



WAY AHEAD FOR U.S. JOINT, BILATERAL, AND MULTILATERAL TRAINING INTEROPERABILITY ... AT TACTICAL TO OPERATIONAL LEVELS

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In Coordination With U.S. Pacific Command (J7)



BLUF: Enable Training Interoperability at Tactical to Operational Levels



- DDJS J7 JCW assure appropriate organizational alignment, allocation of resources, and definition of protocols and standards for U.S. solutions for Joint, bilateral, and multilateral training interoperability at tactical to operational levels
- Implications
 - U.S. solution ... not separate Service or Agency solutions
 - Stimulating console ... not JLVC or JTLS
 - Training interoperability for all Components ... not just Navy
 - Training Interoperability for all Partner Nations' Services ... not just Navies
 - Agency (MDA) role in joint and partner nation training interoperability



What Is Needed?



Leadership for alignment; resources; and standards and protocols

... to enable training interoperability inherent to Tactical to Operational joint, bilateral, and multilateral training

... in order to realize fullest potential of JNTC Training Transformation (T2)



Why?

- keep pace with the operating environment
- meet increased demand for training
- lower barriers to provide flexible training capability
- bring discipline to the systems engineering
- answer training needs with current technology through operational partnerships
- partner with CCMDs, Services, Agencies, ***and partner nations***
- establish governance, control standards, and establish and manage the baseline
- pursue existing solutions to deliver and execute training
- “Move quickly toward Joint ***[and partner nation]*** information and simulation networks ...”

**Implied within recent Joint M&S WG
and Chairman’s Strategic Direction to the Joint Force (Feb 12)**



Current State



- USN is enabling joint, bilateral, and multilateral training interoperability
 - Multiple mission areas to include Missile Defense
 - Tactical (Tier IV – Console) to Operational (Tier III – Functional Component)
 - Formalizing training environments with US Joint Forces; current partner nations (Australia, Japan, Canada, Germany, Italy, UK); and planned partners (France, India, Japan, Singapore, Turkey)
- USAF (Distributed Mission Operations Center – DMOC) and USA (Air Defense) share Joint and Partner Nation training intent
- Concurrently, Missile Defense Agency (MDA) also enabling joint, bilateral, and multilateral training (and test) interoperability
 - Missile Defense only
 - Tactical (Tier IV – Console), thru Operational (Tier III – Functional Component), to Strategic (Tier II – JTF; Tier I – COCOM)

