

O1.06: Security-Enhanced Autonomous Network Management for Space Networking

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Identification and Significance of Innovation

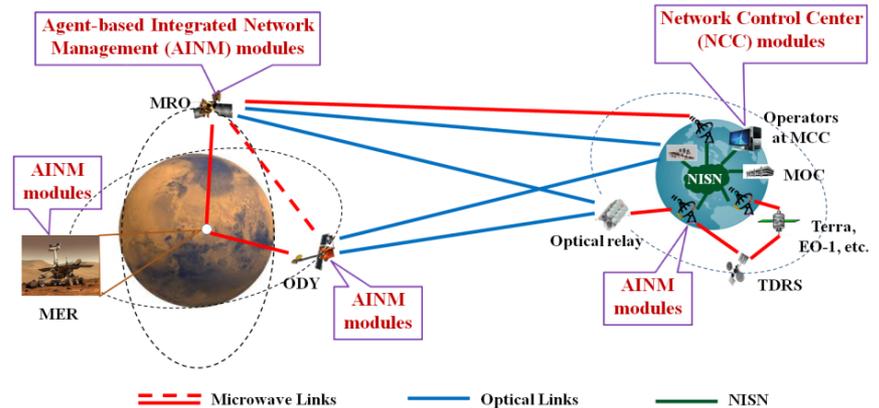
The proposed SEANM scheme provides an autonomous network management for space networking through an efficient cross-layer negotiation approach.

Expected TRL Range at the end of Contract (1-9): 1-3

Technical Objectives and Work Plan

Prototype a Security-Enhanced Autonomous Network Management system and Demonstrate Its Feasibility for Space Networking.

- Design and refine the SEANM architecture
- Investigate cross-layer information sharing and cross-layer interactions
- Customize the cross-layer reconfiguration mechanism
- Investigate and design security solutions
- Demonstrate feasibility of the prototype system



NASA and Non-NASA Applications

NASA: Space Communications and Navigation Program (SCaN)

Non-NASA: Airborne Networks, Joint Strike Fighter, Warfighter Information Network-Tactical (WIN-T), Joint Tactical Radio System (JTRS)

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