</rdfs:label>
        <rdfs:subClassOf rdf:resource="#BTR80"/>
    </owl:Class>

```

```

</owl:Class>
<owl:Class rdf:ID="BMM3MobileDressingStation">
  <rdfs:comment>BMM-3 Mobile Dressing Station</rdfs:comment>
  <rdfs:label>BMM-3 Mobile Dressing Station</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BTR80"/>
</owl:Class>
<owl:Class rdf:ID="BRDM1">
  <rdfs:comment>BRDM-1 Reconnaissance Vehicle</rdfs:comment>
  <rdfs:label>BRDM-1 Reconnaissance Vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISAFV"/>
</owl:Class>
<owl:Class rdf:ID="BRDM1RKhb">
  <rdfs:comment>BRDM-1-RKhb</rdfs:comment>
  <rdfs:label>BRDM-1-RKhb</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BRDM1"/>
</owl:Class>
<owl:Class rdf:ID="BRDMU">
  <rdfs:comment>BRDM-U</rdfs:comment>
  <rdfs:label>BRDM-U</rdfs:label>
  <rdfs:subClassOf rdf:resource="#BRDM1"/>
</owl:Class>
<owl:Class rdf:ID="BTR90">
  <rdfs:comment>BTR-90</rdfs:comment>
  <rdfs:label>BTR-90</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISAFV"/>
</owl:Class>
<owl:Class rdf:ID="GMZTML">
  <rdfs:comment>GMZ TML</rdfs:comment>
  <rdfs:label>GMZ TML</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISAFV"/>
</owl:Class>
<owl:Class rdf:ID="MTLBu">
  <rdfs:comment>MT-LBu Tracked Vehicle</rdfs:comment>
  <rdfs:label>MT-LBu Tracked Vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISAFV"/>
</owl:Class>
<owl:Class rdf:ID="RangirC3BCP">
  <rdfs:comment>Rangir C3 BCP</rdfs:comment>
  <rdfs:label>Rangir C3 BCP</rdfs:label>
  <rdfs:subClassOf rdf:resource="#MTLBu"/>
</owl:Class>
<owl:Class rdf:ID="R330BJammer">
  <rdfs:comment>R-330 B Jammer</rdfs:comment>
  <rdfs:label>R-330 B Jammer</rdfs:label>
  <rdfs:subClassOf rdf:resource="#MTLBu"/>
</owl:Class>
<owl:Class rdf:ID="FV432">
  <rdfs:comment>432 (APC)</rdfs:comment>
  <rdfs:label>432 (APC)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#UKAFV"/>
</owl:Class>
<owl:Class rdf:ID="Ambulance">
  <rdfs:comment>Ambulance</rdfs:comment>
  <rdfs:label>Ambulance</rdfs:label>
  <rdfs:subClassOf rdf:resource="#FV432"/>
</owl:Class>
<owl:Class rdf:ID="MortarCarrier81mm">

```



```

        <rdfs:comment>81mm Mortar carrier</rdfs:comment>
        <rdfs:label>81mm Mortar carrier</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FV432"/>
    </owl:Class>
    <owl:Class rdf:ID="FV103SpartanAPC">
        <rdfs:comment>FV 103 Spartan (APC)</rdfs:comment>
        <rdfs:label>FV 103 Spartan (APC)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#UKAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="FV601Saladin">
        <rdfs:comment>FV 601 Saladin</rdfs:comment>
        <rdfs:label>FV 601 Saladin</rdfs:label>
        <rdfs:subClassOf rdf:resource="#UKAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="FV107Scimitar">
        <rdfs:comment>FV 107 Scimitar</rdfs:comment>
        <rdfs:label>FV 107 Scimitar</rdfs:label>
        <rdfs:subClassOf rdf:resource="#UKAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="FV603Saracen">
        <rdfs:comment>FV 603 Saracen</rdfs:comment>
        <rdfs:label>FV 603 Saracen</rdfs:label>
        <rdfs:subClassOf rdf:resource="#UKAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="AT105Saxon">
        <rdfs:comment>AT 105 Saxon</rdfs:comment>
        <rdfs:label>AT 105 Saxon</rdfs:label>
        <rdfs:subClassOf rdf:resource="#UKAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="FV510Warrior">
        <rdfs:comment>FV 510 Warrior</rdfs:comment>
        <rdfs:label>FV 510 Warrior</rdfs:label>
        <rdfs:subClassOf rdf:resource="#UKAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="FV711Ferret">
        <rdfs:comment>FV 711 Ferret</rdfs:comment>
        <rdfs:label>FV 711 Ferret</rdfs:label>
        <rdfs:subClassOf rdf:resource="#UKAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="FV721Fox">
        <rdfs:comment>FV 721 Fox</rdfs:comment>
        <rdfs:label>FV 721 Fox</rdfs:label>
        <rdfs:subClassOf rdf:resource="#UKAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="FV102Striker">
        <rdfs:comment>FV 102 Striker</rdfs:comment>
        <rdfs:label>FV 102 Striker</rdfs:label>
        <rdfs:subClassOf rdf:resource="#UKAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="FV101Scorpion">
        <rdfs:comment>FV 101 Scorpion</rdfs:comment>
        <rdfs:label>FV 101 Scorpion</rdfs:label>
        <rdfs:subClassOf rdf:resource="#UKAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="FV106Samson">
        <rdfs:comment>FV 106 Samson</rdfs:comment>
        <rdfs:label>FV 106 Samson</rdfs:label>

```

```

        <rdfs:subClassOf rdf:resource="#UKAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="FMCM2M3">
        <rdfs:comment>M2/M3 Bradley</rdfs:comment>
        <rdfs:label>M2/M3 Bradley</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="M2A2BradleyInfantryFightingVehicleIFV">
        <rdfs:comment>M2A2 Bradley Infantry Fighting Vehicle
(IFV)</rdfs:comment>
        <rdfs:label>M2A2 Bradley Infantry Fighting Vehicle
(IFV)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM2M3"/>
    </owl:Class>
    <owl:Class rdf:ID="M3A2BradleyCavalryFightingVehicleCFV">
        <rdfs:comment>M3A2 Bradley Cavalry Fighting Vehicle
(CFV)</rdfs:comment>
        <rdfs:label>M3A2 Bradley Cavalry Fighting Vehicle (CFV)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM2M3"/>
    </owl:Class>
    <owl:Class rdf:ID="FMCBradleyIFV">
        <rdfs:comment>FMC Bradley IFV</rdfs:comment>
        <rdfs:label>FMC Bradley IFV</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM2M3"/>
    </owl:Class>
    <owl:Class rdf:ID="M2BradleyIFV">
        <rdfs:comment>M2 Bradley IFV</rdfs:comment>
        <rdfs:label>M2 Bradley IFV</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM2M3"/>
    </owl:Class>
    <owl:Class rdf:ID="M2A1BradleyIFV">
        <rdfs:comment>M2A1 Bradley IFV</rdfs:comment>
        <rdfs:label>M2A1 Bradley IFV</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM2M3"/>
    </owl:Class>
    <owl:Class rdf:ID="M3BradleyCFV">
        <rdfs:comment>M3 Bradley CFV</rdfs:comment>
        <rdfs:label>M3 Bradley CFV</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM2M3"/>
    </owl:Class>
    <owl:Class rdf:ID="M3A1BradleyCFV">
        <rdfs:comment>M3A1 Bradley CFV</rdfs:comment>
        <rdfs:label>M3A1 Bradley CFV</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM2M3"/>
    </owl:Class>
    <owl:Class rdf:ID="FMCM113">
        <rdfs:comment>FMC M113 Armored Personnel Carrier
(APC)</rdfs:comment>
        <rdfs:label>FMC M113 Armored Personnel Carrier (APC)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="M113A2">
        <rdfs:comment>M113A2</rdfs:comment>
        <rdfs:label>M113A2</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M113A3">

```

```

        <rdfs:comment>M113A3</rdfs:comment>
        <rdfs:label>M113A3</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M113A3wM105Trailer">
        <rdfs:comment>M113A3 w/ M105 Trailer</rdfs:comment>
        <rdfs:label>M113A3 w/ M105 Trailer</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M113A1ImprovedTOWVehicleITV">
        <rdfs:comment>M113A1 Improved TOW Vehicle (ITV)</rdfs:comment>
        <rdfs:label>M113A1 Improved TOW Vehicle (ITV)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M113A1TOW">
        <rdfs:comment>M113A1 TOW</rdfs:comment>
        <rdfs:label>M113A1 TOW</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M113A2ITV">
        <rdfs:comment>M113A2 ITV</rdfs:comment>
        <rdfs:label>M113A2 ITV</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M113A2TOW">
        <rdfs:comment>M113A2 TOW</rdfs:comment>
        <rdfs:label>M113A2 TOW</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M730ChaparralSurfacettoAirMissileSAMlauncher">
        <rdfs:comment>M730 Chaparral Surface-to-Air Missile (SAM)
launcher</rdfs:comment>
        <rdfs:label>M730 Chaparral Surface-to-Air Missile (SAM)
launcher</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M113">
        <rdfs:comment>M113</rdfs:comment>
        <rdfs:label>M113</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M113A1">
        <rdfs:comment>M113A1</rdfs:comment>
        <rdfs:label>M113A1</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M113A1R">
        <rdfs:comment>M113A1R</rdfs:comment>
        <rdfs:label>M113A1R</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M113A2DR">
        <rdfs:comment>M113A2DR</rdfs:comment>
        <rdfs:label>M113A2DR</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M113A2H">

```

```

        <rdfs:comment>M113A2H</rdfs:comment>
        <rdfs:label>M113A2H</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M113A2IT">
        <rdfs:comment>M113A2IT</rdfs:comment>
        <rdfs:label>M113A2IT</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M113A2MK">
        <rdfs:comment>M113A2MK</rdfs:comment>
        <rdfs:label>M113A2MK</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M113A2R">
        <rdfs:comment>M113A2R</rdfs:comment>
        <rdfs:label>M113A2R</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M132M132A1Flamethrower">
        <rdfs:comment>M132/M132A1 Flamethrower</rdfs:comment>
        <rdfs:label>M132/M132A1 Flamethrower</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M667">
        <rdfs:comment>M667</rdfs:comment>
        <rdfs:label>M667</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M741">
        <rdfs:comment>M741</rdfs:comment>
        <rdfs:label>M741</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M741A1">
        <rdfs:comment>M741A1</rdfs:comment>
        <rdfs:label>M741A1</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="M741A2">
        <rdfs:comment>M741A2</rdfs:comment>
        <rdfs:label>M741A2</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="RTL">
        <rdfs:comment>RTL</rdfs:comment>
        <rdfs:label>RTL</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="XM474">
        <rdfs:comment>XM474</rdfs:comment>
        <rdfs:label>XM474</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCM113"/>
    </owl:Class>
    <owl:Class rdf:ID="XM474E2">
        <rdfs:comment>XM474E2</rdfs:comment>
        <rdfs:label>XM474E2</rdfs:label>

```

```

        <rdfs:subClassOf rdf:resource="#FMCM113"/>
</owl:Class>
<owl:Class rdf:ID="XM667E1">
    <rdfs:comment>XM667E1</rdfs:comment>
    <rdfs:label>XM667E1</rdfs:label>
    <rdfs:subClassOf rdf:resource="#FMCM113"/>
</owl:Class>
<owl:Class rdf:ID="XM727">
    <rdfs:comment>XM727</rdfs:comment>
    <rdfs:label>XM727</rdfs:label>
    <rdfs:subClassOf rdf:resource="#FMCM113"/>
</owl:Class>
<owl:Class rdf:ID="XM741">
    <rdfs:comment>XM741</rdfs:comment>
    <rdfs:label>XM741</rdfs:label>
    <rdfs:subClassOf rdf:resource="#FMCM113"/>
</owl:Class>
<owl:Class rdf:ID="XM806E1">
    <rdfs:comment>XM806E1</rdfs:comment>
    <rdfs:label>XM806E1</rdfs:label>
    <rdfs:subClassOf rdf:resource="#FMCM113"/>
</owl:Class>
<owl:Class rdf:ID="XM806E2">
    <rdfs:comment>XM806E2</rdfs:comment>
    <rdfs:label>XM806E2</rdfs:label>
    <rdfs:subClassOf rdf:resource="#FMCM113"/>
</owl:Class>
<owl:Class rdf:ID="LightArmoredVehicleLAVTOW">
    <rdfs:comment>Light Armored Vehicle (LAV) TOW</rdfs:comment>
    <rdfs:label>Light Armored Vehicle (LAV) TOW</rdfs:label>
    <rdfs:subClassOf rdf:resource="#USAFV"/>
</owl:Class>
<owl:Class rdf:ID="FMCArmoredIFV">
    <rdfs:comment>FMC Armored IFV</rdfs:comment>
    <rdfs:label>FMC Armored IFV</rdfs:label>
    <rdfs:subClassOf rdf:resource="#USAFV"/>
</owl:Class>
<owl:Class rdf:ID="YPR765PRI">
    <rdfs:comment>YPR 765 PRI</rdfs:comment>
    <rdfs:label>YPR 765 PRI</rdfs:label>
    <rdfs:subClassOf rdf:resource="#FMCArmoredIFV"/>
</owl:Class>
<owl:Class rdf:ID="YPR765PRC0BCommandVehicle">
    <rdfs:comment>YPR 765 PRC0-B Command Vehicle</rdfs:comment>
    <rdfs:label>YPR 765 PRC0-B Command Vehicle</rdfs:label>
    <rdfs:subClassOf rdf:resource="#FMCArmoredIFV"/>
</owl:Class>
<owl:Class rdf:ID="YPR765PRC0C1toC5">
    <rdfs:comment>YPR 765 PRC0-C1 to C5</rdfs:comment>
    <rdfs:label>YPR 765 PRC0-C1 to C5</rdfs:label>
    <rdfs:subClassOf rdf:resource="#FMCArmoredIFV"/>
</owl:Class>
<owl:Class rdf:ID="YPR765PRRDRradarVehicle">
    <rdfs:comment>YPR 765 PRRDR radar Vehicle</rdfs:comment>
    <rdfs:label>YPR 765 PRRDR radar Vehicle</rdfs:label>
    <rdfs:subClassOf rdf:resource="#FMCArmoredIFV"/>
</owl:Class>

```

```

<owl:Class rdf:ID="YPR765PRRDRCradarCommandVehicle">
  <rdfs:comment>YPR 765 PRRDR-C radar/Command Vehicle</rdfs:comment>
  <rdfs:label>YPR 765 PRRDR-C radar/Command Vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#FMCArmoredIFV"/>
</owl:Class>
<owl:Class rdf:ID="YPR765PRGWTambulance">
  <rdfs:comment>YPR 765 PRGWT ambulance</rdfs:comment>
  <rdfs:label>YPR 765 PRGWT ambulance</rdfs:label>
  <rdfs:subClassOf rdf:resource="#FMCArmoredIFV"/>
</owl:Class>
<owl:Class rdf:ID="YPR765PRII">
  <rdfs:comment>YPR 765 PRI/I</rdfs:comment>
  <rdfs:label>YPR 765 PRI/I</rdfs:label>
  <rdfs:subClassOf rdf:resource="#FMCArmoredIFV"/>
</owl:Class>
<owl:Class rdf:ID="YPR765PRMRMortartractor">
  <rdfs:comment>YPR 765 PRMR Mortar tractor</rdfs:comment>
  <rdfs:label>YPR 765 PRMR Mortar tractor</rdfs:label>
  <rdfs:subClassOf rdf:resource="#FMCArmoredIFV"/>
</owl:Class>
<owl:Class rdf:ID="YPR765PRVRAcargoVehicle">
  <rdfs:comment>YPR 765 PRVR-A cargo Vehicle</rdfs:comment>
  <rdfs:label>YPR 765 PRVR-A cargo Vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#FMCArmoredIFV"/>
</owl:Class>
<owl:Class rdf:ID="YPR765PRVRBcargoVehicle">
  <rdfs:comment>YPR 765 PRVR-B cargo Vehicle</rdfs:comment>
  <rdfs:label>YPR 765 PRVR-B cargo Vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#FMCArmoredIFV"/>
</owl:Class>
<owl:Class rdf:ID="YPR765PRAT">
  <rdfs:comment>YPR 765 PRAT</rdfs:comment>
  <rdfs:label>YPR 765 PRAT</rdfs:label>
  <rdfs:subClassOf rdf:resource="#FMCArmoredIFV"/>
</owl:Class>
<owl:Class rdf:ID="FMCLynxorM113CommandandReconnaissanceVehicle">
  <rdfs:comment>FMC Lynx (or M113) Command and Reconnaissance
Vehicle</rdfs:comment>
  <rdfs:label>FMC Lynx (or M113) Command and Reconnaissance
Vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USAFV"/>
</owl:Class>
<owl:Class rdf:ID="M981FISTV">
  <rdfs:comment>M981 FIST-V</rdfs:comment>
  <rdfs:label>M981 FIST-V</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USAFV"/>
</owl:Class>
<owl:Class rdf:ID="M106">
  <rdfs:comment>M106 Mortar carrier</rdfs:comment>
  <rdfs:label>M106 Mortar carrier</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USAFV"/>
</owl:Class>
<owl:Class rdf:ID="M106107mm">
  <rdfs:comment>M106 107-mm</rdfs:comment>
  <rdfs:label>M106 107-mm</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M106"/>
</owl:Class>

```

```

<owl:Class rdf:ID="M106A1107mm">
  <rdfs:comment>M106A1 107-mm</rdfs:comment>
  <rdfs:label>M106A1 107-mm</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M106"/>
</owl:Class>
<owl:Class rdf:ID="M106A2107mm">
  <rdfs:comment>M106A2 107-mm</rdfs:comment>
  <rdfs:label>M106A2 107-mm</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M106"/>
</owl:Class>
<owl:Class rdf:ID="M1064120mm">
  <rdfs:comment>M1064 120-mm</rdfs:comment>
  <rdfs:label>M1064 120-mm</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M106"/>
</owl:Class>
<owl:Class rdf:ID="M901ITV">
  <rdfs:comment>Electronics and Space Corp M901 ITV</rdfs:comment>
  <rdfs:label>Electronics and Space Corp M901 ITV</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USAFV"/>
</owl:Class>
<owl:Class rdf:ID="M901">
  <rdfs:comment>M901</rdfs:comment>
  <rdfs:label>M901</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M901ITV"/>
</owl:Class>
<owl:Class rdf:ID="M901A1">
  <rdfs:comment>M901A1</rdfs:comment>
  <rdfs:label>M901A1</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M901ITV"/>
</owl:Class>
<owl:Class rdf:ID="M125MC">
  <rdfs:comment>M125 81-mm Mortar carrier</rdfs:comment>
  <rdfs:label>M125 81-mm Mortar carrier</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USAFV"/>
</owl:Class>
<owl:Class rdf:ID="M125A1">
  <rdfs:comment>M125A1</rdfs:comment>
  <rdfs:label>M125A1</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M125MC"/>
</owl:Class>
<owl:Class rdf:ID="M125A2">
  <rdfs:comment>M125A2</rdfs:comment>
  <rdfs:label>M125A2</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M125MC"/>
</owl:Class>
<owl:Class rdf:ID="CadillacGageV600ArmoredCar">
  <rdfs:comment>Cadillac Gage V-600 Armored Car</rdfs:comment>
  <rdfs:label>Cadillac Gage V-600 Armored Car</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USAFV"/>
</owl:Class>
<owl:Class rdf:ID="CadillacGageLAVAssaultGunLAV105">
  <rdfs:comment>Cadillac Gage LAV Assault Gun LAV-105</rdfs:comment>
  <rdfs:label>Cadillac Gage LAV Assault Gun LAV-105</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USAFV"/>
</owl:Class>
<owl:Class rdf:ID="LAV105">
  <rdfs:comment>LAV-105</rdfs:comment>

```

```

        <rdfs:label>LAV-105</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="ChryslerMAC1Armoredcar">
        <rdfs:comment>Chrysler MAC-1 Armored car</rdfs:comment>
        <rdfs:label>Chrysler MAC-1 Armored car</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="CadillacGageCommandoScout">
        <rdfs:comment>Cadillac Gage Commando Scout</rdfs:comment>
        <rdfs:label>Cadillac Gage Commando Scout</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="V300">
        <rdfs:comment>Cadillac Gage Commando V-300</rdfs:comment>
        <rdfs:label>Cadillac Gage Commando V-300</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="V300wTOW">
        <rdfs:comment>V-300 w/ TOW</rdfs:comment>
        <rdfs:label>V-300 w/ TOW</rdfs:label>
        <rdfs:subClassOf rdf:resource="#V300"/>
    </owl:Class>
    <owl:Class rdf:ID="V300w81mmMortar">
        <rdfs:comment>V-300 w/ 81-mm Mortar</rdfs:comment>
        <rdfs:label>V-300 w/ 81-mm Mortar</rdfs:label>
        <rdfs:subClassOf rdf:resource="#V300"/>
    </owl:Class>
    <owl:Class rdf:ID="V300ambulance">
        <rdfs:comment>V-300 ambulance</rdfs:comment>
        <rdfs:label>V-300 ambulance</rdfs:label>
        <rdfs:subClassOf rdf:resource="#V300"/>
    </owl:Class>
    <owl:Class rdf:ID="V150">
        <rdfs:comment>Cadillac Gage Commando V-150</rdfs:comment>
        <rdfs:label>Cadillac Gage Commando V-150</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="CommandowMGTurret">
        <rdfs:comment>Commando w/ MG Turret</rdfs:comment>
        <rdfs:label>Commando w/ MG Turret</rdfs:label>
        <rdfs:subClassOf rdf:resource="#V150"/>
    </owl:Class>
    <owl:Class rdf:ID="Commandow1mMGTurret">
        <rdfs:comment>Commando w/ 1-m MG Turret</rdfs:comment>
        <rdfs:label>Commando w/ 1-m MG Turret</rdfs:label>
        <rdfs:subClassOf rdf:resource="#V150"/>
    </owl:Class>
    <owl:Class rdf:ID="Commandow1m20mmTurret">
        <rdfs:comment>Commando w/ 1-m 20-mm Turret</rdfs:comment>
        <rdfs:label>Commando w/ 1-m 20-mm Turret</rdfs:label>
        <rdfs:subClassOf rdf:resource="#V150"/>
    </owl:Class>
    <owl:Class rdf:ID="Commandow20mmTurret">
        <rdfs:comment>Commando w/ 20-mm Turret</rdfs:comment>
        <rdfs:label>Commando w/ 20-mm Turret</rdfs:label>

```