Seeking Joint and Partner Nation Training Solutions



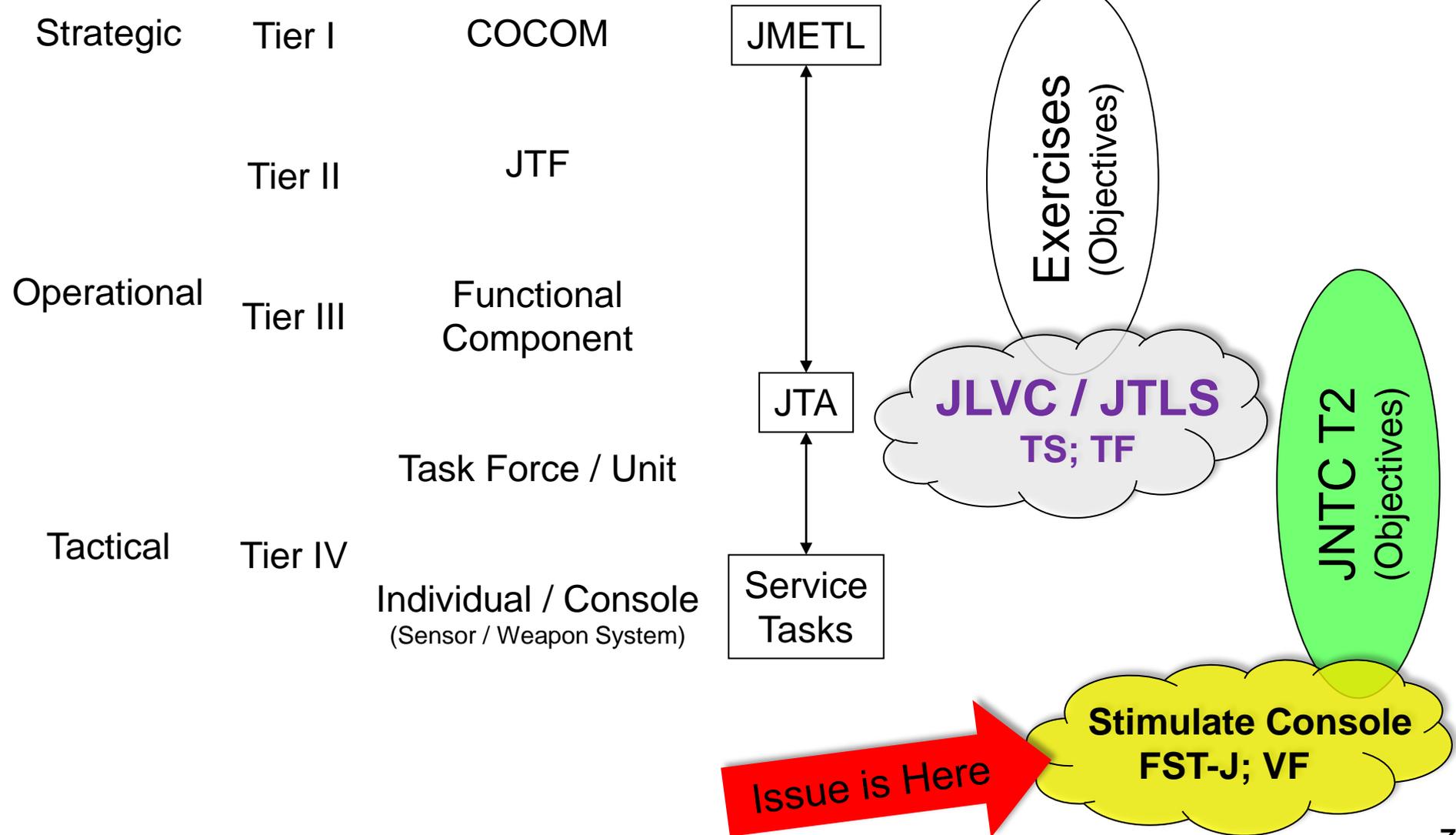
A Tipping Point: PACOM/JJS BMDOISWG



- PACOM and JJS require bilateral training interoperability from tactical to operational levels
- U.S. Pacific Fleet (Component) and MDA (Agency) are tasked by PACOM (J39) to present **United States position** on training interoperability to Japan
 - Japan to present “Theirs”
 - Implication: other Partner Nations ... future Multilaterals
- As with “Exercises”, DDJS J7 JCW should have a role
 - Define Organizational Alignments
 - Resources
 - Protocols and Standards for Training Interoperability



This is About Training Interoperability that Enables JNTC Training Transformation (T2)





DDJS J7 JCW is Fully Engaged for Training Interoperability for Exercises



Strategic

Operational

Tactical

Exercises
(Objectives)

- Simulate threat and operator actions on weapons, sensors, voice, and data
- **Stimulate HHQ**
- **Lessons based on modeled results** of operators and their systems

JLVC / JTLS
TS - TF

USN, USAF, USA, USMC, and MDA are "partnering" for training interoperability here

JNTC T2
(Objectives)

- Simulate threat
- **Stimulate operators** on actual weapons, sensors, voice, and data
- **Lessons based on actual results** of operators and their systems

