

OPERATIONALLY
ORS
RESPONSIVE SPACE



Operationally Responsive Space-2 1st End-to-End Demonstration of rapid assembly, integration, test, & operations

Mission Description

The ORS Office is fully invested in producing an ORS architecture that is redefining the space enterprise. The end state vision of the ORS Concept consists of reconfigurable, modular systems with standard interfaces that are interoperable with the existing ground systems architecture. The goal is to be able to develop, assemble, integrate, launch and operate “good enough” systems rapidly (less than one year for a new system). This concept will be demonstrated in the ORS-2, Tier-2 Enabler Mission.

Mission Goals

- Develop multi-mission bus architecture: Standards-based, modular, rapidly configurable
- Develop multi-mission payload architecture: Establish beginning of RF family of payloads (Radar, Communications, Tactical Electronic Support)
- Develop End-to-End modular satellite vehicle processing
- Demonstrate End-to-End architecture to include satellite system, ground systems architecture and innovative processes

Major Customers: **USPACOM, USSTRATCOM**

Partners:

Space Vehicle Bus: Northrop Grumman, Design Net Engineering, Applied Technologies Associates
Radar Payload: Sierra Nevada Corporation, Harris
Rapid Response Space Works: Millennium Engineering Incorporated

Major Milestones:

Modular Space Vehicle (MSV) Bus Preliminary Design (PDR): FY11
Rapid Response Space Works Stand Up: FY11
MSV Bus Critical Design Review: FY12
Modular Payload PDR: FY12

The ORS-2 Mission will:

- 1 Conceptualize and demonstrate a new business model for small satellites
- 2 Advance and provide incentive for enabling architectural standards
- 3 Open the trade space industry providers to contribute space capabilities
- 4 Define the framework and processes to rapidly deliver and rapidly deploy space capabilities to the warfighter

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