



GSA FTS and NITRD: Collaboration Opportunities

**GSA Federal Technology Service
Office of Service Development and Delivery**

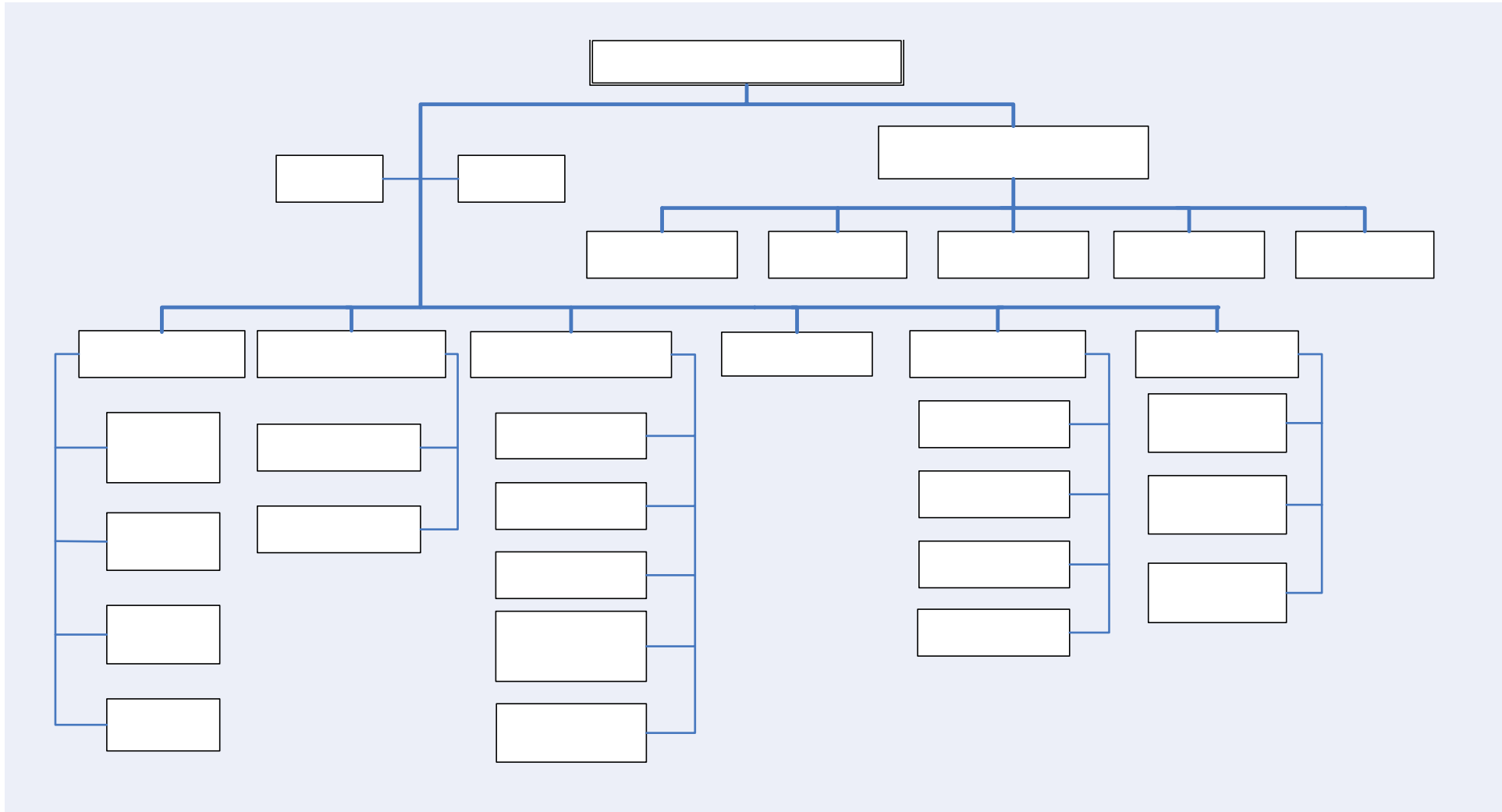
Assistant Commissioner John C. Johnson

May 2005

Office of Service Development



FTS Office of Service Development and Delivery Organizational Structure



Office of Service Development

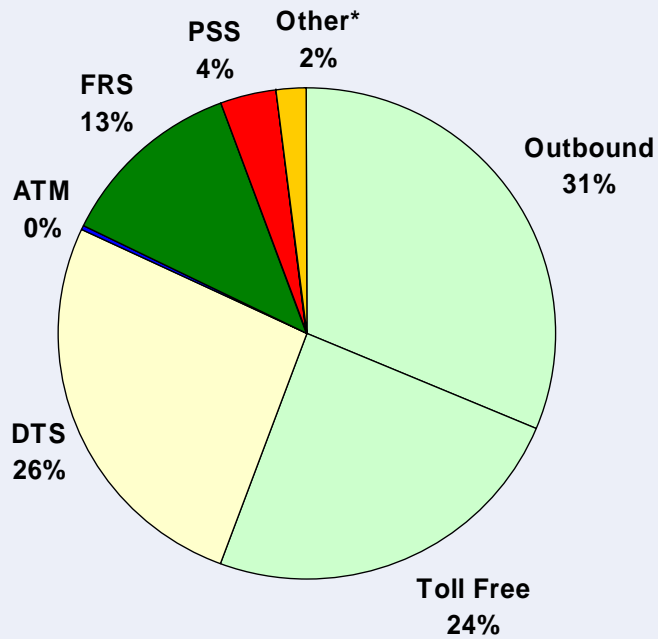


GSA FTS Programs: Life Cycle Telecommunications

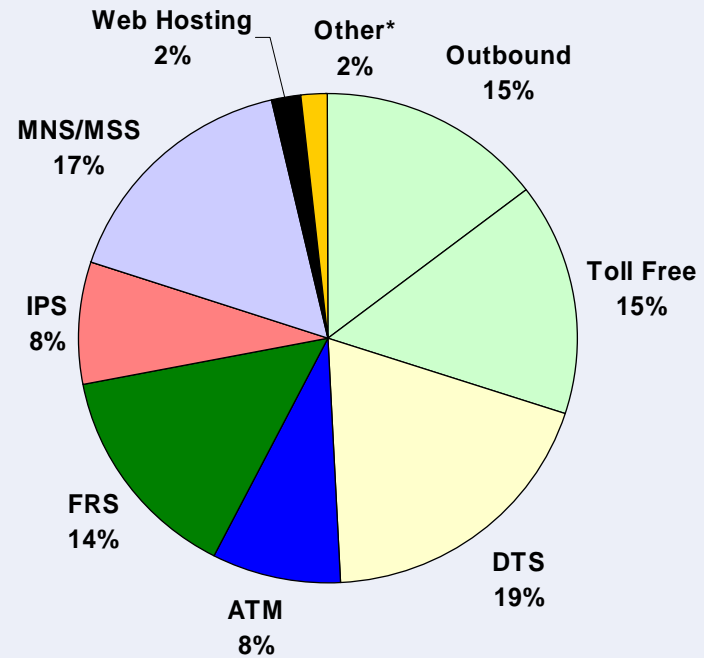
- Current programs providing service to agencies
 - FTS2001: Supporting over 135 agencies
 - FTS Wireless: Supporting over 100 agencies