Stimulate Console
FST-J - VF

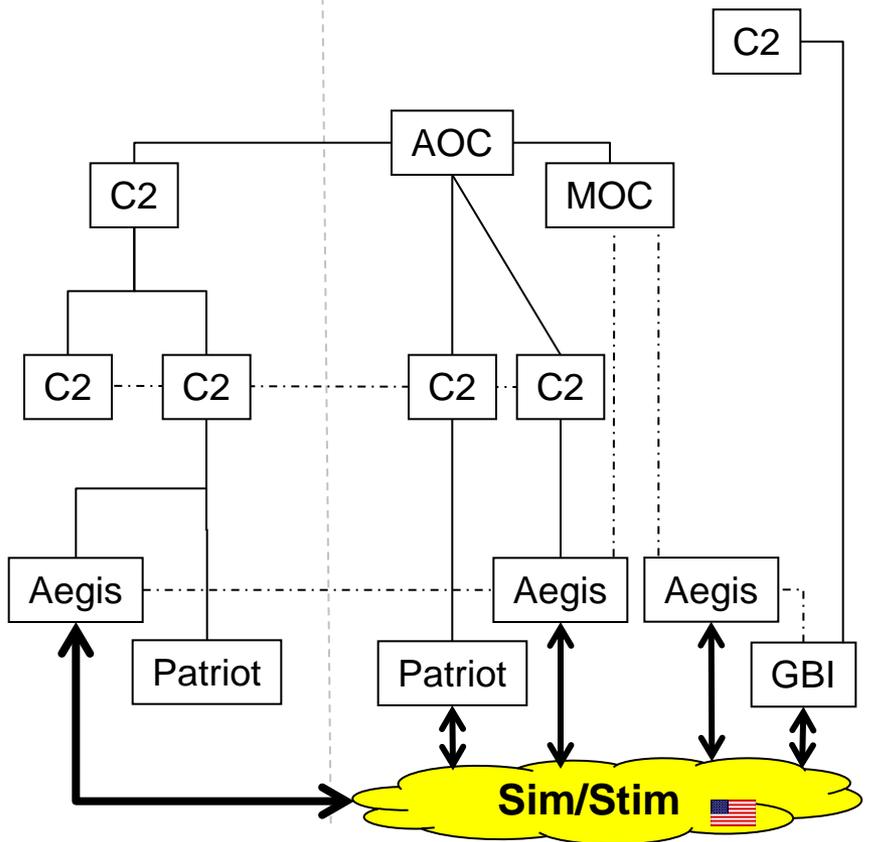


Recurring Bilaterals in PACOM

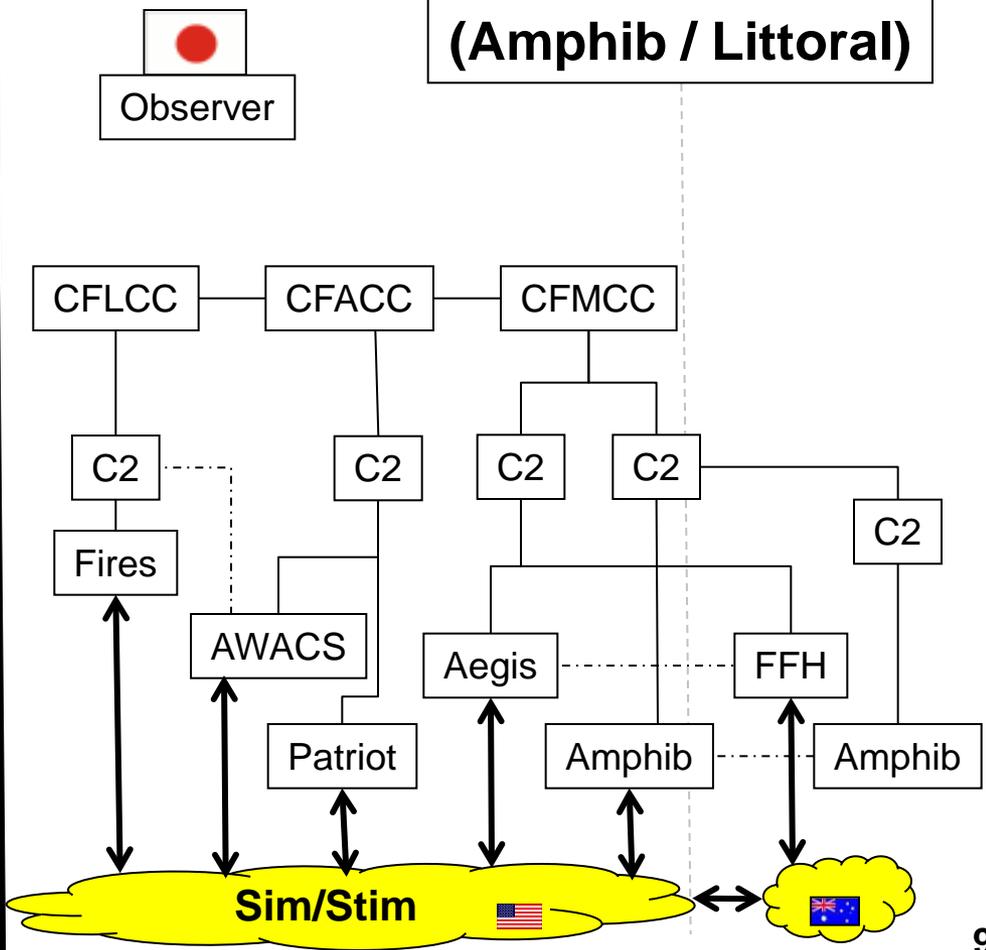
(Notional C2 / Agreed Relationships)



