

Implementing Cost-Effective Mission Critical Networks (MCN)

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Harris Overview





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SECURE COMMUNICATIONS NETWORKS MISSION-CRITICAL SITUATIONAL AWARENESS

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Overview

Mission Critical Communications and Information Solutions

Provide mission critical, assured communication products, systems, networks and services to meet our customers' mission critical requirements through design, development, integration, and installation.

Critical communication systems

Network infrastructure weather systems

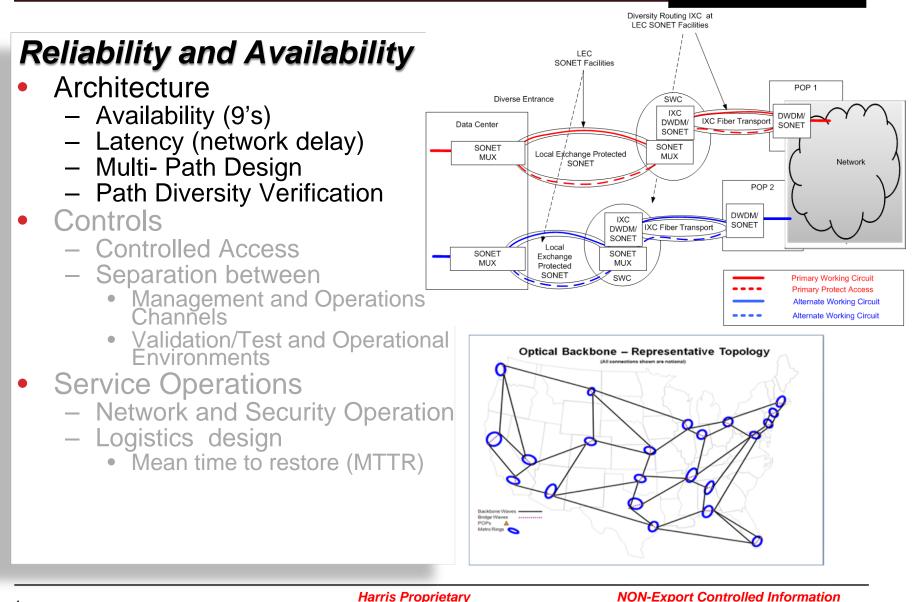
Secure enterprise network services

Situational awareness systems

Air traffic control

Mission Critical Network Considerations





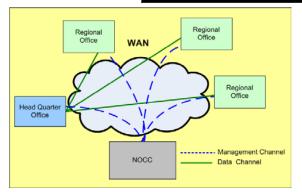


Reliability and Availability

- Architecture
 - Availability (9's)
 - Latency (network delay)
 - Multi- Path Design
 - Path Diversity Verification

Controls

- Controlled Access
- Separation between
 - Management and Operations Channels
 - Validation/Test and Operational Environments
- Service Operations
 - Network and Security Operation
 - Logistics design
 - Mean time to restore (MTTR)









Reliability and Availability

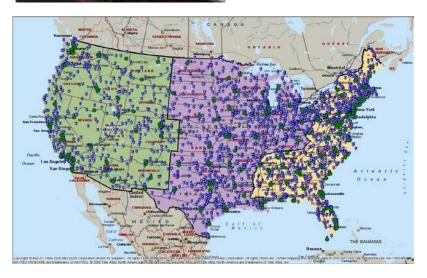
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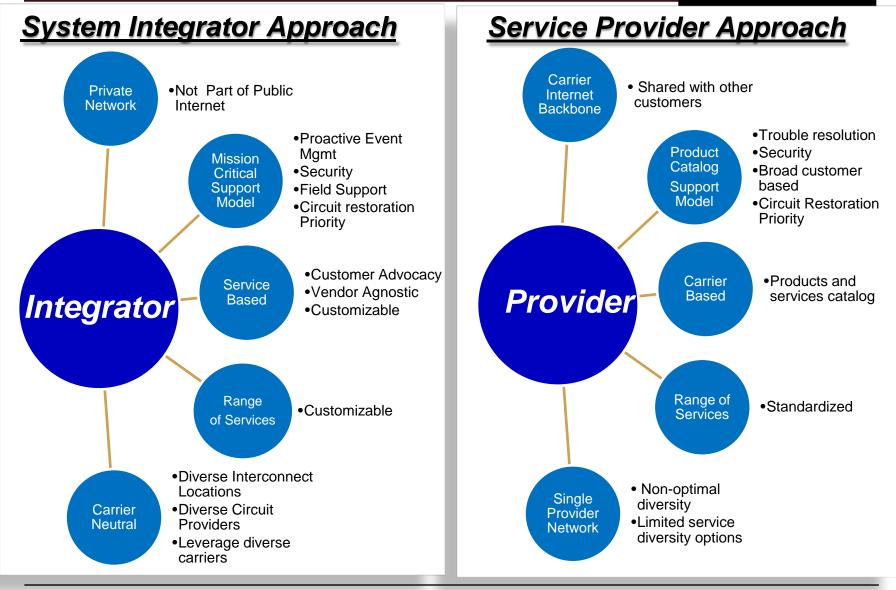