```

        <rdfs:subClassOf rdf:resource="#V150"/>
</owl:Class>
<owl:Class rdf:ID="Commandow25mmTurret">
    <rdfs:comment>Commando w/ 25-mm Turret</rdfs:comment>
    <rdfs:label>Commando w/ 25-mm Turret</rdfs:label>
    <rdfs:subClassOf rdf:resource="#V150"/>
</owl:Class>
<owl:Class rdf:ID="Commandow40mm12.7mmTurret">
    <rdfs:comment>Commando w/ 40-mm/12.7-mm Turret</rdfs:comment>
    <rdfs:label>Commando w/ 40-mm/12.7-mm Turret</rdfs:label>
    <rdfs:subClassOf rdf:resource="#V150"/>
</owl:Class>
<owl:Class rdf:ID="CommandoV150S">
    <rdfs:comment>Commando V-150 S</rdfs:comment>
    <rdfs:label>Commando V-150 S</rdfs:label>
    <rdfs:subClassOf rdf:resource="#V150"/>
</owl:Class>
<owl:Class rdf:ID="CommandoairdefenseVehicle">
    <rdfs:comment>Commando air defense Vehicle</rdfs:comment>
    <rdfs:label>Commando air defense Vehicle</rdfs:label>
    <rdfs:subClassOf rdf:resource="#V150"/>
</owl:Class>
<owl:Class rdf:ID="Commandowith76mmTurretMountedGun">
    <rdfs:comment>Commando with 76-mm Turret-Mounted Gun</rdfs:comment>
    <rdfs:label>Commando with 76-mm Turret-Mounted Gun</rdfs:label>
    <rdfs:subClassOf rdf:resource="#V150"/>
</owl:Class>
<owl:Class rdf:ID="Commandowith90mmTurretMountedGun">
    <rdfs:comment>Commando with 90-mm Turret-Mounted Gun</rdfs:comment>
    <rdfs:label>Commando with 90-mm Turret-Mounted Gun</rdfs:label>
    <rdfs:subClassOf rdf:resource="#V150"/>
</owl:Class>
<owl:Class rdf:ID="Commandowith81mmMortar">
    <rdfs:comment>Commando with 81-mm Mortar</rdfs:comment>
    <rdfs:label>Commando with 81-mm Mortar</rdfs:label>
    <rdfs:subClassOf rdf:resource="#V150"/>
</owl:Class>
<owl:Class rdf:ID="CommandowithTOW">
    <rdfs:comment>Commando with TOW</rdfs:comment>
    <rdfs:label>Commando with TOW</rdfs:label>
    <rdfs:subClassOf rdf:resource="#V150"/>
</owl:Class>
<owl:Class rdf:ID="CommandoCommandVehicle">
    <rdfs:comment>Commando Command Vehicle</rdfs:comment>
    <rdfs:label>Commando Command Vehicle</rdfs:label>
    <rdfs:subClassOf rdf:resource="#V150"/>
</owl:Class>
<owl:Class rdf:ID="BasesecurityVehicle">
    <rdfs:comment>Base security Vehicle</rdfs:comment>
    <rdfs:label>Base security Vehicle</rdfs:label>
    <rdfs:subClassOf rdf:resource="#V150"/>
</owl:Class>
<owl:Class rdf:ID="MalaysianupgradedV150Commando">
    <rdfs:comment>Malaysian upgraded V-150 Commando</rdfs:comment>
    <rdfs:label>Malaysian upgraded V-150 Commando</rdfs:label>
    <rdfs:subClassOf rdf:resource="#V150"/>
</owl:Class>

```

```

<owl:Class rdf:ID="AVDragoon">
  <rdfs:comment>AV Technology Corporation Dragoon</rdfs:comment>
  <rdfs:label>AV Technology Corporation Dragoon</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USAFV"/>
</owl:Class>
<owl:Class rdf:ID="APC">
  <rdfs:comment>APC</rdfs:comment>
  <rdfs:label>APC</rdfs:label>
  <rdfs:subClassOf rdf:resource="#AVDragoon"/>
</owl:Class>
<owl:Class rdf:ID="ASVXCextendedcab">
  <rdfs:comment>ASV-XC extended cab</rdfs:comment>
  <rdfs:label>ASV-XC extended cab</rdfs:label>
  <rdfs:subClassOf rdf:resource="#AVDragoon"/>
</owl:Class>
<owl:Class rdf:ID="DragoonArmoredCommandVehicleACV">
  <rdfs:comment>Dragoon Armored Command Vehicle (ACV)</rdfs:comment>
  <rdfs:label>Dragoon Armored Command Vehicle (ACV)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#AVDragoon"/>
</owl:Class>
<owl:Class rdf:ID="DragoonArmoredMortarCarrierAMC">
  <rdfs:comment>Dragoon Armored Mortar Carrier (AMC)</rdfs:comment>
  <rdfs:label>Dragoon Armored Mortar Carrier (AMC)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#AVDragoon"/>
</owl:Class>
<owl:Class rdf:ID="DragoonTOWCarrier">
  <rdfs:comment>Dragoon TOW Carrier</rdfs:comment>
  <rdfs:label>Dragoon TOW Carrier</rdfs:label>
  <rdfs:subClassOf rdf:resource="#AVDragoon"/>
</owl:Class>
<owl:Class rdf:ID="HalftrackAPCs">
  <rdfs:comment>Half-track APCs</rdfs:comment>
  <rdfs:label>Half-track APCs</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USAFV"/>
</owl:Class>
<owl:Class rdf:ID="CadillacGageCommandoRangerAPC">
  <rdfs:comment>Cadillac Gage Commando Ranger APC</rdfs:comment>
  <rdfs:label>Cadillac Gage Commando Ranger APC</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USAFV"/>
</owl:Class>
<owl:Class
rdf:ID="VehicleSysDevelopmentCorpLancerArmoredPatrolVehicleAPV">
  <rdfs:comment>Vehicle Sys Development Corp Lancer Armored Patrol
Vehicle (APV)</rdfs:comment>
  <rdfs:label>Vehicle Sys Development Corp Lancer Armored Patrol
Vehicle (APV)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USAFV"/>
</owl:Class>
<owl:Class
rdf:ID="AAIPropulsionSystemDemonstratorAmphibiousAssaultVehicleAAV">
  <rdfs:comment>AAI Propulsion System Demonstrator Amphibious Assault
Vehicle (AAV)</rdfs:comment>
  <rdfs:label>AAI Propulsion System Demonstrator Amphibious Assault
Vehicle (AAV)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USAFV"/>
</owl:Class>
<owl:Class rdf:ID="AdvancedAAV">

```

```

        <rdfs:comment>Advanced AAV</rdfs:comment>
        <rdfs:label>Advanced AAV</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="FMCAAV7A1">
        <rdfs:comment>FMC AAV7A1 (LVTP7A1)</rdfs:comment>
        <rdfs:label>FMC AAV7A1 (LVTP7A1)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="AAVC7A1CommandVehicle">
        <rdfs:comment>AAVC7A1 Command Vehicle</rdfs:comment>
        <rdfs:label>AAVC7A1 Command Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCAAV7A1"/>
    </owl:Class>
    <owl:Class rdf:ID="AAVR7A1RecoveryVehicle">
        <rdfs:comment>AAVR7A1 recovery Vehicle</rdfs:comment>
        <rdfs:label>AAVR7A1 recovery Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCAAV7A1"/>
    </owl:Class>
    <owl:Class rdf:ID="AAV7A1withMinePlow">
        <rdfs:comment>AAV7A1 with mine plow</rdfs:comment>
        <rdfs:label>AAV7A1 with mine plow</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCAAV7A1"/>
    </owl:Class>
    <owl:Class rdf:ID="AAV7A1withVEMASID">
        <rdfs:comment>AAV7A1 with VEMASID</rdfs:comment>
        <rdfs:label>AAV7A1 with VEMASID</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCAAV7A1"/>
    </owl:Class>
    <owl:Class rdf:ID="AAV7A1withMineClearanceSystemKit">
        <rdfs:comment>AAV7A1 with mine-clearance-system kit</rdfs:comment>
        <rdfs:label>AAV7A1 with mine-clearance-system kit</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCAAV7A1"/>
    </owl:Class>
    <owl:Class rdf:ID="AAV7A1withupGunnedWeaponsStation">
        <rdfs:comment>AAV7A1 with upGunned weapons station</rdfs:comment>
        <rdfs:label>AAV7A1 with upGunned weapons station</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMCAAV7A1"/>
    </owl:Class>
    <owl:Class rdf:ID="LVTP5A1">
        <rdfs:comment>LVTP5A1 Armored AAV</rdfs:comment>
        <rdfs:label>LVTP5A1 Armored AAV</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USAFV"/>
    </owl:Class>
    <owl:Class rdf:ID="LVTC5CommandModel5">
        <rdfs:comment>LVTC5 (Command, Model 5)</rdfs:comment>
        <rdfs:label>LVTC5 (Command, Model 5)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LVTP5A1"/>
    </owl:Class>
    <owl:Class rdf:ID="LVTE1EngineerModel1">
        <rdfs:comment>LVTE1 (Engineer, Model 1)</rdfs:comment>
        <rdfs:label>LVTE1 (Engineer, Model 1)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LVTP5A1"/>
    </owl:Class>
    <owl:Class rdf:ID="LVTH6HowitzerModel6">
        <rdfs:comment>LVTH6 (Howitzer, Model 6)</rdfs:comment>
        <rdfs:label>LVTH6 (Howitzer, Model 6)</rdfs:label>

```

```

        <rdfs:subClassOf rdf:resource="#LVTP5A1"/>
</owl:Class>
<owl:Class rdf:ID="LVTR1RecoveryModel1">
    <rdfs:comment>LVTR1 (Recovery, Model 1)</rdfs:comment>
    <rdfs:label>LVTR1 (Recovery, Model 1)</rdfs:label>
    <rdfs:subClassOf rdf:resource="#LVTP5A1"/>
</owl:Class>
<owl:Class rdf:ID="CompositeArmoredVehicleCAV">
    <rdfs:comment>Composite Armored Vehicle (CAV)</rdfs:comment>
    <rdfs:label>Composite Armored Vehicle (CAV)</rdfs:label>

    <rdfs:subClassOf rdf:resource="#USAFV"/>
</owl:Class>
<owl:Class rdf:ID="M93ArmoredReconnaissanceVehicle">
    <rdfs:comment>M93 Armored Reconnaissance Vehicle</rdfs:comment>
    <rdfs:label>M93 Armored Reconnaissance Vehicle</rdfs:label>
    <rdfs:subClassOf rdf:resource="#USAFV"/>
</owl:Class>
<owl:Class rdf:ID="FranceSPA">
    <rdfs:comment>France SPA</rdfs:comment>
    <rdfs:label>France SPA</rdfs:label>
    <rdfs:subClassOf rdf:resource="#SelfPropelledArtillery"/>
</owl:Class>
<owl:Class rdf:ID="ItalySPA">
    <rdfs:comment>Italy SPA</rdfs:comment>
    <rdfs:label>Italy SPA</rdfs:label>
    <rdfs:subClassOf rdf:resource="#SelfPropelledArtillery"/>
</owl:Class>
<owl:Class rdf:ID="NKoreaSPA">
    <rdfs:comment>NKorea SPA</rdfs:comment>
    <rdfs:label>NKorea SPA</rdfs:label>
    <rdfs:subClassOf rdf:resource="#SelfPropelledArtillery"/>
</owl:Class>
<owl:Class rdf:ID="CISSPA">
    <rdfs:comment>CIS SPA</rdfs:comment>
    <rdfs:label>CIS SPA</rdfs:label>
    <rdfs:subClassOf rdf:resource="#SelfPropelledArtillery"/>
</owl:Class>
<owl:Class rdf:ID="UKSPA">
    <rdfs:comment>UK SPA</rdfs:comment>
    <rdfs:label>UK SPA</rdfs:label>
    <rdfs:subClassOf rdf:resource="#SelfPropelledArtillery"/>
</owl:Class>
<owl:Class rdf:ID="USSPA">
    <rdfs:comment>US SPA</rdfs:comment>
    <rdfs:label>US SPA</rdfs:label>
    <rdfs:subClassOf rdf:resource="#SelfPropelledArtillery"/>
</owl:Class>
<owl:Class rdf:ID="AUF1155mmHowitzer">
    <rdfs:comment>A UF1 155-mm Howitzer</rdfs:comment>
    <rdfs:label>A UF1 155-mm Howitzer</rdfs:label>
    <rdfs:subClassOf rdf:resource="#FranceSPA"/>
</owl:Class>
<owl:Class rdf:ID="AMX105mmHowitzer">
    <rdfs:comment>AMX 105-mm Howitzer</rdfs:comment>
    <rdfs:label>AMX 105-mm Howitzer</rdfs:label>
    <rdfs:subClassOf rdf:resource="#FranceSPA"/>

```

```

</owl:Class>
<owl:Class rdf:ID="AU50105mmHowitzer">
  <rdfs:comment>AU-50 105-mm Howitzer</rdfs:comment>
  <rdfs:label>AU-50 105-mm Howitzer</rdfs:label>
  <rdfs:subClassOf rdf:resource="#FranceSPA"/>
</owl:Class>
<owl:Class rdf:ID="F3155mmGun">
  <rdfs:comment>F-3 155-mm gun</rdfs:comment>
  <rdfs:label>F-3 155-mm gun</rdfs:label>
  <rdfs:subClassOf rdf:resource="#FranceSPA"/>
</owl:Class>
<owl:Class rdf:ID="M109G">
  <rdfs:comment>M-109G</rdfs:comment>
  <rdfs:label>M-109G</rdfs:label>
  <rdfs:subClassOf rdf:resource="#ItalySPA"/>
</owl:Class>
<owl:Class rdf:about="#M109L">
  <rdfs:comment>M-109L</rdfs:comment>
  <rdfs:label>M-109L</rdfs:label>
  <rdfs:subClassOf rdf:resource="#ItalySPA"/>
</owl:Class>
<owl:Class rdf:about="#M110A2">
  <rdfs:comment>M-110A2</rdfs:comment>
  <rdfs:label>M-110A2</rdfs:label>
  <rdfs:subClassOf rdf:resource="#ItalySPA"/>
</owl:Class>
<owl:Class rdf:ID="M1978SPKoksan170mm">
  <rdfs:comment> M-1978 SP Koksan 170mm</rdfs:comment>
  <rdfs:label> M-1978 SP Koksan 170mm</rdfs:label>
  <rdfs:subClassOf rdf:resource="#NKoreaSPA"/>
</owl:Class>
<owl:Class rdf:ID="M1973152mmgun2S3S0152">
  <rdfs:comment>M-1973 152-mm gun (2S3) (S0-152)</rdfs:comment>
  <rdfs:label>M-1973 152-mm gun (2S3) (S0-152)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="M1974122mmHowitzer2S1S0122">
  <rdfs:comment>M-1974 122-mm Howitzer (2S1) (S0-122)</rdfs:comment>
  <rdfs:label>M-1974 122-mm Howitzer (2S1) (S0-122)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="Frog3RocketLauncher">
  <rdfs:comment>Frog-3 rocket launcher</rdfs:comment>
  <rdfs:label>Frog-3 rocket launcher</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="Frog4RocketLauncher">
  <rdfs:comment>Frog-4 rocket launcher</rdfs:comment>
  <rdfs:label>Frog-4 rocket launcher</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="Frog5RocketLauncher">
  <rdfs:comment>Frog-5 rocket launcher</rdfs:comment>
  <rdfs:label>Frog-5 rocket launcher</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="Frog7RocketLauncher">

```

```

        <rdfs:comment>Frog-7 rocket launcher</rdfs:comment>
        <rdfs:label>Frog-7 rocket launcher</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>
    <owl:Class rdf:ID="SS1Scud">
        <rdfs:comment>SS-1 Scud </rdfs:comment>
        <rdfs:label>SS-1 Scud </rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>
    <owl:Class rdf:ID="ScudA">
        <rdfs:comment>Scud A</rdfs:comment>
        <rdfs:label>Scud A</rdfs:label>
        <rdfs:subClassOf rdf:resource="#SS1Scud"/>
    </owl:Class>
    <owl:Class rdf:ID="ScudB">
        <rdfs:comment>Scud B</rdfs:comment>
        <rdfs:label>Scud B</rdfs:label>
        <rdfs:subClassOf rdf:resource="#SS1Scud"/>
    </owl:Class>
    <owl:Class rdf:ID="ScudC">
        <rdfs:comment>Scud C</rdfs:comment>
        <rdfs:label>Scud C</rdfs:label>
        <rdfs:subClassOf rdf:resource="#SS1Scud"/>
    </owl:Class>
    <owl:Class rdf:ID="BM1417140mmRocketLauncher">
        <rdfs:comment>BM-14-17 140-mm rocket launcher</rdfs:comment>
        <rdfs:label>BM-14-17 140-mm rocket launcher</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>
    <owl:Class rdf:ID="BM21122mmRocketLauncher">
        <rdfs:comment>BM-21 122-mm rocket launcher</rdfs:comment>
        <rdfs:label>BM-21 122-mm rocket launcher</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>
    <owl:Class rdf:ID="M1975120mmRocketLauncher">
        <rdfs:comment>M-1975 120-mm rocket launcher</rdfs:comment>
        <rdfs:label>M-1975 120-mm rocket launcher</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>
    <owl:Class rdf:ID="BM24240mmRocketLauncher">
        <rdfs:comment>BM-24 240-mm rocket launcher</rdfs:comment>
        <rdfs:label>BM-24 240-mm rocket launcher</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>
    <owl:Class rdf:ID="BM25250mmRocketLauncher">
        <rdfs:comment>BM-25 250-mm rocket launcher</rdfs:comment>
        <rdfs:label>BM-25 250-mm rocket launcher</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>
    <owl:Class rdf:about="#GMZTML">
        <rdfs:comment>GMZ TML</rdfs:comment>
        <rdfs:label>GMZ TML</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>
    <owl:Class rdf:ID="ZSU234Quad23mmAAA">
        <rdfs:comment>ZSU-23/4 Quad 23-mm AAA</rdfs:comment>
        <rdfs:label>ZSU-23/4 Quad 23-mm AAA</rdfs:label>

```

```

        <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="SA6SAM">
    <rdfs:comment>SA-6 SAM</rdfs:comment>
    <rdfs:label>SA-6 SAM</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="SA6A">
    <rdfs:comment>SA-6A</rdfs:comment>
    <rdfs:label>SA-6A</rdfs:label>
    <rdfs:subClassOf rdf:resource="#SA6SAM"/>
</owl:Class>
<owl:Class rdf:ID="SA6B">
    <rdfs:comment>SA-6B</rdfs:comment>
    <rdfs:label>SA-6B</rdfs:label>
    <rdfs:subClassOf rdf:resource="#SA6SAM"/>
</owl:Class>
<owl:Class rdf:ID="SA9SAM">
    <rdfs:comment>SA-9 SAM</rdfs:comment>
    <rdfs:label>SA-9 SAM</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="SA13SAM">
    <rdfs:comment>SA-13 SAM</rdfs:comment>
    <rdfs:label>SA-13 SAM</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="Strela10M2">
    <rdfs:comment>Strela-10M2</rdfs:comment>
    <rdfs:label>Strela-10M2</rdfs:label>
    <rdfs:subClassOf rdf:resource="#SA13SAM"/>
</owl:Class>
<owl:Class rdf:ID="Strela10M3">
    <rdfs:comment>Strela-10M3</rdfs:comment>
    <rdfs:label>Strela-10M3</rdfs:label>
    <rdfs:subClassOf rdf:resource="#SA13SAM"/>
</owl:Class>
<owl:Class rdf:ID="System2S6Quad30mmSA19AD">
    <rdfs:comment>2S6 Quad 30-mm/SA-19 AD system</rdfs:comment>
    <rdfs:label>2S6 Quad 30-mm/SA-19 AD system</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="Mortar2S4M1975240mm">
    <rdfs:comment>2S4 M-1975 240-mm mortar</rdfs:comment>
    <rdfs:label>2S4 M-1975 240-mm mortar</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="gun2S7M1975203mm">
    <rdfs:comment>2S7 M-1975 203-mm gun</rdfs:comment>
    <rdfs:label>2S7 M-1975 203-mm gun</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="M1976152mmgun2S5MSTAB">
    <rdfs:comment>M-1976 152-mm gun (2S5)(MSTA-B)</rdfs:comment>
    <rdfs:label>M-1976 152-mm gun (2S5)(MSTA-B)</rdfs:label>
    <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>

```

