



U.S. General Services Administration

Federal Acquisition Service GSA Networx Program Update

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Agenda

- Program History/Program Schedule
- Developing the Network Program Architecture
- Network Universal and Enterprise
- Network SLAs and Critical Levels of Service
- Network Services
- Network Pricing Structure
- Summary

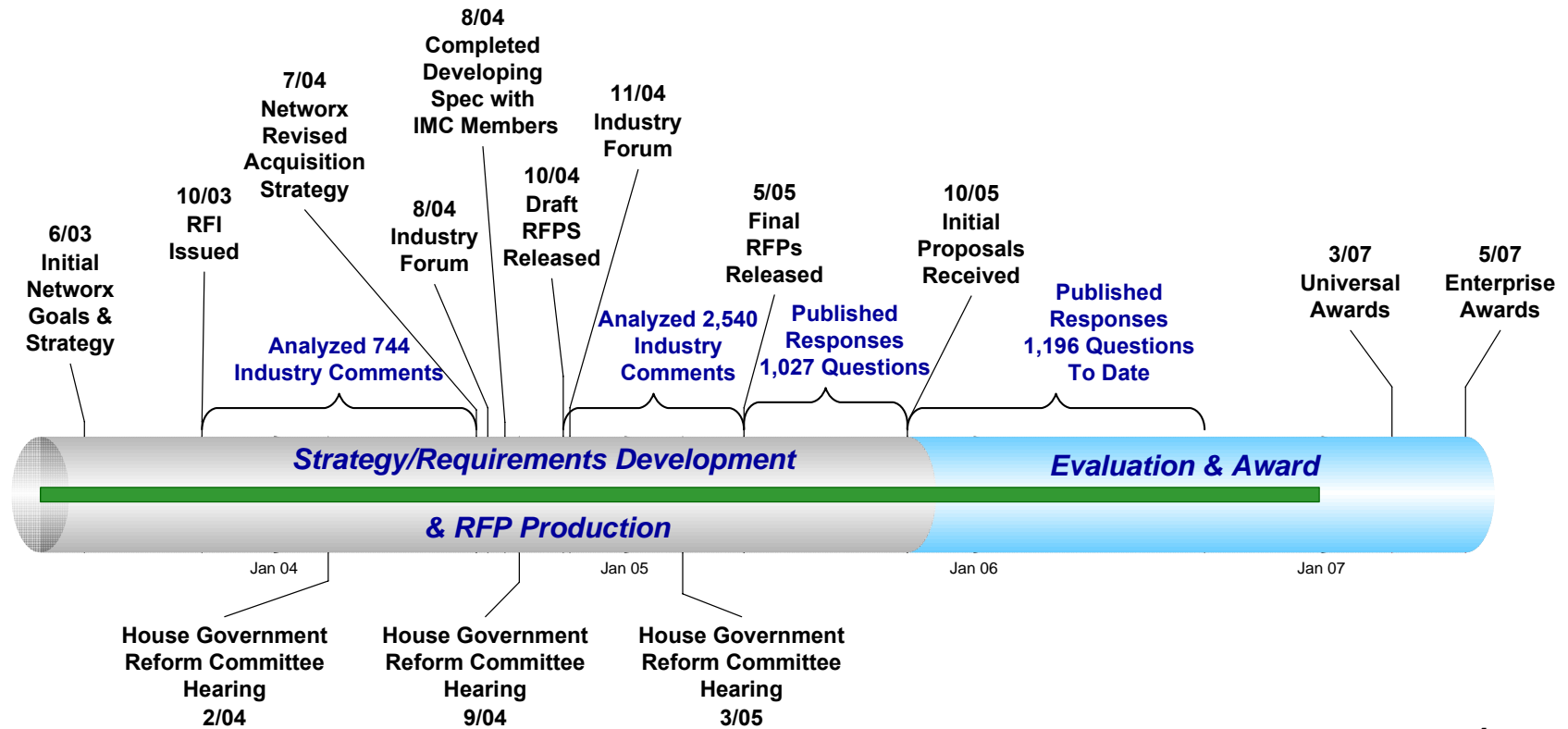


Networx – Program History

- Networx is the third in a series of major competitive telecommunications programs
- FTS 2001 provides eight-year pricing that has saved over \$3 billion to date
- Networx projected revenue - \$20 billion over 10 years

