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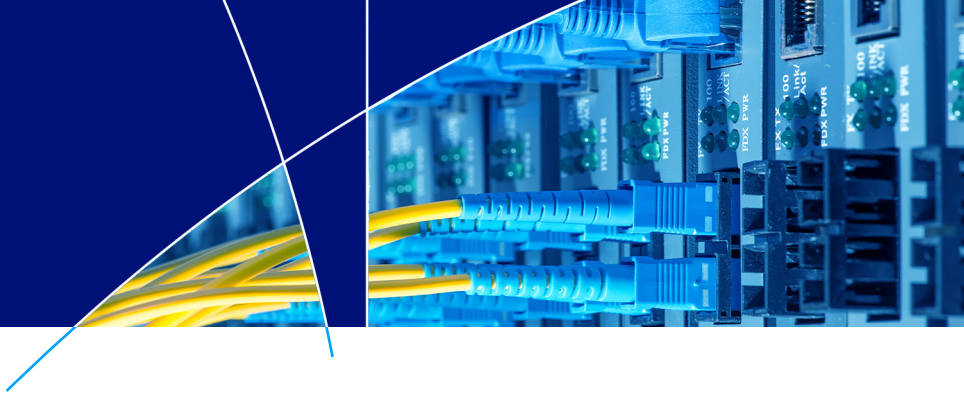

SOLUTION BRIEF

Mission Transport Architecture Workshop

NEXT-GEN BLACK CORE AND MISSION TRANSPORT ALIGNMENT

Workshop Overview

The Mission Transport Architecture Workshop is the foundational engagement for organizations modernizing mission transport. This workshop is designed to give Federal and DoW decision makers a clear, unbiased view of their current WAN, the gaps limiting mission assurance, and a structured roadmap to evolve toward a Next-Gen, mission-grade transport architecture.

Rather than jumping directly into design or implementation, this workshop establishes architectural clarity, stakeholder alignment, and a phased modernization plan that reduces risk while preserving operational continuity.

The Challenge We Address

Most Federal WAN environments have evolved organically across decades. MPLS, SD-WAN, private fiber, SATCOM, cloud connectivity, and tactical transport often operate as loosely coupled silos. This creates challenges such as:

- Limited deterministic performance for mission-critical traffic
- Complex integration between enterprise, cloud, coalition, and tactical networks
- Reduced survivability in contested or degraded environments
- No clear transition path beyond legacy MPLS cores
- Without a clear architectural baseline and roadmap, modernization efforts stall or increase operational risk.

Workshop Objectives

This workshop enables organizations to:

Establish a shared understanding of current WAN architecture and transport dependencies

Identify mission and application traffic that requires deterministic routing and assurance

Assess readiness for SRv6-based, transport-agnostic architectures

Define a phased modernization roadmap aligned to mission priorities and funding cycles

What Makes This Workshop Different

This is not a generic SD-WAN review. BlueAlly's workshop is purpose-built for mission environments where survivability, segmentation, and deterministic transport matter.

Key differentiators include:

- Focus on mission transport outcomes, not vendor features
- Integration of SD-WAN, SRv6, legacy MPLS, private fiber, and tactical links into a single fabric
- Emphasis on contested and disconnected operations
- Alignment with Zero Trust, enclave segmentation, and cross-domain requirements

Workshop Scope and Structure

1

Current-State WAN Architecture Assessment

- Review existing MPLS, SD-WAN, private transport, SATCOM, and edge connectivity
- Identify architectural fragmentation and operational bottlenecks
- Assess performance, resiliency, segmentation, and security constraints
- Document dependencies across enterprise, cloud, and tactical domains

Outcome: A clear, objective view of today's WAN and its limitations.

2

Mission and Application Transport Requirements

- Identify mission-critical applications such as C2, ISR, and data movement workflows
- Define performance, latency, resiliency, and segmentation requirements
- Align transport requirements to operational and threat conditions

Outcome: A prioritized set of mission transport requirements that guide modernization.

3

Gap Analysis and Risk Identification

- Compare current capabilities against mission transport requirements
- Identify gaps in deterministic routing, survivability, and policy enforcement
- Highlight operational and security risks tied to legacy architectures

Outcome: A practical, risk-based view of what must change and why.

4

Transport Modernization Roadmap

- Define a phased transition strategy beyond legacy MPLS cores
- Identify near-term improvements and pilot opportunities
- Align modernization phases to mission timelines and budget realities

Outcome: A clear, executive-ready WAN modernization roadmap.

Key Deliverables

- Current-state WAN architecture assessment
- Mission transport requirements summary
- Gap and risk analysis
- Phased transport modernization roadmap
- Executive briefing for leadership alignment

Who Should Attend

- Network and transport architects
- Mission system owners
- Security and Zero Trust leaders
- Cloud and platform teams
- Program and portfolio decision makers

What Comes Next

Follow-On Services and Solutions Roadmap

The workshop establishes the foundation. From there, organizations can move forward with targeted, lower-risk implementation phases aligned to mission priorities.

Phase 1: Next-Gen Black Core Design and Implementation

Architect and deploy SRv6-enabled core networks that provide deterministic routing, segmentation, and traffic engineering across all transports.

Value:

- Transport-agnostic routing across MPLS, fiber, SATCOM, and mobile links
- Deterministic behavior for mission-critical traffic
- Scalable foundation for future operations

Phase 2: Hybrid SD-WAN and Edge Integration

Integrate SD-WAN edges with SRv6 cores and legacy MPLS to ensure seamless site onboarding and secure application access.

Value:

- Preserve SD-WAN investments while modernizing the core
- Simplify site connectivity across enterprise and tactical locations
- Improve application access consistency

Phase 3: Secure Cloud, Enclave, and Tactical Edge Connectivity

Enable trusted connectivity across IL4, IL5, and IL6 clouds, coalition networks, and forward-deployed platforms using policy-based routing and Zero Trust controls.

Value:

- Secure cross-domain connectivity
- Consistent policy enforcement across environments
- Support for coalition and mission partner environments

Phase 4: Transport Performance Optimization and Mission Assurance

Implement application-aware routing, QoS, path steering, and automated failover to ensure priority mission traffic delivery.

Value:

- Improved mission application performance
- Increased resiliency under degraded conditions
- Reduced operational disruption

Phase 5: Automation, Telemetry, and Closed-Loop Operations

Integrate network automation and streaming telemetry to improve resilience, accelerate recovery, and enable intent-driven transport operations.

Value:

- Faster fault detection and recovery
- Reduced manual intervention
- Foundation for AI-driven transport operations

Why This Approach Works

By starting with a focused Mission Transport Architecture Workshop, organizations avoid premature design decisions, reduce risk, and create a modernization path that aligns technology with mission outcomes.

This approach ensures every follow-on investment builds logically on a validated architectural foundation.

Why BlueAlly

BlueAlly brings deep experience designing and delivering secure, resilient WAN architectures for mission-critical environments. Our approach cuts through complexity and focuses on what matters most: assured transport for mission success across enterprise, cloud, and tactical domains.

Getting Started

The Mission Transport Architecture Workshop is typically delivered as a short, high-impact engagement designed to accelerate informed decision making.

To initiate the workshop or discuss next steps, connect with the BlueAlly team at blueally.com/contact. . Visit **blueally.com/contact** to connect with our team.