Air Force Materiel Command

Contract Repair Information System Pilot (CRISP) for Air Force

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HQ AFMC/LGIP
WHAT IS CRISP?

• Pilot project – test viability
• Prototype direct XML data from contractor’s systems
• Purpose: demonstrate value and methods for greater government – industry information sharing
• Determine benefits for government and contractors
• Results turned over to CAV developers for deployment
• Funded by Defense Sustainment Consortium
Intent of this project is to demonstrate that linking the information pipeline between the DoD and Repair Contractors will produce tangible benefits in supply chain management.
PROBLEM

DoD:
• The lack of timely, accurate information (status) is preventing supply chain professionals from effectively and efficiently managing assets repaired by contractors.

Contractor:
• Different requirements from every customer
• No common processes
• Higher costs passed on to the customer from manual input
• Higher support costs (indirect) resulting from frequent customer calls
CURRENT SITUATION

Contractor manually inputs status that is fed to WEB, and provides/gets contract info by phone.

PMS calls contractor for status.

Air Force Item Manager calls PMS for status.

, PMSs, Contractors must perform manual workarounds to get reliable information.
And usually, each contractor has multiple contracts in place with a single customer to repair items...each with a CLIN to provide repair status.
CONSEQUENCES

- Unnecessary data entry burden for the contractor
- Increased turn-around times
- Increased inventory levels by DoD
- Inaccurate/slow repair and delivery status
- Low return on DoD and contractor investment in ERP and e-commerce capabilities
- Lots of non-value added work

Impacts Weapon System Availability
CRISP will deliver a proven means for establishing a direct connection and a set of standard, repeatable processes based on Internet technologies. The result will provide supply chain professionals timely visibility of assets undergoing repair at contractor facilities.
Proposed To CAV Community

DoD Legacy System(s)

Update Legacy System(s)

CRISP

Update CAV II XML

Contractor Enterprise System

CRISP

CAV-II

Internet

Web Browser

Computer

Status request

Status response

Firewall

Firewall

• Receipt
• Induction
• Completion
• Shipment
DEPOT BENEFITS

• Better information enables better management
  - Less inventory
  - Better planning
  - Reduced funded undelivered
  - More accurate delivery schedules
  - Performance-based repair contracts

• Less chasing information, more managing items
  - Item managers can respond to customer faster and with less effort
  - Reduced need for status updates to customers
WARFIGHTER BENEFITS

• Quick, accurate response to warfighter inquiries
• Reduced time chasing assets
• Increased issue effectiveness
• Reduced NMCS from contractor-repaired assets
CONTRACTOR BENEFITS

• Leverages new ERP and e-commerce capabilities
• Enables management of performance-based repair contracts
• Timely, electronic generated, contractor performance metrics
• Reduced cost of responding to status inquiries
• Freedom from manual entry
• Common method for multiple customers
• (potential) Visibility of inbound orders & shipments
• Phase 2 – Development
  - Develop CRISP software
    • Government side (ICF)
    • Contractor side (Rockwell Collins)
  - Lay path for pilot evaluation and broad deployment

• Phase 3 – Pilot Evaluation
  - End-to-End Business Pilot
  - Business Case
  - Transition Planning
CRISP / AF Transaction Flow
Phase 2 & 3 Pilot

(1) Upon status change, send on-line XML transaction to DAASC
(2) Route incoming to AF-LMS at AF Center
(3) Receive XML transactions, error handling, & convert to AF-LMS application interface
(4) Test XML interface with Test Application from AF-LMS application interface
(5) Maintain status of repair, user interface, interface to update legacy applications
(1) Upon status change, send on-line XML transaction to DAASC
(2) Route incoming to specific application at a site
(3) Receive XML transactions, error handling, & convert to AF-LMS application interface
(4) Diagnostic test application to isolate communications problems
(5) Maintain status of repair, user interface, interface to update legacy applications