DDX Logistics Support Working Group

Ready. Resourceful. Responsive!

LCDR Matt Mullins
NAVSUP 4B1I
14 NOV 2002
• Overview
• NAVSUP/NAVAIR Implementation
• Demonstrations
• System Status - Web Site Examples
• SIM/SNT Parallel Goals
• Contract Language - Package/Product
• SNT Implemented in Legacy System
• SNT Initiatives / Future
• Summary
Definition: Closed-loop, cradle-to-grave tracking of maintenance critical, serialized components, providing asset visibility and material status, and enabled by automatic identification technology.

**Maintaince**
- Identify Maintenance Deficiencies
- Accurately Measure Reliability
- Accurate Record Configuration
- Identify Latent Defects
- Determine Training Requirements
- Assist Engineering Investigations

**Supply**
- Assess Repair Turn Around Time
- Decrease Misidentification and Losses
- Warranty Management
- Predict Parts Requirements
- Better Procurement Decisions
- Measure Reliability
- Achieve Total Asset Visibility
Shipboard Asset/Information Flow

Information Systems

Carcass Screening Transshipment
- ATAC Hub / Node
  - Web-MRIL / A-ORS
- ATAC DB
- U2/DS S
- UICP
- CAV DB
- CAV ORM
- UICP
- CAV DB
- U2/DS S

Carcass Shipment
- SNT System
  - FACTS
  - FACTS DB
  - 3M DB
  - OMMS
- FIMARS
- CDMD-OA
- (O)-Level

Retail Sector
- Shipboard Supply
  - Shipboard Inv
  - SIMA CompassMRO

Wholesale Sector
- R- Supply
  - GTN
  - RFI Wholesale Inventory

NSWC Crane
Depot Repair
Commercial Depot
Inter-Service Depot
Organic Depot

= Info Flow - SN
Info Flow - No SN
Not connected
= Asset Flow
Contact Memory Button (CMB)

Nameplate Data

- Computer, Air Data CPU-175/A
- P/N 50-100-01
- S/N 0152
- MFR K0656
- CONTR F33657-85C-0025

CMB Stats:
- 2k, 8k, 32k
- ~$7-$13 each
- Read/Write
- Dual CMB/BC Reader
- $1200

Maintenance History

Scheduled Removal Component Card

Available for Vendor Use

Available for Future Navy Use

*Electronic Logset In Aviation

**Use TBD within aviation maintenance
<table>
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<th>T/M/S</th>
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<th>Component s per Aircraft</th>
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**Total # of Items marked**: 1,267,091

**SNT Implementation Cost**: $58,211,345.83
**H-60/HSL-40:**
- Demonstrate O-OMA AIT interfaces
- Squadron hardware requirements/data standards
- Track 25 marked components
- Demo completed June 2000

**SCADC**
- SNT included in PBL Contract
- Loading of Serial Number into CAV
- BAE Assistance

SNT Functionality in Commercial Depot
**SQQ-32 SONAR:**
- Ships selected: MCM’s/MHC’s
- 13 Components Marked
- Keyport/Ingleside/Raytheon/Shipboard
- Objective: Retrograde Tracking

**HOSS Camera (AN/SXY-1):**
- NAVICP LECP
- Contract Language and Drawing includes CMB
- SNT in New Production Environment
- Delivery of first cameras: NOV 2000

**CAMS II A5 MODULE on SUBMARINES**
Welcome to the US Navy Serial Number Tracking System

This system provides the ability to track individual repairable weapons system components by serial number. This is in addition to the existing process of tracking by NSN, part number, or work unit code.

This level of visibility is invaluable for managing warranties, tracking reliability, isolating ILS deficiencies and locating individual assets everywhere in the world. This system was developed in response to the Aviation Maintenance - Supply Review which determined that serial number tracking is a necessary requirement to accurately assess declines in Naval Aviation readiness.

The system was developed by a team of experts from NAVSUP, NAVICP, NAVAIR, NAVSEA, SPAWAR, and FMSO.
Generate, Collect & Analyze Maintenance Data

**SNT Existing Reports**

- **Highest Failure Report**
- **Highest Cannibalization Report**
- **Highest BCM Report**
### Search Criteria

