

JSIMS Enterprise



Joint Simulation System

JSIMS

New Tools to Train

Our Future Warfighters

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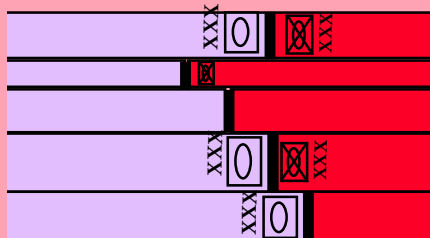
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Warfare is Evolving

JSIMS Enterprise

Attrition Warfare

40s - 70s



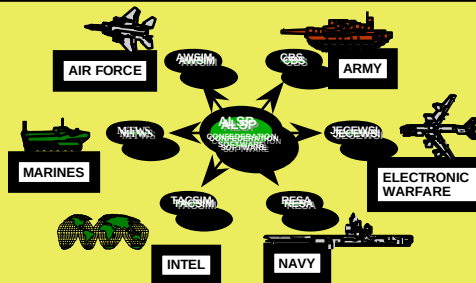
f (force)

- Cold War scenario
- Massive forces
- Nuclear weapons

Service
Attrition Based
Simulations

Maneuver Warfare

80s - 90s



f (force, space)

- Emphasize maneuver
- Joint operations
- Precision weapons

Joint
Interoperable
Simulations

Full Spectrum of Missions

21st Century



f (force, space, information)

- Non-linear warfare/OOTW
- Integrated Operations
- Timely application of assets

Joint
Composable
Simulations

Legacy Simulations

JSIMS Enterprise

Non-Interoperable Joint Systems

JTLS
Joint Theater
Level
Simulation

JCM
Joint
Conflict
Model

JTS
Joint
Tactical
Simulation

Limited Interoperable Service Systems



Today's Challenges

- ***interoperability***
- ***high overhead***
- ***scope***
- ***maintainability***
- ***C4I connectivity***

JSIMS Warfighter Vision

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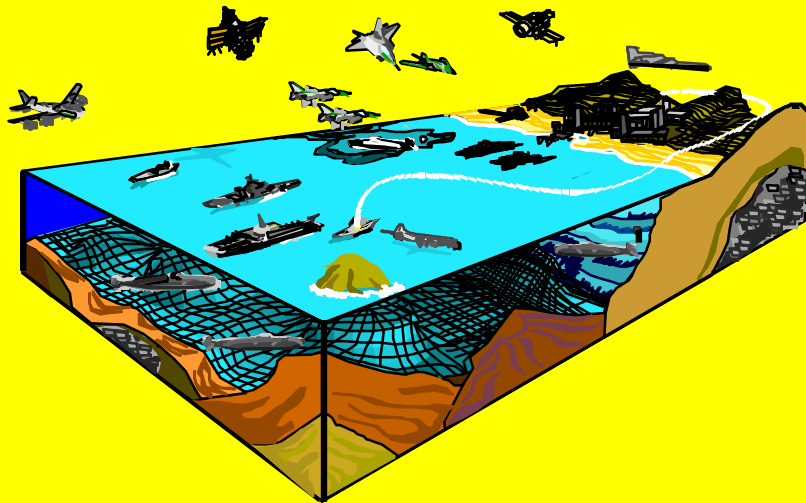
JSIMS is a simulation system that supports the twenty-first century warfighter's *preparation for real world contingencies*. The system provides *garrison and deployed* exercise capability to meet *current and emerging training and operational requirements in a timely and efficient* manner. By interfacing to the warfighter's real *go to war systems*, the view into the simulation world *mirrors* that of the real world.