 - FTS Satellite: Supporting over 100 agencies
 - MAA: Supporting over 100 agencies
 - WITS: Supporting over 100 agencies
 - Connections: Supporting over 50 agencies
- Next Generation Acquisition programs
 - FTS Networx
 - FTS SATCOM II
 - WITS 3



Service Distribution



1998/99



Today

*Other includes Video, Audio Conference, Paging, and PSS



GSA FTS Value Proposition

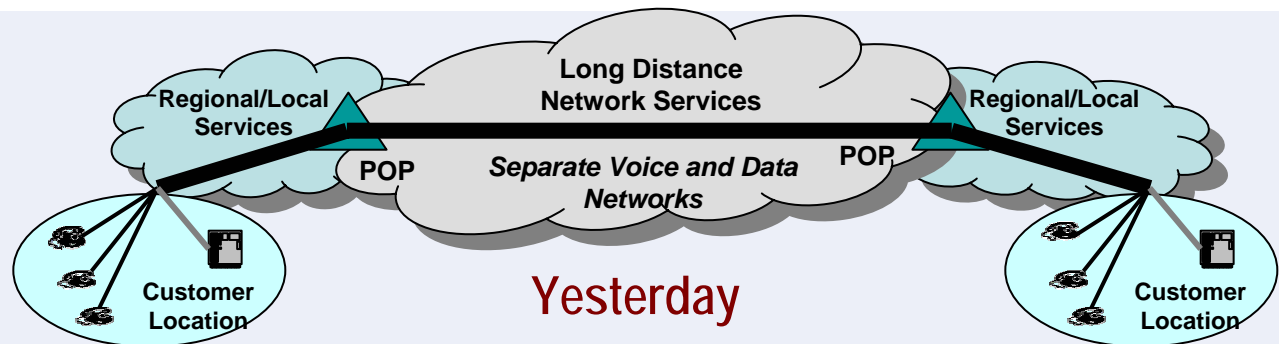




Evolution of Services

Network Services

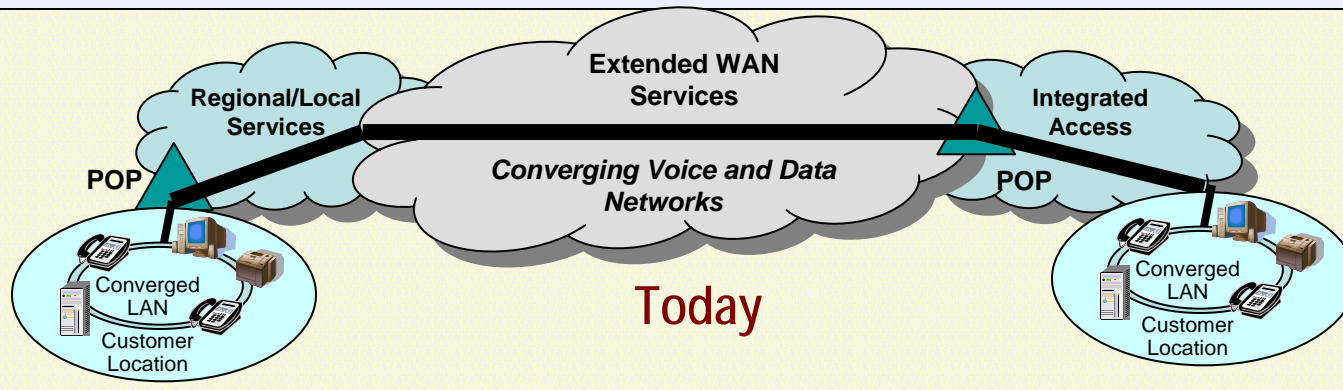
- Multiple networks
- Separate Access (Local) and Transport (Long Distance)