```

<owl:Class rdf:ID="MSTASaka152mm2S19">
  <rdfs:comment>152-mm 2S19 (aka MSTA-S)</rdfs:comment>
  <rdfs:label>152-mm 2S19 (aka MSTA-S)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="HowitzerMortar120mm2S9S0120">
  <rdfs:comment>120-mm Howitzer/mortar (2S9) (S0-120)</rdfs:comment>
  <rdfs:label>120-mm Howitzer/mortar (2S9) (S0-120)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="HowitzerMortar120mm2S23">
  <rdfs:comment>120-mm Howitzer/mortar (2S23)</rdfs:comment>
  <rdfs:label>120-mm Howitzer/mortar (2S23)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="Smerch300mmBM301412RoundMultipleRocketSystems9A52">
  <rdfs:comment>300-mm BM-30 14/12-round multiple rocket systems (9A52
Smerch)</rdfs:comment>
  <rdfs:label>300-mm BM-30 14/12-round multiple rocket systems (9A52
Smerch)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="Uragan220mmBM2216RoundMultipleRocketSystemM1977">
  <rdfs:comment>220-mm BM-22 16-round multiple rocket system (M1977
Uragan)</rdfs:comment>
  <rdfs:label>220-mm BM-22 16-round multiple rocket system (M1977
Uragan)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="MultipleRocketSystem200mm4RoundBMD20">
  <rdfs:comment>200-mm 4-round BMD-20 multiple rocket
system</rdfs:comment>
  <rdfs:label>200-mm 4-round BMD-20 multiple rocket
system</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="MultipleRocketSystem140mm16RoundRPU14">
  <rdfs:comment>140-mm 16-round RPU-14 multiple rocket
system</rdfs:comment>
  <rdfs:label>140-mm 16-round RPU-14 multiple rocket
system</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="ZSU572twin57mmantiaircraftgunSystem">
  <rdfs:comment>ZSU-57-2 twin 57-mm anti-aircraft gun
system</rdfs:comment>
  <rdfs:label>ZSU-57-2 twin 57-mm anti-aircraft gun
system</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="BTR40AwZTPU2Mount">
  <rdfs:comment>BTR-40A w/ ZTPU-2 mount</rdfs:comment>
  <rdfs:label>BTR-40A w/ ZTPU-2 mount</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="BTR152AwZTPU2Mount">
  <rdfs:comment>BTR-152A w/ ZTPU-2 mount</rdfs:comment>

```



```

        <rdfs:label>BTR-152A w/ ZTPU-2 mount</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR152Dwtwin14.5mmZPU2Mount">
        <rdfs:comment>BTR-152D w/ twin 14.5-mm ZPU-2 mount</rdfs:comment>
        <rdfs:label>BTR-152D w/ twin 14.5-mm ZPU-2 mount</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR152wtwin23mmZU23">
        <rdfs:comment>BTR-152 w/ twin 23-mm ZU-23</rdfs:comment>
        <rdfs:label>BTR-152 w/ twin 23-mm ZU-23</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>
    <owl:Class rdf:ID="BTR152WithM53MGs">
        <rdfs:comment>BTR-152 with M53 MGs</rdfs:comment>
        <rdfs:label>BTR-152 with M53 MGs</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>
    <owl:Class rdf:ID="SA4GanefSAM">
        <rdfs:comment>SA-4 Ganef SAM</rdfs:comment>
        <rdfs:label>SA-4 Ganef SAM</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>
    <owl:Class rdf:ID="SA8GeckoSAM">
        <rdfs:comment>SA-8 Gecko SAM</rdfs:comment>
        <rdfs:label>SA-8 Gecko SAM</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>
    <owl:Class rdf:ID="SA8">
        <rdfs:comment>SA-8</rdfs:comment>
        <rdfs:label>SA-8</rdfs:label>
        <rdfs:subClassOf rdf:resource="#SA8GeckoSAM"/>
    </owl:Class>
    <owl:Class rdf:ID="SA8A">
        <rdfs:comment>SA-8A</rdfs:comment>
        <rdfs:label>SA-8A</rdfs:label>
        <rdfs:subClassOf rdf:resource="#SA8GeckoSAM"/>
    </owl:Class>
    <owl:Class rdf:ID="SA8B">
        <rdfs:comment>SA-8B</rdfs:comment>
        <rdfs:label>SA-8B</rdfs:label>
        <rdfs:subClassOf rdf:resource="#SA8GeckoSAM"/>
    </owl:Class>
    <owl:Class rdf:ID="SA10BMod1GrumbleSAM">
        <rdfs:comment>SA-10B Mod 1 Grumble SAM</rdfs:comment>
        <rdfs:label>SA-10B Mod 1 Grumble SAM</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>
    <owl:Class rdf:ID="SA11GadflySAM">
        <rdfs:comment>SA-11 Gadfly SAM</rdfs:comment>
        <rdfs:label>SA-11 Gadfly SAM</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>
    <owl:Class rdf:ID="SA12AGladiatorSAM">
        <rdfs:comment>SA-12A Gladiator SAM</rdfs:comment>
        <rdfs:label>SA-12A Gladiator SAM</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSPA"/>
    </owl:Class>

```

```

</owl:Class>
<owl:Class rdf:ID="SAX12BGiantSAM">
  <rdfs:comment>SA-X-12B Giant SAM</rdfs:comment>
  <rdfs:label>SA-X-12B Giant SAM</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="SAX12BSAMrailwSS24">
  <rdfs:comment>SA-X-12B SAM (rail w/ SS-24)</rdfs:comment>
  <rdfs:label>SA-X-12B SAM (rail w/ SS-24)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="SA15GauntletSAM">
  <rdfs:comment>SA-15 Gauntlet SAM</rdfs:comment>
  <rdfs:label>SA-15 Gauntlet SAM</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="SAX17SAMreplacesSA11">
  <rdfs:comment>SA-X-17 SAM (replaces SA-11)</rdfs:comment>
  <rdfs:label>SA-X-17 SAM (replaces SA-11)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="SS21">
  <rdfs:comment>SS-21</rdfs:comment>
  <rdfs:label>SS-21</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="Gun2S31120mmCombination">
  <rdfs:comment>2S31 120-mm Combination Gun</rdfs:comment>
  <rdfs:label>2S31 120-mm Combination Gun</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSPA"/>
</owl:Class>
<owl:Class rdf:ID="FV433Abbot105mmHowitzer">
  <rdfs:comment>FV 433 Abbot 105-mm Howitzer</rdfs:comment>
  <rdfs:label>FV 433 Abbot 105-mm Howitzer</rdfs:label>
  <rdfs:subClassOf rdf:resource="#UKSPA"/>
</owl:Class>
<owl:Class rdf:ID="TrackedRapier">
  <rdfs:comment>Tracked Rapier</rdfs:comment>
  <rdfs:label>Tracked Rapier</rdfs:label>
  <rdfs:subClassOf rdf:resource="#UKSPA"/>
</owl:Class>
<owl:Class rdf:ID="StormerHVMCarrier">
  <rdfs:comment>Stormer HVM Carrier</rdfs:comment>
  <rdfs:label>Stormer HVM Carrier</rdfs:label>
  <rdfs:subClassOf rdf:resource="#UKSPA"/>
</owl:Class>
<owl:Class rdf:ID="M270MultipleLaunchRocketSystemMLRS">
  <rdfs:comment>M270 Multiple Launch Rocket System
(MLRS)</rdfs:comment>
  <rdfs:label>M270 Multiple Launch Rocket System (MLRS)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="M110203mm8inchSPHowitzer">
  <rdfs:comment>M110 203-mm (8-inch) SP Howitzer</rdfs:comment>
  <rdfs:label>M110 203-mm (8-inch) SP Howitzer</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>

```

```

<owl:Class rdf:ID="M110">
  <rdfs:comment>M110</rdfs:comment>
  <rdfs:label>M110</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="M110A2">
  <rdfs:comment>M110A2</rdfs:comment>
  <rdfs:label>M110A2</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="M109">
  <rdfs:comment>M109</rdfs:comment>
  <rdfs:label>M109</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="M109A1">
  <rdfs:comment>M109A1</rdfs:comment>
  <rdfs:label>M109A1</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M109"/>
</owl:Class>
<owl:Class rdf:ID="M109A2">
  <rdfs:comment>M109A2</rdfs:comment>
  <rdfs:label>M109A2</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M109"/>
</owl:Class>
<owl:Class rdf:ID="M109A3">
  <rdfs:comment>M109A3</rdfs:comment>
  <rdfs:label>M109A3</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M109"/>
</owl:Class>
<owl:Class rdf:ID="M109A4">
  <rdfs:comment>M109A4</rdfs:comment>
  <rdfs:label>M109A4</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M109"/>
</owl:Class>
<owl:Class rdf:ID="M109A5">
  <rdfs:comment>M109A5</rdfs:comment>
  <rdfs:label>M109A5</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M109"/>
</owl:Class>
<owl:Class rdf:ID="M109A6">
  <rdfs:comment>M109A6</rdfs:comment>
  <rdfs:label>M109A6</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M109"/>
</owl:Class>
<owl:Class rdf:ID="M109L">
  <rdfs:comment>M109L</rdfs:comment>
  <rdfs:label>M109L</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M109"/>
</owl:Class>
<owl:Class rdf:ID="GRoundLaunchedCruiseMissileGLCMLauncher">
  <rdfs:comment>Ground Launched Cruise Missile (GLCM)
launcher</rdfs:comment>
  <rdfs:label>Ground Launched Cruise Missile (GLCM)
launcher</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>

```

```

<owl:Class rdf:ID="M163VulcanAntiaircraftgun">
  <rdfs:comment>M163 Vulcan Anti-aircraft gun</rdfs:comment>
  <rdfs:label>M163 Vulcan Anti-aircraft gun</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="M107175mmgun">
  <rdfs:comment>M107-175 mm gun</rdfs:comment>
  <rdfs:label>M107-175 mm gun</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="AdvancedFieldArtillerySystemAFAS">
  <rdfs:comment>Advanced Field Artillery System (AFAS)</rdfs:comment>
  <rdfs:label>Advanced Field Artillery System (AFAS)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="LiquidpropellantArtillerySystem">
  <rdfs:comment>Liquid-propellant Artillery System</rdfs:comment>
  <rdfs:label>Liquid-propellant Artillery System</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="M42twin40mmSPantiaircraftgun">
  <rdfs:comment>M42 twin 40-mm SP anti-aircraft gun</rdfs:comment>
  <rdfs:label>M42 twin 40-mm SP anti-aircraft gun</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="GeneralElectricVulcanCommando20mmSPAirDefenseADSystem">
  <rdfs:comment>General Electric Vulcan-Commando 20-mm SP Air Defense
(AD) system</rdfs:comment>
  <rdfs:label>General Electric Vulcan-Commando 20-mm SP Air Defense
(AD) system</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="BoeingAvengerpedestalMountedStingerSPADSystem">
  <rdfs:comment>Boeing Avenger pedestal-mounted Stinger SP AD
System</rdfs:comment>
  <rdfs:label>Boeing Avenger pedestal-mounted Stinger SP AD
System</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="RaytheonLoralAeronutronicSaberADmissileSystem">
  <rdfs:comment>Raytheon/Loral Aeronutronic Saber AD missile
system</rdfs:comment>
  <rdfs:label>Raytheon/Loral Aeronutronic Saber AD missile
system</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="LTVCrossbowpedestalMountedweaponSystem">
  <rdfs:comment>LTV Crossbow pedestal-mounted weapon
system</rdfs:comment>
  <rdfs:label>LTV Crossbow pedestal-mounted weapon system</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="FiberOpticGuidedMissileFOGM">
  <rdfs:comment>Fiber Optic Guided Missile (FOG-M)</rdfs:comment>
  <rdfs:label>Fiber Optic Guided Missile (FOG-M)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>

```

```

<owl:Class rdf:ID="M48">
  <rdfs:comment>M48</rdfs:comment>
  <rdfs:label>M48</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:about="#M48A1">
  <rdfs:comment>M48A1</rdfs:comment>
  <rdfs:label>M48A1</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M48"/>
</owl:Class>
<owl:Class rdf:about="#M48A2">
  <rdfs:comment>M48A2</rdfs:comment>
  <rdfs:label>M48A2</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M48"/>
</owl:Class>
<owl:Class rdf:about="#M48A3">
  <rdfs:comment>M48A3</rdfs:comment>
  <rdfs:label>M48A3</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M48"/>
</owl:Class>
<owl:Class rdf:ID="BlockVIIILowAltitudeSAMSystem">
  <rdfs:comment>Block VII Low-Altitude SAM System</rdfs:comment>
  <rdfs:label>Block VII Low-Altitude SAM System</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="LoralAeronutronicSAMSystem">
  <rdfs:comment>Loral Aeronutronic SAM System</rdfs:comment>
  <rdfs:label>Loral Aeronutronic SAM System</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="ElectronicSpaceCorpGroundLaunchedHellfireHeavyGLHH">
  <rdfs:comment>Electronic and Space Corp Ground-Launched Hellfire:
Heavy (GLH:H)</rdfs:comment>
  <rdfs:label>Electronic and Space Corp Ground-Launched Hellfire:
Heavy (GLH:H)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="LineofSightAntiTankLOSAT">
  <rdfs:comment>Line-of-Sight Anti-Tank (LOSAT)</rdfs:comment>
  <rdfs:label>Line-of-Sight Anti-Tank (LOSAT)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSPA"/>
</owl:Class>
<owl:Class rdf:ID="CISSWUV">
  <rdfs:comment>CISSWUV</rdfs:comment>
  <rdfs:label>CISSWUV</rdfs:label>
  <rdfs:subClassOf rdf:resource="#SmallWheeledUtilityVehicle"/>
</owl:Class>
<owl:Class rdf:ID="UKSWUV">
  <rdfs:comment>UKSWUV</rdfs:comment>
  <rdfs:label>UKSWUV</rdfs:label>
  <rdfs:subClassOf rdf:resource="#SmallWheeledUtilityVehicle"/>
</owl:Class>
<owl:Class rdf:ID="USSWUV">
  <rdfs:comment>USSWUV</rdfs:comment>
  <rdfs:label>USSWUV</rdfs:label>
  <rdfs:subClassOf rdf:resource="#SmallWheeledUtilityVehicle"/>
</owl:Class>

```

```

<owl:Class rdf:ID="GAZ694x4LightVehicle">
  <rdfs:comment>GAZ-69 4x4 light vehicle</rdfs:comment>
  <rdfs:label>GAZ-69 4x4 light vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSWUV"/>
</owl:Class>
<owl:Class rdf:ID="UAZ469B4x4600kgLightVehicle">
  <rdfs:comment>UAZ-469B 4x4 600-kg light vehicle</rdfs:comment>
  <rdfs:label>UAZ-469B 4x4 600-kg light vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LuAZ967MAmphibiousBattlefieldSupportVehicle">
  <rdfs:comment>LuAZ-967M amphibious battlefield support
vehicle</rdfs:comment>
  <rdfs:label>LuAZ-967M amphibious battlefield support
vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LuAZ9694x4LightVehicle">
  <rdfs:comment>LuAZ-969 4x4 light vehicle</rdfs:comment>
  <rdfs:label>LuAZ-969 4x4 light vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSWUV"/>
</owl:Class>
<owl:Class rdf:ID="GAZ69A4x4LightVehicle">
  <rdfs:comment>GAZ-69A 4x4 light vehicle</rdfs:comment>
  <rdfs:label>GAZ-69A 4x4 light vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSWUV"/>
</owl:Class>
<owl:Class rdf:ID="UAZ452D4x4800kgLightVehicle">
  <rdfs:comment>UAZ-452D 4x4 800-kg light vehicle</rdfs:comment>
  <rdfs:label>UAZ-452D 4x4 800-kg light vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LWBLandRover">
  <rdfs:comment>LWB Land Rover</rdfs:comment>
  <rdfs:label>LWB Land Rover</rdfs:label>
  <rdfs:subClassOf rdf:resource="#UKSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LandRover6x6Truck">
  <rdfs:comment>Land Rover 6x6 truck</rdfs:comment>
  <rdfs:label>Land Rover 6x6 truck</rdfs:label>
  <rdfs:subClassOf rdf:resource="#UKSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LTVHMMWVM998">
  <rdfs:comment>LTV HMMWV M998</rdfs:comment>
  <rdfs:label>LTV HMMWV M998</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LTVHMMWVM1000">
  <rdfs:comment>LTV HMMWV M1000</rdfs:comment>
  <rdfs:label>LTV HMMWV M1000</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LTVHMMWVM1002">
  <rdfs:comment>LTV HMMWV M1002</rdfs:comment>
  <rdfs:label>LTV HMMWV M1002</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>

```

```

<owl:Class rdf:ID="LTVHMMWVM1004">
  <rdfs:comment>LTV HMMWV M1004</rdfs:comment>
  <rdfs:label>LTV HMMWV M1004</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LTVHMMWVM1006">
  <rdfs:comment>LTV HMMWV M1006</rdfs:comment>
  <rdfs:label>LTV HMMWV M1006</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LTVHMMWVM1008">
  <rdfs:comment>LTV HMMWV M1008</rdfs:comment>
  <rdfs:label>LTV HMMWV M1008</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LTVHMMWVM1010">
  <rdfs:comment>LTV HMMWV M1010</rdfs:comment>
  <rdfs:label>LTV HMMWV M1010</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LTVHMMWVM1012">
  <rdfs:comment>LTV HMMWV M1012</rdfs:comment>
  <rdfs:label>LTV HMMWV M1012</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LTVHMMWVM1014">
  <rdfs:comment>LTV HMMWV M1014</rdfs:comment>
  <rdfs:label>LTV HMMWV M1014</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LTVHMMWVM1016">
  <rdfs:comment>LTV HMMWV M1016</rdfs:comment>
  <rdfs:label>LTV HMMWV M1016</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LTVHMMWVM1018">
  <rdfs:comment>LTV HMMWV M1018</rdfs:comment>
  <rdfs:label>LTV HMMWV M1018</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LTVHMMWVM1020">
  <rdfs:comment>LTV HMMWV M1020</rdfs:comment>
  <rdfs:label>LTV HMMWV M1020</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LTVHMMWVM1022">
  <rdfs:comment>LTV HMMWV M1022</rdfs:comment>
  <rdfs:label>LTV HMMWV M1022</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LTVHMMWVM1024">
  <rdfs:comment>LTV HMMWV M1024</rdfs:comment>
  <rdfs:label>LTV HMMWV M1024</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="LTVHMMWVM1026">
  <rdfs:comment>LTV HMMWV M1026</rdfs:comment>

```

```

        <rdfs:label>LTV HMMWV M1026</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="LTVHMMWVM1028">
        <rdfs:comment>LTV HMMWV M1028</rdfs:comment>
        <rdfs:label>LTV HMMWV M1028</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M998CargoTroopCarrierWithoutWinch">
        <rdfs:comment>M998 cargo/troop carrier without winch</rdfs:comment>
        <rdfs:label>M998 cargo/troop carrier without winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LTVHMMWVM998"/>
    </owl:Class>
    <owl:Class rdf:ID="M1038CargoTroopCarrierWithWinch">
        <rdfs:comment>M1038 cargo/troop carrier with winch</rdfs:comment>
        <rdfs:label>M1038 cargo/troop carrier with winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LTVHMMWVM1000"/>
    </owl:Class>
    <owl:Class rdf:ID="M966TOWmissileCarrierBasicArmorWithoutWinch">
        <rdfs:comment>M966 TOW missile carrier, basic armor, without
winch</rdfs:comment>
        <rdfs:label>M966 TOW missile carrier, basic armor, without
winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LTVHMMWVM1002"/>
    </owl:Class>
    <owl:Class rdf:ID="M1036TOWmissileCarrierBasicArmorWithWinch">
        <rdfs:comment>M1036 TOW missile carrier, basic armor, with
winch</rdfs:comment>
        <rdfs:label>M1036 TOW missile carrier, basic armor, with
winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LTVHMMWVM1004"/>
    </owl:Class>
    <owl:Class rdf:ID="M1045TOWmissileCarrierSupplementalArmorWithoutWinch">
        <rdfs:comment>M1045 TOW missile carrier, supplemental armor, without
winch</rdfs:comment>
        <rdfs:label>M1045 TOW missile carrier, supplemental armor, without
winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LTVHMMWVM1006"/>
    </owl:Class>
    <owl:Class rdf:ID="M1046TOWmissileCarrierSupplementalArmorWithWinch">
        <rdfs:comment>M1046 TOW missile carrier, supplemental armor, with
winch</rdfs:comment>
        <rdfs:label>M1046 TOW missile carrier, supplemental armor, with
winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LTVHMMWVM1008"/>
    </owl:Class>
    <owl:Class rdf:ID="M1025ArmamentCarrierBasicArmorWithoutWinch">
        <rdfs:comment>M1025 armament carrier, basic armor, without
winch</rdfs:comment>
        <rdfs:label>M1025 armament carrier, basic armor, without
winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LTVHMMWVM1010"/>
    </owl:Class>
    <owl:Class rdf:ID="M1026ArmamentCarrierBasicArmorWithWinch">
        <rdfs:comment>M1026 armament carrier, basic armor, with
winch</rdfs:comment>

```



