



Coalition Contingency Operations in Theater: Today and Tomorrow

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Bill's Topics

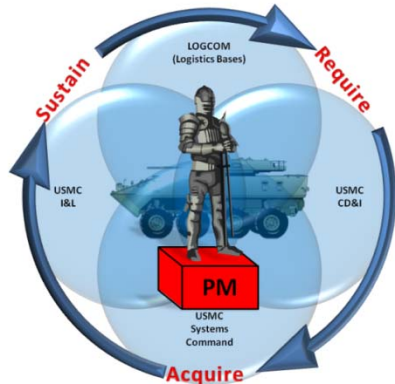
- Background
 - The Problem
 - The LAV Program Manager's Office
- UID in War & Peace, at Home & Abroad
 - CLI
 - CWIX
- What can it Mean?
 - The benefits
- Why Do It
 - The motivation

The Problem

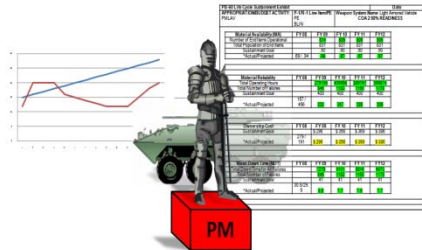


Iron Mountain

PMLAV Approach



Platform Centric Approach



Driven by Legacy Sustainment Costs



Enabled by Technology



Embrace & Support S&RL



AND OF COURSE...

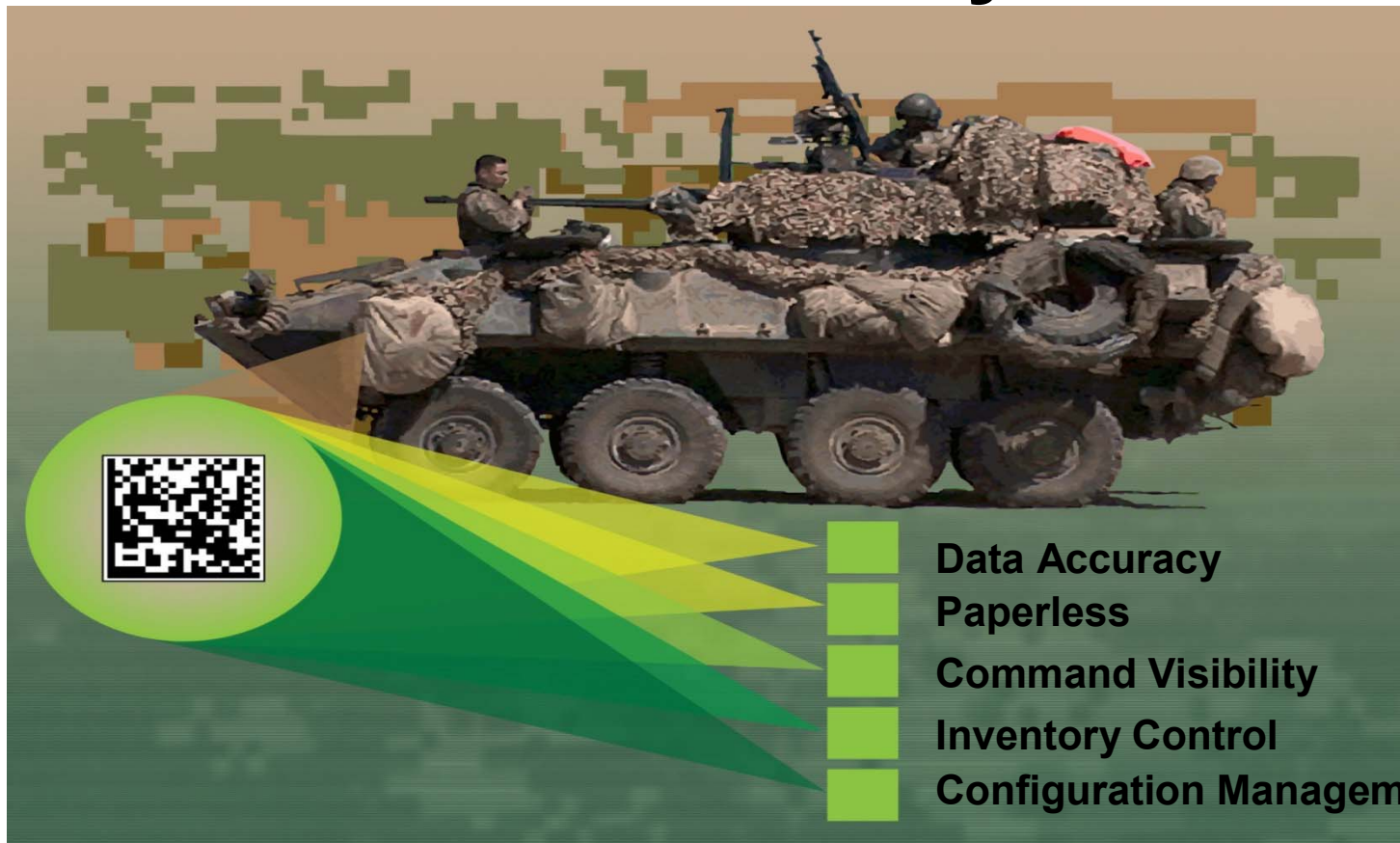
The IUID seed fell on fertile ground at PMLAV