Yesterday

Convergence

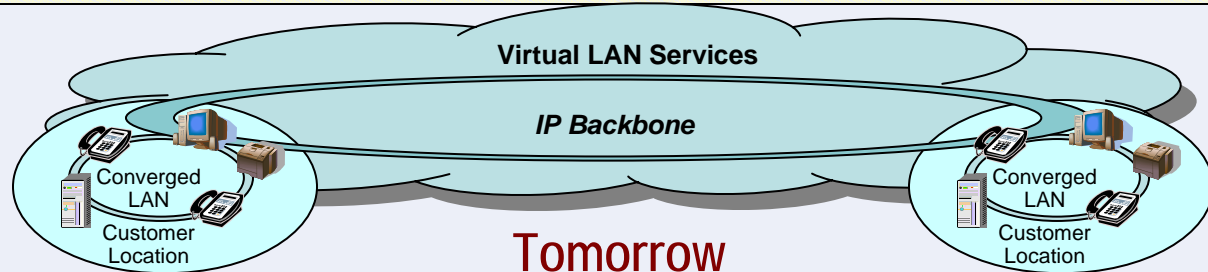
- Converging backbone (transport) networks
- Converged LANs
- Integrated broadband access



Today

End-to-end Solutions

- IP everywhere
- Integrated services
- End-to-end managed, secure networks



Tomorrow

Office of Service Development



A Few Key Drivers for GSA FTS Acquisition Programs

- Service continuity
- Better pricing than agencies can get elsewhere
- Common standards and approaches
 - promote interoperability, security, and portability across agencies
- Cutting edge technology offerings
 - ensure security features are integral components of service delivery
- Continuous assessment of evolving technologies
- Continuous technology refreshment of existing contracts

Network - Technical Scope

Telecommunications Services

Communications Transport

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

IP-Based

- 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

Optical

- Synchronous Optical Network
- Optical Wavelength
- Dark Fiber

Management & Application Services

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

Security Services

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

Special Services

- Land Mobile Radio

Wireless Services

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

Access Services

- Wireline Access
- Broadband Access
- Wireless Access
- Satellite Access



Networx - Leading Edge Services

Networx Provides 17 New Leading Edge Telecommunications Services. Examples are:

- Cellular/Personal Communications Service – Follows 3G standards for access and security. Supports devices such as phones, notebook computers, PDAs – with voice, data, short messaging, multimedia, and Internet services.
- Multimode/Wireless LAN Service – allows users to use devices (PDAs, etc.) at wireless access points, i.e., WI-Fi hotspots, public locations, etc.
- Managed Tiered Security Service – supports NSA approved encryption and multilevel security devices.
- Secure Managed Email – scan and monitor email for security risks, - viruses, spam, inappropriate material
- Incident Response Service – support for malicious events such as Denial of Services (DoS) attacks and forensics services to assist in apprehending and prosecuting offenders.
- Layer 2 VPN – connect sites together regardless of type of access for improved security and improved interworking of Government locations

FTS and NITRD: How Can We Help Each Other?

- **LSN and GSA have Complementary Goals**
 - LSN Goals: to develop leading-edge network technologies, services, and techniques to enhance performance, security, and scalability
 - GSA FTS Goals: deliver leading-edge, cost effective networking solutions which promote Government wide, secure information flow
- **Develop a Collaborative Relationship**
 - Support evolving agency missions
 - Integrate new technologies into existing network infrastructure
 - Mesh NITRD emerging technology initiatives with FTS-developed Government-wide information requirements
 - Review Government RFPs for technical requirements, assist in evaluation of technical sections of proposals submitted



Potential Areas of Collaboration

- Technology Roadmaps
 - Future Network Security Capabilities
 - Advanced Grade of Service (GoS) Capabilities
 - Future Optical Networking Solutions
 - Advanced Collaboration Services
 - Advanced Access Network Architectures and Technology
- Special Studies
 - Impact of Massive VOIP Loading on IP Infrastructure
 - Will today's intrusion prevention, intrusion detection systems become tomorrow's firewalls (or vice versa)?
 - Evolution of security methodologies (inherent network versus edge protection)
 - Will next generation routers and switches come bundled with application-level policy enforcement?
 - "Last mile" secure, broadband wireless technologies



Next Step - A Collaborative Working Relationship