```

        <rdfs:label>M1026 armament carrier, basic armor, with
winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LTVHMMWVM1012"/>
    </owl:Class>
    <owl:Class rdf:ID="M1043ArmamentCarrierSupplementalArmorWithoutWinch">
        <rdfs:comment>M1043 armament carrier, supplemental armor, without
winch</rdfs:comment>
        <rdfs:label>M1043 armament carrier, supplemental armor, without
winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LTVHMMWVM1014"/>
    </owl:Class>
    <owl:Class rdf:ID="M1044ArmamentCarrierSupplementalArmorWithWinch">
        <rdfs:comment>M1044 armament carrier, supplemental armor, with
winch</rdfs:comment>
        <rdfs:label>M1044 armament carrier, supplemental armor, with
winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LTVHMMWVM1016"/>
    </owl:Class>
    <owl:Class rdf:ID="M996MiniAmbulance2litterBasicArmor">
        <rdfs:comment>M996 mini-ambulance, 2-litter, basic
armor</rdfs:comment>
        <rdfs:label>M996 mini-ambulance, 2-litter, basic armor</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LTVHMMWVM1018"/>
    </owl:Class>
    <owl:Class rdf:ID="M997MaxiAmbulance4litterBasicArmor">
        <rdfs:comment>M997 maxi-ambulance, 4-litter, basic
armor</rdfs:comment>
        <rdfs:label>M997 maxi-ambulance, 4-litter, basic armor</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LTVHMMWVM1020"/>
    </owl:Class>
    <owl:Class rdf:ID="M1035softtopAmbulance2litter">
        <rdfs:comment>M1035 soft-top ambulance, 2-litter</rdfs:comment>
        <rdfs:label>M1035 soft-top ambulance, 2-litter</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LTVHMMWVM1022"/>
    </owl:Class>
    <owl:Class rdf:ID="M1037S250ShelterCarrierWithoutWinch">
        <rdfs:comment>M1037 S-250 shelter carrier, without
winch</rdfs:comment>
        <rdfs:label>M1037 S-250 shelter carrier, without winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LTVHMMWVM1024"/>
    </owl:Class>
    <owl:Class rdf:ID="M1042S250ShelterCarrierWithWinch">
        <rdfs:comment>M1042 S-250 shelter carrier, with winch</rdfs:comment>
        <rdfs:label>M1042 S-250 shelter carrier, with winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LTVHMMWVM1026"/>
    </owl:Class>
    <owl:Class rdf:ID="M1069TractorforM119105mmLightgun">
        <rdfs:comment>M1069 tractor for M119 105-mm light gun</rdfs:comment>
        <rdfs:label>M1069 tractor for M119 105-mm light gun</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LTVHMMWVM1028"/>
    </owl:Class>
    <owl:Class rdf:ID="WarriorNMC40LongrangeFastAttackVehicleFAV">
        <rdfs:comment>Warrior NMC-40 Long-range Fast Attack Vehicle
(FAV)</rdfs:comment>
        <rdfs:label>Warrior NMC-40 Long-range Fast Attack Vehicle
(FAV)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>

```

```

</owl:Class>
<owl:Class rdf:ID="ChenoWithFAVLightStrikeVehicleLSV">
  <rdfs:comment>Chenowith FAV/Light Strike Vehicle
(LSV)</rdfs:comment>
  <rdfs:label>Chenowith FAV/Light Strike Vehicle (LSV)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="TowedMICLIC">
  <rdfs:comment>TowedMICLIC</rdfs:comment>
  <rdfs:label>TowedMICLIC</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="M58A3wRocket">
  <rdfs:comment>M58A3 w/rocket</rdfs:comment>
  <rdfs:label>M58A3 w/rocket</rdfs:label>
  <rdfs:subClassOf rdf:resource="#TowedMICLIC"/>
</owl:Class>
<owl:Class rdf:ID="M58A4">
  <rdfs:comment>M58A4</rdfs:comment>
  <rdfs:label>M58A4</rdfs:label>
  <rdfs:subClassOf rdf:resource="#TowedMICLIC"/>
</owl:Class>
<owl:Class rdf:ID="M59">
  <rdfs:comment>M59</rdfs:comment>
  <rdfs:label>M59</rdfs:label>
  <rdfs:subClassOf rdf:resource="#TowedMICLIC"/>
</owl:Class>
<owl:Class rdf:ID="M58A3woRocket">
  <rdfs:comment>M58A3 w/o rocket</rdfs:comment>
  <rdfs:label>M58A3 w/o rocket</rdfs:label>
  <rdfs:subClassOf rdf:resource="#TowedMICLIC"/>
</owl:Class>
<owl:Class rdf:ID="Teledyne4x4725kgLightforcesVehicle">
  <rdfs:comment>Teledyne 4x4 725-kg light forces
vehicle</rdfs:comment>
  <rdfs:label>Teledyne 4x4 725-kg light forces vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="TPC4x4909kgRapidMultiPurposeVehicleRAMPV">
  <rdfs:comment>TPC 4x4 909-kg Rapid Multi-purpose Vehicle (RAMP-
V)</rdfs:comment>
  <rdfs:label>TPC 4x4 909-kg Rapid Multi-purpose Vehicle (RAMP-
V)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="M1514x4362kgLightVehicleandvariants">
  <rdfs:comment>M151 4x4 362-kg light vehicle and
variants</rdfs:comment>
  <rdfs:label>M151 4x4 362-kg light vehicle and variants</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="Jeep4x4LightVehicle">
  <rdfs:comment>Jeep 4x4 light vehicle</rdfs:comment>
  <rdfs:label>Jeep 4x4 light vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USSWUV"/>
</owl:Class>
<owl:Class rdf:ID="JeepXJ4x4LightTruckwagonseries">

```

```

        <rdfs:comment>Jeep XJ 4x4 light truck/wagon series</rdfs:comment>
        <rdfs:label>Jeep XJ 4x4 light truck/wagon series</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M38series4x4363kgLightVehicleCJ3A">
        <rdfs:comment>M38-series 4x4 363-kg light vehicle (CJ-
3A)</rdfs:comment>
        <rdfs:label>M38-series 4x4 363-kg light vehicle (CJ-3A)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="CargoTruck680kg">
        <rdfs:comment>CargoTruck680kg</rdfs:comment>
        <rdfs:label>CargoTruck680kg</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M37">
        <rdfs:comment>M37</rdfs:comment>
        <rdfs:label>M37</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CargoTruck680kg"/>
    </owl:Class>
    <owl:Class rdf:ID="M42">
        <rdfs:comment>M42</rdfs:comment>
        <rdfs:label>M42</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CargoTruck680kg"/>
    </owl:Class>
    <owl:Class rdf:ID="M43">
        <rdfs:comment>M43</rdfs:comment>
        <rdfs:label>M43</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CargoTruck680kg"/>
    </owl:Class>
    <owl:Class rdf:ID="M201">
        <rdfs:comment>M201</rdfs:comment>
        <rdfs:label>M201</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CargoTruck680kg"/>
    </owl:Class>
    <owl:Class
rdf:ID="StewartandStevensonServicesIncSS2006x6multiPurposeLightVehicle">
        <rdfs:comment>Stewart and Stevenson Services Inc SS-200 6x6 multi-
purpose light vehicle</rdfs:comment>
        <rdfs:label>Stewart and Stevenson Services Inc SS-200 6x6 multi-
purpose light vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="CommercialUtilityCargoVehicleCUCV">
        <rdfs:comment>Commercial Utility Cargo Vehicle (CUCV)</rdfs:comment>
        <rdfs:label>Commercial Utility Cargo Vehicle (CUCV)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1008TruckCargotactical114ton4x4">
        <rdfs:comment>M1008, truck, cargo, tactical 1-1/4 ton,
4x4</rdfs:comment>
        <rdfs:label>M1008, truck, cargo, tactical 1-1/4 ton,
4x4</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1009Truckutilitytactical34ton4x4">

```

```

        <rdfs:comment>M1009, truck, utility, tactical 3/4 ton,
4x4</rdfs:comment>
        <rdfs:label>M1009, truck, utility, tactical 3/4 ton,
4x4</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1010TruckAmbulancetactical114ton4x4">
        <rdfs:comment>M1010, truck, ambulance, tactical 1-1/4 ton,
4x4</rdfs:comment>
        <rdfs:label>M1010, truck, ambulance, tactical 1-1/4 ton,
4x4</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1031Truckchassistactical114ton4x4">
        <rdfs:comment>M1031, truck, chassis, tactical 1-1/4 ton,
4x4</rdfs:comment>
        <rdfs:label>M1031, truck, chassis, tactical 1-1/4 ton,
4x4</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1028TruckCargoShelterCarrieractical114">
        <rdfs:comment>M1028, truck, cargo, shelter carrier, tactical 1-
1/4</rdfs:comment>
        <rdfs:label>M1028, truck, cargo, shelter carrier, tactical 1-
1/4</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M7154x4114tonTruckAM715series4x4114tonCargoTrucks">
        <rdfs:comment>M715 4x4 1-1/4 ton truck, AM715-series 4x4 1-1/4 ton
cargo trucks</rdfs:comment>
        <rdfs:label>M715 4x4 1-1/4 ton truck, AM715-series 4x4 1-1/4 ton
cargo trucks</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="JeepAM7204x41135kgLightTruck">
        <rdfs:comment>Jeep AM 720 4x4 1135-kg light truck</rdfs:comment>
        <rdfs:label>Jeep AM 720 4x4 1135-kg light truck</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M8804x41133kg">
        <rdfs:comment>M880 4x4 1133 kg</rdfs:comment>
        <rdfs:label>M880 4x4 1133 kg</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M8904x21133kg">
        <rdfs:comment>M890 4x2 1133 kg</rdfs:comment>
        <rdfs:label>M890 4x2 1133 kg</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USSWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="CISLWUV">
        <rdfs:comment>CISLWUV</rdfs:comment>
        <rdfs:label>CISLWUV</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LargeWheeledUtilityVehicle"/>
    </owl:Class>
    <owl:Class rdf:ID="UKLWUV">
        <rdfs:comment>UKLWUV</rdfs:comment>
        <rdfs:label>UKLWUV</rdfs:label>

```

```

        <rdfs:subClassOf rdf:resource="#LargeWheeledUtilityVehicle"/>
    </owl:Class>
    <owl:Class rdf:ID="PZM2regimentalTrenchDiggingMachine">
        <rdfs:comment>PZM-2 regimental trench-digging machine</rdfs:comment>
        <rdfs:label>PZM-2 regimental trench-digging machine</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="ZIL1316x63500kgTruck">
        <rdfs:comment>ZIL-131 6x6 3500-kg truck</rdfs:comment>
        <rdfs:label>ZIL-131 6x6 3500-kg truck</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="ZIL1516x62500kgTruck">
        <rdfs:comment>ZIL-151 6x6 2500-kg truck</rdfs:comment>
        <rdfs:label>ZIL-151 6x6 2500-kg truck</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="ZIL1576x62500kgTruck">
        <rdfs:comment>ZIL-157 6x6 2500-kg truck</rdfs:comment>
        <rdfs:label>ZIL-157 6x6 2500-kg truck</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="GAZ664x42000kgTruck">
        <rdfs:comment>GAZ-66 4x4 2000-kg truck</rdfs:comment>
        <rdfs:label>GAZ-66 4x4 2000-kg truck</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="Ural3756x64000kgTruck">
        <rdfs:comment>Ural-375 6x6 4000-kg truck</rdfs:comment>
        <rdfs:label>Ural-375 6x6 4000-kg truck</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="KamAZ4310">
        <rdfs:comment>KamAZ-4310</rdfs:comment>
        <rdfs:label>KamAZ-4310</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="KrAZ255B">
        <rdfs:comment>KrAZ255B</rdfs:comment>
        <rdfs:label>KrAZ255B</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="Ural43206x64500kgTrucks">
        <rdfs:comment>Ural-4320 6x6 4500-kg trucks</rdfs:comment>
        <rdfs:label>Ural-4320 6x6 4500-kg trucks</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="KrAZ255B6x67500kgTruck">
        <rdfs:comment>KrAZ-255B 6x6 7500-kg truck</rdfs:comment>
        <rdfs:label>KrAZ-255B 6x6 7500-kg truck</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="FuelService">
        <rdfs:comment>Fuel service</rdfs:comment>
        <rdfs:label>Fuel service</rdfs:label>
        <rdfs:subClassOf rdf:resource="#KrAZ255B"/>
    </owl:Class>

```

```

<owl:Class rdf:ID="Ural375D6x6RecoveryVehicle">
  <rdfs:comment>Ural-375D 6x6 recovery vehicle</rdfs:comment>
  <rdfs:label>Ural-375D 6x6 recovery vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISLWUV"/>
</owl:Class>
<owl:Class rdf:ID="Ural43206x6RecoveryVehicle">
  <rdfs:comment>Ural-4320 6x6 recovery vehicle</rdfs:comment>
  <rdfs:label>Ural-4320 6x6 recovery vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISLWUV"/>
</owl:Class>
<owl:Class rdf:ID="KETL6x6RecoveryTruck">
  <rdfs:comment>KET-L 6x6 recovery truck</rdfs:comment>
  <rdfs:label>KET-L 6x6 recovery truck</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISLWUV"/>
</owl:Class>
<owl:Class rdf:ID="GAZ534x23000kgTruck">
  <rdfs:comment>GAZ-53 4x2 3000-kg truck</rdfs:comment>
  <rdfs:label>GAZ-53 4x2 3000-kg truck</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISLWUV"/>
</owl:Class>
<owl:Class rdf:ID="Ural3776x47500kgTruck">
  <rdfs:comment>Ural-377 6x4 7500-kg truck</rdfs:comment>
  <rdfs:label>Ural-377 6x4 7500-kg truck</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISLWUV"/>
</owl:Class>
<owl:Class rdf:ID="ZIL1336x48000kgTruck">
  <rdfs:comment>ZIL-133 6x4 8000 kg-truck</rdfs:comment>
  <rdfs:label>ZIL-133 6x4 8000 kg-truck</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISLWUV"/>
</owl:Class>
<owl:Class rdf:ID="YaAZ2146x67000kgTruck">
  <rdfs:comment>YaAZ-214 6x6 7000-kg truck</rdfs:comment>
  <rdfs:label>YaAZ-214 6x6 7000-kg truck</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISLWUV"/>
</owl:Class>
<owl:Class rdf:ID="KrAZ2146x67000kgTruck">
  <rdfs:comment>KrAZ-214 6x6 7000-kg truck</rdfs:comment>
  <rdfs:label>KrAZ-214 6x6 7000-kg truck</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISLWUV"/>
</owl:Class>
<owl:Class rdf:ID="KrAZ206V6x6TractorTruck">
  <rdfs:comment>KrAZ-206V 6x6 tractor truck</rdfs:comment>
  <rdfs:label>KrAZ-206V 6x6 tractor truck</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISLWUV"/>
</owl:Class>
<owl:Class rdf:ID="KamAZ53206x48000kgTruck">
  <rdfs:comment>KamAZ-5320 6x4 8000-kg truck</rdfs:comment>
  <rdfs:label>KamAZ-5320 6x4 8000-kg truck</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISLWUV"/>
</owl:Class>
<owl:Class rdf:ID="KrAZ2606x69000kgTruck">
  <rdfs:comment>KrAZ-260 6x6 9000-kg truck</rdfs:comment>
  <rdfs:label>KrAZ-260 6x6 9000-kg truck</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISLWUV"/>
</owl:Class>
<owl:Class rdf:ID="KrAZ2406x69000kgTruck">
  <rdfs:comment>KrAZ-240 6x6 9000-kg truck</rdfs:comment>

```

```

        <rdfs:label>KrAZ-240 6x6 9000-kg truck</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="Ural53238x89000kgTruck">
        <rdfs:comment>Ural-5323 8x8 9000-kg truck</rdfs:comment>
        <rdfs:label>Ural-5323 8x8 9000-kg truck</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="KrAZ2576x412000kgTruck">
        <rdfs:comment>KrAZ-257 6x4 12000-kg truck</rdfs:comment>
        <rdfs:label>KrAZ-257 6x4 12000-kg truck</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="ZIL135series8x8Truck">
        <rdfs:comment>ZIL-135 series 8x8 truck</rdfs:comment>
        <rdfs:label>ZIL-135 series 8x8 truck</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="MAZ5438x8Truck">
        <rdfs:comment>MAZ-543 8x8 truck</rdfs:comment>
        <rdfs:label>MAZ-543 8x8 truck</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="BAZ59376x6SpecialPurposeVehicle">
        <rdfs:comment>BAZ-5937 6x6 special purpose vehicle</rdfs:comment>
        <rdfs:label>BAZ-5937 6x6 special purpose vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="BAZ59396x6SpecialPurposeVehicle">
        <rdfs:comment>BAZ-5939 6x6 special purpose vehicle</rdfs:comment>
        <rdfs:label>BAZ-5939 6x6 special purpose vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="MAZ535andMAZ5378x8series">
        <rdfs:comment>MAZ-535 and MAZ-537 8x8 series</rdfs:comment>
        <rdfs:label>MAZ-535 and MAZ-537 8x8 series</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="TMK2TrenchDiggingMachine">
        <rdfs:comment>TMK-2 trench-digging machine</rdfs:comment>
        <rdfs:label>TMK-2 trench-digging machine</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="PZMregimentalTrenchDiggingMachine">
        <rdfs:comment>PZM regimental trench-digging machine</rdfs:comment>
        <rdfs:label>PZM regimental trench-digging machine</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="OPSMobileWaterDesalinationPlant">
        <rdfs:comment>OPS mobile water-desalination plant</rdfs:comment>
        <rdfs:label>OPS mobile water-desalination plant</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="POUMobileWaterDesalinationPlant">
        <rdfs:comment>POU mobile water-desalination plant</rdfs:comment>
        <rdfs:label>POU mobile water-desalination plant</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLWUV"/>
    </owl:Class>

```

```

</owl:Class>
<owl:Class rdf:ID="LBU200MobileWellDrillingequipment">
  <rdfs:comment>LBU-200 mobile well-drilling equipment</rdfs:comment>
  <rdfs:label>LBU-200 mobile well-drilling equipment</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISLWUV"/>
</owl:Class>
<owl:Class rdf:ID="Tonne4">
  <rdfs:comment>4 Tonne</rdfs:comment>
  <rdfs:label>4 Tonne</rdfs:label>
  <rdfs:subClassOf rdf:resource="#UKLWUV"/>
</owl:Class>
<owl:Class rdf:ID="Tonne8">
  <rdfs:comment>8 Tonne</rdfs:comment>
  <rdfs:label>8 Tonne</rdfs:label>
  <rdfs:subClassOf rdf:resource="#UKLWUV"/>
</owl:Class>
<owl:Class rdf:ID="Tonne8fuel">
  <rdfs:comment>8 Tonne fuel</rdfs:comment>
  <rdfs:label>8 Tonne fuel</rdfs:label>
  <rdfs:subClassOf rdf:resource="#UKLWUV"/>
</owl:Class>
<owl:Class rdf:ID="Tonne14">
  <rdfs:comment>14 Tonne</rdfs:comment>
  <rdfs:label>14 Tonne</rdfs:label>
  <rdfs:subClassOf rdf:resource="#UKLWUV"/>
</owl:Class>
<owl:Class rdf:ID="Tonne14Withbridgetrailer">
  <rdfs:comment>14 Tonne with bridge trailer</rdfs:comment>
  <rdfs:label>14 Tonne with bridge trailer</rdfs:label>
  <rdfs:subClassOf rdf:resource="#UKLWUV"/>
</owl:Class>
<owl:Class rdf:ID="M35M44A2">
  <rdfs:comment>M35/M44A2 6x6 2-1/2 ton cargo truck
series</rdfs:comment>
  <rdfs:label>M35/M44A2 6x6 2-1/2 ton cargo truck series</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class
rdf:ID="M34CargoTruckWithanunladenweightof5332kgchassisdesignatedM44">
  <rdfs:comment>M34: cargo truck with an unladen weight of 5332 kg,
chassis designated M44</rdfs:comment>
  <rdfs:label>M34: cargo truck with an unladen weight of 5332 kg,
chassis designated M44</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M35M44A2"/>
</owl:Class>
<owl:Class
rdf:ID="M47dumpTruckWithanunladenweightof6100kgchassisdesignatedM57">
  <rdfs:comment>M47: dump truck with an unladen weight of 6100 kg,
chassis designated M57</rdfs:comment>
  <rdfs:label>M47: dump truck with an unladen weight of 6100 kg,
chassis designated M57</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M35M44A2"/>
</owl:Class>
<owl:Class
rdf:ID="TruckmaintenanceearthboringMachineandpolesetterV18AMTQchassisM44">
  <rdfs:comment>Truck, maintenance: earth-boring machine and pole
setter V18A/MTQ, chassis M44</rdfs:comment>

```