Approved by the JROC, Spring 1996

The Next Generation Simulation

JSIMS Enterprise

**At IOC (Apr 01) --
JSIMS focus is to support
Joint and Service training at the
operational/theater level of warfare**



**At FOC (Dec 03)--
JSIMS focus is to support US Joint,
Service and Multinational Interoperability
training at all levels of warfare across
operational continuum**

JSIMS will:

- improve joint warfare functionality in training
- provide a distributed training environment
- interface with go-to-war C4I systems
 - reduce overhead to conduct computer-aided training events
- offer rehearsal capability

***An Evolutionary Training Capability To Meet The Concepts Of JV 2010 --
“Move More Electrons and Fewer Troops”***

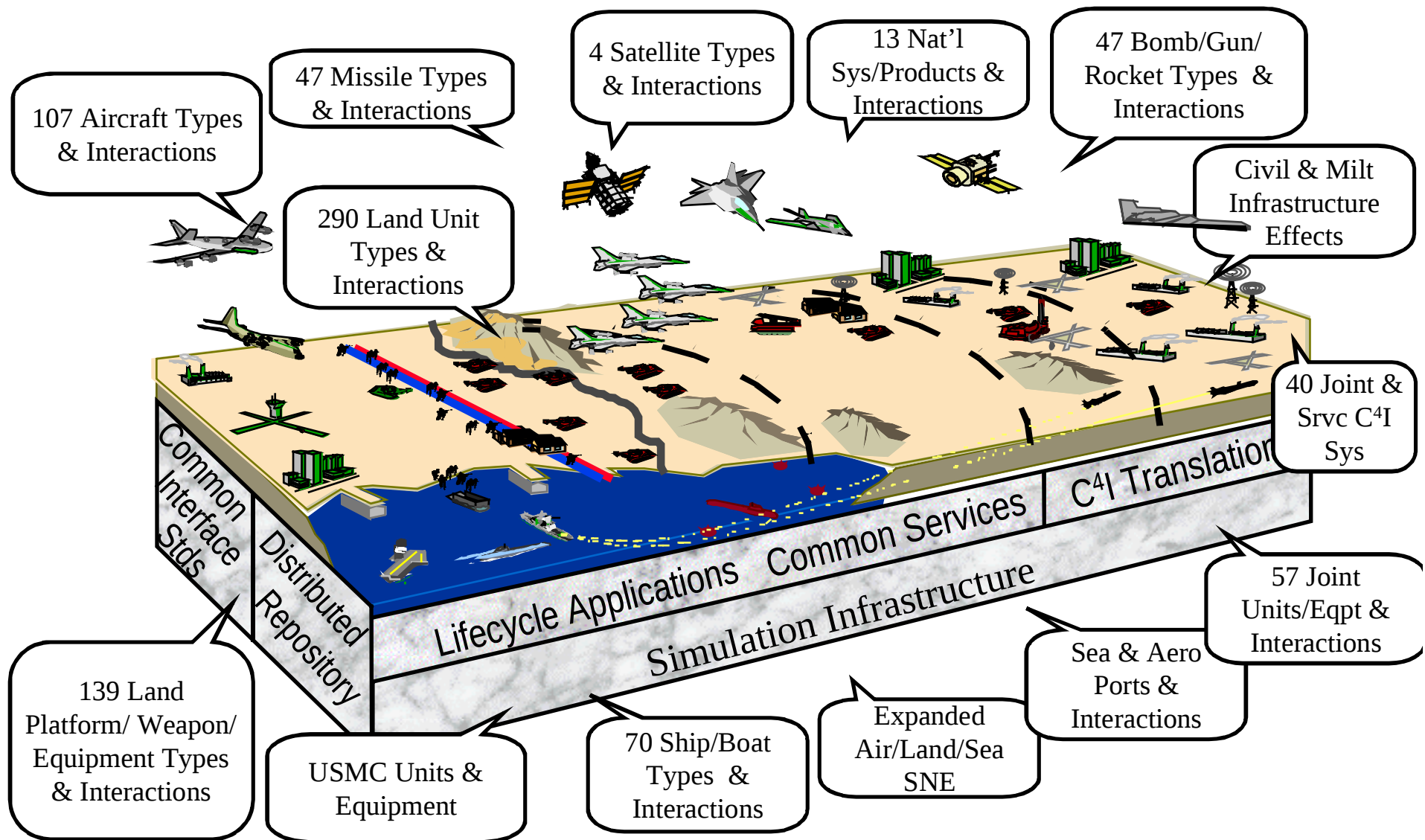
JSIMS Technical Vision

JSIMS Enterprise

JSIMS is a *single, distributed, seamlessly integrated simulation environment*. It includes a *core infrastructure* and *mission space objects*, both maintained in a *common repository*. These can be *composed* to create a simulation capability to support *Joint or Service* training, rehearsal, or education objectives.

