TRANSITIONING TO CMMI IN A GOVERNMENT/INDUSTRY PARTNERSHIP ENVIRONMENT

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OVERVIEW

• Software Sustainment Environment
• Partnership Roadmap
• CMMI Strengths for Software Sustainment
• Smart Standardization between Partners
• Summarize CMMI Between Partners
Public-Private Logistics Partnership

“... a logistics sustainment philosophy that focuses on a cooperative agreement between the program manager, system sustainment manager, depot maintenance manager, and private sector supplier of sustainment and modernization.”

Partnering is a **cooperative** effort **not a competitive engagement**!
The Joint STARS Partnership

LONG RANGE MEMORANDUM OF AGREEMENT

JOINT STARS
JOINT PROGRAM OFFICE
(ESC/JS & WR-ALC/LKS)

Funding for GFS/S
Service Level Agreement (SLA)

Budget for GFS/S
Future Support TSSR Contract

WR-ALC DEPOT MAINTENANCE ACTIVITY GROUP (MA)

Workload Tasking for GFS/S

Partnering Agreement
Implementation Agreements
Supplier Requirements Documents
Software Transition Plan

NORTHROP GRUMMAN CORPORATION
Joint STARS Software Sustainment

The Partnered Software Maintenance Process
Software Sustainment Environment

- Generally Correction/Enhancement of Small Portion of Large Software System
- High software module interdependency
- Small changes may create major impact.
- Limited applicability of optimum development process.
Partnership Roadmap

Successful partnerships

– Acknowledge success criteria for each party
– Identify common interests
– Establish responsibilities for each party
– Integrate Resources, Processes, and Products to be transparent to the customer

- and most importantly -

Develop Mutual Trust
Common Interests

• Improve Product Quality
  – More Product Delivered
  – Better Performance

• Improve Efficiency
  – Better Practices
  – Faster Processes
  – Cheaper Methods

• Bottom Line - Provide Superior Warfighter Support
Joint Responsibilities

- Shared Information & Expertise
- Planning/Budgeting Resources
- Integrated Product Teams
- Common Metrics
- Work Accomplishment
- Collaborative Work Environment
- Single Face to Customer
So, how do we apply CMMI in a partnered software sustainment environment?
CMMI Strengths for Software Sustainment

• Flexibility to tailor the CMMI model to specific scenario
• Framework to leverage on system engineering practices to manage requirements and configurations throughout the product life-cycle
• Framework to leverage on Integrated Teaming (IPT) approach to build partnered virtual teams
Smart Standardization

- Optimize Standardization
- Standardize outputs not processes
- Outputs:
  - SW products
  - Management products
  - Metrics
CMMI Between Partners Requires

• Establish Mutual Trust/Commitment
• Leverage on Applicable CMMI Strengths
• Optimize Standardization
• Provide Superior Warfighter Support