**FST-J XX-71
(IAMD)**



**FST-J XX-72
(Amphib / Littoral)**





Which WJTSC Working Group?



- Joint M&S Capability
 - **Main Effort**
 - “...enterprise wide issues and processes focusing M&S capabilities and future programs...”
 - Challenges
 - Including Japan or Korea
 - “JLVC” as simulation solution
 - Supports Tiers I, II, and III
- ACGU Training Integration & Interoperability
 - **Supporting / Informed**
 - “...nation’s training networks in a common environment...”
 - Challenge
 - Excludes nations of immediate interest



Desired Outcomes



- DDJS J7 JCW involvement in joint, bilateral, and multilateral training interoperability at the tactical to operational levels
 - Assure a unified (U.S.) approach for joint training interoperability at tactical to operational levels as a baseline from which COCOM can engage partner nations for bilateral and multilateral training interoperability
 - While continuing to maintain JLVC and JTLS as training interoperability solution for strategic to operational, assume role associated with maintaining training interoperability solution for tactical to operational
 - Introduce as COCOM Use Case for Training Interoperability (Tactical to Operational) within Joint Training Enterprise Architecture (JTEA).
- DDJS J7 JCW engagement with STRATCOM and MDA to align efforts and resources to support joint, bilateral, and multilateral tactical to operational training interoperability within an AOR
 - Establish supported/supporting relationship between DDJS J7 JCW (implied: COCOMs and Components) and MDA for training interoperability



Backup





June 2012: PACOM J39 / Japan Joint Staff (JJS) J3 BMD Operational Information Sharing WG



- Identified requirement for bilateral training (and test) interoperability for BMD and other mission areas
 - Specified tactical (stimulate console) to operational
 - Acknowledged emerging multilateral training interoperability
- Directed presentation by each Nation of current training (and test) environment as step to determining bilateral training (and test) interoperability
 - January / February 2013
- Assigned US OPRs:
 - Commander, U. S. Pacific Fleet (CPF)
 - With Navy Warfare Development Command (NWDC)
 - Missile Defense Agency (MDA)

US-KS BMD OISWG Pending



Three (of Eight) New OISWG Tasks Are Specifically for Bilateral Tactical Level Training Interoperability

- 23-02: JASDF Patriot connection with NCTE in FST-J 13-71
 - OPR: PACFLT, ADC
 - Specified: Determine best way for JPN Patriot to connect to NCTE for FST-J participation
 - Implied: PACOM J39, USFJ J3, and 13 AF Det One all emphasized FST-J as venue for JSDF (etal) to join
- 23-03: Bilateral Synthetic Training Working Group
 - OPR: PACOM J39, JJS J3
 - Implied: Requirements and solutions for bilateral training interoperability
- 23-08: Bilateral BMD Testing and Training Interoperability
 - OPR: MDA/DE, PACFLT, ADC
 - Specified: Each Nation presents briefing on that Nation's "BMD M&S"
 - Implied: Address current and future US and JA training environments ... towards bilateral training interoperability