```

        <rdfs:label>Truck, maintenance: earth-boring machine and pole setter
V18A/MTQ, chassis M44</rdfs:label>
        <rdfs:subClassOf rdfs:resource="#M35M44A2"/>
    </owl:Class>
    <owl:Class
rdf:ID="TruckmaintenancetelephoneconstructionandmaintenanceV17AMTQchassisM44.">
        <rdfs:comment>Truck, maintenance: telephone construction and
maintenance V17A/MTQ, chassis M44.</rdfs:comment>
        <rdfs:label>Truck, maintenance: telephone construction and
maintenance V17A/MTQ, chassis M44.</rdfs:label>
        <rdfs:subClassOf rdfs:resource="#M35M44A2"/>
    </owl:Class>
    <owl:Class rdf:ID="M35TruckBasicM45chassis">
        <rdfs:comment>M35 truck: basic M45 chassis</rdfs:comment>
        <rdfs:label>M35 truck: basic M45 chassis</rdfs:label>
        <rdfs:subClassOf rdfs:resource="#M35M44A2"/>
    </owl:Class>
    <owl:Class rdf:ID="M35A2">
        <rdfs:comment>M35A2</rdfs:comment>
        <rdfs:label>M35A2</rdfs:label>
        <rdfs:subClassOf rdfs:resource="#M35M44A2"/>
    </owl:Class>
    <owl:Class rdf:ID="M35A2C">
        <rdfs:comment>M35A2C</rdfs:comment>
        <rdfs:label>M35A2C</rdfs:label>
        <rdfs:subClassOf rdfs:resource="#M35M44A2"/>
    </owl:Class>
    <owl:Class rdf:ID="M36">
        <rdfs:comment>M36</rdfs:comment>
        <rdfs:label>M36</rdfs:label>
        <rdfs:subClassOf rdfs:resource="#M35M44A2"/>
    </owl:Class>
    <owl:Class rdf:ID="M36A2">
        <rdfs:comment>M36A2</rdfs:comment>
        <rdfs:label>M36A2</rdfs:label>
        <rdfs:subClassOf rdfs:resource="#M35M44A2"/>
    </owl:Class>
    <owl:Class rdf:ID="M48TractorTruck">
        <rdfs:comment>M48: tractor truck</rdfs:comment>
        <rdfs:label>M48: tractor truck</rdfs:label>
        <rdfs:subClassOf rdfs:resource="#M35M44A2"/>
    </owl:Class>
    <owl:Class rdf:ID="M49fueltanker">
        <rdfs:comment>M49: fuel tanker</rdfs:comment>
        <rdfs:label>M49: fuel tanker</rdfs:label>
        <rdfs:subClassOf rdfs:resource="#M35M44A2"/>
    </owl:Class>
    <owl:Class rdf:ID="M49A2C">
        <rdfs:comment>M49A2C</rdfs:comment>
        <rdfs:label>M49A2C</rdfs:label>
        <rdfs:subClassOf rdfs:resource="#M35M44A2"/>
    </owl:Class>
    <owl:Class rdf:ID="M816Truckwrecker5ton6x6">
        <rdfs:comment>M816, truck, wrecker, 5-ton, 6x6</rdfs:comment>
        <rdfs:label>M816, truck, wrecker, 5-ton, 6x6</rdfs:label>
        <rdfs:subClassOf rdfs:resource="#USLWUV"/>
    </owl:Class>

```

```

<owl:Class rdf:ID="M819Tractorwrecker5ton6x6">
  <rdfs:comment>M819, tractor, wrecker, 5-ton, 6x6</rdfs:comment>
  <rdfs:label>M819, tractor, wrecker, 5-ton, 6x6</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class rdf:ID="M817engineerdumpTruck">
  <rdfs:comment>M817 engineer dump truck</rdfs:comment>
  <rdfs:label>M817 engineer dump truck</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class rdf:ID="M9396X65tonCargoTruck">
  <rdfs:comment>M939 6X6 5-ton cargo truck</rdfs:comment>
  <rdfs:label>M939 6X6 5-ton cargo truck</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class rdf:ID="M543Truckwreckermedium5ton6x6">
  <rdfs:comment>M543, truck, wrecker: medium, 5-ton,
6x6</rdfs:comment>
  <rdfs:label>M543, truck, wrecker: medium, 5-ton, 6x6</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class rdf:ID="M915">
  <rdfs:comment>M915 series of 5-ton trucks</rdfs:comment>
  <rdfs:label>M915 series of 5-ton trucks</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class rdf:ID="M917">
  <rdfs:comment>M917</rdfs:comment>
  <rdfs:label>M917</rdfs:label>
</owl:Class>
<owl:Class rdf:ID="M919">
  <rdfs:comment>M919</rdfs:comment>
  <rdfs:label>M919</rdfs:label>
</owl:Class>
<owl:Class rdf:ID="M921">
  <rdfs:comment>M921</rdfs:comment>
  <rdfs:label>M921</rdfs:label>
</owl:Class>
<owl:Class rdf:ID="M923">
  <rdfs:comment>M923</rdfs:comment>
  <rdfs:label>M923</rdfs:label>
</owl:Class>
<owl:Class rdf:ID="Cargo">
  <rdfs:comment>Cargo</rdfs:comment>
  <rdfs:label>Cargo</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M915"/>
</owl:Class>
<owl:Class rdf:ID="wFSpods">
  <rdfs:comment>w/ FS pods</rdfs:comment>
  <rdfs:label>w/ FS pods</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M917"/>
</owl:Class>
<owl:Class rdf:ID="wShelter">
  <rdfs:comment>w/ shelter</rdfs:comment>
  <rdfs:label>w/ shelter</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M919"/>
</owl:Class>

```

```

<owl:Class rdf:ID="M915TractorTruck14ton6x4">
  <rdfs:comment>M915, tractor, truck, 14-ton, 6x4</rdfs:comment>
  <rdfs:label>M915, tractor, truck, 14-ton, 6x4</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M921"/>
</owl:Class>
<owl:Class rdf:ID="M915A1TractorTruck14ton6x4">
  <rdfs:comment>M915A1, tractor, truck, 14-ton, 6x4</rdfs:comment>
  <rdfs:label>M915A1, tractor, truck, 14-ton, 6x4</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M923"/>
</owl:Class>
<owl:Class rdf:ID="LTVHummercabover4x42268kgCargoTruck">
  <rdfs:comment>LTV Hummer cab-over 4x4 2268-kg cargo
truck</rdfs:comment>
  <rdfs:label>LTV Hummer cab-over 4x4 2268-kg cargo truck</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class rdf:ID="FreightlinerAllTerrainTowVehicleATTV">
  <rdfs:comment>Freightliner All-Terrain Tow Vehicle
(ATTV)</rdfs:comment>
  <rdfs:label>Freightliner All-Terrain Tow Vehicle (ATTV)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class rdf:ID="StewartandStevensonSS3008x82268kgAllTerrainVehicle">
  <rdfs:comment>Stewart and Stevenson SS-300 8x8 2268-kg All-Terrain
Vehicle</rdfs:comment>
  <rdfs:label>Stewart and Stevenson SS-300 8x8 2268-kg All-Terrain
Vehicle</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class rdf:ID="FMTV">
  <rdfs:comment>Stewart and Stevenson Family of Medium Tactical
Vehicles (FMTV)</rdfs:comment>
  <rdfs:label>Stewart and Stevenson Family of Medium Tactical Vehicles
(FMTV)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class rdf:ID="M1078TruckCargoLMTVwEquip">
  <rdfs:comment>M1078 Truck, Cargo; LMTV w/ Equip</rdfs:comment>
  <rdfs:label>M1078 Truck, Cargo; LMTV w/ Equip</rdfs:label>
  <rdfs:subClassOf rdf:resource="#FMTV"/>
</owl:Class>
<owl:Class rdf:ID="M1078TruckCargoLMTVwEquipwWinch">
  <rdfs:comment>M1078 Truck, Cargo; LMTV w/ Equip, w/
Winch</rdfs:comment>
  <rdfs:label>M1078 Truck, Cargo; LMTV w/ Equip, w/ Winch</rdfs:label>
  <rdfs:subClassOf rdf:resource="#FMTV"/>
</owl:Class>
<owl:Class rdf:ID="M1079TruckVanLMTVwEquip">
  <rdfs:comment>M1079 Truck, Van; LMTV w/ Equip</rdfs:comment>
  <rdfs:label>M1079 Truck, Van; LMTV w/ Equip</rdfs:label>
  <rdfs:subClassOf rdf:resource="#FMTV"/>
</owl:Class>
<owl:Class rdf:ID="M1079TruckVanLMTVwEquipwWinch">
  <rdfs:comment>M1079 Truck, Van; LMTV w/ Equip, w/
Winch</rdfs:comment>
  <rdfs:label>M1079 Truck, Van; LMTV w/ Equip, w/ Winch</rdfs:label>

```

```

        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1080TruckChassisLMTVwEquip">
        <rdfs:comment>M1080 Truck, Chassis; LMTV w/ Equip</rdfs:comment>
        <rdfs:label>M1080 Truck, Chassis; LMTV w/ Equip</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1081TruckCargoLMTVLAPESADwEquip">
        <rdfs:comment>M1081 Truck, Cargo; LMTV, LAPES/AD, w/
Equip</rdfs:comment>
        <rdfs:label>M1081 Truck, Cargo; LMTV, LAPES/AD, w/
Equip</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1082TrailerLMTV">
        <rdfs:comment>M1082 Trailer; LMTV</rdfs:comment>
        <rdfs:label>M1082 Trailer; LMTV</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1083TruckCargoMTVwEquip">
        <rdfs:comment>M1083 Truck, Cargo; MTV w/ Equip</rdfs:comment>
        <rdfs:label>M1083 Truck, Cargo; MTV w/ Equip</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1083TruckCargoMTVwEquipwWinch">
        <rdfs:comment>M1083 Truck, Cargo; MTV w/ Equip, w/
winch</rdfs:comment>
        <rdfs:label>M1083 Truck, Cargo; MTV w/ Equip, w/ winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1084TruckCargowMHEwEquip">
        <rdfs:comment>M1084 Truck, Cargo; w/ MHE w/ Equip</rdfs:comment>
        <rdfs:label>M1084 Truck, Cargo; w/ MHE w/ Equip</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1085TruckCargoMTVLWBwEquip">
        <rdfs:comment>M1085 Truck, Cargo; MTV, LWB, w/ Equip</rdfs:comment>
        <rdfs:label>M1085 Truck, Cargo; MTV, LWB, w/ Equip</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1085TruckCargoMTVLWBwEquipwWinch">
        <rdfs:comment>M1085 Truck, Cargo; MTV, LWB, w/ Equip, w/
Winch</rdfs:comment>
        <rdfs:label>M1085 Truck, Cargo; MTV, LWB, w/ Equip, w/
Winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1086TruckCargoMTVLWBwMHEwEquip">
        <rdfs:comment>M1086 Truck, Cargo; MTV, LWB, w/MHE, w/
Equip</rdfs:comment>
        <rdfs:label>M1086 Truck, Cargo; MTV, LWB, w/MHE, w/
Equip</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1087TruckVanMTVExpansibile">
        <rdfs:comment>M1087 Truck, Van; MTV, Expansibile</rdfs:comment>

```

```

        <rdfs:label>M1087 Truck, Van; MTV, Expansible</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1088TruckTractorMTVwEquip">
        <rdfs:comment>M1088 Truck, Tractor; MTV, w/ Equip</rdfs:comment>
        <rdfs:label>M1088 Truck, Tractor; MTV, w/ Equip</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1088TruckTractorMTVwEquipwWinch">
        <rdfs:comment>M1088 Truck, Tractor; MTV, w/ Equip, w/
Winch</rdfs:comment>
        <rdfs:label>M1088 Truck, Tractor; MTV, w/ Equip, w/
Winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>

    </owl:Class>
    <owl:Class rdf:ID="M1089TruckWreckerMTVwEquipwWinch">
        <rdfs:comment>M1089 Truck, Wrecker; MTV, w/ Equip, w/
Winch</rdfs:comment>
        <rdfs:label>M1089 Truck, Wrecker; MTV, w/ Equip, w/
Winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1090TruckDumpMTVwEquip">
        <rdfs:comment>M1090 Truck, Dump; MTV w/ Equip</rdfs:comment>
        <rdfs:label>M1090 Truck, Dump; MTV w/ Equip</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1090TruckDumpMTVwEquipwWinch">
        <rdfs:comment>M1090 Truck, Dump; MTV w/ Equip, w/
Winch</rdfs:comment>
        <rdfs:label>M1090 Truck, Dump; MTV w/ Equip, w/ Winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1091TruckTankerMTVwEquipwWinch">
        <rdfs:comment>M1091 Truck, Tanker; MTV w/ Equip, w/
Winch</rdfs:comment>
        <rdfs:label>M1091 Truck, Tanker; MTV w/ Equip, w/ Winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1092TruckChassisMTVwEquip">
        <rdfs:comment>M1092 Truck, Chassis; MTV w/ Equip</rdfs:comment>
        <rdfs:label>M1092 Truck, Chassis; MTV w/ Equip</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1093TruckCargoMTVLAPESADwEquip">
        <rdfs:comment>M1093 Truck, Cargo; MTV, LAPES/AD, w/
Equip</rdfs:comment>
        <rdfs:label>M1093 Truck, Cargo; MTV, LAPES/AD, w/ Equip</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1094TruckDumpMTVLAPESADwEquipwWinch">
        <rdfs:comment>M1094 Truck, Dump; MTV, LAPES/AD, w/ Equip, w/
Winch</rdfs:comment>
        <rdfs:label>M1094 Truck, Dump; MTV, LAPES/AD, w/ Equip, w/
Winch</rdfs:label>
        <rdfs:subClassOf rdf:resource="#FMTV"/>

```

```

    </owl:Class>
    <owl:Class rdf:ID="M1094TruckDumpMTVLAPESADwEquip">
      <rdfs:comment>M1094 Truck, Dump; MTV, LAPES/AD, w/
Equip</rdfs:comment>
      <rdfs:label>M1094 Truck, Dump; MTV, LAPES/AD, w/ Equip</rdfs:label>
      <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1095TrailerMTV">
      <rdfs:comment>M1095 Trailer, MTV</rdfs:comment>
      <rdfs:label>M1095 Trailer, MTV</rdfs:label>
      <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1096TruckChassisMTVLWBwEquip">
      <rdfs:comment>M1096 Truck, Chassis; MTV, LWB, w/
Equip</rdfs:comment>
      <rdfs:label>M1096 Truck, Chassis; MTV, LWB, w/ Equip</rdfs:label>
      <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1083TruckCargoMTVwEquipwVolcano">
      <rdfs:comment>M1083 Truck, Cargo; MTV, w/ Equip, w/
Volcano</rdfs:comment>
      <rdfs:label>M1083 Truck, Cargo; MTV, w/ Equip, w/
Volcano</rdfs:label>
      <rdfs:subClassOf rdf:resource="#FMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="TTCFMTV">
      <rdfs:comment>TTC FMTV</rdfs:comment>
      <rdfs:label>TTC FMTV</rdfs:label>
      <rdfs:subClassOf rdf:resource="#USLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="LMTV">
      <rdfs:comment>LMTV</rdfs:comment>
      <rdfs:label>LMTV</rdfs:label>
      <rdfs:subClassOf rdf:resource="#TTCFMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="MTV">
      <rdfs:comment>MTV</rdfs:comment>
      <rdfs:label>MTV</rdfs:label>
      <rdfs:subClassOf rdf:resource="#TTCFMTV"/>
    </owl:Class>
    <owl:Class rdf:ID="M54Truck">
      <rdfs:comment>M54 6x6 5-ton cargo truck series</rdfs:comment>
      <rdfs:label>M54 6x6 5-ton cargo truck series</rdfs:label>
      <rdfs:subClassOf rdf:resource="#USLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M41Cargo">
      <rdfs:comment>M41, cargo</rdfs:comment>
      <rdfs:label>M41, cargo</rdfs:label>
      <rdfs:subClassOf rdf:resource="#M54Truck"/>
    </owl:Class>
    <owl:Class rdf:ID="M41dump6">
      <rdfs:comment>M41, dump6</rdfs:comment>
      <rdfs:label>M41, dump6</rdfs:label>
      <rdfs:subClassOf rdf:resource="#M54Truck"/>
    </owl:Class>
    <owl:Class rdf:ID="M52Tractor">
      <rdfs:comment>M52 , tractor</rdfs:comment>

```

```

        <rdfs:label>M52 , tractor</rdfs:label>
        <rdfs:subClassOf rdf:resource="#M54Truck"/>
</owl:Class>
<owl:Class rdf:ID="M54Cargo">
    <rdfs:comment>M54, cargo,</rdfs:comment>
    <rdfs:label>M54, cargo,</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M54Truck"/>
</owl:Class>
<owl:Class rdf:ID="M55Cargo">
    <rdfs:comment>M55, cargo</rdfs:comment>
    <rdfs:label>M55, cargo</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M54Truck"/>
</owl:Class>
<owl:Class rdf:ID="M62kwreckermedium">
    <rdfs:comment>M62k, wrecker, medium</rdfs:comment>
    <rdfs:label>M62k, wrecker, medium</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M54Truck"/>
</owl:Class>
<owl:Class rdf:ID="M64Cargovan">
    <rdfs:comment>M64, cargo, van</rdfs:comment>
    <rdfs:label>M64, cargo, van</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M54Truck"/>
</owl:Class>
<owl:Class rdf:ID="M246Tractorwrecker">
    <rdfs:comment>M246, tractor, wrecker</rdfs:comment>
    <rdfs:label>M246, tractor, wrecker</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M54Truck"/>
</owl:Class>
<owl:Class rdf:ID="M291vanexpansible">
    <rdfs:comment>M291, van, expansible</rdfs:comment>
    <rdfs:label>M291, van, expansible</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M54Truck"/>
</owl:Class>
<owl:Class rdf:ID="M328stakebridging">
    <rdfs:comment>M328, stake, bridging</rdfs:comment>
    <rdfs:label>M328, stake, bridging</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M54Truck"/>
</owl:Class>
<owl:Class rdf:ID="M543wreckermedium">
    <rdfs:comment>M543, wrecker, medium</rdfs:comment>
    <rdfs:label>M543, wrecker, medium</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M54Truck"/>
</owl:Class>
<owl:Class rdf:ID="M748bolster">
    <rdfs:comment>M748, bolster</rdfs:comment>
    <rdfs:label>M748, bolster</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M54Truck"/>
</owl:Class>
<owl:Class rdf:ID="M139chassis">
    <rdfs:comment>M139 chassis</rdfs:comment>
    <rdfs:label>M139 chassis</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M54Truck"/>
</owl:Class>
<owl:Class rdf:ID="M809Truck">
    <rdfs:comment>M809 6x6 5-ton cargo truck series</rdfs:comment>
    <rdfs:label>M809 6x6 5-ton cargo truck series</rdfs:label>
    <rdfs:subClassOf rdf:resource="#M54Truck"/>

```

```

</owl:Class>
<owl:Class rdf:ID="M809">
  <rdfs:comment>M809</rdfs:comment>
  <rdfs:label>M809</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class rdf:ID="M810">
  <rdfs:comment>M810</rdfs:comment>
  <rdfs:label>M810</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M809Truck"/>
</owl:Class>
<owl:Class rdf:ID="M811M812">
  <rdfs:comment>M811/M812</rdfs:comment>
  <rdfs:label>M811/M812</rdfs:label>
  <rdfs:subClassOf rdf:resource="#M809Truck"/>
</owl:Class>
<owl:Class rdf:ID="M813CargoTruck5ton6x6">
  <rdfs:comment>M813 cargo truck, 5-ton, 6x6</rdfs:comment>
  <rdfs:label>M813 cargo truck, 5-ton, 6x6</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class rdf:ID="TAD">
  <rdfs:comment>Standard Trailing Arm Drive (TAD) vehicle
series</rdfs:comment>
  <rdfs:label>Standard Trailing Arm Drive (TAD) vehicle
series</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class rdf:ID="ModularwheeledCarrier">
  <rdfs:comment>Modular wheeled carrier</rdfs:comment>
  <rdfs:label>Modular wheeled carrier</rdfs:label>
  <rdfs:subClassOf rdf:resource="#TAD"/>
</owl:Class>
<owl:Class rdf:ID="ForwardAreaMultiPurposeVehicleFAMV">
  <rdfs:comment>Forward Area Multi-purpose Vehicle
(FAMV)</rdfs:comment>
  <rdfs:label>Forward Area Multi-purpose Vehicle (FAMV)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#TAD"/>
</owl:Class>
<owl:Class rdf:ID="MediumCombatTruckMCT">
  <rdfs:comment>Medium Combat Truck (MCT)</rdfs:comment>
  <rdfs:label>Medium Combat Truck (MCT)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#TAD"/>
</owl:Class>
<owl:Class rdf:ID="MK50">
  <rdfs:comment>MK50</rdfs:comment>
  <rdfs:label>MK50</rdfs:label>
</owl:Class>
<owl:Class rdf:ID="MK52">
  <rdfs:comment>MK52</rdfs:comment>
  <rdfs:label>MK52</rdfs:label>
</owl:Class>
<owl:Class rdf:ID="MK54">
  <rdfs:comment>MK54</rdfs:comment>
  <rdfs:label>MK54</rdfs:label>
</owl:Class>
<owl:Class rdf:ID="MK56">

```



```

        <rdfs:comment>MK56</rdfs:comment>
        <rdfs:label>MK56</rdfs:label>
    </owl:Class>
    <owl:Class rdf:ID="MK48">
        <rdfs:comment>Oshkosh MK48-series articulated 8x8
vehicle</rdfs:comment>
        <rdfs:label>Oshkosh MK48-series articulated 8x8 vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="MK4814logisticsplatformTruck">
        <rdfs:comment>MK48/14: logistics platform truck</rdfs:comment>
        <rdfs:label>MK48/14: logistics platform truck</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MK48"/>
    </owl:Class>
    <owl:Class rdf:ID="MK4815RecoveryVehicle">
        <rdfs:comment>MK48/15: recovery vehicle</rdfs:comment>
        <rdfs:label>MK48/15: recovery vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MK50"/>
    </owl:Class>
    <owl:Class rdf:ID="MK4816TruckTractor">
        <rdfs:comment>MK48/16: truck tractor</rdfs:comment>
        <rdfs:label>MK48/16: truck tractor</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MK52"/>
    </owl:Class>
    <owl:Class rdf:ID="MK4817CargoTruckWithMaterialHandlingCraneMHC">
        <rdfs:comment>MK48/17: cargo truck with Material Handling Crane
(MHC)</rdfs:comment>
        <rdfs:label>MK48/17: cargo truck with Material Handling Crane
(MHC)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MK54"/>
    </owl:Class>
    <owl:Class rdf:ID="MK4818loadhandlingSystemVehicle.">
        <rdfs:comment>MK48/18: load handling system vehicle.</rdfs:comment>
        <rdfs:label>MK48/18: load handling system vehicle.</rdfs:label>
        <rdfs:subClassOf rdf:resource="#MK56"/>
    </owl:Class>
    <owl:Class rdf:ID="HEMTT">
        <rdfs:comment>Oshkosh Heavy Expanded Mobility Tactical Truck (HEMTT)
8x8 9979-kg</rdfs:comment>
        <rdfs:label>Oshkosh Heavy Expanded Mobility Tactical Truck (HEMTT)
8x8 9979-kg</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M977Cargo">
        <rdfs:comment>M977 cargo</rdfs:comment>
        <rdfs:label>M977 cargo</rdfs:label>
        <rdfs:subClassOf rdf:resource="#HEMTT"/>
    </owl:Class>
    <owl:Class rdf:ID="M978fuelservicing">
        <rdfs:comment>M978 fuel-servicing</rdfs:comment>
        <rdfs:label>M978 fuel-servicing</rdfs:label>
        <rdfs:subClassOf rdf:resource="#HEMTT"/>
    </owl:Class>
    <owl:Class rdf:ID="M983Tractor">
        <rdfs:comment>M983 tractor</rdfs:comment>
        <rdfs:label>M983 tractor</rdfs:label>
        <rdfs:subClassOf rdf:resource="#HEMTT"/>

```