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### System Status

**Document Number**
- **Leg 1**: R3283A2122G612
- **Leg 2**: R3283A2122G612

**NIIN**
- **Leg 1**: 014406604
- **Leg 2**: 014406604

**Serial Number**
- **Leg 1**: DVP0079
- **Leg 2**: DVP0079

**Quantity**
- **Leg 1**: 1
- **Leg 2**: 1

**Condition Code**
- **Leg 1**: F
- **Leg 2**: F

**Shipped From**
- **Leg 1**: Navy Support Facility Diego Garcia
- **Leg 2**: ATAC AGENT YOKOTA AIR BASE

**Date Shipped**
- **Leg 1**: 07-May-2002
- **Leg 2**: 22-May-2002

**LTN**
- **Leg 1**: R3283A2122G612XXX
- **Leg 2**: R3283A2119D306XXX

**Transportation Mode**
- **Leg 1**: F - Air, Air Mobility Command
- **Leg 2**: F - Air, Air Mobility Command

**Ship To**
- **Leg 1**: N62649

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**Note:** The information is extracted from the SNT WEB PAGE QUERY RESULTS page, which provides details about the retrograde tracking of assets using the SNT system. The page includes search criteria and system status for specific documents, serial numbers, and additional details related to the shipment and condition.
NAVAL SUPPLY SYSTEMS
COMMAND

SIM / SNT Parallel Goals

Optimize Logistics Processes to Minimize Customer Wait Time (CWT) using Variance Based Metrics

Customer Confidence In a Simplified Priority System With Time Definite Delivery

Total Asset Visibility Through Use of AIT, Shared Data Environment and Other Applications

Real-Time, Actionable, Web-Based Logistics Information Systems

FY02 FY02 FY04 FY04

DRID 54

Complements

- SUPER REG
- SIM Directive
- ADC 44
- PDC 83
All Unit packs will consist of a 2D PDF-417 bar code label. Labels shall contain the following information: CAGE, Part Number, Serial Number, NSN, Contract Number, Nomenclature, Unit of Issue and Quantity. Labels shall be applied in accordance with the requirements of MIL-STD-129M, paragraph 4.5.2.2.
Package marking

Contracts

PDF417 2D

Cage: 02059
PN: 102770-351
Ser: 6694
NSN 7025011415888
CONT: N00104-98-T-0023
Name: Magnetic Tape
U/I: EA
QTY: 1

Ser Nr.

PDF417 2D

Cage: 02059
PN: 102770-351
Ser: 6694
NSN 7025011415888
CONT: N00104-98-T-0023
Name: Magnetic Tape
U/I: EA
QTY: 1
Product Marking
Retrograde from Customer

TRANSSHIP TO ATAC
Security Code U
MAILABLE CAND IN PLACE
LEVEL SKED IRIM

VKUQ

JCN: AD11500751E
ATAC NORFOLK
406 B ST-BLDG 889D ATAC NORFOLK
NORFOLK, VA 23511

SIGN
FEB 06 2002

CONTROL NUMBER
104631-B

DD FORM 1348-1A, NOV 87 ISSUE RELEASE/RECEIPT DOCUMENT
Retrograde to DD

Serial Number
- SMART Transportation Solution
- LCAV and other databases to access
- SNT Implementation steps submitted to NAVSEA (04153)
- Marking of Wholesale Stock (DD) items - work underway
  - Reporting of items in DD warehouse
Effective JAN 03
DSS Reports
SN of
Selected Items
For Receipts/
Issues

Web-enabled
SNT System

SNT WEB
Site
Accesses
Navy
Repository

To Navy
Repository

Navy Repository

Future
• AIT Product Marking – Nameplate Data –

• Contract Language
  • Product Marking – MILSTD 130
  • Package Marking – MILSTD 129

• PDF 417 2D OR CMB

• Standardization – ISO 15418/15434

• Interfacing with other systems (example Supply and Maintenance systems)
Nameplate Data

From This

G.E.C. MARCONI AVIONICS LTD
CMPT< AIRDATA CPU175/A
PN 50-100-02 MFG K0656
DSGNACT K0656
NSN 6605-00-010-4716
CONTR F34601-95-C-0137
Ser NR K0656-345198

To This

G.E.C. MARCONI AVIONICS LTD
CMPT< AIRDATA CPU175/A
PN 50-100-02 MFG K0656
DSGNACT K0656
NSN 6605-00-010-4716
CONTR F34601-95-C-0137
Ser NR K0656-345198
• Program well underway
• NAVAIR Revised Implementation Plan in January 02
  – Parts marking by TMS underway
• SNTS Web Application on line
• SNT consistent with DRID 54, ERP, STS
• SNT: Supports DOD’s SIM Initiative
• New Program (DDX) Influence
Points of Contact
http://www.snt.navsup.navy.mil

Project Manager
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(814) 269-6519                     DSN 430- 4601 COM
(717) 605-4601
Email: dadeys@ctcgsc.org           Email: Larson@uii.com