

2005 REQUIREMENTS SYMPOSIUM



Avionics Component Improvement Program (AvCIP)

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Overview



- Program Description
- Acquisition & Sustainment Strategy
- Program Budget
- Avionics Challenges
- Avionics Strategic Roadmap
- AvCIP Candidate Projects
- Government Focal Points
- Summary



What is AvCIP?



- Development & sustainment support for common avionics
- Crosscutting solutions to increase capabilities
- Patterned after successful Engine CIP
 - Correct operationally identified deficiencies
 - Improve R&M and reduce costs of ownership
- How will AvCIP benefit the warfighter?
 - Shorten cycle time to field new capabilities
 - Reduce acquisition and support costs
 - Improve weapon system availabilities



What is AvCIP?



- Joint Services Review Committee for Avionics Standardization (JSRC-AS)
 - Establish a strategic vision for joint avionics
 - Reduce proliferation of avionics (hardware, software, architectures)
 - Tasked each service to develop an avionics roadmap
 - Coordinate, integrate and deconflict service roadmaps



Current Status of Program / Issue



- Policies/Procedures (DOD/AF/AFMC)
- Requirements (5 years worth)
- Funding Adequacy
- Evolving National Security Threats
- Transformation Impacts
- Effects Based Capabilities

N/A



AvCIP Acquisition & Sustainment Strategy



- Institute a better business approach to Avionics Management
- Establish AvCIP management structures & funding processes analogous to Engine CIP
- O&M funds for near term support (2-3 years)
- RDT&E funds for capability development & long term support (3-10 years)



Program Requirements Roadmap



- 45 Active Contracts
- \$729.1M Research and Development Budget, FYs 00-07
- \$2,818M Procurement Budget, FYs 00-07
- _____Sustainment (O&M)

N/A



Funded Requirements (Not On Contract)



- Program
- Scope
- Schedule
- Budget
- POC (Name/phone #/E-mail)

N/A



Program Budget

	<u>R & D</u>	<u>Sustainment</u>
FY06	\$7.9M	\$12.12M
FY07	\$16.9M	\$17.8M
FY08	\$22.7M	\$24.6M
FY09	\$19.3M	\$24.6M
FY10	\$19.3M	\$24.6M
FY11	\$19.3M	\$24.6M
FY12	\$19.3M	\$24.6M
FY13	<u>\$19.3M</u>	<u>\$24.6M</u>
Total	\$144.0M	\$177.52M

Received \$980K in FY05 for Rapid Retargeting Project
0\$ approved for FYs 06/07



Unfunded Requirements



- Program
- Scope
- Schedule
- Funding & Execution Probability
- POC (Name/Phone #/E-mail)

N/A



Avionics Challenges



- Avionics lags technology refresh (Moore's Law)
- DMSMS and obsolete parts problems
- Fragmented management across platforms
- Huge costs to implement & sustain platform-centric solutions
- ***PPBS PROCESS DOES NOT SUPPORT COMMON AVIONICS***



Avionics Strategic Roadmap (ASR)



- Real Time, Web-based, Interactive Roadmap
 - System Description & Inventory
 - Stakeholders
 - Policies, Guidance & Mandates
 - Modifications & Upgrades
 - Budget
 - Milestones
- Baseline Capabilities
 - Rollup by System, Function, Organization
 - Supportability, Hi-Cost Drivers, & MICAPS
 - Plans, Program, Modifications, Milestones



AvCIP Candidate Projects



- Mission Critical Degradation: Existing (within 36 mo)
 - TRC-170 Troposphere Scatter Radio Set
 - Common Digital Video Recorder
 - Digital Data Recorder
- New Requirements/Interoperability
 - Wireless Intercom
 - Common Intercom JTRS Compatibility
- Mission Critical Degradation: Projected (beyond 36 mo)
 - ASQ-141 Flight Director
 - VOR/ILS
 - Common ADF/DF
- Reliability, Maintainability & Deployability (Pos ROI)
 - Universal Data Acquisition System replacement for crash survival data recorders



Government Focal Points



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Summary



- Way Ahead
 - Continue ASR Development
 - Integrate Aging Aircraft & C2 Enterprises
 - AvCIP Call for Projects/Conference
 - Prioritize Projects for FY08-FY13 Funding