UID Deployed-2010/2011

- JAMISS Enabler
- Currently forward with the deployed LAR
 - Riding EMSS network
 - Training conducted at Mojave Viper
 - Forward deployed LAV assets all received IUID marks prior to shipment
 - FSRs deployed to guide progress
- Phased approach to full implementation
 - Challenges to progress include:
 - Shortage of hardware
 - IA restrictions
- Beginning mid 2011 – JAMISS Automated Armory will be deployed forward

US Marines using UID in OEF = Data Quality



Coalition Logistics Interoperability

- Study the tools and techniques necessary for cooperative logistical support in a multi-national operation
- Develop and demonstrate an Item Identification DEX for receipt, capture and storage of UID data across NATO nations



Using JAMISS

Demonstrate the ability to:

- Enable SIM
- Improve traceability
- Retain item history
- Reduce Class IX stockage
- Integrate USMC “Bridge Technologies” into NATO environment



NATO CWIX 11

CWIX is a C4ISR Exercise

Demonstrating “Shareable Asset” capability in CWIX11 –
June 2011, Bydgoszcz, Poland

- Provides potential model for integration of NATO in-theater supply chain
- Provide Reportable Item Code (RIC) status to NATO Asset Locator Expert System (NALES) and NATO COP from national logistics information systems
- Participants in “JAMISS” Logistics Focus Area include:
 - USA
 - Italy
 - Poland
 - Allied Command Transformation (AC-T)
 - NAMSA
 - Industry



Our Motivation

- It's personal
- We know their names



We manage vehicles

We take care of Marines.



Coalition Contingency Projects

- Overview
- Foundational Capabilities
- Project Descriptions and Objectives
- Conclusion



Overview

- Situation
 - Multi-national operations
 - Common equipment
- Problem
 - Lack of Global Item Identification across nations
 - Inability to share life cycle data
- Solution
 - Combine UID of Items and PLCS for interoperable item level lifecycle data sharing
- Benefit
 - Increases readiness - ability to share common parts
 - Increases availability - lifecycle tracking of individual items



Foundational Capabilities

- UID of Items
 - The Mark (2D data matrix -ISO 15459)
 - Provides a common data key for lifecycle traceability
 - NATO Promulgated documents
 - STANAG 2290, UID of Items Strategy Document
 - Allied Unique Identification Publication -1 (AUIDP-1) guidance
- Product Lifecycle Support
 - Data model of through life product and support information; Data Exchange (DEX) provides sharing of PLCS-based data
 - STANAG 4461, AIA and Air Force advocacy

**UID of Items + PLCS =
A standard way to convey item level lifecycle data**

Supporting Doctrine

US Joint Staff “Joint Logistics Enterprise” recognizes the importance of multi-national logistics



This may require rearranging traditional joint logistic capabilities, developing new capabilities, taking advantage of existing Host Nation or **multinational** capabilities.”

This will necessitate that all of the JLEnt JCAs interface seamlessly and use Enterprise-wide business rules, processes, financial standards/enablers, **data standards**, shared decision-making, and performance metrics



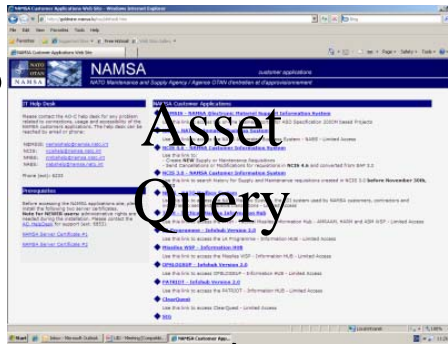
Capability Development

Two scenarios

1. Multi-national Asset Sourcing
 - “Offering” Nations identify and transmit standard data of sharable assets including the UII and NSN
 - Central site exposes sharable assets and related data
 - “Needing” Nation requests assets by UII based on item-specific data
2. Repair and Return in-theater UID marked and registered Item
 - Marine Corps Identifies a faulty item, sends to NAMSA for repair with UII and associated failure data
 - Repair conducted and UII'd item returned with related repair data
 - Transfers and lifecycle events tracked by UII