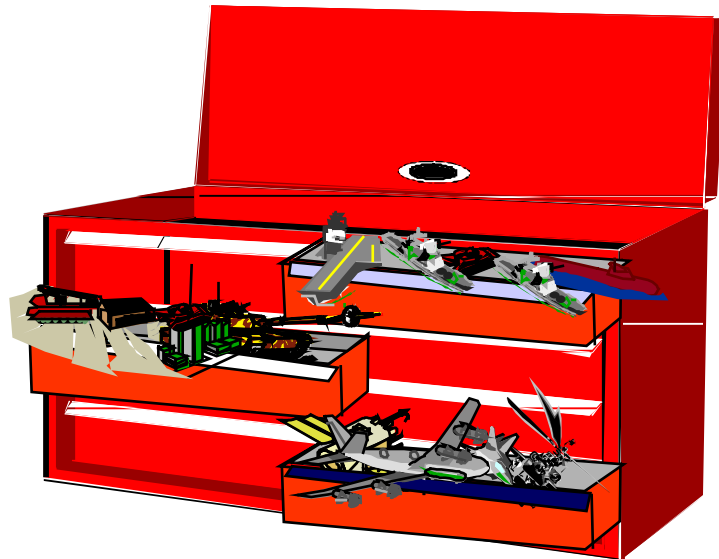
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JSIMS Must Provide a Balanced, Joint Synthetic Battlespace

