AWACS/ AEW&C CLS approach

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International Approach

- RAF approach
  - TLSC Single Contract, Availability based
- RAAF Wedgetail proposal
  - TLSC
- NATO answer
  - Internal
Integrity - Service - Excellence

Reactive approach

- Part goes DMS
- DMS part identified
- Program unaware of problem
- Trade study and identify solution
- Customer approval
- Solution implementation
- ITAR flow

Proactive approach

- Part goes DMS
- Program notified
- Trade study and identify solution
- Customer approval
- Solution implementation
- ITAR flow

50% spares level
25% spares level
0% spares level
AEW&C Example

Typical AEW&C avionics system program roadmap

DMS example 1
Advanced notification provides sufficient lead time to plan for redesign in earlier block upgrade
- Technology insertion to improve performance
- Eliminate reliability and supportability drivers

DMS example 2
Opportunity to perform “bridge buy” to support equipment until the next block upgrade
- Supports existing roadmap

DMS example 3
Opportunity to perform “bridge buy” or identify alternative part to support equipment to later block upgrade.
- Defer redesign costs

Legend:

id: Identified DMS part requiring equipment redesign
\(^{\downarrow}\): Projected need date for solution
\(\checkmark\): Solution insertion point determined from trade study and risk planning

Proactive DMS process provides flexibility to align redesigns to planned block upgrades.

BOEING Roadmap Example

Integrity - Service - Excellence
US AWACS Approach

- E3 DMSMS strategy
  - approval part of OSS&E baseline
  - BOMS or
  - Contractual wording
Criteria for Requirements Approval: Do any or all parts involved in this configuration change require a market verification of lifetime parts availability, or DMS analysis?

Approval Criteria for Certification Approval: Was a market verification or DMS analysis completed and reviewed by the Focal Point? What were the results? Will all parts involved in the configuration change be available throughout the lifecycle of the E-3 fleet?
However, the transfer of the risk to the contractor for sustainment of a weapon system, may see an increase in Life Cycle Cost (LCC) at some point in the future, due to a reduction in long term competitiveness that this strategy encourages. Qantas’s decision to no longer serve as the RAAF Boeing 707 deeper maintenance contractor is a good example of a reduction in ADF capability, due to reliance on a single contractor, which no longer supported this effort as part of their overall business strategy.