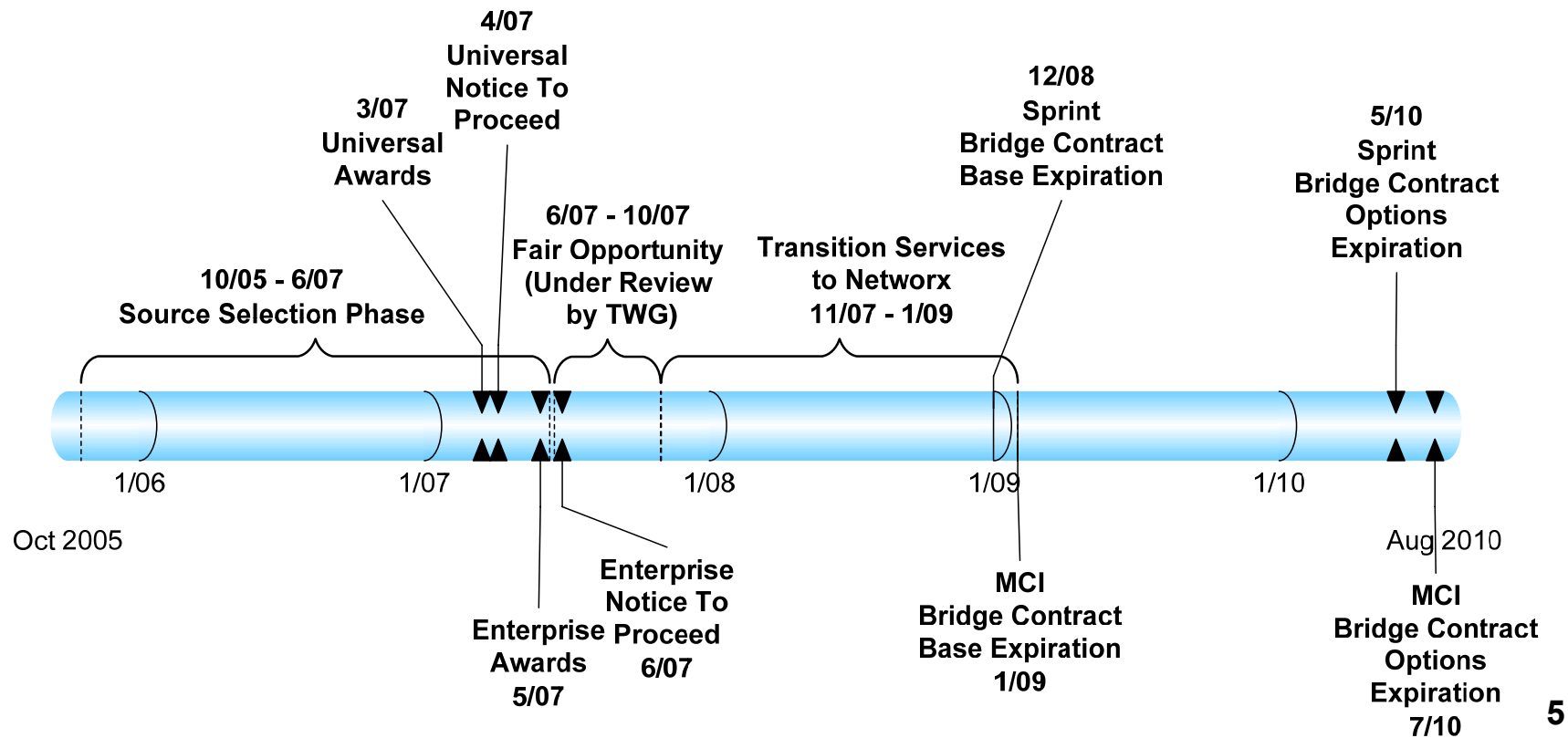
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Networx – The Acquisition Cycle



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Networx – The Program Plan After Award



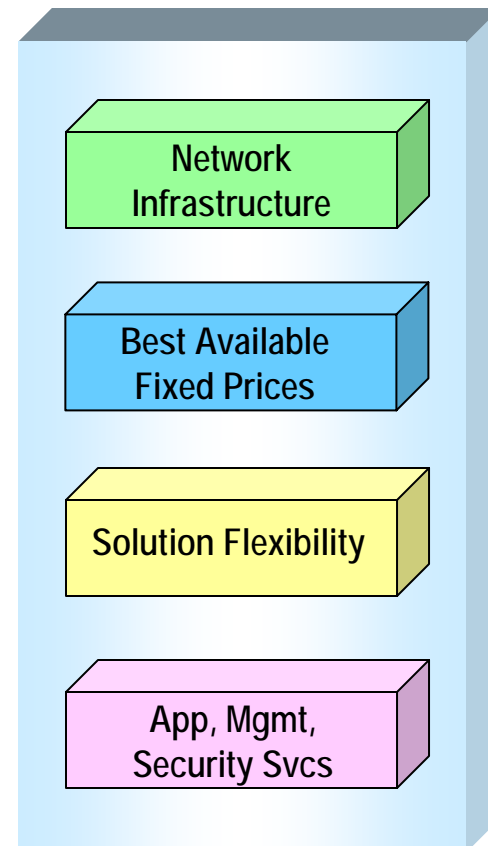


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Networx – Supporting the Transformation of Government

- Voice, IP, wireless, satellite, optical connectivity services
- IP-centric application services (hosting, content management, teleworking, etc.)
- Embedded security with flexibility to meet range of needs
- Built-in compliance with policy mandates
- Performance-based services and operations
- Built in technology refreshment