```

</owl:Class>
<owl:Class rdf:ID="M984A1wrecker">
  <rdfs:comment>M984A1 wrecker</rdfs:comment>
  <rdfs:label>M984A1 wrecker</rdfs:label>
  <rdfs:subClassOf rdf:resource="#HEMTT"/>
</owl:Class>
<owl:Class rdf:ID="M985Cargo">
  <rdfs:comment>M985 cargo</rdfs:comment>
  <rdfs:label>M985 cargo</rdfs:label>
  <rdfs:subClassOf rdf:resource="#HEMTT"/>
</owl:Class>
<owl:Class rdf:ID="M977wMinePlow">
  <rdfs:comment>M977 w/ Mine Plow</rdfs:comment>
  <rdfs:label>M977 w/ Mine Plow</rdfs:label>
  <rdfs:subClassOf rdf:resource="#HEMTT"/>
</owl:Class>
<owl:Class rdf:ID="M977wMineRoller">
  <rdfs:comment>M977 w/ Mine Roller</rdfs:comment>
  <rdfs:label>M977 w/ Mine Roller</rdfs:label>
  <rdfs:subClassOf rdf:resource="#HEMTT"/>
</owl:Class>
<owl:Class rdf:ID="M985wMineRoller">
  <rdfs:comment>M985 w/ Mine Roller</rdfs:comment>
  <rdfs:label>M985 w/ Mine Roller</rdfs:label>
  <rdfs:subClassOf rdf:resource="#HEMTT"/>
</owl:Class>
<owl:Class rdf:ID="M985wMinePlow">
  <rdfs:comment>M985 w/ Mine Plow</rdfs:comment>
  <rdfs:label>M985 w/ Mine Plow</rdfs:label>
  <rdfs:subClassOf rdf:resource="#HEMTT"/>
</owl:Class>
<owl:Class rdf:ID="MackRM6866SX6x610000kgTruck">
  <rdfs:comment>Mack RM6866SX 6x6 10000-kg truck</rdfs:comment>
  <rdfs:label>Mack RM6866SX 6x6 10000-kg truck</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class rdf:ID="M10708x8HeavyEquipmentTransporterHET">
  <rdfs:comment>M1070 8x8 Heavy Equipment Transporter
(HET)</rdfs:comment>
  <rdfs:label>M1070 8x8 Heavy Equipment Transporter (HET)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class rdf:ID="M9118x6TruckTractor">
  <rdfs:comment>M911 8x6 truck tractor</rdfs:comment>
  <rdfs:label>M911 8x6 truck tractor</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class rdf:ID="M7468x82212tonTractorTruckHET">
  <rdfs:comment>M746 8x8 22-1/2 ton tractor truck (HET)</rdfs:comment>
  <rdfs:label>M746 8x8 22-1/2 ton tractor truck (HET)</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>
</owl:Class>
<owl:Class rdf:ID="MackRD8226SX52000kg6x6tankTransporter">
  <rdfs:comment>Mack RD8226SX 52000-kg 6x6 tank
transporter</rdfs:comment>
  <rdfs:label>Mack RD8226SX 52000-kg 6x6 tank transporter</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USLWUV"/>

```

```

        </owl:Class>
        <owl:Class
rdf:ID="NavistarInternationalCorporationF50706x4tankTransporter">
        <rdfs:comment>Navistar International Corporation F5070 6x4 tank
transporter</rdfs:comment>
        <rdfs:label>Navistar International Corporation F5070 6x4 tank
transporter</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLWUV"/>
        </owl:Class>
        <owl:Class rdf:ID="LARC54x44545kgAmphibiousCargoCarrier">
        <rdfs:comment>LARC-5 4x4 4545-kg amphibious cargo
carrier</rdfs:comment>
        <rdfs:label>LARC-5 4x4 4545-kg amphibious cargo carrier</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLWUV"/>
        </owl:Class>
        <owl:Class rdf:ID="VariableReachRoughTerrainForkliftTruckVRRTFLT">
        <rdfs:comment>Variable Reach Rough Terrain Forklift Truck
(VRRTFLT)</rdfs:comment>
        <rdfs:label>Variable Reach Rough Terrain Forklift Truck
(VRRTFLT)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLWUV"/>
        </owl:Class>
        <owl:Class rdf:ID="RTCST">
        <rdfs:comment>Rough Terrain Container Straddle Truck
(RTCST)</rdfs:comment>
        <rdfs:label>Rough Terrain Container Straddle Truck
(RTCST)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLWUV"/>
        </owl:Class>
        <owl:Class rdf:ID="TractorTruck">
        <rdfs:comment>Truck, tractor, yard type, 4x2</rdfs:comment>
        <rdfs:label>Truck, tractor, yard type, 4x2</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLWUV"/>
        </owl:Class>
        <owl:Class rdf:ID="M878">
        <rdfs:comment>M878</rdfs:comment>
        <rdfs:label>M878</rdfs:label>
        <rdfs:subClassOf rdf:resource="#TractorTruck"/>
        </owl:Class>
        <owl:Class rdf:ID="M878A1">
        <rdfs:comment>M878A1</rdfs:comment>
        <rdfs:label>M878A1</rdfs:label>
        <rdfs:subClassOf rdf:resource="#TractorTruck"/>
        </owl:Class>
        <owl:Class rdf:ID="CaseMC250030tonroughterraincrane">
        <rdfs:comment>Case MC2500 30-ton rough terrain crane</rdfs:comment>
        <rdfs:label>Case MC2500 30-ton rough terrain crane</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLWUV"/>
        </owl:Class>
        <owl:Class rdf:ID="CraneTruckMountedhydraulic25tonCCEGroveTMS3005">
        <rdfs:comment>Crane, truck-mounted, hydraulic, 25-ton (CCE) (Grove
TMS 300-5)</rdfs:comment>
        <rdfs:label>Crane, truck-mounted, hydraulic, 25-ton (CCE) (Grove TMS
300-5)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLWUV"/>
        </owl:Class>
        <owl:Class rdf:ID="Roughterraincrane4x45tonHansonH446A">

```

```

        <rdfs:comment>Rough terrain crane 4x4 5-ton Hanson H-
446A</rdfs:comment>
        <rdfs:label>Rough terrain crane 4x4 5-ton Hanson H-446A</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="Wreckers">
        <rdfs:comment>Wreckers, 2-1/2 ton 6x6</rdfs:comment>
        <rdfs:label>Wreckers, 2-1/2 ton 6x6</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M60">
        <rdfs:comment>M60</rdfs:comment>
        <rdfs:label>M60</rdfs:label>
        <rdfs:subClassOf rdf:resource="#Wreckers"/>
    </owl:Class>
    <owl:Class rdf:ID="M108">
        <rdfs:comment>M108</rdfs:comment>
        <rdfs:label>M108</rdfs:label>
        <rdfs:subClassOf rdf:resource="#Wreckers"/>
    </owl:Class>
    <owl:Class rdf:ID="M62Truckwreckermedium5ton6x6">
        <rdfs:comment>M62, truck, wrecker, medium, 5-ton, 6x6</rdfs:comment>
        <rdfs:label>M62, truck, wrecker, medium, 5-ton, 6x6</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M246TruckTractorwrecker5ton6x6">
        <rdfs:comment>M246, truck, tractor, wrecker, 5-ton,
6x6</rdfs:comment>
        <rdfs:label>M246, truck, tractor, wrecker, 5-ton, 6x6</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLWUV"/>
    </owl:Class>
    <owl:Class rdf:ID="CISSTUV">
        <rdfs:comment>#VALUE!</rdfs:comment>
        <rdfs:label>#VALUE!</rdfs:label>
        <rdfs:subClassOf rdf:resource="#SmallTrackedUtilityVehicle"/>
    </owl:Class>
    <owl:Class rdf:ID="ATLLightartilleryTractor">
        <rdfs:comment>AT-L light artillery tractor</rdfs:comment>
        <rdfs:label>AT-L light artillery tractor</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="ATLMlightartilleryTractor">
        <rdfs:comment>AT-LM light artillery tractor</rdfs:comment>
        <rdfs:label>AT-LM light artillery tractor</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="ATS59GmediumartilleryTractor">
        <rdfs:comment>ATS-59G medium artillery tractor</rdfs:comment>
        <rdfs:label>ATS-59G medium artillery tractor</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="ATS59mediumartilleryTractor">
        <rdfs:comment>ATS-59 medium artillery tractor</rdfs:comment>
        <rdfs:label>ATS-59 medium artillery tractor</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="MTSmediumTransporter">

```

```

        <rdfs:comment>MT-S medium transporter</rdfs:comment>
        <rdfs:label>MT-S medium transporter</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="GTSMAmphibiousoversnowVehicle">
        <rdfs:comment>GT-SM amphibious over-snow vehicle</rdfs:comment>
        <rdfs:label>GT-SM amphibious over-snow vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="GTTAmphibiousoversnowVehicle">
        <rdfs:comment>GT-T amphibious over-snow vehicle</rdfs:comment>
        <rdfs:label>GT-T amphibious over-snow vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="MTLAmphibiousoversnowVehicle">
        <rdfs:comment>MT-L amphibious over-snow vehicle</rdfs:comment>
        <rdfs:label>MT-L amphibious over-snow vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISSTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="CISLTUV">
        <rdfs:comment>CISLTUV</rdfs:comment>
        <rdfs:label>CISLTUV</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LargeTrackedUtilityVehicle"/>
    </owl:Class>
    <owl:Class rdf:ID="USLTUV">
        <rdfs:comment>USLTUV</rdfs:comment>
        <rdfs:label>USLTUV</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LargeTrackedUtilityVehicle"/>
    </owl:Class>
    <owl:Class rdf:ID="USLWUV">
        <rdfs:comment>USLWUV</rdfs:comment>
        <rdfs:label>USLWUV</rdfs:label>
        <rdfs:subClassOf rdf:resource="#LargeWheeledUtilityVehicle"/>
    </owl:Class>
    <owl:Class rdf:ID="PTSAmphibiousTransport">
        <rdfs:comment>PTS amphibious transport</rdfs:comment>
        <rdfs:label>PTS amphibious transport</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="PTSMAmphibiousVehicle">
        <rdfs:comment>PTS-M amphibious vehicle</rdfs:comment>
        <rdfs:label>PTS-M amphibious vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="PTS2AmphibiousVehicle">
        <rdfs:comment>PTS-2 amphibious vehicle</rdfs:comment>
        <rdfs:label>PTS-2 amphibious vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="MTK2ArmoredmineclearingVehicle">
        <rdfs:comment>MTK-2 armored mineclearing vehicle</rdfs:comment>
        <rdfs:label>MTK-2 armored mineclearing vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="ATTHeavyartilleryTractor">
        <rdfs:comment>AT-T heavy artillery tractor</rdfs:comment>
        <rdfs:label>AT-T heavy artillery tractor</rdfs:label>

```

```

        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="MTTHeavyTransporter">
        <rdfs:comment>MT-T heavy transporter</rdfs:comment>
        <rdfs:label>MT-T heavy transporter</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="GM569Tractor">
        <rdfs:comment>GM-569 tractor</rdfs:comment>
        <rdfs:label>GM-569 tractor</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="BTMHighSpeedDitchingMachine">
        <rdfs:comment>BTM high-speed ditching machine</rdfs:comment>
        <rdfs:label>BTM high-speed ditching machine</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="BTM3HighSpeedDitchingMachine">
        <rdfs:comment>BTM-3 high-speed ditching machine</rdfs:comment>
        <rdfs:label>BTM-3 high-speed ditching machine</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="BTMTMGHighSpeedDitchingMachine">
        <rdfs:comment>BTM-TMG high-speed ditching machine</rdfs:comment>
        <rdfs:label>BTM-TMG high-speed ditching machine</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="BTMTMG2SHighSpeedDitchingMachine">
        <rdfs:comment>BTM-TMG2S high-speed ditching machine</rdfs:comment>
        <rdfs:label>BTM-TMG2S high-speed ditching machine</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="MDK2TrenchDiggingMachine">
        <rdfs:comment>MDK-2 trench-digging machine</rdfs:comment>
        <rdfs:label>MDK-2 trench-digging machine</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="MDK2MTrenchDiggingMachine">
        <rdfs:comment>MDK-2M trench-digging machine</rdfs:comment>
        <rdfs:label>MDK-2M trench-digging machine</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="MDK3TrenchDiggingMachine">
        <rdfs:comment>MDK-3 trench-digging machine</rdfs:comment>
        <rdfs:label>MDK-3 trench-digging machine</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="BAT1HighSpeedTractorMountedbulldozer">
        <rdfs:comment>BAT-1 high-speed tractor-mounted
bulldozer</rdfs:comment>
        <rdfs:label>BAT-1 high-speed tractor-mounted bulldozer</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="BATMHighSpeedTractorMountedbulldozer">
        <rdfs:comment>BAT-M high-speed tractor-mounted
bulldozer</rdfs:comment>
        <rdfs:label>BAT-M high-speed tractor-mounted bulldozer</rdfs:label>

```

```

        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="OLTHighSpeedTractorMountedbulldozer">
        <rdfs:comment>OLT high-speed tractor-mounted
bulldozer</rdfs:comment>
        <rdfs:label>OLT high-speed tractor-mounted bulldozer</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="OSTHighSpeedTractorMountedbulldozer">
        <rdfs:comment>OST high-speed tractor-mounted
bulldozer</rdfs:comment>
        <rdfs:label>OST high-speed tractor-mounted bulldozer</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="OTTHighSpeedTractorMountedbulldozer">
        <rdfs:comment>OTT high-speed tractor-mounted
bulldozer</rdfs:comment>
        <rdfs:label>OTT high-speed tractor-mounted bulldozer</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="GMZMineLayer">
        <rdfs:comment>GMZ Mine Layer</rdfs:comment>
        <rdfs:label>GMZ Mine Layer</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M548">
        <rdfs:comment>M548 tracked cargo carrier</rdfs:comment>
        <rdfs:label>M548 tracked cargo carrier</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M1015">
        <rdfs:comment>M1015</rdfs:comment>
        <rdfs:label>M1015</rdfs:label>
        <rdfs:subClassOf rdf:resource="#M548"/>
    </owl:Class>
    <owl:Class rdf:ID="StretchedM548A1E1">
        <rdfs:comment>Stretched M548A1E1</rdfs:comment>
        <rdfs:label>Stretched M548A1E1</rdfs:label>
        <rdfs:subClassOf rdf:resource="#M548"/>
    </owl:Class>
    <owl:Class rdf:ID="RecoveryVehicles">
        <rdfs:comment>Recovery vehicles</rdfs:comment>
        <rdfs:label>Recovery vehicles</rdfs:label>
        <rdfs:subClassOf rdf:resource="#M548"/>
    </owl:Class>
    <owl:Class rdf:ID="RadarVehicles">
        <rdfs:comment>Radar vehicles</rdfs:comment>
        <rdfs:label>Radar vehicles</rdfs:label>
        <rdfs:subClassOf rdf:resource="#M548"/>
    </owl:Class>
    <owl:Class rdf:ID="M45">
        <rdfs:comment>M45</rdfs:comment>
        <rdfs:label>M45</rdfs:label>
        <rdfs:subClassOf rdf:resource="#M548"/>
    </owl:Class>
    <owl:Class rdf:ID="M548A1">
        <rdfs:comment>M548A1</rdfs:comment>

```

```

        <rdfs:label>M548A1</rdfs:label>
        <rdfs:subClassOf rdf:resource="#M548"/>
    </owl:Class>
    <owl:Class rdf:ID="M548GA1">
        <rdfs:comment>M548GA1</rdfs:comment>
        <rdfs:label>M548GA1</rdfs:label>
        <rdfs:subClassOf rdf:resource="#M548"/>
    </owl:Class>
    <owl:Class rdf:ID="M548S">
        <rdfs:comment>M548/S</rdfs:comment>
        <rdfs:label>M548/S</rdfs:label>
        <rdfs:subClassOf rdf:resource="#M548"/>
    </owl:Class>
    <owl:Class rdf:ID="LAR160">
        <rdfs:comment>LAR 160</rdfs:comment>
        <rdfs:label>LAR 160</rdfs:label>
        <rdfs:subClassOf rdf:resource="#M548"/>
    </owl:Class>
    <owl:Class rdf:ID="M992FAASV">
        <rdfs:comment>M992 Field Artillery Ammunition Support Vehicle
(FAASV)</rdfs:comment>
        <rdfs:label>M992 Field Artillery Ammunition Support Vehicle
(FAASV)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="M993MLRSCarrier">
        <rdfs:comment>M993 MLRS carrier</rdfs:comment>
        <rdfs:label>M993 MLRS carrier</rdfs:label>
        <rdfs:subClassOf rdf:resource="#M992FAASV"/>
    </owl:Class>
    <owl:Class rdf:ID="XM987CargoCarrier">
        <rdfs:comment>XM987 cargo carrier</rdfs:comment>
        <rdfs:label>XM987 cargo carrier</rdfs:label>
        <rdfs:subClassOf rdf:resource="#M992FAASV"/>
    </owl:Class>
    <owl:Class rdf:ID="ArmoredForwardAreaRearmVehicleAFARV">
        <rdfs:comment>Armored, Forward-Area, Rearm Vehicle
(AFARV)</rdfs:comment>
        <rdfs:label>Armored, Forward-Area, Rearm Vehicle
(AFARV)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#M992FAASV"/>
    </owl:Class>
    <owl:Class rdf:ID="ArmoredMaintenanceVehicle">
        <rdfs:comment>Armored Maintenance Vehicle</rdfs:comment>
        <rdfs:label>Armored Maintenance Vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#M992FAASV"/>
    </owl:Class>
    <owl:Class rdf:ID="XM1070ElectronicFightingVehicleSystemEFVS">
        <rdfs:comment>XM1070 Electronic Fighting Vehicle System
(EFVS)</rdfs:comment>
        <rdfs:label>XM1070 Electronic Fighting Vehicle System
(EFVS)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#M992FAASV"/>
    </owl:Class>
    <owl:Class rdf:ID="CommandpostVehicle">
        <rdfs:comment>Command-post vehicle</rdfs:comment>
        <rdfs:label>Command-post vehicle</rdfs:label>

```



```

        <rdfs:subClassOf rdf:resource="#M992FAASV"/>
    </owl:Class>
    <owl:Class rdf:ID="M973SmallUnitSupportVehicleSUSV">
        <rdfs:comment>M973 Small Unit Support Vehicle (SUSV)</rdfs:comment>
        <rdfs:label>M973 Small Unit Support Vehicle (SUSV)</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="LMC1500OversnowVehicle">
        <rdfs:comment>LMC 1500 Over-snow vehicle</rdfs:comment>
        <rdfs:label>LMC 1500 Over-snow vehicle</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLTUV"/>
    </owl:Class>
    <owl:Class
rdf:ID="Caterpillar98850000lb22680kgroughterraincontainerhandler">
        <rdfs:comment>Caterpillar 988 50,000-lb (22,680-kg) rough terrain
container handler</rdfs:comment>
        <rdfs:label>Caterpillar 988 50,000-lb (22,680-kg) rough terrain
container handler</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USLTUV"/>
    </owl:Class>
    <owl:Class rdf:ID="GermanyMortar">
        <rdfs:comment>Germany</rdfs:comment>
        <rdfs:label>Germany</rdfs:label>
        <rdfs:subClassOf rdf:resource="#Mortar"/>
    </owl:Class>
    <owl:Class rdf:ID="ItalyMortar">
        <rdfs:comment>Italy</rdfs:comment>
        <rdfs:label>Italy</rdfs:label>
        <rdfs:subClassOf rdf:resource="#Mortar"/>
    </owl:Class>
    <owl:Class rdf:ID="CISMortar">
        <rdfs:comment>Commonwealth of Independent States</rdfs:comment>
        <rdfs:label>Commonwealth of Independent States</rdfs:label>
        <rdfs:subClassOf rdf:resource="#Mortar"/>
    </owl:Class>
    <owl:Class rdf:ID="USMortar">
        <rdfs:comment>United States</rdfs:comment>
        <rdfs:label>United States</rdfs:label>
        <rdfs:subClassOf rdf:resource="#Mortar"/>
    </owl:Class>
    <owl:Class rdf:ID="M113ArmoredMortar">
        <rdfs:comment>M113 armored mortar</rdfs:comment>
        <rdfs:label>M113 armored mortar</rdfs:label>
        <rdfs:subClassOf rdf:resource="#GermanyMortar"/>
    </owl:Class>
    <owl:Class rdf:ID="ItalyMortar120mm">
        <rdfs:comment>120 mm</rdfs:comment>
        <rdfs:label>120 mm</rdfs:label>
        <rdfs:subClassOf rdf:resource="#ItalyMortar"/>
    </owl:Class>
    <owl:Class rdf:ID="ItalyMortar81mm">
        <rdfs:comment>81 mm</rdfs:comment>
        <rdfs:label>81 mm</rdfs:label>
        <rdfs:subClassOf rdf:resource="#ItalyMortar"/>
    </owl:Class>
    <owl:Class rdf:ID="M3682mm">
        <rdfs:comment>M-36 82-mm</rdfs:comment>

```