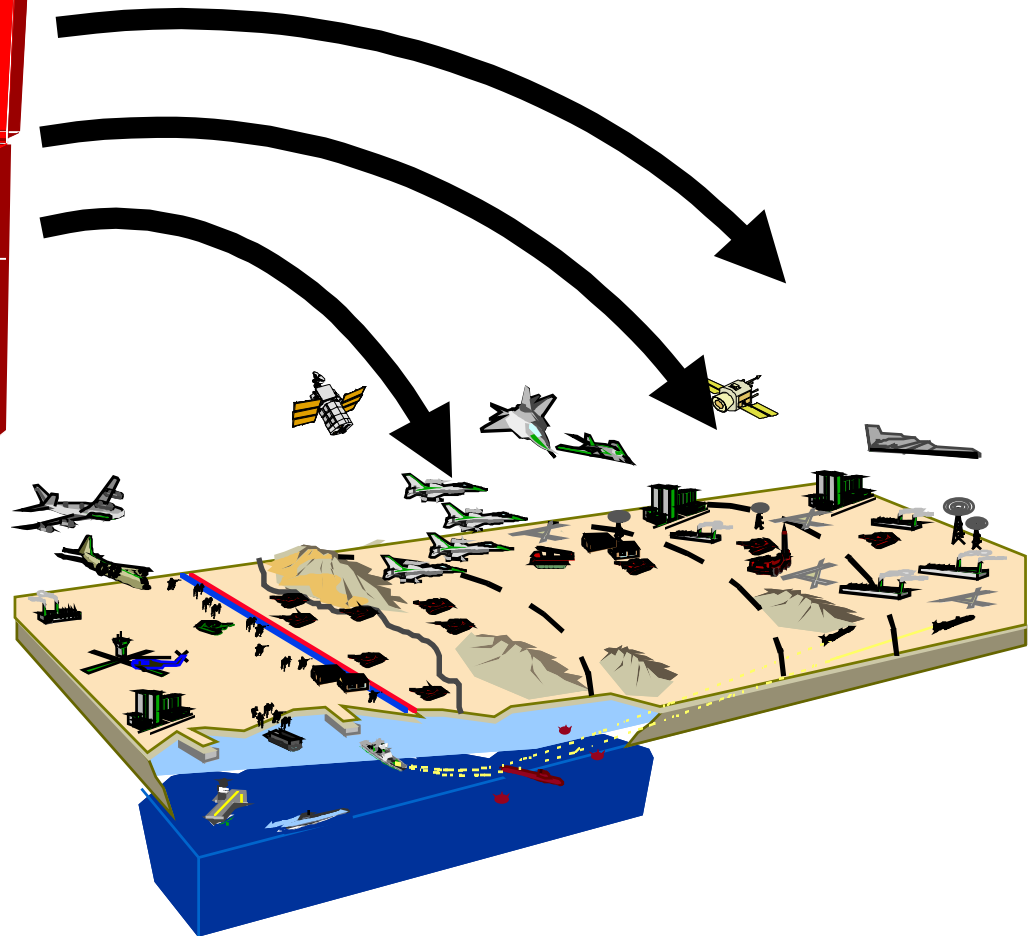


Exercise Composition

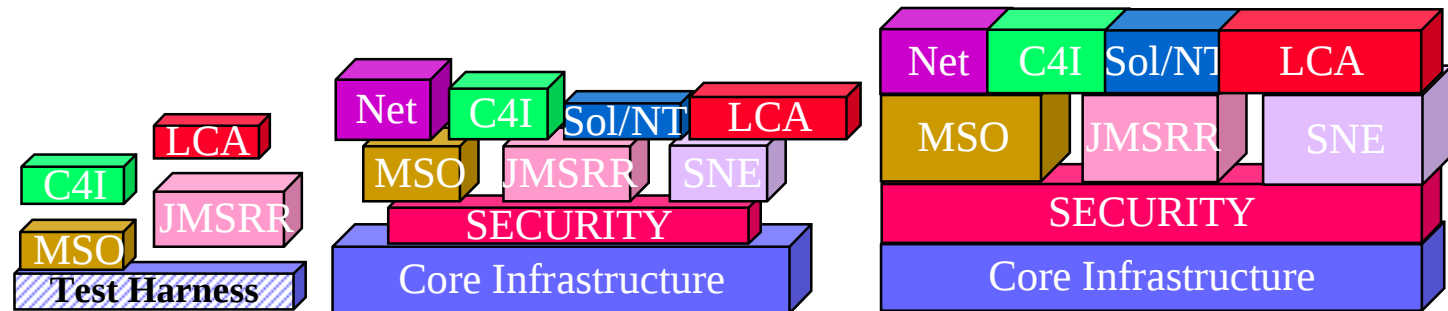
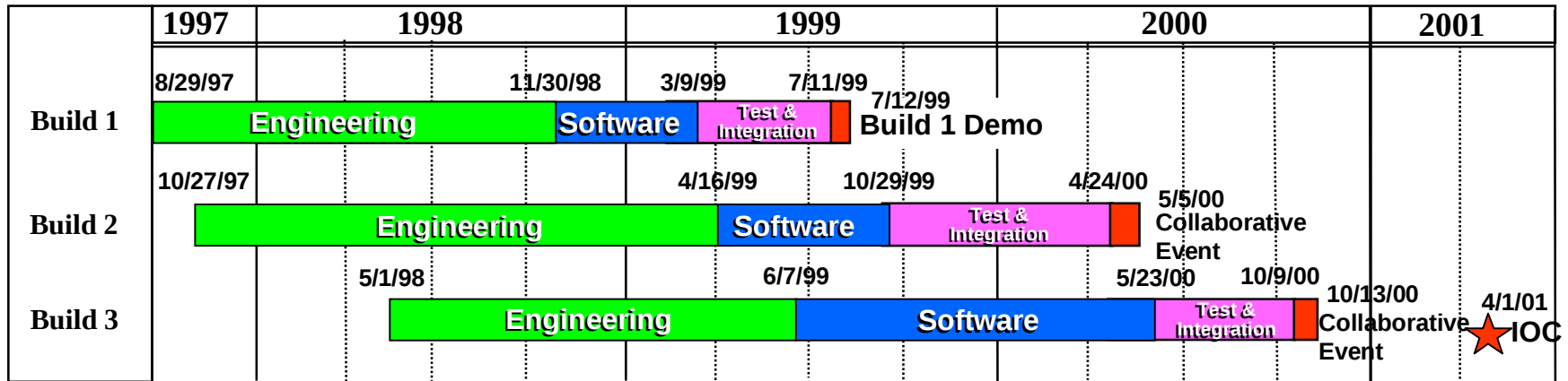
JSIMS Enterprise



