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# **System Life Cycle Support (SLCS)**

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Presented to PDES, Inc. Technical Advisory Committee

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# **System Life Cycle Support**

**Wrap-up of 2006 - 2007**

# SLCS

## Accomplishments in 2006-2007



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- Completed Phase 1 of the Humvee data exchange pilot with AM General using PDM Schema – 2006
- Completed Phase 2 of the Humvee data exchange pilot using PLCS – Aug 2007
  - Subset of data included PDM structure, CAD, & logistics records
  - Interfaced with SAP PLM at AM General
  - Data integration using Eurostep's Share-A-Space
  - Developed network/system architecture for data exchange
  - Testing and demonstrations in process
- Completed Bradley FV data exchange pilot with BAE Systems using PDM Schema
  - Translators currently being tested (CMSTAT and Windchill)
  - Final report in work



# **System Life Cycle Support**

**Plans for 2007-2009**

**Digital Enterprise Phase**

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# Objective, Scope, and Participants



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## ■ Objective

- Develop a STEP-based System Lifecycle Management and Support solution

## ■ Scope

- Integrate product data from engineering and logistics databases using FALCON (Federated Armey Lifecycle Collaborative eNterprise)
  - » Integrate lifecycle product data across Army and OEM systems
  - » Federate product data across heterogeneous systems
  - » Provide multiple views of single source of true product data
  - » Improve enterprise search and view capability for product data
  - » Track multiple configurations across lifecycle of weapon system
  - » Provide for long-term retention of PLM data