```

        <rdfs:label>M-36 82-mm</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISMortar"/>
    </owl:Class>
    <owl:Class rdf:ID="M3782mm">
        <rdfs:comment>M-37 82-mm</rdfs:comment>
        <rdfs:label>M-37 82-mm</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISMortar"/>
    </owl:Class>
    <owl:Class rdf:ID="M3782mmnew">
        <rdfs:comment>M-37 82-mm "new"</rdfs:comment>
        <rdfs:label>M-37 82-mm "new"</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISMortar"/>
    </owl:Class>
    <owl:Class rdf:ID="M4182mm">
        <rdfs:comment>M-41 82-mm</rdfs:comment>
        <rdfs:label>M-41 82-mm</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISMortar"/>
    </owl:Class>
    <owl:Class rdf:ID="AM2B9Vasilek82mmAutomatic">
        <rdfs:comment>AM 2B9 "Vasilek" 82-mm automatic</rdfs:comment>
        <rdfs:label>AM 2B9 "Vasilek" 82-mm automatic</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISMortar"/>
    </owl:Class>
    <owl:Class rdf:ID="M38107mm">
        <rdfs:comment>M-38 107-mm</rdfs:comment>
        <rdfs:label>M-38 107-mm</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISMortar"/>
    </owl:Class>
    <owl:Class rdf:ID="CISMortar2S12120mm">
        <rdfs:comment>2S12 120-mm</rdfs:comment>
        <rdfs:label>2S12 120-mm</rdfs:label>
        <rdfs:subClassOf rdf:resource="#CISMortar"/>
    </owl:Class>
    <owl:Class rdf:ID="M2981mm">
        <rdfs:comment>M29 81-mm</rdfs:comment>
        <rdfs:label>M29 81-mm</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USMortar"/>
    </owl:Class>
    <owl:Class rdf:ID="M22460mmLightCompanyMortar">
        <rdfs:comment>M224 60-mm light company mortar</rdfs:comment>
        <rdfs:label>M224 60-mm light company mortar</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USMortar"/>
    </owl:Class>
    <owl:Class rdf:ID="M181mm">
        <rdfs:comment>M1 81-mm</rdfs:comment>
        <rdfs:label>M1 81-mm</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USMortar"/>
    </owl:Class>
    <owl:Class rdf:ID="M260mm">
        <rdfs:comment>M2 60-mm</rdfs:comment>
        <rdfs:label>M2 60-mm</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USMortar"/>
    </owl:Class>
    <owl:Class rdf:ID="M1960mm">
        <rdfs:comment>M19 60-mm</rdfs:comment>
        <rdfs:label>M19 60-mm</rdfs:label>
        <rdfs:subClassOf rdf:resource="#USMortar"/>
    </owl:Class>

```

```

</owl:Class>
<owl:Class rdf:ID="M29A181mm">
  <rdfs:comment>M29A1 81-mm</rdfs:comment>
  <rdfs:label>M29A1 81-mm</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USMortar"/>
</owl:Class>
<owl:Class rdf:ID="M30107mmrifled">
  <rdfs:comment>M30 107-mm rifled</rdfs:comment>
  <rdfs:label>M30 107-mm rifled</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USMortar"/>
</owl:Class>
<owl:Class rdf:ID="M25281mm">
  <rdfs:comment>M252 81-mm</rdfs:comment>
  <rdfs:label>M252 81-mm</rdfs:label>
  <rdfs:subClassOf rdf:resource="#USMortar"/>
</owl:Class>
<owl:Class rdf:ID="CISMinePlow">
  <rdfs:comment>CISMinePlow</rdfs:comment>
  <rdfs:label>CISMinePlow</rdfs:label>
  <rdfs:subClassOf rdf:resource="#MinePlow"/>
</owl:Class>
<owl:Class rdf:ID="KMT5M">
  <rdfs:comment>KMT-5M</rdfs:comment>
  <rdfs:label>KMT-5M</rdfs:label>
  <rdfs:subClassOf rdf:resource="#CISMinePlow"/>
</owl:Class>
</rdf:RDF>

```

Appendix U: TTP Ontology

```

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"

  xmlns:ttp="http://orlando.drc.com/semanticweb/OWL/Ontology/TTP/ver/0.2.0/TTP-ont#"
  xmlns="http://orlando.drc.com/semanticweb/OWL/Ontology/TTP/ver/0.2.0/TTP-ont#"

  xml:base="http://orlando.drc.com/semanticweb/OWL/Ontology/TTP/ver/0.2.0/TTP-ont#">
<owl:Ontology rdf:about="">
  <rdfs:comment>This ontology is used to represent generic TTP structure concepts. Instances of TTP will contain procedural information about a particular domain.</rdfs:comment>
  <owl:priorVersion
rdf:resource="http://orlando.drc.com/semanticweb/OWL/Ontology/TTP/ver/0.1.0/TTP-ont"/>
    <rdfs:label>Tactics Techniques and Procedures Ontology</rdfs:label>
</owl:Ontology>
<owl:Class rdf:ID="Condition">
  <rdfs:label>Condition</rdfs:label>
  <rdfs:comment>The condition class is used to represent the situation under which TTP is executed.</rdfs:comment>
</owl:Class>
<owl:Class rdf:ID="ConditionValue">
  <rdfs:label>Condition Value</rdfs:label>
  <rdfs:comment>The ConditionValue class is used to represent the alternative values for the Condition.</rdfs:comment>
</owl:Class>
<owl:Class rdf:ID="Domain">
  <rdfs:label>Domain</rdfs:label>
  <rdfs:comment>The domain class is used to organize TTP information for a particular community of interest.</rdfs:comment>
</owl:Class>
<owl:Class rdf:ID="FormattedItem">
  <rdfs:label>Formatted Item</rdfs:label>
  <rdfs:comment>The FormattedItem class is used to represent the superset of classes that can be formatted on the fly.</rdfs:comment>
</owl:Class>
<owl:Class rdf:ID="Index">
  <rdfs:label>Index</rdfs:label>
  <rdfs:comment>The Index class is used to represent a set of terms used to quickly navigate to associated TTP content.</rdfs:comment>
</owl:Class>
<owl:Class rdf:ID="IndexTerm">
  <rdfs:label>Index Term</rdfs:label>
  <rdfs:comment>The IndexTerm class is used to represent an item that can be used to directly navigate to TTP content.</rdfs:comment>
</owl:Class>
<owl:Class rdf:ID="TTP">
  <rdfs:label>TTP</rdfs:label>
  <rdfs:comment>The TTP class is used to represent the highest level collection of TTP information for a domain.</rdfs:comment>

```

```

</owl:Class>
<owl:ObjectProperty rdf:ID="hasTTP">
  <rdfs:label>Has TTP</rdfs:label>
  <rdfs:comment>The hasTTP property is the ownership property for the TTP
class.</rdfs:comment>
  <rdfs:domain rdf:resource="http://www.w3.org/2002/07/owl#Thing"/>
  <rdfs:range rdf:resource="#TTP" />
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="hasTerm">
  <rdfs:label>Has Term</rdfs:label>
  <rdfs:comment>The hasTerm property is the ownership property of the
IndexTerm class.</rdfs:comment>
  <rdfs:domain rdf:resource="http://www.w3.org/2002/07/owl#Thing"/>
  <rdfs:range rdf:resource="#IndexTerm" />
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="hasAssociatedCondition">
  <rdfs:label>Has Associated Condition</rdfs:label>
  <rdfs:comment>The hasAssociatedCondition property associates a condition
with the subject.</rdfs:comment>
  <rdfs:domain rdf:resource="http://www.w3.org/2002/07/owl#Thing"/>
  <rdfs:range rdf:resource="#Condition" />
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="hasConditionValue">
  <rdfs:label>Has Condition Value</rdfs:label>
  <rdfs:comment>The conditionValue property associates a particular value
with a condition.</rdfs:comment>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="hasDefaultValue">
  <rdfs:label>Has Default Value</rdfs:label>
  <rdfs:comment>The defaultValue property is used to identify the default
value of a condition.</rdfs:comment>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="isValidFor">
  <rdfs:label>Is Valid For</rdfs:label>
  <rdfs:comment>The validFor property identifies a condition value that must
be true to present the subject piece of procedural information.</rdfs:comment>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="describesDomain">
  <rdfs:label>describesDomain</rdfs:label>
  <rdfs:comment>The describesDomain property identifies the Domain that an
object belongs to.</rdfs:comment>
  <rdfs:domain rdf:resource="http://www.w3.org/2002/07/owl#Thing"/>
  <rdfs:range rdf:resource="#Domain" />
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="partOfTTP">
  <rdfs:label>partOfTTP</rdfs:label>
  <rdfs:comment>The partOfTTP property identifies the TTP that an object
belongs to.</rdfs:comment>
  <rdfs:domain rdf:resource="http://www.w3.org/2002/07/owl#Thing"/>
  <rdfs:range rdf:resource="#TTP" />
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="hasFormattedItem">
  <rdfs:label>hasFormattedItem</rdfs:label>
  <rdfs:comment>The hasFormattedItem property references a formatted
item.</rdfs:comment>
  <rdfs:domain rdf:resource="http://www.w3.org/2002/07/owl#Thing"/>
  <rdfs:range rdf:resource="#FormattedItem" />

```

```
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="describesCondition">
  <rdfs:label>describesCondition</rdfs:label>
  <rdfs:comment>The describesCondition references an associated
Condition.</rdfs:comment>
  <rdfs:domain rdf:resource="http://www.w3.org/2002/07/owl#Thing"/>
  <rdfs:range rdf:resource="#Condition" />
</owl:ObjectProperty>
</rdf:RDF>
```

Appendix V: Genealogy Ontology


```

    <?xml version="1.0" ?>
    <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns="http://www.daml.org/2000/10/daml-ont#"
xmlns:daml="http://www.daml.org/2000/10/daml-ont#"
xmlns:a="https://www.daml.org/actionitems/actionitems-20000905.rdfs#">
<!-- Genealogy Ontology
-->
<!-- mark DAML program action item 12 as complete
-->
    <rdf:Description about="https://www.daml.org/actionitems/12.rdf">
    <a:state>closed</a:state>
    <a:Action>
    <a:status>available at http://orl01.drc.com/daml/GenAML-Sample/GenAML-
ont.daml</a:status>
    <a:date>2000-11-02</a:date>
    <a:by>llacy@drc.com</a:by>
    </a:Action>
    </rdf:Description>
<Ontology about="">
    <versionInfo>$Id: GenAML-ont.daml, v 1.1, 2000/11/2 $</versionInfo>
    <comment>A Sample Genealogy Ontology</comment>
    <imports resource="http://www.daml.org/2000/10/daml-ont" />
    </Ontology>

<!-- GedAML root class -->
    <Class ID="GenAMLComponent">
    <label>GenAMLComponent</label>
    <comment>This is an ontology of information about family relationships based
on the GedML XML DTD - http://users.iclway.co.uk/mhkay/gedml/.</comment>
    </Class>

<!-- Header stuff ***** -->
- <Class ID="Header">
    <label>Header</label>

    <subClassOf resource="#GenAMLComponent" />
    </Class>

<!-- Individual stuff ***** -->
    <Class ID="Individual">
    <label>Individual</label>
    <comment>This is an individual (GECOM INDI)</comment>
    </Class>

<Property ID="INDIID">
    <domain resource="#Individual" />
    <comment>Individual's Identifier (GEDML INDI ID attribute)</comment>
    </Property>

<Property ID="Name">
    <domain resource="#Individual" />
    <range resource="#IndividualName" />
    <comment>Individual's Name (GEDCOM NAME)</comment>
    </Property>

<Property ID="Sex">

```

```

    <domain resource="#Individual" />
    <comment>Individual's Gender (GEDCOM SEX)</comment>
  </Property>

<!-- Name stuff ***** -->
  <Class ID="IndividualName">
    <label>IndividualName</label>
    <comment>This is an individual's name (GEDCOM NAME)</comment>
  </Class>

  <Property ID="Surname">
    <domain resource="#IndividualName" />
    <comment>Individual's Surname (GEDCOM S)</comment>
  </Property>

  <Property ID="NamePrefix">
    <domain resource="#IndividualName" />
    <comment>Individual's Name Prefix (GEDCOM NPFX)</comment>
  </Property>

  <Property ID="GivenName">
    <domain resource="#IndividualName" />
    <comment>Individual's Given Name (GEDCOM GIVN)</comment>
  </Property>

  <Property ID="Nickname">
    <domain resource="#IndividualName" />
    <comment>Individual's Nickname (GEDCOM NICK)</comment>
  </Property>

  <Property ID="SurnamePrefix">
    <domain resource="#IndividualName" />
    <comment>Individual's Surname Prefix (GEDCOM SPFX)</comment>
  </Property>

  <Property ID="NamePrefix">
    <domain resource="#IndividualName" />
    <comment>Individual's Name Prefix (GEDCOM NSFX)</comment>
  </Property>

<!-- Event stuff ***** -->
- <Class ID="Event">
  <label>Event</label>
  <comment>This is an event (GEDCOM EVEN)</comment>
</Class>

  <Property ID="EventType">
    <domain resource="#Event" />
    <comment>Type of Event (GEDML EVEN EV attribute)</comment>
  </Property>

<!--
Event type (range???):  BIRT | CHR | DEAT | BURI | CREM | ADOP | BAPM | BARM |
BASM
                        | BLES | CHRA | CONF | FCOM | ORDN | NATU | EMIG | IMMI | CENS | PROB

```

```

        | WILL | GRAD | RETI
        | CAST | DSCR | EDUC | IDNO | NATI | NCHI | NMR | OCCU | PROP | RELI
        | RESI | SSN | TITL
        | ANUL | DIV | DIVF | ENGA | MARR | MARB | MARC | MARL | MARS
-->

<Property ID="Date">
  <domain resource="#Event" />
  <comment>Event's occurrence date</comment>
</Property>

<Property ID="Location">
  <domain resource="#Event" />
  <comment>Event's occurrence location</comment>
</Property>

<!-- Source stuff ***** -->
<Class ID="Source">
  <label>Source</label>
  <comment>This is a source for a piece of information (GECOM SOUR)</comment>
</Class>

<!-- Source citation -->
<!-- ELEMENT SOUR ( #PCDATA | PAGE | EVEN | DATA | QUAY | NOTE
| OBJE | CONC | CONT | TEXT ) * >
<!-- ATTLIST SOUR REF IDREF #IMPLIED >

<!-- Family stuff ***** -->
<Class ID="Family">
  <label>Family</label>
  <comment>This is a family unit (GECOM FAM)</comment>
</Class>

<Property ID="FAMIID">
  <domain resource="#Family" />
  <comment>Family's Identifier (GEDML FAM ID attribute)</comment>
</Property>

<Property ID="Husband">
  <domain resource="#Family" />
  <range resource="#Individual" />
  <comment>Husband of the Family(GEDCOM HUSB)</comment>
</Property>

<Property ID="WIFE">
  <domain resource="#Family" />
  <range resource="#Individual" />
  <comment>Wife of the Family(GEDCOM WIFE)</comment>
</Property>

```

Appendix W: Locator Ontology

```

<?xml version="1.0"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:dc="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-ont#"
  xmlns:ves="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-ves-ont#"
  xmlns:loc="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Locator/ver/0.1.0/Locator-ont#"
  xmlns="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Locator/ver/0.1.0/Locator-ont#"
>
  <!-- Locator Ontology -->
  <owl:Ontology rdf:about="">
    <ves:versioning>
      <ves:VersionData>
        <dc:title>Locator Ontology</dc:title>
        <ves:version>0.1.0</ves:version>
        <ves:email>TeamXML@drc.com</ves:email>
        <dc:creator>DRC</dc:creator>
        <ves:releaseDate>2003-07-14</ves:releaseDate>
        <ves:releaseLevel>beta</ves:releaseLevel>
        <ves:status>current</ves:status>
      </ves:VersionData>
    </ves:versioning>
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-ves-ont"/>
      <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/dc/ver/0.1.0/dces-ont"/>
      <rdfs:comment>This is an ontology for a locator.</rdfs:comment>
    </owl:Ontology>
    <!-- Base -->
    <owl:Class rdf:ID="Locator">
      <rdfs:label>Locator Class</rdfs:label>
    </owl:Class>
    <owl:DatatypeProperty rdf:ID="locator">
      <rdfs:label>Locator Property</rdfs:label>
    </owl:DatatypeProperty>
    <!-- Physical Locator -->
    <owl:Class rdf:ID="PhysicalLocator">
      <rdfs:subClassOf rdf:resource="#Locator"/>
    </owl:Class>
    <owl:DatatypeProperty rdf:ID="physicalLocator">
      <rdfs:subPropertyOf rdf:resource="#locator"/>
    </owl:DatatypeProperty>
    <!-- Postal Address -->
    <owl:DatatypeProperty rdf:ID="postalAddress">
      <rdfs:subPropertyOf rdf:resource="#physicalLocator"/>
    </owl:DatatypeProperty>
    <owl:Class rdf:ID="PostalAddress">
      <rdfs:subClassOf rdf:resource="#PhysicalLocator"/>
      <rdfs:subClassOf>

```

```

        <owl:Restriction rdf:about="#r-n1-addressLine"/>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction rdf:about="#r-x1-city"/>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction rdf:about="#r-x1-province"/>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction rdf:about="#r-x1-state"/>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction rdf:about="#r-c1-postalCode"/>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
        <owl:Restriction rdf:about="#r-x1-country"/>
    </rdfs:subClassOf>
</owl:Class>
<!-- Named Restrictions for Adress Properties -->
<owl:Restriction owl:minCardinality="1" rdf:ID="r-n1-addressLine">
    <owl:onProperty rdf:resource="#addressLine"/>
    <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:Restriction>
    <owl:Restriction owl:maxCardinality="1" rdf:ID="r-x1-city">
        <owl:onProperty rdf:resource="#city"/>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:Restriction>
    <owl:Restriction owl:maxCardinality="1" rdf:ID="r-x1-province">
        <owl:onProperty rdf:resource="#province"/>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:Restriction>
    <owl:Restriction owl:maxCardinality="1" rdf:ID="r-x1-state">
        <owl:onProperty rdf:resource="#state"/>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:Restriction>
    <owl:Restriction owl:cardinality="1" rdf:ID="r-c1-postalCode">
        <owl:onProperty rdf:resource="#postalCode"/>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:Restriction>
    <owl:Restriction owl:maxCardinality="1" rdf:ID="r-x1-country">
        <owl:onProperty rdf:resource="#country"/>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </owl:Restriction>
<!-- Address Properties -->
<owl:DatatypeProperty rdf:ID="addressLine">
    <rdfs:label>Address Line</rdfs:label>
    <rdfs:comment>Street address, Apt #, Suite #, AP0, C/O, etc... type
information</rdfs:comment>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="city">

```

```

        <rdfs:label>City</rdfs:label>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="state">
        <rdfs:label>State</rdfs:label>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="province">
        <rdfs:label>Province</rdfs:label>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="postalCode">
        <rdfs:label>Postal Code</rdfs:label>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="zipCode">
        <rdfs:label>Zip Code</rdfs:label>
        <owl:equivalentProperty rdf:resource="#postalCode"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="country">
        <rdfs:label>Country</rdfs:label>
    </owl:DatatypeProperty>
    <!-- Electronic Locator -->
    <owl:Class rdf:ID="ElectronicLocator">
        <rdfs:subClassOf rdf:resource="#Locator"/>
    </owl:Class>
    <owl:DatatypeProperty rdf:ID="electronicLocator">
        <rdfs:subPropertyOf rdf:resource="#locator"/>
    </owl:DatatypeProperty>
    <!-- Email Address Classes -->
    <owl:Class rdf:ID="EmailAddress">
        <rdfs:subClassOf rdf:resource="#ElectronicLocator"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:minCardinality="1">
                <owl:onProperty rdf:resource="#emailAddress"/>
                <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
    <owl:Class rdf:ID="Email">
        <rdfs:subClassOf rdf:resource="#EmailAddress"/>
    </owl:Class>
    <!-- Email Properties -->

    <owl:DatatypeProperty rdf:ID="emailAddress">
        <rdfs:label>Email Address</rdfs:label>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="email">
        <rdfs:label>email</rdfs:label>
        <rdfs:subPropertyOf rdf:resource="#emailAddress"/>
    </owl:DatatypeProperty>
    <!-- Telephone Classes -->
    <owl:Class rdf:ID="TelephoneNumber">
        <rdfs:label>Telephone Numbers</rdfs:label>
        <rdfs:subClassOf rdf:resource="#ElectronicLocator"/>
    </owl:Class>
    <owl:Class rdf:ID="HomeTel">
        <rdfs:subClassOf rdf:resource="#TelephoneNumber"/>
        <rdfs:subClassOf>
            <owl:Restriction owl:minCardinality="1">

```

