Radio Frequency Identification (RFID)



Enabling the Supply Chain with RFID Technology

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Implement knowledge-enabled logistics through fully automated visibility and management of assets in support of the warfighter





Transformation is a Requirement

"To win the global war on terror, the armed forces simply have to be more flexible, more agile, so that our forces can respond more quickly."

United States Secretary of Defense Donald Rumsfeld, March 6, 2003





Why DoD Needs RFID...





- Increase Warfighter/Customer Confidence in the Reliability of the DoD Supply Chain
- Improve Visibility of Information and Assets throughout the DoD Supply Chain
- Improve Process Efficiency of Shipping, Receiving and Inventory Management
- Reduce Cycle Time



An Enabler to the Integrated DoD Supply Chain





RFID Scope/Standards

Active RFID – freight containers, air pallets

- SAVI 433 Mhz readers
- SAVI tags
- DoD tag data formats
- Suppliers rarely obligated to apply tags

Passive RFID – case & pallet (all items), item packaging (UID items)

- EPC std UHF readers
- EPC Class 0 & 1 std tags
 - Migration to EPC UHF Generation 2 std
- EPC and DoD tag data formats
- Suppliers will be contractually obligated to apply tags







Complementary use across the logistics supply chain





Passive RFID Implementation Plan for DoD Suppliers



Level of Tagging:

 Shipping Containers, Palletized Unit Loads, Exterior Containers, UID Item Unit Pack

Ship to locations: All Locations



Steps to Implementation

- Prepare the Distribution Centers
- Develop Contractual Requirements
- Develop the Data Transaction & Transmission Capability



Distribution Centers Operational

DDSP and DDJC





Contractual Requirement

- Two Major Requirements for Suppliers
 - Passive Tagging at the case and pallet level in accordance with the Implementation Plan
 - Advance Ship Notice (ASN)
- DFAR clause references the MIL-STD 129P (3) for implementation details
 - Definitions
 - Tag Data Standards
 - Tag Placement
 - Performance Requirements



RFID Data Flow





Benefits Across the Supply Chain

Active RFID

- Deployed since 1994
- Largest operational system in world

Passive RFID

- Partnering with Wal-Mart to drive global adoption
- Driving a common standard via EPCGlobal
- Deployed since 2003

 Better inventory control in deployed environments and support for agile combat in an austere environment

- End-to-end visibility reduces bullwhip and stockouts
- Productivity gains



- Publish DFARS Rule for passive RFID
- Provide Education and Outreach to the Acquisition
 Community
- Perform Safety Certification Testing (HERO, HERF, HERP) for passive RFID
- Receive and Ship Tagged Materiel



- For further information that can assist you with compliance, visit: <u>http://www.dodrfid.org</u>
 - DoD RFID Policy
 - DoD RFID Supplier Implementation Plan
 - DoD Suppliers' Passive RFID Information Guide
 - MIL-STD 129P(3) (Updated with RFID changes)
 - Draft Wide Area Workflow (WAWF) Implementation Guides (IG)
 - Frequently Asked Questions (FAQ)
 - Schedule of RFID Events where DoD RFID personnel will be speaking
- You can ask the team any RFID-related question through the following email address: info@dodrfid.org