**Pull From the JSIMS
Toolbox As Needed
To Compose the Exercise**



JSIMS Functionality by Build



DOMAIN	Build 1	Build 2	Build 3 / IOC
Joint/Core	- JMSRR - Role Player Functions - GCCS	- Partial Exercise Generation Tools - Partial Exercise Control Tools - C4I Interface (USA, USN, USAF)	- Full Exercise Generation and Control Capability - Exercise AAR - Replaces JTC - Supports CINC/JTF Training
Army	- Maneuver - C2 - Perceived Truth	- Artillery - Aviation - Terrain	- Logistics - NBC - Intelligence
Navy	- Ship Platform - Warship Motion & Sensors - Underway Replenishment	- Weapons & Engagement - Basic Ocean - Flight Operations	- Naval Bases & Ports - Ship/Ground Engagements - Submarine/Air/Surface Warfare Operations
USAF	- Fixed Wing Missions - Civil Environment - Airbases	- CAS - CAP/C2/ABCCC - Satellite Platforms	- Air Operations Center (AOC) - Air Tasking Order - Electronic Support Measures (ESM)
Agencies		- Partial SIGINT Capability - Partial IMINT Capability	- Full SIGINT Capability - Full IMINT Capability - Collection Management

JSIMS Development

Each Release Adds Significant Capabilities

JSIMS Enterprise

	Version 1.0 04 / 01	Version 1.1 11 / 01	Version 1.2 12 / 02	Version 2.0 12 / 03
Joint/Other	CINC/JTF Staff, CINC/JTF with Components, JFLCC, JFACC, JFMCC, JSOCC, <i>Multinational, Interagency</i>	Supporting CINC	Senior Off Education, JIC, JIC & JISE	Planning & Analysis, <i>Crew/Team Mission Rehearsal,</i> Professional Officer Education, Doctrine Development, Multinational
Army	Corps Cdr, Corps/Div Cdr, Div Cdr & Staff	Logistics Staff	<i>Intel Staff</i>	Bde/Bn Cdr & Staff, Intel Staff
Air Force	<i>JFACC</i>		AFFOR, JFACC	Wing Ops Center
Navy		Fleet Cdr, Carrier BG Cdr, Task Grp Cdr	Warfare Cdr	
Marine Corps	MEF, Amphib Ops		MARFOR, MEU(SOC)	
Special Ops	JSOTF, ARSOC	AFSOC, NAVSOC	MEU(SOC)	<i>Special Ops Team/Crew Mission Rehearsal</i>

Collaborative, Distributed Development

JSIMS Enterprise

- **JSIMS Joint Program Office (JPO) -- Orlando**
 - Joint Domain and Core Infrastructure, Enterprise Management
- **National Air and Space [Warfare] Model (NASM) -- Hanscom AFB, MA**
 - Air and Space Domain
- **JSIMS Maritime -- Norfolk, San Diego**
 - Maritime Domain, Maritime Environment
- **Warfighter's Simulation 2000 (WARSIM) -- Orlando**
 - Land Domain, Synthetic Natural Environment
 - **WARSIM Intelligence Module (WIM) -- Orlando**
 - Tactical Intelligence
- **National Simulation (NATSIM) -- Reston**
 - National Intelligence Systems
- **Joint Signal Simulation (J-SIGSIM) -- Ft. Meade**
 - Signal Intelligence
- **DOMINO -- DIA**
 - DIA National Intel Process Modeling

Many Significant Accomplishments to Date

JSIMS Enterprise

Acquisition

- **Integrated APB**
- **Schedule Synchronization**

Requirements

- **Requirements Harmonization**
- **JSIMS Requirements Control Board**

Development

- **Core Architecture**
- **Build 0**
- **High-Level Design**

Want More Information?

JSIMS Enterprise

The best source is the
JSIMS Enterprise Home Page

<http://www.jsims.mil>