Draft

AMMOS supports constellations of spacecraft (3)

Red - Technology infusion

(1)(2)(3)(4) Strategic Goal Addressed

[17-000XX] Implementation Task Number

Green - New Task Opportunity / Opportunity

for Collaboration

Cross cutting AMMOS security enhancements - full support for NASA Single Sign On (Launchpad) (3)

Automated activity plan generation - automatically build valid activity plans from a set of

AMMOS securely support mobile remote analysis and information gathering (1)(2)(3)

Cross cutting AMMOS security enhancements - Use of security services to protect command supply chain - Protect s/c commands

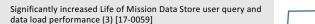
AMMOS deployments support fully distributed MOC (1)(2)(3)

Support mission needs for lights-out operations (1)(3)

constrained, prioritized activity requests (1) [18-001] *

on disk, and in transit (1)(4)

AMMOS Integrated Roadmap for Implementation & Technology



Increased supportability and maintainability of the Life Of Mission Data Store (1) [17-0062]

(4) Principled architectural approach to strengthen AMMOS System Integration

End Ph18

End FV19

End FV20

End FV17

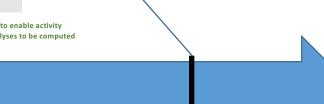
- Telemetry Processing System data base technology refreshed -Support for Big Data Technologies (1)(2)(4) [17-0066]
- Out of the box sequencing support for Small Sats (3)(4) [17-0016]
 - OPS 0211 DSN interface, replacing the DSN Keyword File (DKF), available in sequencing tools (3)[17-0079]
 - CCSDS SLE uplink and downlink support (2)(3) [DIR]
 - CCSDS CFDP uplink and downlink support (2)(3) [DIR]
 - Out of the box adaptable GDS (1)(3)
 - High performance queries [s/c data] enabling support for faster operational decisions (1)(2)(3) [17-0076]
 - Reduced complexity for mission adaptation reducing development and deployment cost (1)(4) [17-0076]
 - Open source Initiative Open source key AMMOS capabilities (3)
 - Expand support for earth orbiting missions (3)

End FY21

Enhanced common workflow services that enable automation of operations and software processes (1)(2) [17-0011]

- Simplify operational user interface (web configurable) Enable higher scalability and use of cloud
- Full ground system accountability reporting (1) [17-0072]
- Integrated GDS health and safety monitoring and capabilities enabling reduced staffing needs in operations (1) [17-0073]
- AMMOS system security improvements and infusion of Crypto, Key management & CAM (2)(4) [DIR]
- Where appropriate AMMOS software as a service (computational intensive tasks) - AMMOS software services deployable in cloud ready for operational support (1)(2)
 - Technology Infusion technologies and architectures to enable activity timing, model states, model resource values, and analyses to be computed incrementally and efficiently (1)(3) *

End FY25



End FV30

Spacecraft subsystem model integration framework (1)(3)(4)

End Fit 22