Task 23-08 is Reason for WJTSC Issue



This slide was the Bellwether that Brought Task 23-08



Bilateral BMD Testing & Training Interoperability

UNCLASSIFIED//REL USA and JPN



- (U//REL JPN) U.S. sees operational requirement to make Japan and U.S. BMD Modeling & Simulation (M&S) and Hardware-In-The-Loop (HWIL) systems interoperable to support future bilateral testing, exercises and training
 - Allows Japan and U.S. to test/train bilaterally using each nation's own M&S and HWIL systems federated together
- (U//REL JPN) Benefits to Japan:
 - Assists in resolving BMD Link Architecture issues and COP/CTP inconsistencies
 - Allows for Bilateral BMD testing and training WITHOUT a live missile launch
- (U//REL JPN) U.S. will present a briefing at the next BMD OIS Working Group on U.S. BMD Modeling & Simulation (M&S) and Hardware-In-The-Loop (HWIL) capabilities to support future bilateral testing, exercises and training
- (U//REL JPN) U.S. requests Japan present a briefing at the next BMD OIS Working Group on Japan's "BMD Simulator", JADGE Sim and HWIL "Interface Equipment (IE)"
 - U.S. recommends a Technical Interchange Meeting (TIM) between U.S. and Japan BMD M&S and HWIL stakeholders

Jointly Drafted by MDA, PACFLT, and NWDC to meet PACOM J39 intent to address issue of bilateral tactical training interoperability with Japan



Current State for PACFLT Enabling Bilateral and Multilateral Stimulation to Console at Tactical Level



