Outline

- Background/Overview
- SNT Pillars
  - Databases
  - AIT
- System Access
- AIT
- Future with DLA
- Aviation Rollout
- SNT Web Page - Capabilities
- Maritime AIT Initiatives
- Summary
- SNT Web Application Demo
How SNT Got Started


Challenge:

Lower Maintenance & Supply Cost

Increase Readiness
Definition: Closed-loop, cradle-to-grave tracking of maintenance critical, serialized components, providing asset visibility and material status, and enabled by automatic identification technology.

Major Benefits:

**Maintenance**
- Identify Maintenance Deficiencies
- 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
SNT Consists of Two Pillars

**FIRST**
Live access to databases via the SNT Web-enabled portal.

- WMRS/A-ORS
eRMS/WMPS
- UICP
- WEB-CAV
- CAV-ORM
- CAV-Navy
- FACTS
- OOMA/OIMA
- R-Supply
- IBS

**SECOND**
Automatic Identification Technology (AIT) is used by the SNT to maintain data accuracy.

- CMB
- 2D Data matrix
- 2D PDF417
- ISO15418/15434
- MILSTD129
- MILSTD130
- MSL
- IRRD
Contact Memory Button (CMB)

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

Maintenance History**

**Use TBD within aviation maintenance

Available for Vendor Use

Available for Future Navy Use

Scheduled Removal Component Card

Warranty Data

Nameplate Data
Mil-Std 130 Identification Marking of U. S. Property
Product Marking

Today’s Standard

Tomorrow’s Standard

CMB

2D Data Matrix

Cage V2345
PN 33489-12
NSN 5835-01-141-5888
Ser: 45367
Military Standards
Package Marking

Mil Std 129 Package Marking

Today’s Standard

Tomorrow’s Standard

PDF-417 Format

Cage 92059
PN 102770-351
Ser 6684
NSN 7025-01-141-8961
Cont N00104-93-4-0023
Name: Magnetic Tape
Contracts

NAVAL SUPPLY SYSTEMS COMMAND

Package Marking

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

CASREP
URGENT
AIT

Serial Number
Mil-Std 129 PDF417
2D
ANSI MH 10

Create IRRD with Serial Number

Nameplate Data

CAGE: V23456
PN: 33489-12
NSN: 5835-01-141-5888
S/N: 45367
Cont: N00383-02-G010N-0017
Name: Main Rotor Blade
NAVAL SUPPLY SYSTEMS COMMAND

SIM / SNT
Parallel Goals

DRID 54

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

Complements

- SUPER REG
- DoD 5000.2 Acquisition
- SIM Directive
- ADC 44 & 89
- DoD UID Guide 9 May 03

FY02 FY02 FY04 FY04

Summary
Wholesale System Reporting S/N

Coming Soon
DSS Reports
SN of
Selected Items
For Receipts/
Issues

Web-enabled
SNT System

DDNV 12/8/02 – 3/3/03
DDDC/DDCN 1/12/03 –
3/3/03

Navy Repository

Future

SNT WEB
Site
Accesses
Navy
Repository

Receipts  W/ SN  W/O SN
DDNV     6      22
DDDC     193    112
DDCN     493    201

Issues
DDNV     15      9
DDDC     95     164
DDCN     470    314
# Supply - Aviation 5 Year Plan