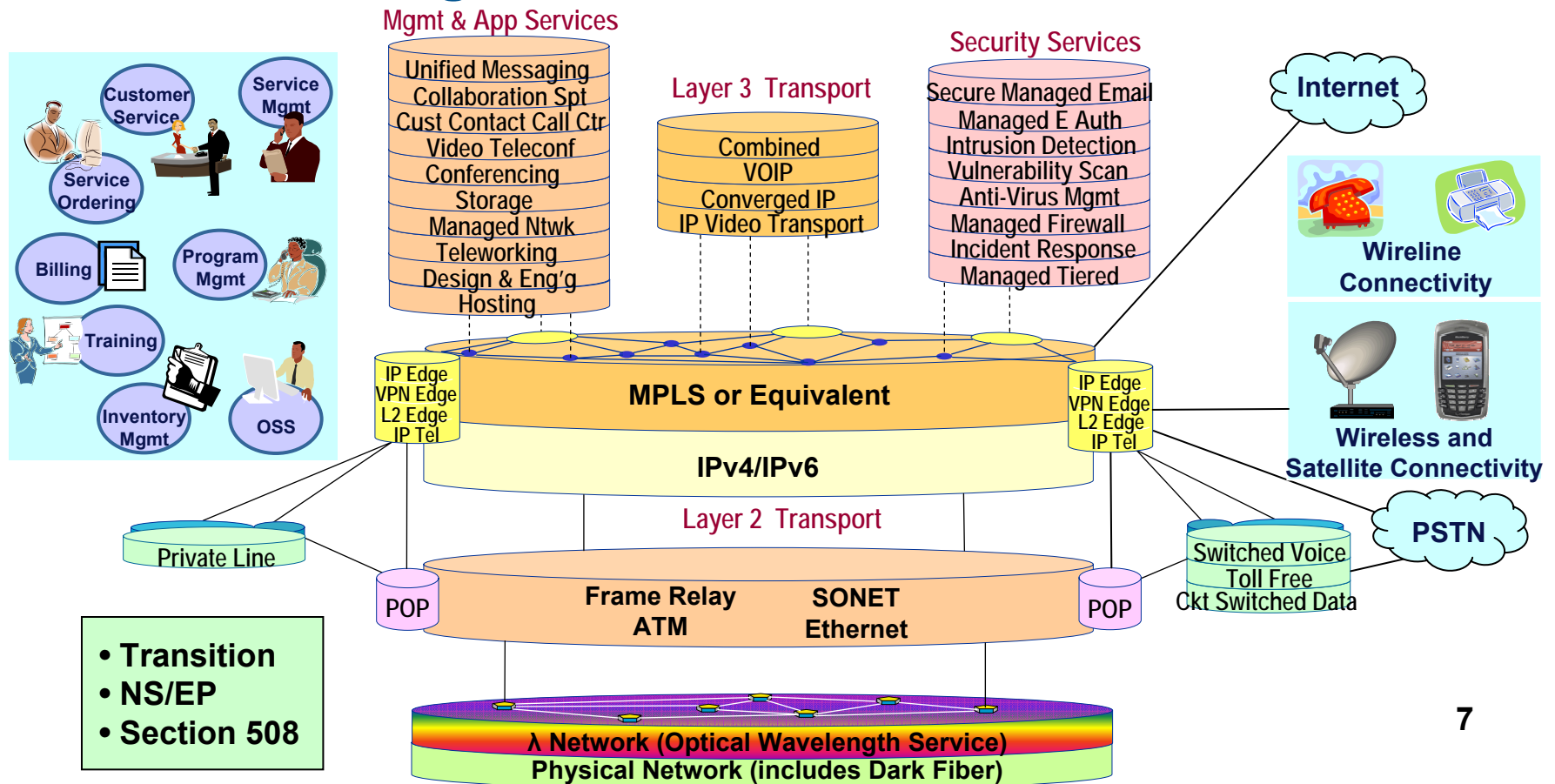
Seamless, Secure, Interoperable





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Network – Program Architecture





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Networx – Universal

Telecommunications Services

Communications Transport

- Voice
- Circuit Switched Data
- Toll-Free
- Combined
- Private Line
- Frame Relay
- Asynchronous Transfer Mode

- Ethernet

IP-Based

- Premises-Based IP VPN
- Network-Based IP VPN
- Voice over IP Transport
- Content Delivery Network
- Converged IP
- IP Telephony
- Internet Protocol

- Layer 2 VPN

- IP Video Transport

Optical

- Synchronous Optical Network
- Optical Wavelength
- Dark Fiber

Management & Application Services

- Video Teleconferencing
- Managed Network
- Audio Conferencing
- Teleworking Solutions
- Call Center/Customer Contact Center
- Web Conferencing
- Dedicated Hosting
- Collocated Hosting
- Storage
- Customer Specific Design and Engineering
- Unified Messaging
- Collaboration Support
- Internet Facsimile

Access Services

- None

Security Services

- Managed Firewall
- Intrusion Detection and Prevention
- Managed E-Authentication
- Vulnerability Scanning
- Anti-Virus Management
- Incident Response
- Secure Managed Email
- Managed Tiered Security

Special Services

- Land Mobile Radio
- Mobile Satellite
- Fixed Satellite

Wireless Services

- Cellular/PCS
- Multimode Wireless
- Cellular Digital Packet Data
- Paging

Note: Services in green are optional.