## ■ Planned Participants

- U.S. Army
- Eurostep
- NIST
- PTC

### Others

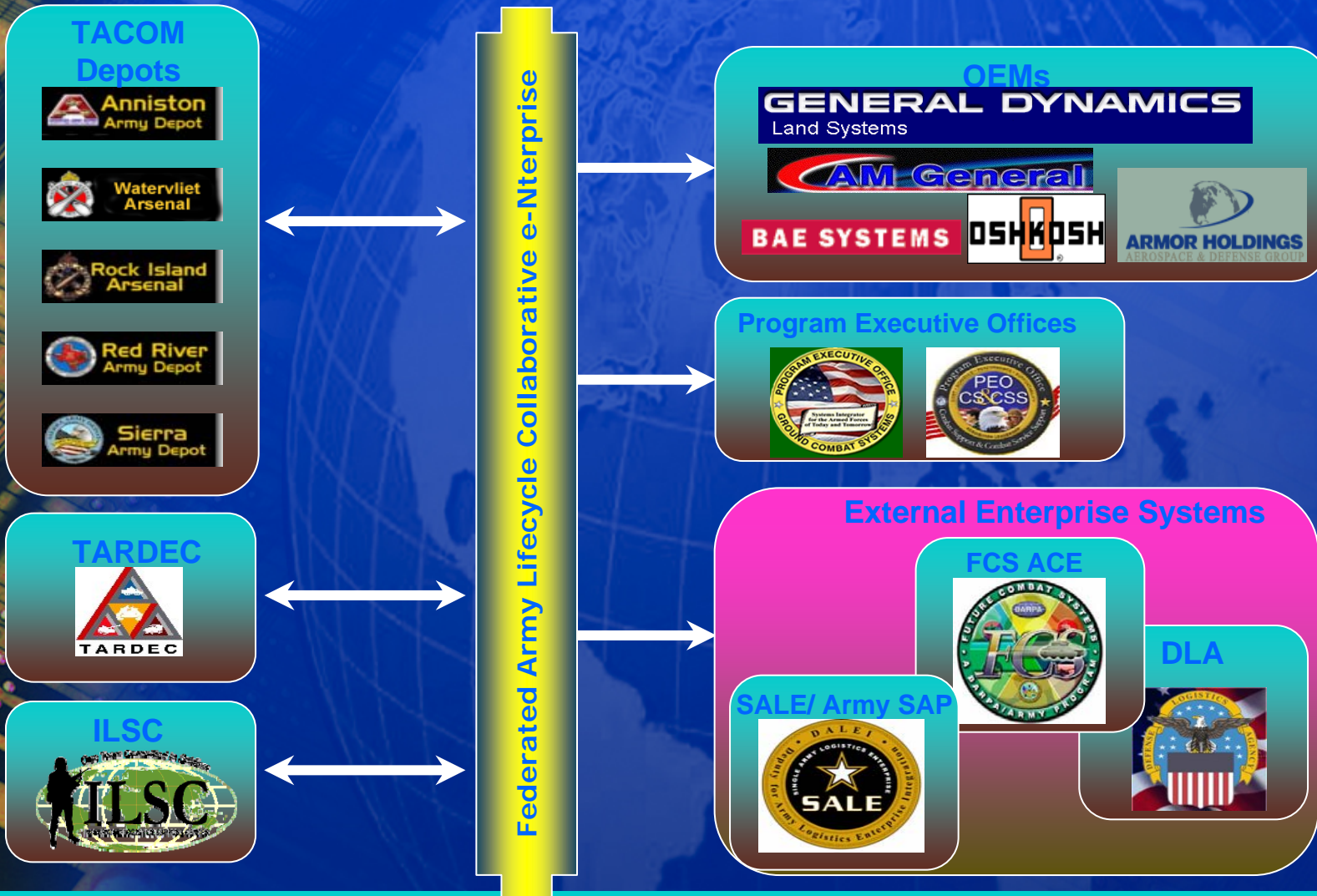
- SAP, MSC Software, SCRA
- IBM

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# FALCON STEP-Based Architecture



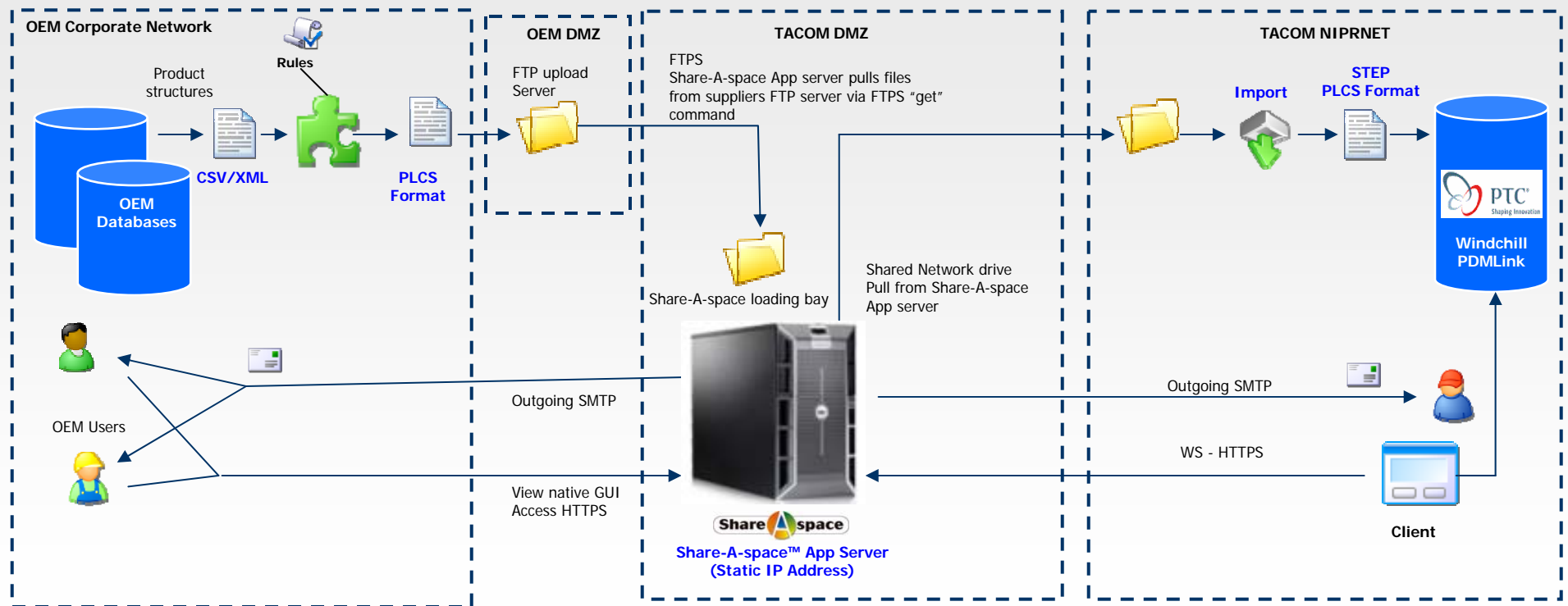
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# SLCS FALCON – Federated Data Environment between OEM and Army