Security Continuum

Low		RISK Continuum	High
Architecture Choices	Private Network (Total Control)	Managed System Risk Mitigation (Some Control)	Public Network (SLA dependent)
Depth of Monitoring Capability	Total Situational Awareness	Deep Visibility Some sub-component blindspots	Significant Reliance on Service Provider for Visibility
Variability of Infrastructure	Purpose built system Known Traffic Behaviors	"Multi-Tenant" variability Constant Grooming Required	

Mission Critical Network Considerations





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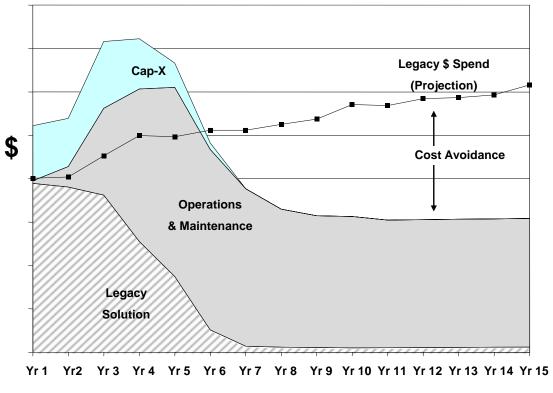
Total Cost of Ownership

- Customer procured networks result in significant investment of capital and staff
- Managed Services allow the Customer to focus on their Core Business

	Make/Buy Options	
Total Cost of Ownership (TCO) Considerations	Customer Procured	Managed Service
Dispatch/Break/Fix	Technical Staffing Cost	Managed Service Fee
Technical Refresh	CapEx OH Allocation	Fixed Monthly Recurring Cost
Moves/Adds/Changes	Technical Staffing Cost	Fixed Price
Tools, Software to maintain Network	CapEx OH Allocation	Function of Service Fee
Provider Relationship	Program Management Cost	Program Management Cost
Telco Circuit Provisioning	Achieve Best Value	Achieve Best Value
Customer Focus	Network & Core Business	Core Business



Cost vs. Performance



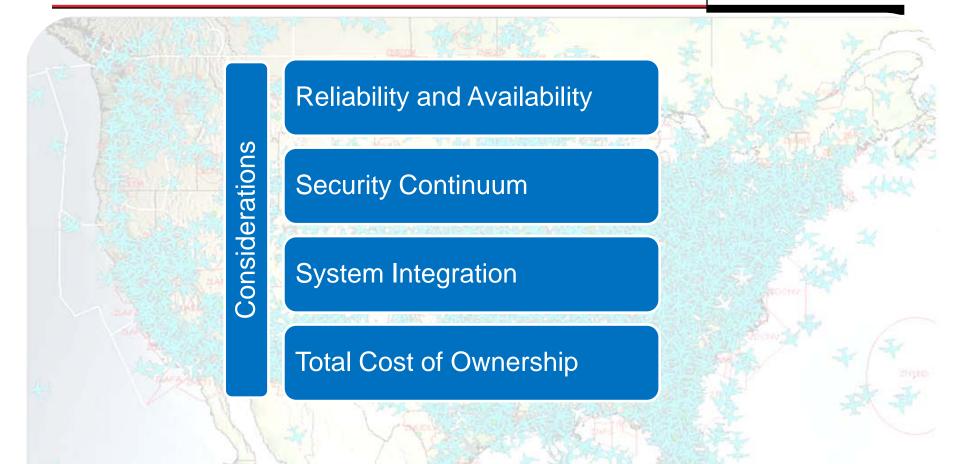
Cost Effectiveness



Contract Period

Summary





A carefully engineered, optimized, and managed mission critical network architecture can be cost-effectively implemented