```

        <owl:onProperty rdf:resource="#homeTel"/>
        <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="WorkTel">
    <rdfs:subClassOf rdf:resource="#TelephoneNumber"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:minCardinality="1">
            <owl:onProperty rdf:resource="#workTel"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="CellularTel">
    <rdfs:subClassOf rdf:resource="#TelephoneNumber"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:minCardinality="1">
            <owl:onProperty rdf:resource="#cellular"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="PagerTel">
    <rdfs:subClassOf rdf:resource="#TelephoneNumber"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:minCardinality="1">
            <owl:onProperty rdf:resource="#pager"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<owl:Class rdf:ID="FaxTel">
    <rdfs:subClassOf rdf:resource="#TelephoneNumber"/>
    <rdfs:subClassOf>
        <owl:Restriction owl:minCardinality="1">
            <owl:onProperty rdf:resource="#fax"/>
            <owl:allValuesFrom
rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
            </owl:Restriction>
        </rdfs:subClassOf>
    </owl:Class>
<!-- Telephone Number Properties -->
<owl:DatatypeProperty rdf:ID="tel">
    <rdfs:label>Telephone Number</rdfs:label>
    <rdfs:subPropertyOf rdf:resource="#electronicLocator"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="homeTel">
    <rdfs:label>Home Telephone Number</rdfs:label>
    <rdfs:subPropertyOf rdf:resource="#tel"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="workTel">
    <rdfs:label>Work Telephone Number</rdfs:label>

```



```

        <rdfs:subPropertyOf rdf:resource="#tel"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="fax">
        <rdfs:label>Fax</rdfs:label>
        <rdfs:subPropertyOf rdf:resource="#tel"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="pager">
        <rdfs:label>Line</rdfs:label>
        <rdfs:subPropertyOf rdf:resource="#tel"/>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="cellular">
        <rdfs:label>Cellular</rdfs:label>
        <rdfs:subPropertyOf rdf:resource="#tel"/>
    </owl:DatatypeProperty>
    <!-- GPS should have its own ontology and should be a subclass of the
PhysicalLocator. -->
    <owl:Class rdf:ID="GPSCoordinates">
        <rdfs:subClassOf rdf:resource="#PhysicalLocator"/>
        <owl:equivalentClass
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/GeoSpatialCoordina
tes/ver/0.1.0/GeoSpatialCoordinates-ont#GPSCoordinates"/>
    </owl:Class>
</rdf:RDF>

```

Appendix X: Organization Ontology

```

<?xml version="1.0"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:daml="http://www.daml.org/2001/03/daml+oil#"
  xmlns:xsd="http://www.w3.org/2000/10/XMLSchema#"
  xmlns:dc="http://orlando.drc.com/daml/ontology/DC/3.1/dces-ont#"
  xmlns:ves="http://orlando.drc.com/daml/ontology/VES/3.1/drc-ves-ont#"

  xmlns:org="http://orlando.drc.com/daml/ontology/Organization/3.1.1/Organization-ont#"
  xmlns="http://orlando.drc.com/daml/ontology/Organization/3.1.1/Organization-ont#"
>
  <!-- Organization Ontology -->
  <daml:Ontology rdf:about="">
    <dc:title>Organization Ontology</dc:title>

    <ves:previous>http://orlando.drc.com/daml/ontology/Organization/3.1/Organization-ont.daml</ves:previous>

    <ves:location>http://orlando.drc.com/daml/ontology/Organization/3.1.1/Organization-ont.daml</ves:location>
    <ves:version>3.1.1</ves:version>
    <ves:email>TeamXML@drc.com</ves:email>
    <dc:creator>DRC</dc:creator>
    <ves:status>published</ves:status>
    <ves:statusDate>2001-10-12</ves:statusDate>
    <daml:imports rdf:resource="http://www.daml.org/2001/03/daml+oil"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/ontology/VES/3.1/drc-ves-ont"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/Ontology/daml-extension/3.1/daml-ext-ont"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/ontology/UniversalProperty/3.1/UniversalProperty-ont"/>
    <daml:comment>This is an ontology for a generic organizational structure.</daml:comment>
  </daml:Ontology>
  <!-- Organization Class -->
  <daml:Class rdf:ID="Organization">
    <daml:comment>An organization is something made up of units with varied functions that contribute to the whole and to collective functions.</daml:comment>
    <daml:comment>The building block of an organization is an organizational unit. Every "part" of the organization is a unit, including the organization itself.</daml:comment>
  </daml:Class>
  <!-- Global Properties -->
  <daml:DatatypeProperty rdf:ID="mission">
    <daml:domain rdf:resource="#Organization"/>
    <daml:domain rdf:resource="#OrganizationType"/>
    <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
    <daml:comment>Defines the mission (purpose / function) of both the Organization and the Type.</daml:comment>
  </daml:DatatypeProperty>

```

```

    </daml:DatatypeProperty>
    <!-- Organization Properties -->
    <daml:DatatypeProperty rdf:ID="organizationName">
      <daml:subPropertyOf
rdf:resource="http://orlando.drc.com/daml/ontology/UniversalProperty/3.1/Univers
alProperty-ont#name"/>
      <daml:domain rdf:resource="#Organization"/>
      <daml:comment>The name of the Organization</daml:comment>
    </daml:DatatypeProperty>
    <daml:DatatypeProperty rdf:ID="organizationAlias">
      <daml:subPropertyOf
rdf:resource="http://orlando.drc.com/daml/ontology/UniversalProperty/3.1/Univers
alProperty-ont#alias"/>
      <daml:domain rdf:resource="#Organization"/>
      <daml:comment>An alternate name for the Organization, possibly an
acronym.</daml:comment>
    </daml:DatatypeProperty>
    <daml:ObjectProperty rdf:ID="hasType">
      <daml:domain rdf:resource="#Organization"/>
      <daml:range rdf:resource="#OrganizationType"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="hasMember">
      <daml:domain rdf:resource="#Organization"/>

      <daml:range rdf:resource="#Member"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="hasAddress">
      <daml:label>has Address</daml:label>
      <daml:domain rdf:resource="#Organization"/>
      <daml:range
rdf:resource="http://orlando.drc.com/daml/ontology/Locator/3.2/Locator-
ont#PostalAddress"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="hasTelephoneNumber">
      <daml:label>has Telephone Number</daml:label>
      <daml:domain rdf:resource="#Organization"/>
      <daml:range
rdf:resource="http://orlando.drc.com/daml/ontology/Locator/3.2/Locator-
ont#TelephoneNumber"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="hasEmail">
      <daml:label>has Email address</daml:label>
      <daml:domain rdf:resource="#Organization"/>
      <daml:range
rdf:resource="http://orlando.drc.com/daml/ontology/Locator/3.2/Locator-
ont#Email"/>
    </daml:ObjectProperty>
    <daml:TransitiveProperty rdf:ID="partOf">
      <daml:domain rdf:resource="#Organization"/>
      <daml:range rdf:resource="#Organization"/>
      <daml:comment>The "parent" property of a "child" organization which
is part of some "parent" organization.</daml:comment>
    </daml:TransitiveProperty>
    <daml:TransitiveProperty rdf:ID="subOrganization">
      <daml:inverseOf rdf:resource="#partOf"/>
      <daml:domain rdf:resource="#Organization"/>
      <daml:range rdf:resource="#Organization"/>

```

```

        <daml:comment>The "child" property of a "parent" organization which
has "child" / "sub" organization(s).</daml:comment>
    </daml:TransitiveProperty>
    <!-- Organization Type Class -->
    <daml:Class rdf:ID="OrganizationType">
        <daml:label>Organization Type</daml:label>
        <daml:comment>The type of organization.</daml:comment>
    </daml:Class>
    <!-- Organization Type Properties -->
    <daml:DatatypeProperty rdf:ID="typeName">
        <daml:subPropertyOf
rdf:resource="http://orlando.drc.com/daml/ontology/UniversalProperty/3.1/Univers
alProperty-ont#name"/>
        <daml:domain rdf:resource="#OrganizationType"/>
    </daml:DatatypeProperty>
    <!-- Member Class -->
    <daml:Class rdf:ID="Member">
        <daml:label>Member</daml:label>
        <daml:subClassOf
rdf:resource="http://orlando.drc.com/daml/ontology/Person/3.1/Person-
ont#Person"/>
        <daml:comment>A person who has membership in an
organization.</daml:comment>
    </daml:Class>
    <!-- Member Properties -->

    <daml:DatatypeProperty rdf:ID="role">
        <daml:domain rdf:resource="#Member"/>
        <daml:range
rdf:resource="http://www.w3.org/2000/10/XMLSchema#string"/>
        <daml:comment>Defines the role of the Member in an
organization.</daml:comment>
    </daml:DatatypeProperty>
</rdf:RDF>

```

Appendix Y: Person Ontology

```

<?xml version="1.0" ?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:ves="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont#"
  xmlns:dc="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont#"

  xmlns:prsn="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Person/0.1.1/Person-
ont#"
  xmlns="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Person/0.1.1/Person-
ont#"
>
  <!-- Person Ontology -->
  <owl:Ontology rdf:about="">
    <ves:versioning>
      <ves:VersionData>
        <dc:title>Person Ontology</dc:title>
        <ves:version>0.1.1</ves:version>
        <ves:email>_TeamXML@drc.com</ves:email>
        <dc:creator>DRC</dc:creator>
        <ves:releaseDate>2003-07-18</ves:releaseDate>
        <ves:releaseLevel>beta</ves:releaseLevel>
        <ves:status>current</ves:status>
      </ves:VersionData>
    </ves:versioning>
    <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/VES/ver/0.1.0/drc-
ves-ont"/>
      <owl:imports
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/DC/ver/0.1.0/dces-
ont"/>
      <rdfs:comment>This is an ontology for a person.</rdfs:comment>
    </owl:Ontology>

    <owl:Class rdf:ID="Person">
      <rdfs:label>Person</rdfs:label>
    </owl:Class>
    <owl:DatatypeProperty rdf:ID="title">
      <rdfs:label>Title</rdfs:label>
      <rdfs:domain rdf:resource="#Person"/>
      <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
      <rdfs:comment>Person's Prefix / Complimentary Title</rdfs:comment>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="lastName">
      <rdfs:label>Last Name</rdfs:label>
      <rdfs:domain rdf:resource="#Person"/>
      <rdfs:comment>Person's Last Name</rdfs:comment>
    </owl:DatatypeProperty>
    <owl:DatatypeProperty rdf:ID="firstName">
      <rdfs:label>First Name</rdfs:label>
      <rdfs:domain rdf:resource="#Person"/>
      <rdfs:comment>Person's First Name</rdfs:comment>
    </owl:DatatypeProperty>

```

```

<owl:DatatypeProperty rdf:ID="middleName">
  <rdfs:label>Middle Name</rdfs:label>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:comment>Person's Middle Name</rdfs:comment>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="displayName">
  <rdfs:label>Display Name</rdfs:label>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:comment>Person's Display Name</rdfs:comment>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="alias">
  <rdfs:label>Alias</rdfs:label>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:comment>Person's Alias</rdfs:comment>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="nickname">
  <rdfs:label>Nickname</rdfs:label>
  <rdfs:subPropertyOf rdf:resource="#alias"/>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:comment>Person's Nickname</rdfs:comment>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="gender">
  <rdfs:label>Gender</rdfs:label>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:range
rdf:resource="http://orlando.drc.com/SemanticWeb/DataType/Person/ver/0.1.0/Person-dt#enumerationGender"/>
  <rdfs:comment>Person's Gender</rdfs:comment>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="identificationNumber">
  <rdfs:label>Identification Number</rdfs:label>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  <rdfs:comment>A person's identifying number.</rdfs:comment>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="ssn">
  <rdfs:label>Social Security Number</rdfs:label>
  <owl:equivalentProperty rdf:resource="#identificationNumber"/>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:comment>A person's SSN.</rdfs:comment>
</owl:DatatypeProperty>
<owl:ObjectProperty rdf:ID="hasAddress">
  <rdfs:label>has Address</rdfs:label>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:range
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Locator/ver/0.1.0/Locator-ont#PostalAddress"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="hasTelephoneNumber">
  <rdfs:label>has Telephone Number</rdfs:label>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:range
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Locator/ver/0.1.0/Locator-ont#TelephoneNumber"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="hasEmail">
  <rdfs:label>has Email address</rdfs:label>

```



```
        <rdfs:domain rdf:resource="#Person"/>
        <rdfs:range
rdf:resource="http://orlando.drc.com/SemanticWeb/OWL/Ontology/Locator/ver/0.1.0/
Locator-ont#Email"/>
        </owl:ObjectProperty>
</rdf:RDF>
```

Appendix Z: POC Ontology

```

<?xml version="1.0"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:daml="http://www.daml.org/2001/03/daml+oil#"
  xmlns:xsd="http://www.w3.org/2000/10/XMLSchema#"
  xmlns:dc="http://orlando.drc.com/daml/ontology/DC/3.1/dces-ont#"
  xmlns:ves="http://orlando.drc.com/daml/ontology/VES/3.1/drc-ves-ont#"
  xmlns:poc="http://orlando.drc.com/daml/ontology/POC/3.1/POC-ont#"
  xmlns="http://orlando.drc.com/daml/ontology/POC/3.1/POC-ont#"
>
  <!-- POC Ontology -->
  <daml:Ontology rdf:about="">
    <dc:title>POC Ontology</dc:title>
    <ves:previous>http://orlando.drc.com/daml/ontology/POC/2.X/POC-ont-
2.0v.daml</ves:previous>
    <ves:location>http://orlando.drc.com/daml/ontology/POC/3.1/POC-
ont.daml</ves:location>
    <ves:version>3.1</ves:version>
    <ves:email>TeamXML@drc.com</ves:email>
    <dc:creator>DRC</dc:creator>
    <ves:statusDate>2001-10-19</ves:statusDate>
    <ves:status>published</ves:status>
    <daml:imports rdf:resource="http://www.daml.org/2001/03/daml+oil"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/ontology/VES/3.1/drc-ves-ont"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/ontology/daml-extension/3.1/daml-ext-
ont"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/ontology/Person/3.1/Person-ont"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/ontology/Locator/3.2/Locator-ont"/>
    <daml:imports
rdf:resource="http://orlando.drc.com/daml/ontology/Organization/3.1.1/Organizati
on-ont"/>
    <daml:comment>A Point of Contact Ontology</daml:comment>
  </daml:Ontology>

  <daml:Class rdf:ID="POC">
    <daml:label>POC</daml:label>
  </daml:Class>
  <daml:ObjectProperty rdf:ID="contactEntity">
    <daml:domain rdf:resource="#POC"/>
    <daml:range
rdf:resource="http://orlando.drc.com/daml/ontology/Person/3.1/Person-
ont#Person"/>
    <daml:range
rdf:resource="http://orlando.drc.com/daml/ontology/Organization/3.1.1/Organizati
on-ont#Organization"/>
  </daml:ObjectProperty>
  <daml:ObjectProperty rdf:ID="contactMeans">
    <daml:domain rdf:resource="#POC"/>
    <daml:range
rdf:resource="http://orlando.drc.com/daml/ontology/Locator/3.2/Locator-
ont#PostalAddress"/>

```

```

        <daml:range
rdf:resource="http://orlando.drc.com/daml/ontology/Locator/3.2/Locator-
ont#ElectronicLocator"/>
    </daml:ObjectProperty>
    <daml:ObjectProperty rdf:ID="contactFor">
        <daml:domain rdf:resource="#POC"/>
        <daml:range
rdf:resource="http://orlando.drc.com/daml/ontology/Person/3.1/Person-
ont#Person"/>
            <daml:range
rdf:resource="http://orlando.drc.com/daml/ontology/Organization/3.1.1/Organizati
on-ont#Organization"/>
            </daml:ObjectProperty>
        </rdf:RDF>

```

Appendix AA: – Resume Ontology

```

<?xml version="1.0"?>
<rdf:RDF
    xmlns:rdf      = "http://www.w3.org/1999/02/22-rdf-syntax-ns#"
    xmlns          = "http://www.daml.org/2000/10/daml-ont#"
    xmlns:daml     = "http://www.daml.org/2000/10/daml-ont#"
    xmlns:a        = "https://www.daml.org/actionitems/actionitems-
20000905.rdfs#">

<!-- MyResume Ontology      -->

<!-- mark DAML program action item 12 as complete -->
<rdf:Description about="https://www.daml.org/actionitems/12.rdf">
    <a:state>closed</a:state>
    <a:Action>
        <a:status>available at
http://orl01.drc.com/daml/Ontology/MyResume/MyResume-ont.daml</a:status>
        <a:date>2000-10-31</a:date>
        <a:by>TeamXML@drc.com</a:by>
    </a:Action>
</rdf:Description>

<Ontology about="">
    <versionInfo>$Id: MyResume-ont.daml, v 1.2, 2000/11/5 $</versionInfo>
    <comment>A Sample Resume Ontology</comment>
    <imports resource= "http://www.daml.org/2000/10/daml-ont"/>
</Ontology>

<!-- Base Class ***** -->
<Class ID= "MyResume">
    <label>MyResume</label>
    <comment>This is an ontology of information about my resume.</comment>
</Class>

<!-- Contact Information Class and Properties ***** -->

<Class ID= "ContactInfo">
    <subClassOf resource="#MyResume"/>
    <comment>Resume Contact Information</comment>
</Class>

<Property ID="contactName">
    <domain resource="#ContactInfo"/>
    <comment>Contact's Name</comment>
</Property>

<Property ID="contactAddress">
    <domain resource="#ContactInfo"/>
    <comment>Contact's Address</comment>
</Property>

<Property ID="contactTel">
    <domain resource="#ContactInfo"/>
    <comment>Contact's Telephone Number</comment>
</Property>

<Property ID="contactEmail">

```

```

        <domain resource="#ContactInfo"/>
        <comment>Contact's Email</comment>
</Property>

<!-- Resume Objective Class and Properties ***** -->

<Class ID= "Objective">
    <subClassOf resource="#MyResume"/>
    <comment>Resume Objective</comment>
</Class>

<Property ID="objectiveContent">
    <domain resource="#Objective"/>
    <comment>Objective Content</comment>
</Property>

<!-- Resume Summary Class and Properties ***** -->

<Class ID= "Summary">
    <subClassOf resource="#MyResume"/>
    <comment>Resume Summary</comment>
</Class>

<Property ID="summaryContent">
    <domain resource="#Summary"/>
    <comment>Summary Content</comment>
</Property>

<!-- Resume Experience Class and Properties ***** -->

<Class ID= "Experience">
    <subClassOf resource="#MyResume"/>
    <comment>Professional Experience</comment>
</Class>

<Property ID="employerName">
    <domain resource="#Experience"/>
    <comment>Current or Previous Employer</comment>
</Property>

<Property ID="employerCity">
    <domain resource="#Experience"/>
    <comment>Employer's City</comment>
</Property>

<Property ID="employerState">
    <domain resource="#Experience"/>
    <comment>Employer's State</comment>
</Property>

<Property ID="startDate">
    <domain resource="#Experience"/>
    <comment>Start Date with Employer</comment>
</Property>

<Property ID="endDate">

```

```

        <domain resource="#Experience"/>
        <comment>End Date with Employee.</comment>
</Property>

<Property ID="jobTitle">
    <domain resource="#Experience"/>
    <comment>Title of job.</comment>
</Property>

<Property ID="jobDesc">
    <domain resource="#Experience"/>
    <comment>Brief description of job.</comment>
</Property>

<Property ID="achievements">
    <domain resource="#Experience"/>
    <comment>Achievements accomplished while at job.</comment>
</Property>

<!-- Resume Education Class and Properties ***** -->

<Class ID= "Education">
    <subClassOf resource="#MyResume"/>
    <comment>Resume Education</comment>
</Class>

<Property ID="schoolName">
    <domain resource="#Education"/>
    <comment>School's Name</comment>
</Property>

<Property ID="schoolCity">
    <domain resource="#Education"/>
    <comment>School's City</comment>
</Property>

<Property ID="schoolState">
    <domain resource="#Education"/>
    <comment>School's State</comment>
</Property>

<Property ID="degreeTitle">
    <domain resource="#Education"/>
    <comment>Degree Title</comment>
</Property>

<Property ID="gradDate">
    <domain resource="#Education"/>
    <comment>Graduation Date</comment>
</Property>

<Property ID="accomplishments">
    <domain resource="#Education"/>
    <comment>School Accomplishments</comment>
</Property>

<!-- Resume Training Class and Properties ***** -->

```



```

<Class ID= "Training">
    <subClassOf resource="#MyResume"/>
    <comment>Resume Training</comment>
</Class>

<Property ID="traininngDesc">
    <domain resource="#Training"/>
    <comment>Training Description</comment>
</Property>

<Property ID="trainingDate">
    <domain resource="#Training"/>
    <comment>Training Date</comment>
</Property>

<!-- Resume Organization Class and Properties ***** -->

<Class ID= "Organizations">
    <subClassOf resource="#MyResume"/>
    <comment>Resume Organizations</comment>
</Class>

<Property ID="orgName">
    <domain resource="#Organizations"/>
    <comment>Organization Name.</comment>
</Property>

<Property ID="orgStartDate">
    <domain resource="#Organizations"/>
    <comment>Joining Date</comment>
</Property>

<Property ID="orgEndDate">
    <domain resource="#Organizations"/>
    <comment>Date Left Organization.</comment>
</Property>

<!-- Resume Publication Class and Properties ***** -->

<Class ID= "Publications">
    <subClassOf resource="#MyResume"/>
    <comment>Publications</comment>
</Class>

<Property ID="publicationContent">
    <domain resource="#Publications"/>
    <comment>Publication Content</comment>
</Property>

<!-- Resume Additional Information Class and Properties ***** -->

<Class ID= "AdditionalInfo">
    <subClassOf resource="#MyResume"/>
    <comment>Resume Additional Information</comment>
</Class>

```

```
<Property ID="additionalContent">  
  <domain resource="#AdditionalInfo"/>  
  <comment>Additional information Content.</comment>  
</Property>  
  
</rdf:RDF>
```