- Full range of services
- National and international coverage
- Strong competition for best prices
- Ensures continuity of current service
- Length: 4-year base with 3ea 2-year options
- Multiple awards
- MRG - \$525M



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Networx – Enterprise (IP-Based)

<p><u>Telecommunications Services</u></p> <p>Communications Transport</p> <ul style="list-style-type: none">- Voice- Circuit Switched Data- Toll-Free- Combined- Private Line- Frame Relay- Asynchronous Transfer Mode- Ethernet <p>IP-Based</p> <ul style="list-style-type: none">- Network-Based IP VPN- Voice over IP Transport- Internet Protocol- Premises-Based IP VPN- Content Delivery Network- Converged IP- IP Telephony- IP Video Transport- Layer 2 VPN <p>Optical</p> <ul style="list-style-type: none">- Synchronous Optical Network- Optical Wavelength- Dark Fiber	<p><u>Management & Application Services</u></p> <ul style="list-style-type: none">- Customer Specific Design and Engineering- Managed Network- Audio Conferencing- Teleworking Solutions- Call Center/Customer Contact Center- Web Conferencing- Dedicated Hosting- Collocated Hosting- Storage- Video Teleconferencing- Unified Messaging- Collaboration Support- Internet Facsimile <p><u>Access Services</u></p> <ul style="list-style-type: none">- Wireline Access- Broadband Access- Wireless Access- Satellite Access	<p><u>Security Services</u></p> <ul style="list-style-type: none">- Managed Firewall- Intrusion Detection and Prevention- Managed Tiered Security- Anti-Virus Management- Managed E-Authentication- Vulnerability Scanning- Incident Response- Secure Managed Email <p><u>Special Services</u></p> <ul style="list-style-type: none">- Land Mobile Radio <p><u>Wireless Services</u></p> <ul style="list-style-type: none">- Cellular/PCS- Multimode Wireless- Cellular Digital Packet Data- Paging
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Note: Services in green are optional.

- **Minimum requirement: must offer either 9 mandatory services for secure, IP, and managed network solutions**
- **May offer wide range of optional services**
- **National coverage required; international coverage optional**
- **Length: 4-year base with 3ea 2-year options**
- **Multiple awards**
- **MRG - \$50M**



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Networkx – Universal and Enterprise SLAs

Telecommunications Services

Communications Transport

- Voice
- Circuit Switched Data
- Toll-Free
- Combined
- Private Line
- Frame Relay
- Asynchronous Transfer Mode
- Ethernet

IP-Based

- Premises-Based IP VPN
- Network-Based IP VPN
- Voice over IP Transport
- IP Telephony
- Internet Protocol

Optical

- Synchronous Optical Network
- Optical Wavelength

KPIs
Av (SDP-to-SDP)
Av (POP-to-POP)
TTR

KPIs
Av (VPN)
Latency (CONUS)
Latency (OCONUS)
TTR

Credits
Av (SDP-to-SDP)
TTR
Service Outage
On-Time Provisioning
Billing Accuracy

Credits
Av (VPN)
Latency (CONUS)
TTR
Service Outage
On-Time Provisioning
Billing Accuracy

Management & Applications Services – Dedicated Hosting

Access Services – Wireline Access (Enterprise Only)

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Network – Critical Service Levels

Telecommunications Services

Communications Transport

- Voice
- Circuit Switched Data
- Toll-Free
- Combined
- Private Line
- Frame Relay
- Asynchronous Transfer Mode
- Ethernet

KPIs
Av (SDP-to-SDP)
Acceptable Quality Level
 Routine: >99.5%

IP-Based

- Premises-Based IP VPN
- Network-Based IP VPN
- Voice over IP Transport
- IP Telephony
- Internet Protocol

KPIs
Av (SDP-to-SDP)
Acceptable Quality Level
 Critical: >99.95%

Optical

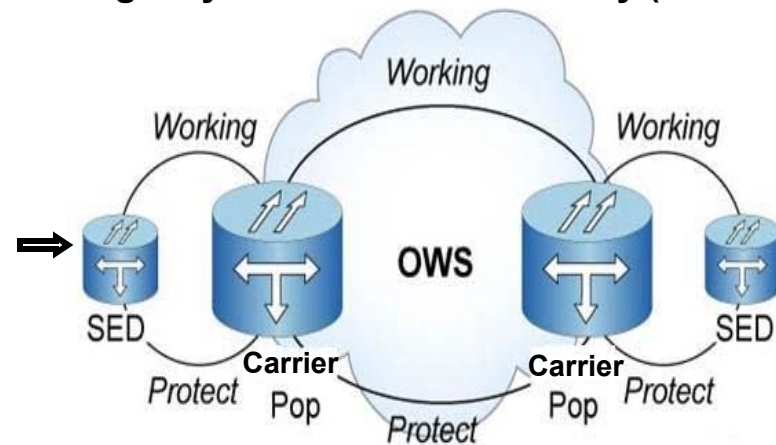
- Synchronous Optical Network
- Optical Wavelength

Management & Applications Services

- Call Center
- Storage Services

Configuration to Support Critical Availability

- Primary working waves will supply routine availability (99.5%).
- Redundant waves SDP-to-SDP provide Agency with critical availability (99.95%).