## Aviation Rollout

### Table: Total Number of Items

<table>
<thead>
<tr>
<th>T/M/S</th>
<th>Total Number Aircraft</th>
<th>Component s per Aircraft</th>
<th>Total Number of Components (W/ 25% spares)</th>
<th>Total CMB</th>
<th>Contractor Installation Cost</th>
<th>Total Engineering Document Cost</th>
<th>Total AIT Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>MH-53E</td>
<td>46</td>
<td>170</td>
<td>9,775</td>
<td>$152,783.25</td>
<td>$272,412.00</td>
<td>$136,000.00</td>
<td>$605,932.55</td>
</tr>
<tr>
<td>CH-53E</td>
<td>164</td>
<td>170</td>
<td>34,850</td>
<td>$544,705.50</td>
<td>$817,236.00</td>
<td>$136,000.00</td>
<td>$1,597,820.10</td>
</tr>
<tr>
<td>CH-53D</td>
<td>144</td>
<td>104</td>
<td>5,720</td>
<td>$89,403.60</td>
<td>$272,412.00</td>
<td>$83,200.00</td>
<td>$466,995.50</td>
</tr>
<tr>
<td>CH-60</td>
<td>242</td>
<td>300</td>
<td>128,250</td>
<td>$2,004,547.50</td>
<td>$3,268,944.00</td>
<td>$240,000.00</td>
<td>$5,665,423.90</td>
</tr>
<tr>
<td>HHUH-1N</td>
<td>126</td>
<td>132</td>
<td>20,125</td>
<td>$314,553.75</td>
<td>$926,200.80</td>
<td>$56,000.00</td>
<td>$1,383,946.57</td>
</tr>
<tr>
<td>CH-46E</td>
<td>70</td>
<td>104</td>
<td>6,913</td>
<td>$108,042.38</td>
<td>$435,859.20</td>
<td>$56,000.00</td>
<td>$609,546.56</td>
</tr>
<tr>
<td>EA-6B</td>
<td>124</td>
<td>144</td>
<td>22,320</td>
<td>$348,861.60</td>
<td>$1,035,165.60</td>
<td>$115,000.00</td>
<td>$1,659,474.94</td>
</tr>
<tr>
<td>M-60</td>
<td>248</td>
<td>203</td>
<td>116,218</td>
<td>$1,816,479.53</td>
<td>$3,922,732.80</td>
<td>$162,400.00</td>
<td>$6,525,490.39</td>
</tr>
<tr>
<td>AV-8</td>
<td>921</td>
<td>921</td>
<td>198,015</td>
<td>$3,094,974.45</td>
<td>$871,718.40</td>
<td>$736,800.00</td>
<td>$9,829,768.53</td>
</tr>
<tr>
<td>F-14A/B</td>
<td>193</td>
<td>200</td>
<td>48,250</td>
<td>$754,147.50</td>
<td>$871,718.40</td>
<td>$160,000.00</td>
<td>$2,609,421.95</td>
</tr>
<tr>
<td>P-3's</td>
<td>75</td>
<td>45</td>
<td>28,750</td>
<td>$386,842.50</td>
<td>$1,799,919.20</td>
<td>$60,000.00</td>
<td>$5,147,874.68</td>
</tr>
<tr>
<td>Cargo</td>
<td>295</td>
<td>175</td>
<td>64,531</td>
<td>$1,008,623.44</td>
<td>$2,724,120.00</td>
<td>$140,000.00</td>
<td>$4,297,527.69</td>
</tr>
<tr>
<td>Trainers</td>
<td>515</td>
<td>129</td>
<td>83,044</td>
<td>$1,297,973.81</td>
<td>$817,236.00</td>
<td>$103,200.00</td>
<td>$2,206,246.46</td>
</tr>
<tr>
<td>E-2C</td>
<td>75</td>
<td>156</td>
<td>13,594</td>
<td>$212,470.31</td>
<td>$1,525,507.20</td>
<td>$116,000.00</td>
<td>$3,713,947.10</td>
</tr>
<tr>
<td>C-2A</td>
<td>38</td>
<td>14</td>
<td>6,888</td>
<td>$107,651.63</td>
<td>$217,929.60</td>
<td>$116,000.00</td>
<td>$431,508.85</td>
</tr>
<tr>
<td>F-18ABCD</td>
<td>745</td>
<td>200</td>
<td>186,250</td>
<td>$2,911,087.50</td>
<td>$4,794,451.20</td>
<td>$160,000.00</td>
<td>$8,337,383.34</td>
</tr>
<tr>
<td>F-18EF</td>
<td>548</td>
<td>240</td>
<td>164,400</td>
<td>$2,569,572.00</td>
<td>$2,179,296.00</td>
<td>$192,000.00</td>
<td>$5,436,021.20</td>
</tr>
<tr>
<td>Misc Support</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>1,267,091</td>
<td></td>
<td>$19,804,636.24</td>
<td>$29,120,842.80</td>
<td>$3,726,400.00</td>
</tr>
</tbody>
</table>

