

# Scalable and Resilient **Red** Transport

*Powering Mission Success through Speed, Security, and Reliability*

**SOLUTIONS BRIEF**  
SBIR Phase III Contract

## What is SPARTAN?

The Space Awareness Resilient Tactical Area Network (SPARTAN) advances secure, scalable red transport for the U.S. Space Force, enhancing mission partner capabilities through integrated and resilient infrastructure. By closing critical capability gaps, SPARTAN drives rapid decision-making, enforces zero-trust security, and fosters collaboration to bolster U.S. defense readiness and ensure space domain superiority.

## Engineered Advantage

- **Eliminating Stovepipes**
  - Red transport of C2 data that seamlessly integrates with any system
- **Cloud Connectivity**
  - Multi-tenant, one-to-many AWS Direct Connect architecture supporting IL-6 workloads; a first for the USSF
- **Optimized Node Architecture**
  - Pre-built node sizes reduce costs and accelerate deployment while delivering the enhanced reliability of a proven, standardized design
- **Affordability**
  - No material markups plus low labor cost creates competitive pricing



Leverages multiple black transport providers

### Black Transport Neutral



Supports up to 200 Gbps aggregate throughput

### Fast and Efficient



Supports up to 99.999% uptime reliability

### Extremely Reliable



Azure, Google, and current connectivity into AWS IL-6

### Multi Cloud Connectivity

## Why SPARTAN?

SPARTAN unifies red transport requirements into a secure, cloud-integrated, and resilient Tactical Data Bus, delivering the speed and capacity needed for real-time, data-intensive operations that support modern Warfighter missions by closing kill webs.

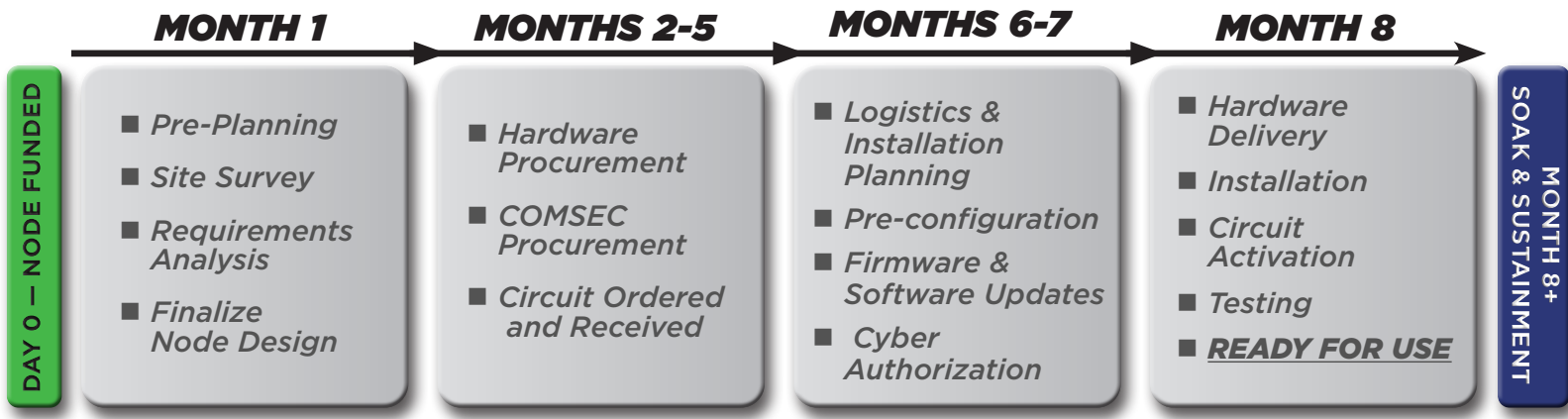
## Technical Benefits

- **Enables Legacy System Access**
  - SPARTAN Gateways enable SIPRNet users to access to USSF IL-6 Services
  - Provides mission partners with superior network transport - replaces SIPRNet as a transport service
- **Preserves Data Integrity**
  - Provides fast, affordable and reliable connectivity across CONUS and OCONUS locations to include conflict zones
- **Mission Partner Integration**
  - A SPARTAN edge node securely connects red-side sensors, Mission Partner networks, and Warfighters across the globe
  - Provides connectivity to C2 centers at Vandenberg SFB and NSF-Dahlgren
  - Securely transfers data between distinct collateral releasability enclaves
- **Delivery**
  - Expedited 8-month delivery of new nodes and 2-3 months for existing
- **Monitoring**
  - Dedicated Out-of-Band management enclave with a 24x7x365 NOSC

# Ready For Your Mission

- **Contract Vehicle** - Existing SBIR Phase III vehicle accepts MIPR or Form-9 funding for SPARTAN deployments – covering all CLINs and funding types
- **Low Friction** - Modular node kits give MPs a repeatable deployment playbook with documented acceptance criteria
- **Mission Fit** - Red transport with coalition partner options and hybrid cloud connectivity—aligned with Space C2 enterprise efforts
- **Quick Turnaround** - Obligation and award within 30 days of funds receipt
- **Trusted Experience** - Team members were integral to building USBICES 2.0 and meshONE-T
- **Budget Flexible** - Deferred labor funding available – procure materials now and add labor later as budgets allow, thus preserving scope without a contract rework
- **Contract Scope** - Covers procurement, installation, testing, cyber artifacts, CONUS/OCONUS support, NOSC, and all required technical data or CDRLs
- **Deliverables and Oversight Built-In** - Technical data, test procedures/reports, diagrams, manuals, and IMS/CDRLs ensure auditable spending
- **Accelerated Timeline** - Modular nodes and repeatable processes provide a shortened lead-time to operation

## Mission-Ready in Just 8 Months



### Aggregation Node

Supports the aggregation of services, applications, and data enabling the Warfighter to make critical decisions in near real-time.

- Supports up to 189 Gbps of Aggregate Throughput
- Provides High Availability Failover Between Firewalls
- Maximum Rack Footprint: 17RU

### Core Node

Provides backbone interconnectivity of the Aggregation nodes, cloud services, and network access points to distribute compute and mission services.

- Supports up to 20 Gbps of Aggregate Throughput
- Provides High Availability Failover Between Firewalls
- Maximum Rack Footprint: 9RU

### Edge Node

Provides first point of access for users, tactical platforms, and sensors, enabling secure and efficient connectivity to distributed compute and mission services.

- Supports up to 2 Gbps of Aggregate Throughput
- Optional HA Failover - With Additional Firewall
- Maximum Rack Footprint: 4RU