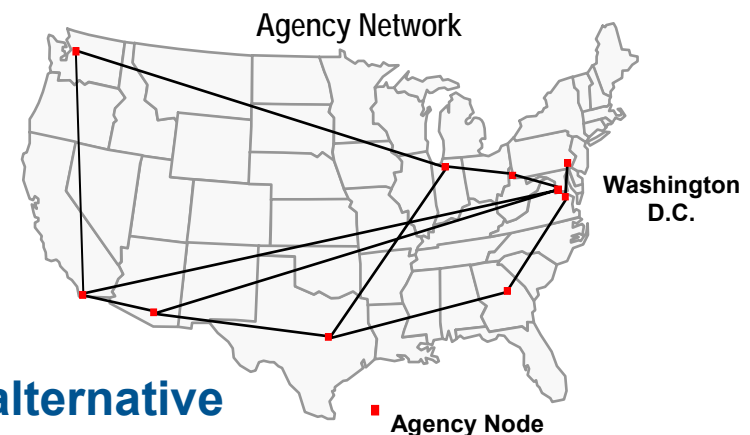
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Network – Managed Network Services**➤ Comprehensive network management solutions****• Design and Engineering Services**

- Network architecture design
- Network design validation
- Simulation and testing
- Engineering Support
- Evaluation of network technology alternative

• Implementation, Management and Maintenance

- Real-time proactive network monitoring
- Troubleshooting and Service Restoration
- Configuration changes and Backups





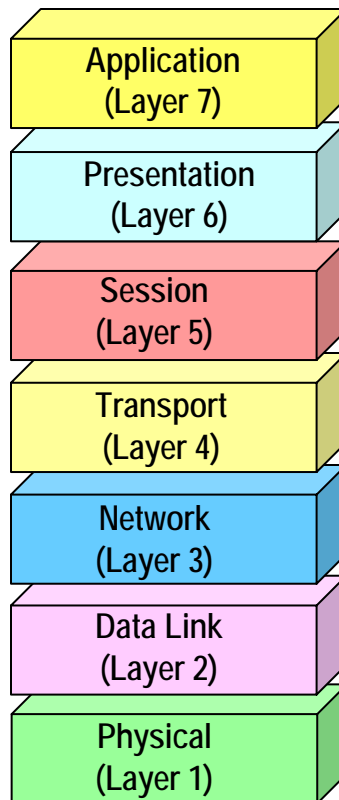
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Networkx – Security: Services for Defense in Depth

Network Protection Requirements

- Boundary Protection
- Authentication
- Authorization
- Confidentiality/Encryption
- Message Integrity
- Access Control
- Availability
- Nonrepudiation
- Malicious Code Filtering
- Audit & Monitoring
- Config Mgmt & Assurance
- Access diversity

Requirements



ISO/IEC 7498

Solutions

Networkx Services

- Managed Tiered Security Service
- Managed E-Authentication
- Vulnerability Scanning
- Incident Response
- Secure Managed Email
- Intrusion Detection and Prevention
- Managed Firewall
- Anti-Virus Management
- Network-Based IP VPN
- Premises-Based IP VPN
- Layer 2 VPN