Strategic

Tier I

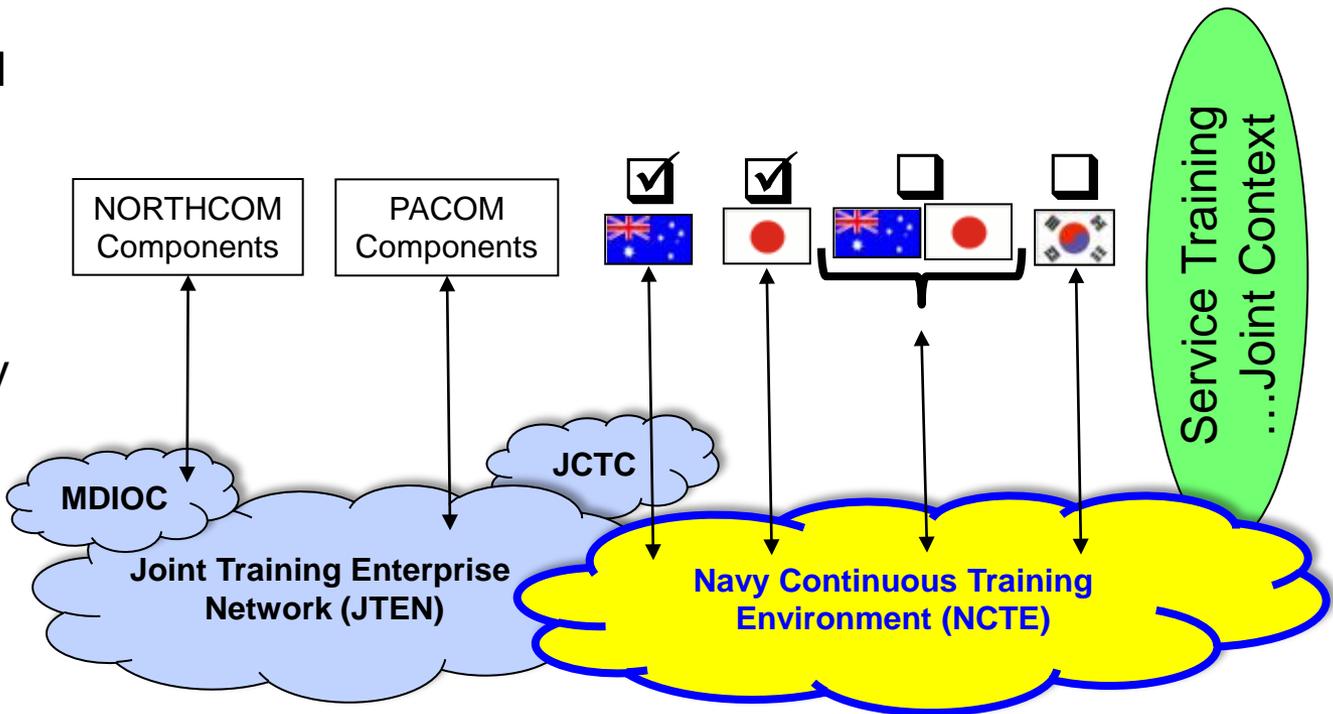
Tier II

Operational

Tier III

Tactical

Tier IV

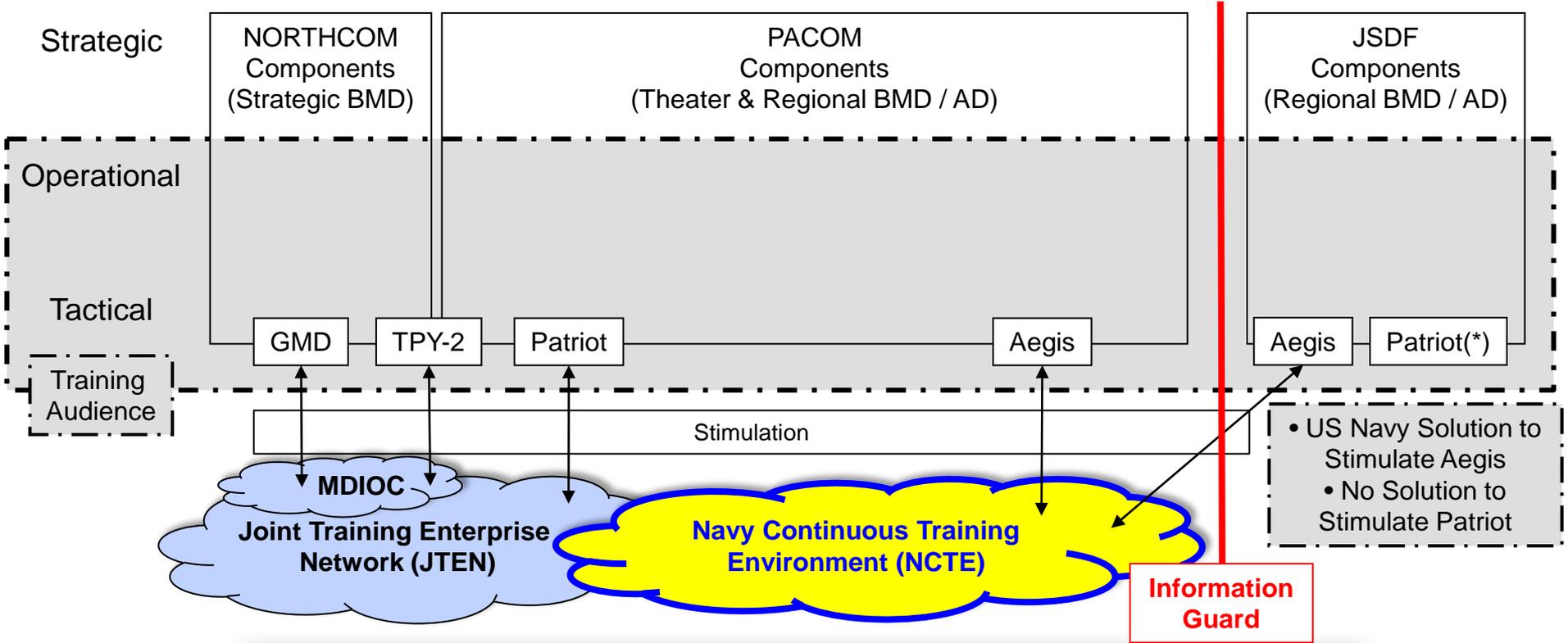




FST-J as endorsed by PACOM enabling bilateral environment ... JSDF not fully connected



FST-J 12-71



PACOM/JJS Imperatives and Tasks from OISWG

- Present US position for Training Environment
- Present JA position for Training Environment
- (*) Connect JASDF Patriot to FST-J 13-71