Shareable Assets



Nation 1

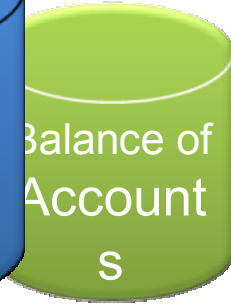
Item - NSN only

Nation 2

Item - NSN + UII

Nation 3

Item - NSN + UII + life



UID Forum Driving Traceability & Transparency



NSN Nomenclature

CAGE Part

UII Ric

Purchase Either Borrow

[Export CSV](#)

222 records found

NSN	NOMENCLATURE	PART NUMBER	RIC	SERIAL #	UII	USE	COUNTRY
2320014947616	LIGHT ARMORED VEHICLE	02001A0006		LAV-726-C87		Purchase	US
2320014947616	LIGHT ARMORED VEHICLE	02001A0006		LAV-727-C87		Purchase	US
2320014947616	LIGHT ARMORED VEHICLE	02001A0006		LAV-728-C87		Purchase	US
2320014947616	LIGHT ARMORED VEHICLE	02001A0006		LAV-729-C87		Purchase	US
2320014947616	LIGHT ARMORED VEHICLE	02001A0006		LAV-730-C87		Purchase	US
2320014947616	LIGHT ARMORED VEHICLE	02001A0006		LAV-733-C87		Purchase	US
2320014947616	LIGHT ARMORED VEHICLE	02001A0006		LAV-699-A87	1UKA9102001A0006LAV-699-A87	Purchase	US
2320014947616	LIGHT ARMORED VEHICLE	02001A0006		xxxxxx	56161110666118-011LAV-0878-J07	Purchase	US
2320014947616	LIGHT ARMORED VEHICLE	02001A0006		xxxxxxxx	56161110666118-011LAV-0886-K07	Purchase	US
2320014947616	LIGHT ARMORED VEHICLE	02001A0006		531806	56161110666118-011LAV-0891-K07	Purchase	US
2320014947616	LIGHT ARMORED VEHICLE	02001A0006		xxxxx	56161110666118-011LAV-0895-L07	Purchase	US
2320014947616	LIGHT ARMORED VEHICLE	02001A0006		531809	56161110666118-011LAV-0903-L07	Purchase	US
2320014947616	LIGHT ARMORED VEHICLE	02001A0006		xxxx	56161110666118-011LAV-0905-L07	Purchase	US

UID Forum Driving Traceability & Transparency

MARCH 1-3, 2011

HILTON ORLANDO • ORLANDO, FL



Shareable Items

[View Asset Detail](#)

Main Data

NSN: 2355015393634

Cage:

Part: 03002A0088

UII: D5616110666117-011LAV-0875-K07

UII Type: UID2

Serial: 531341

Quantity: 2 EA

POC Name: RUBEN SERNA

POC Email:
RUBEN.SERNA.ctr@NAVY.MIL

POC Org: N00164

POC Phone: 760-725-9922

Comments: NO COMMENT

Usage Qty: 83575 KILOMETERS

Condition Code: Z

Manufacture Date: 01-01-0001

Last LTI Date: 01-01-1900

System Identifier: 123

System Instance:
3

Country: US

Offer Expires on: 30-06-2011

Asset Revision: A2

Operation:

RIC:

USE: Purchase

Offering Price: 0.00

Offering Currency: Pending Qty:

Mission Operational Failure History

FailureDate

RepairedBy

Modifications

ModifDate

INSTALLATION OF THE M-30 LIGHT SOURCE CLAMP LOOP ON THE LIGHT ARMORED VE

22-07-2005

Description

SUPPLEMENTARY FEATURES LAV-LA2

Cage

Part

01365

03002A0088

Nomenclature

Hazardous

Weight

Unit

Volum

Unit

Price

Currency

Unit

Cancelled

LIGHT ARMORED VEHICLE

A2296

LBR

1406311

CFT

386380.00

USD

EA

Print

Back



Interoperable Data in Shareable Assets

- Phase 1 “Offer” = XML of key data elements
- Phase 2 “Offer” = Item Identification DEX
 - International ISO 10303 AP 239 Product Life Cycle Support standard
 - Item ID DEX definition Dec 2010
 - Accommodates UII item definition and UII item with life usage
- After initial proof, socialization, process, rules, etc discussions are critical