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# SLCS Schedule and Effort



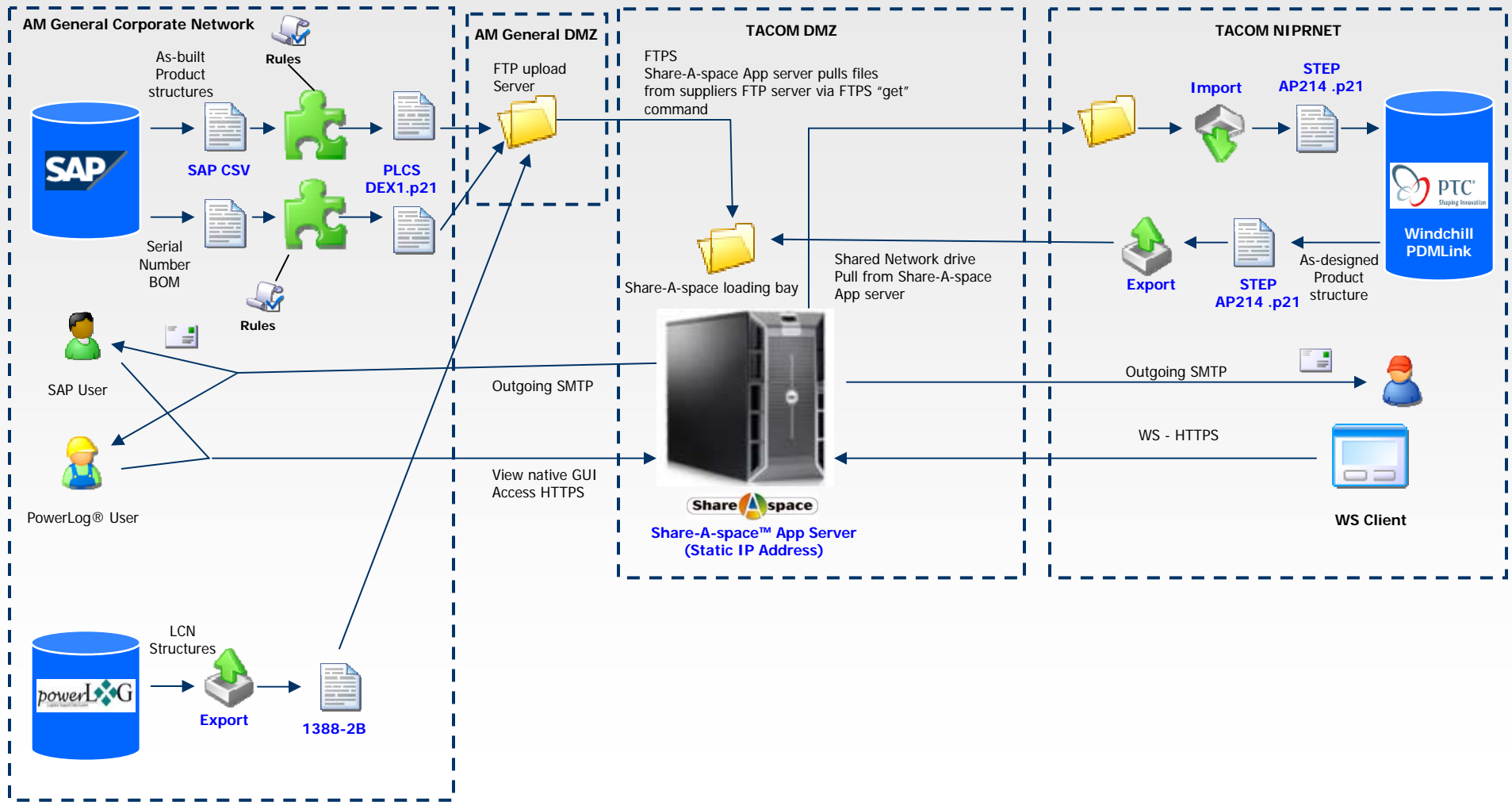
## ■ Schedule

Task	Expected Completion Date	Deliverable
Develop federated architecture for lifecycle data management	Jun 2008	Report of architecture developed
PDM and logistics data exchange implementation on Humvee	Jun 2008	Report on implementation and results
Integration with Service Oriented Architecture environment	Aug 2008	Report on integration methodology and results
Integration with simulation data environment	Dec 2008	Report on integration methodology and results
Integration with requirements management	Dec 2008	Report on integration methodology and results
Integration with Condition Based Maintenance	Jun 2009	Report on integration methodology and results
Document lifecycle data processes and best practices	Aug 2009	Final report on business processes

## ■ Estimated Effort

— 2 FTEs

# PLCS based Humvee Lifecycle Data Exchange



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## **Plans for Next Six Months**



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- Complete Bradley FV data exchange project and submit final report (past due)
- Complete Humvee/PLCS project and submit final report (Jan 2008)
- DoD Accreditation for Share-A-Space for production deployment (on systems such as JLTV)
- Modify existing contracts with AM General to incorporate new data delivery method
- Several new contracts are being written with Model Based Definition requirements and STEP for lifecycle product data

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# **Issues and Concerns**



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## **Issues to Address**

- Need PTC resource (Erik Rieger) to complete Windchill import translator bugs (Bradley FV) – proposed to work remotely in Sept.
- ITAR issues relating to data used for testing by Eurostep – used older M1097 model data
- Logistics Analysis Record for HMMWV outdated and had errors – being fixed by AM General

## **Concerns**

- None



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# SLCS Back-Up Slide

None