Army Integrated Air and Missile Defense Program

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Concept of Operations Summary (U)

Today

- System Centric Operations
- Terrain Restricted Surveillance / Engagements (Penetrators)
- Limited Interoperability
- Weapon System Unique Interfaces

Increment 2

- Network Centric Operations (NCES Compliant)
- Mobile, Modular, Mission Tailored AMD Task Forces
- Integrated Fire Control for CMD
- Joint Systems Interoperability

Increment 3

- 360° Extended Range TBM Engagement
- Initial Common Battle Command for Netted Protect / Counter-Strike Fires
- Full integration with Joint IAMD architectures

Move From Today's Point Defense To A Capability To Execute Area Defense Against Air, Cruise and Missile Threats

"First priority is the creation of a coherent systems of systems framework for conceiving, developing, and deploying air and missile defenses…for integrating each element of its future AMD capabilities within an Army-wide, Joint and combined context."

- WELCH PANEL RESULTS

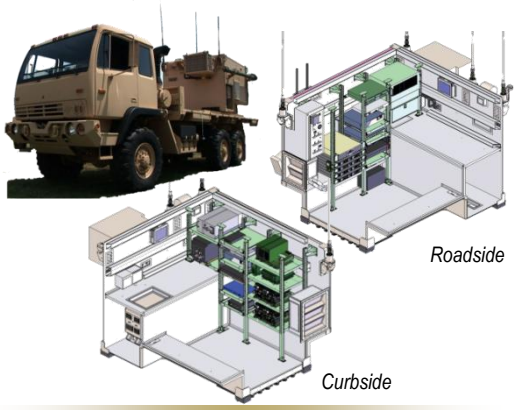
Supports BCTs/Div/CORPS and Theater

Joint Interdependence

IBCS-EOC Physical Architecture

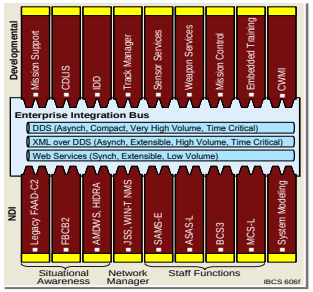
Common Products

Common EOC Configuration

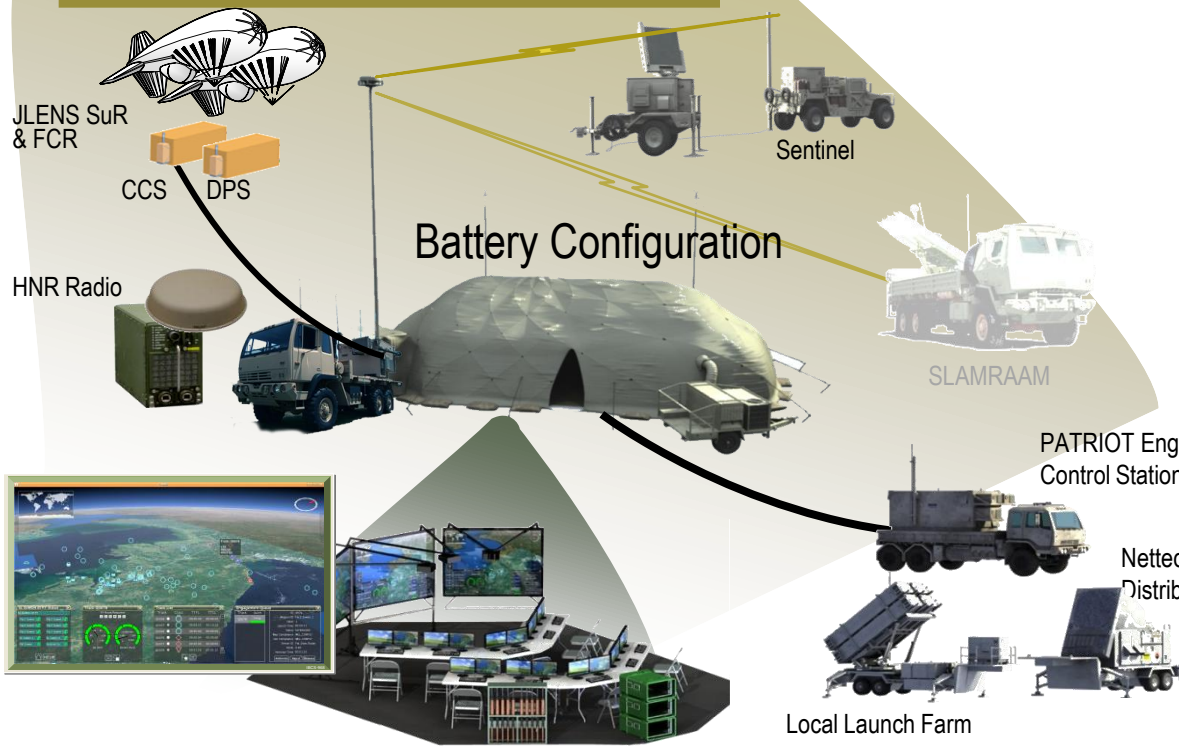


Common P&F Capability

Common Software



Battalion Configuration



Common C2

Air & Missile Defense Reference Battalion	
Battalion EOC	1 (= 2 Battery EOCs)
Battery EOC	5 (4 PATRIOT, 1 SLAMRAAM)
Platoon EOC	5 (3 SLAMRAAM, 2 JLENS)

Systems Engineering Challenges and Opportunities

Challenges

1. Integration of complex systems in different phases of life-cycle
2. Disparate processes and stakeholders with competing interests
3. System Security Engineering – Net-centric environment

Opportunities

1. Common AMD C2 capability for Army AMD warfighter
2. Integrated Fire Control and Single Integrated Air Picture across AMD System of Systems
3. Government owned, data-centric environment for future sensors and weapons and Joint integration (e.g. Joint Track Management Capability)