**Total # of Items marked**: 1,267,091

**SNT Implementation Cost**: $58,211,346

**Total Cost** = $58,211,346
Steps to Marking Parts

• Identify Parts to be Marked
• Get Approval
• Update Drawings & Technical Manuals & Directives
• Provide Configuration & ILS Support
• Establish Plan for Marking
  • Plane Side
  • Warehouse (Wholesale & Retail)
  • Amend Repair Contracts/ New Items for Supply
### Retrograde Results

<table>
<thead>
<tr>
<th>Document Number</th>
<th>Origin</th>
<th>xShip / ATAC Hub or Node</th>
<th>xShip / ATAC Hub or Node</th>
<th>DOP/DSP</th>
</tr>
</thead>
<tbody>
<tr>
<td>R033633072G660</td>
<td>R033633072G660</td>
<td>R033633072G660</td>
<td>R033633072G660</td>
<td>R033633072G660</td>
</tr>
<tr>
<td>006684353</td>
<td>006684353</td>
<td>006684353</td>
<td>006684353</td>
<td>006684353</td>
</tr>
<tr>
<td>BMAC-B4-0068</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Quantity</td>
<td>F</td>
<td>F</td>
<td>F</td>
<td>F</td>
</tr>
<tr>
<td>Condition Code</td>
<td>R03363</td>
<td>N4533A</td>
<td>N46433</td>
<td>SW3122</td>
</tr>
<tr>
<td>Activity</td>
<td>USS KITTY HAWK CV 63</td>
<td>ATAC HUB North Island, CA</td>
<td>ATAC HUB North Island, CA</td>
<td></td>
</tr>
<tr>
<td>Date Received</td>
<td>N/A</td>
<td>25 Mar 2003</td>
<td>16 Apr 2003</td>
<td>25 Apr 2003</td>
</tr>
<tr>
<td>Ship To</td>
<td>SW3122</td>
<td>N46433</td>
<td>SW3122</td>
<td>N/A</td>
</tr>
<tr>
<td>Date Shipped</td>
<td>25 Mar 2003</td>
<td>16 Apr 2003</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>LTNC</td>
<td>N/A</td>
<td>R033633072G660RX</td>
<td>N443293091G42AX</td>
<td>N/A</td>
</tr>
<tr>
<td>Transportation Mode</td>
<td>N/A</td>
<td>F - Air, Air Mobility Command</td>
<td>T - Air, Air Freight Forwarder</td>
<td>N/A</td>
</tr>
<tr>
<td>RCDN</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>HARDEMAN</td>
</tr>
<tr>
<td>Signature</td>
<td>N/A</td>
<td>ATAC</td>
<td>ATAC</td>
<td>ATAC/CAY</td>
</tr>
<tr>
<td>(Data Source)</td>
<td>WMPS</td>
<td>ATAC</td>
<td>ATAC</td>
<td>ATAC/CAY</td>
</tr>
</tbody>
</table>
Dear ____________
This is an email notifying you of the status of your Carcass Watches:
Document Number: N00188-3155-GC23
NIIN: 008773277
Serial Number: 16740
Condition Code: F
Quantity: 0
Shipped From: N00188 - NAVAL AIR STATION OCEANA
Date Shipped:
LTCN:
Transportation Mode: -
Ship To: N68620 - ATAC HUB Norfolk, VA
Date Received:

NIIN: 008773277
Serial Number: 16740
Condition Code: F
Quantity: 1
Shipped From: N68620 - ATAC HUB Norfolk, VA
Date Shipped:
LTCN: N001883155GC23XXX
Transportation Mode: T - Air, Air Freight Forwarder
Ship To: SW3142
Date Received: 2003-06-05
SNT Web Page
Query Results