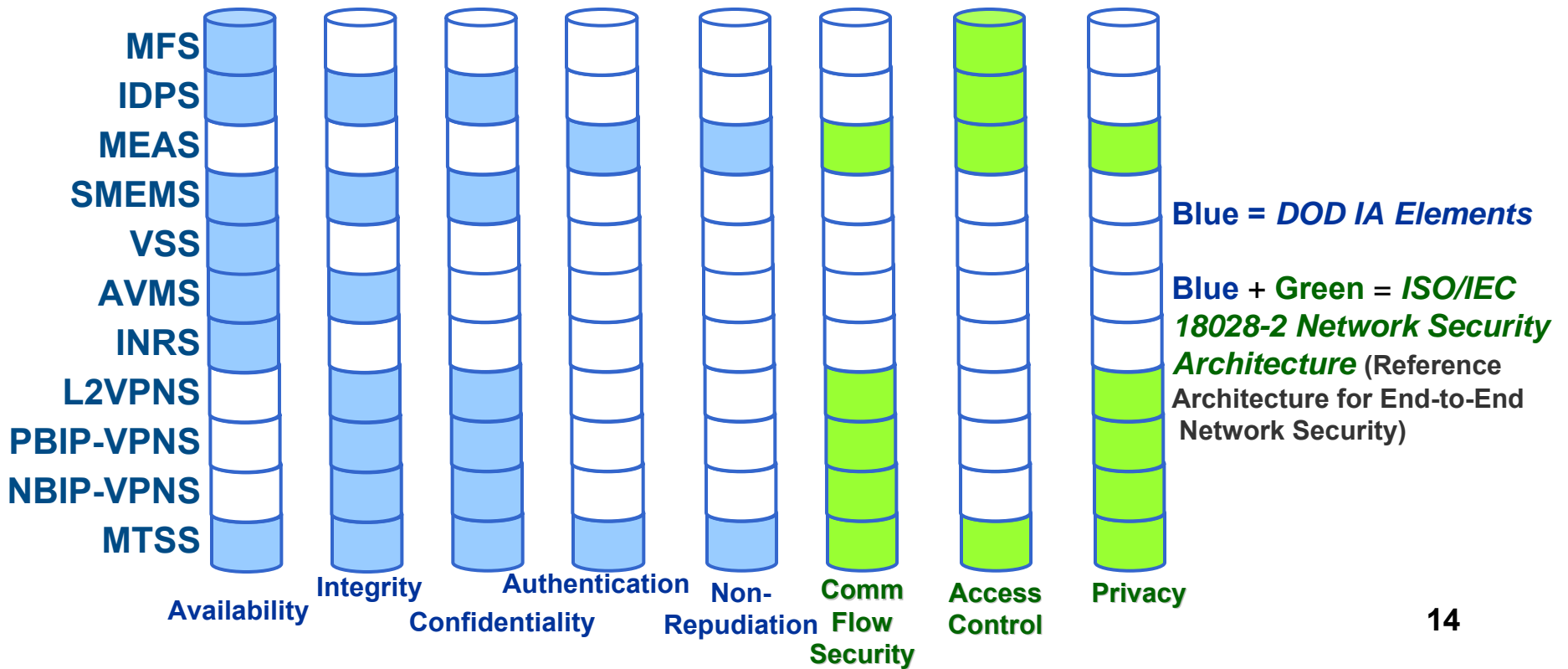
VPN Cluster



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Networx – Security Services Meet ISO/DoD Guidelines

← *Spanning ISO Security Dimensions* →





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Networx – A Toolbox for Agency Network Security that complies with FISMA

Networx Security:

13 Required Steps for Each Offeror (RFP Section C.3.3.2)

- Security Plan
- Risk Analysis
- Risk Mitigation
- Information Security
- Information Assurance
- Security Breach Notification
- Alarms and Audit Trails
- Personnel Security
- Physical Security
- Procedural Security
- Ongoing Security Refreshment
- Non Domestic Services
- Fraud Prevention Management



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Networx – Managed Tiered Security Service

<i>Security Enhancement Services</i>	<i>MTSP Service Tiers</i>			
	Standard	Protected	High Assurance	Network High
Agency Dedicated Help Desk	✓	✓	✓	✓
Anti-virus		✓	✓	✓
Firewall		✓	✓	✓
Intrusion Detection/Prevention		✓	✓	✓
Incident Response		✓	✓	✓
Packet Filtering		✓	✓	✓
Premises-based VPN		✓	✓	✓
Secure Managed Email		✓	✓	✓
Security Certification Support		✓	✓	✓
Security Maintenance		✓	✓	✓
Vulnerability Scanning		✓	✓	✓
Proxy Server		✓	✓	
Agency Sponsored Type 1 Encryption			✓	✓
NSA Approved Multilevel Security Solution			✓	✓
Network Isolation (Air Gap)				✓