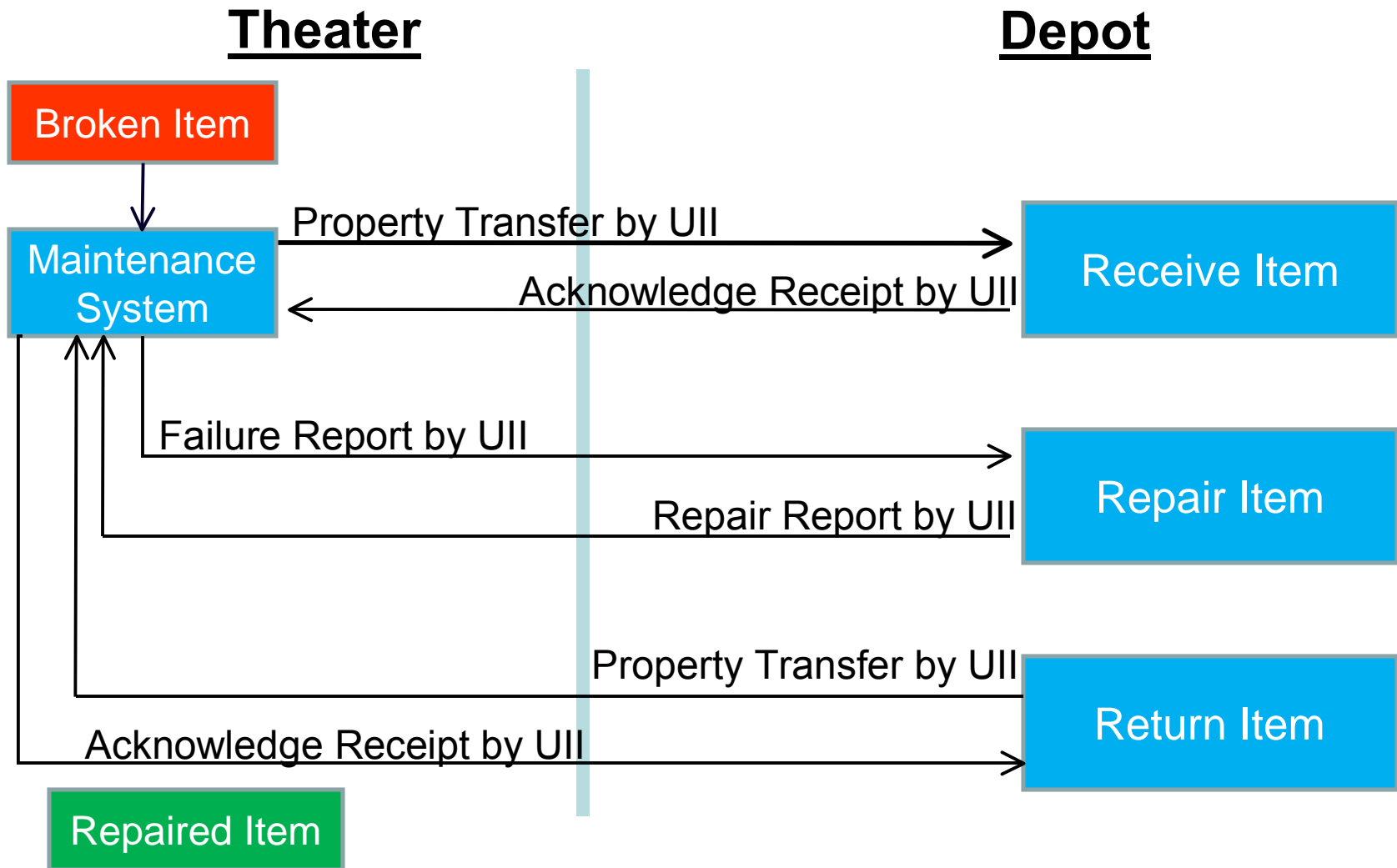


Item ID DEX Contents

- US DoD Registry
 - Static data (pedigree, acquisition contract, cost)
 - Lifecycle data (custody, current part number, disposition)
- NAMSA UID Registry
 - NSN, raw read
- Shareable Assets
 - Revisions, Failures, Technical inspection date



Repair and Return in Theater UID'd Item





Interoperable Data in Repair and Return

- Property transfer message
 - Reuses the XML structure from WAWF
 - Includes UII and related data of item moving to/from repair
- Maintenance Action
 - Exploring reuse/modification of Aviation Maintenance DEX
 - Incorporating ground vehicle maintenance requirements
 - UII is identification key for NAMSA; method to tie to property transfer message



International Data Interoperability

- The ability to share data is key to efficient logistics
 - Multi-national operations
 - Assets used by multiple countries
- UID of Items is the key to item interoperability, the constructs and conventions of data sharing are just now emerging
- International standards like PLCS can capture and share data from planning through use to disposal
- Scenario based demonstrations are establishing the infrastructure to enable multi-national logistics



QUESTIONS?