Generate, Collect & Analyze Maintenance Data

SNT Existing Reports

Decision Support

SNT Existing Reports

Highest Failure Report

Highest Cannibalization Report

Highest BCM Report
## Warranty Terms

### Results

<table>
<thead>
<tr>
<th>Contract Number</th>
<th>Warranty Start Date</th>
<th>Warranty Stop Date</th>
<th>Guaranteed Cycle Time</th>
<th>Guaranteed MTBF</th>
<th>Guaranteed NFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>N0810400D001</td>
<td>30 Oct 2000</td>
<td>02 Jan 2002</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Records: 1 of 1 Total Records.

Page: 1
## Warranty Terms

### Results

<table>
<thead>
<tr>
<th>Serial Number</th>
<th>Part Number</th>
<th>Contract Number</th>
<th>CAGE Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>096-0100-01</td>
<td>N01030CDG001</td>
<td>99488</td>
</tr>
<tr>
<td>2</td>
<td>096-0100-01</td>
<td>N01030CDG001</td>
<td>99488</td>
</tr>
<tr>
<td>3</td>
<td>096-0100-01</td>
<td>N01030CDG001</td>
<td>99488</td>
</tr>
<tr>
<td>4</td>
<td>096-0100-01</td>
<td>N01030CDG001</td>
<td>99488</td>
</tr>
<tr>
<td>5</td>
<td>096-0100-01</td>
<td>N01030CDG001</td>
<td>99488</td>
</tr>
<tr>
<td>6</td>
<td>096-0100-01</td>
<td>N01030CDG001</td>
<td>99488</td>
</tr>
<tr>
<td>7</td>
<td>096-0100-01</td>
<td>N01030CDG001</td>
<td>99488</td>
</tr>
<tr>
<td>8</td>
<td>096-0100-01</td>
<td>N01030CDG001</td>
<td>99488</td>
</tr>
<tr>
<td>9</td>
<td>096-0100-01</td>
<td>N01030CDG001</td>
<td>99488</td>
</tr>
<tr>
<td>10</td>
<td>096-0100-01</td>
<td>N01030CDG001</td>
<td>99488</td>
</tr>
<tr>
<td>11</td>
<td>096-0100-01</td>
<td>N01030CDG001</td>
<td>99488</td>
</tr>
<tr>
<td>12</td>
<td>096-0100-01</td>
<td>N01030CDG001</td>
<td>99488</td>
</tr>
<tr>
<td>13</td>
<td>096-0100-01</td>
<td>N01030CDG001</td>
<td>99488</td>
</tr>
<tr>
<td>14</td>
<td>096-0100-01</td>
<td>N01030CDG001</td>
<td>99488</td>
</tr>
<tr>
<td>15</td>
<td>096-0100-01</td>
<td>N01030CDG001</td>
<td>99488</td>
</tr>
</tbody>
</table>
Maritime Focus

DATA BASE ACCESS:

• CDMD-OA
  - Display Shipboard Configuration Data

• LCAV
  - In Transit Query

• ILSMIS

INITIATIVES:

• GPETE - Working with NAVSEA Code 04L52

• Ship Configuration Validation - Working with NAVSEA Code 04L51

  • Rapid Securing Device (RSD)
  • AN/UYQ-70
  • AEGIS tubes
  • MK92 TWT
  • BARCO ATDC monitors and COHU cameras (Tomahawk)
CONTRACTS:

• Sikorsky

• General Nucleonics

• Breeze Eastern

• Package Marking Standards (DDD receipts & issues)

OTHER:

• Funding to support eRMS changes - advance receipt

• Funds for product marking

• NAVICP-M start contracts now for Package Marking with
  - Supports SNT thru DDD receipts & issues by SN
Summary

- SNT Project well underway
- Aviation Implementation Plan rollout
  - NAVAIR/NAVSUP Joint Effort
  - Parts marking by Type Model Series of A/C underway
- SNTS Web Application on line - accessing live data
  - Decision Support and Reliability Modules
- Maritime Initiatives Important