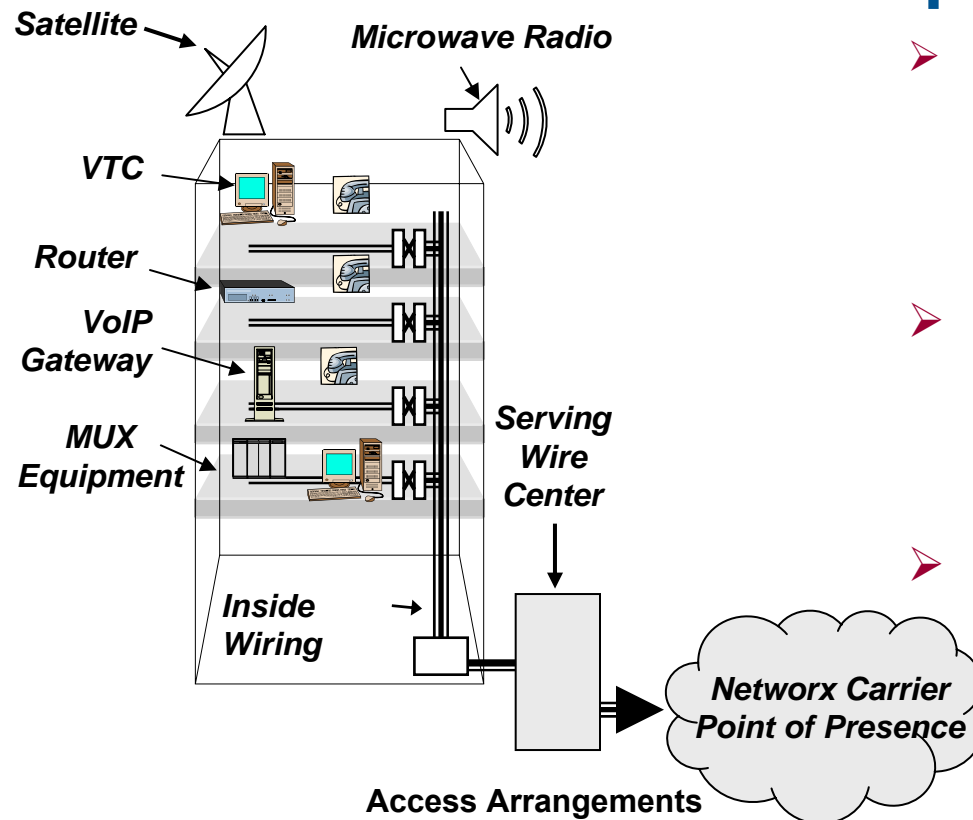


Networx – Network Service Monitoring and Management

- NMM provides real-time performance information related to the health of Agency services.
- NMM includes real-time updates on the status of Trouble Resolution efforts.
- Contractor can provide KPI information for Agency services or provide Agencies with the capability to conduct own KPI measurements.
- Contractor shall provide additional hardware/software or other means of access to provide this capability.

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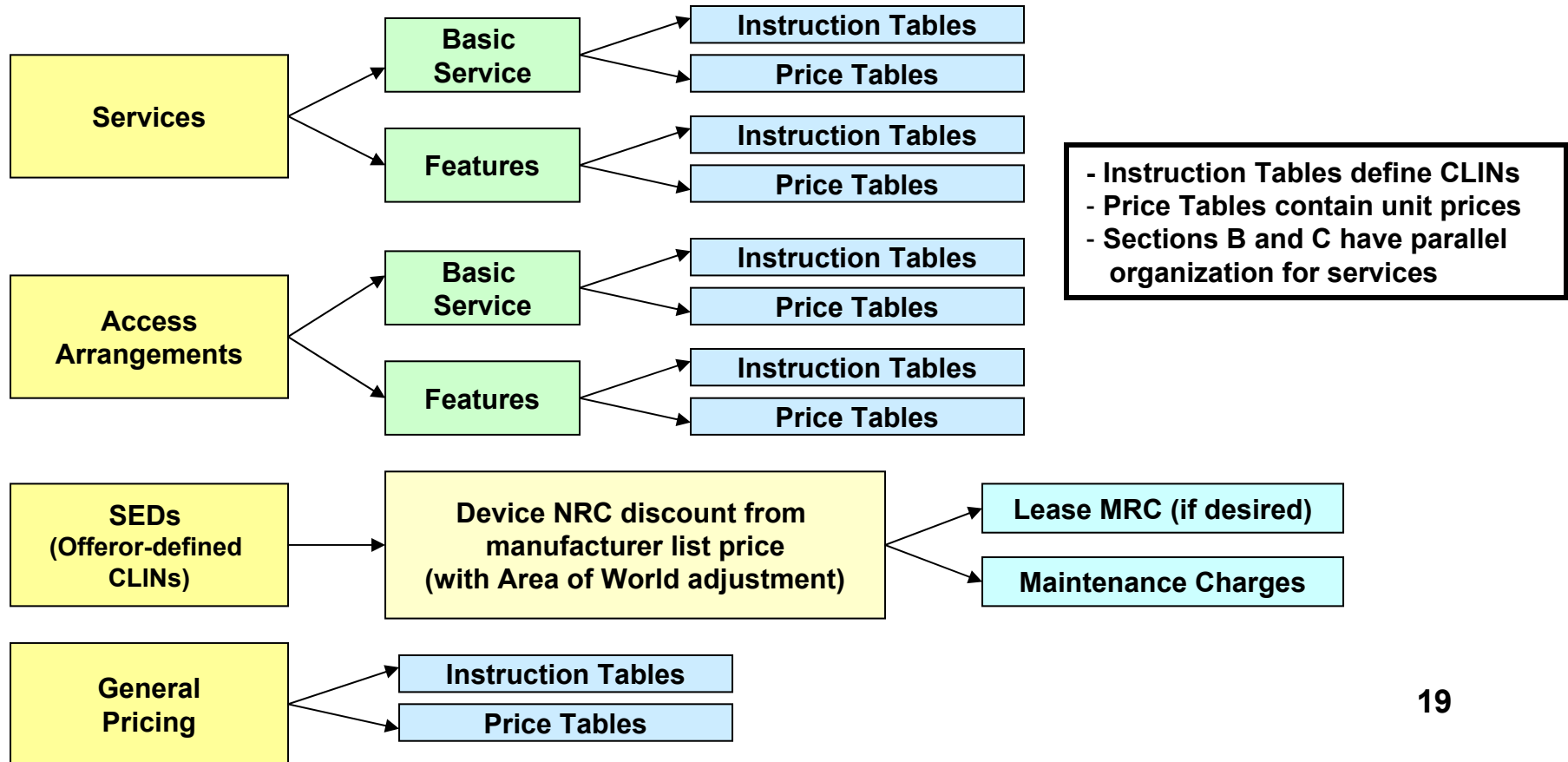
Networkx – SEDs Enable Optimum Service Delivery



- **Clear visibility into prices and costs**
 - Separate device, installation, and maintenance prices
 - Device prices are fixed, based on discounts from MSRP
- **Broad and flexible scope**
 - Includes routers, mux, cellphones, IP phones, security devices, applications, i.e., devices needed for service delivery (hardware & software)
- **Flexible options for agency customers**
 - One-time rental charge or fixed term monthly payments
 - Mechanism for users to assume ownership and continue contract maintenance

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Network – General RFP Structure for Price

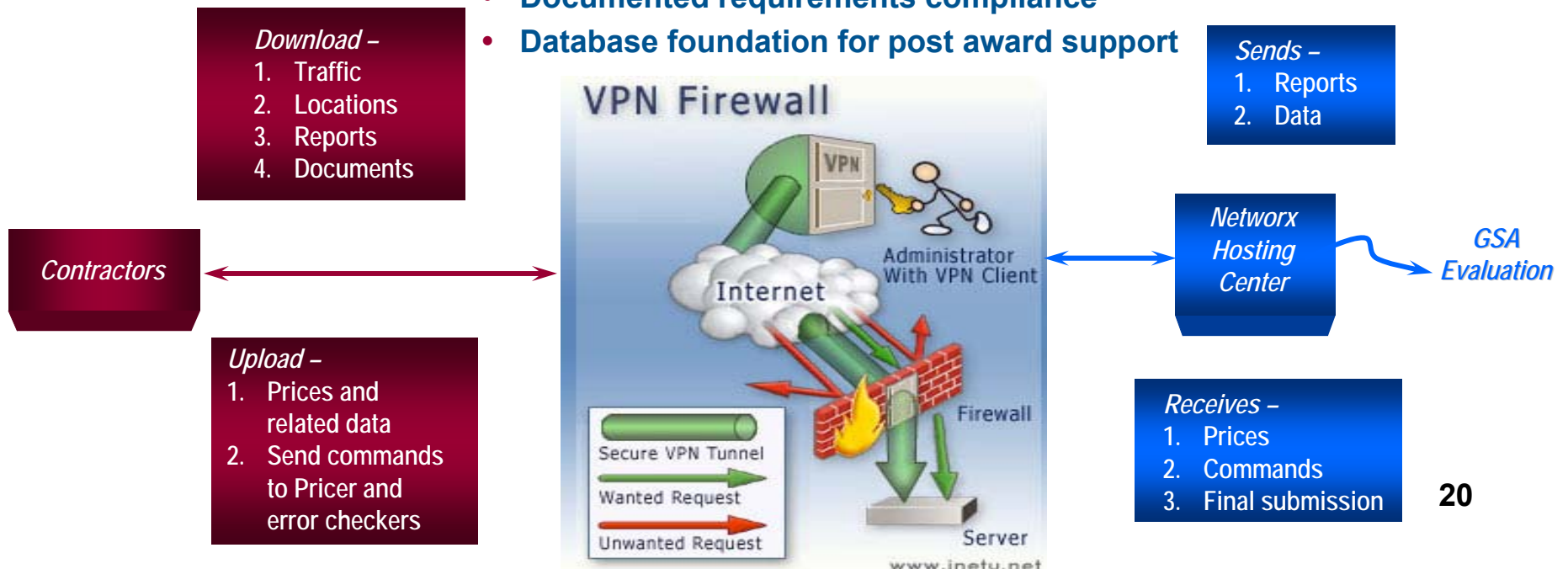


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Networx – Web Based

➤ State of practice web based, fixed price evaluation

- Evaluate over 1.3 million price records worldwide using projected agency traffic
- Documented requirements compliance
- Database foundation for post award support



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Networkx – RFP Online Availability

- The Networkx RFPs as amended are accessible online at: www.gsa.gov/networkx
- Additional data may be obtained, to include:
 - Networkx FAQ
 - Amendments
 - Networkx Hosting Center
 - RFP Question and Answers
 - Networkx Document Library

Access GSA Networkx website: www.gsa.gov/networkx ①

Select Networkx RFPs & Amendments ②

Doc ID	Name	Format	Size	Publish Date
FTS	Networkx Universal RFP	Other	985K	
FTS	Networkx Universal RFP Amendment 0011	PDF	219K	6/22/2005
FTS	Networkx Universal RFP Amendment 0012	Other	817K	
FTS	Networkx Enterprise RFP	Other		
FTS	Networkx Enterprise RFP Amendment 0011	Other		
FTS	Networkx Enterprise RFP Amendment 0012	Other		
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FTS	Networkx Enterprise RFP Amendment 0028	Other		
FTS	Networkx Enterprise RFP Amendment 0029	Other		
FTS	Networkx Enterprise RFP Amendment 0030	Other		

Select appropriate document ③ (i.e., RFP, section, amendment, etc.)

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Networkx – Summary

