5.1.6 Frame Relay Services (FRS) (L.34.1.4.6; C.2.3.1)

The offeror shall describe each of the optional services offered. Table L.34.1-4 shows the Transport/IP/Optical Services that shall be optional to offer. Tables J.9.1.1.2 (b) Technical Stipulated Requirements for Optional IP-Based Services and J.9.1.1.3 (b) Technical Narrative Requirements for Optional IP-Based Services identify the stipulated and narrative requirements, respectively, that shall apply exclusively to optional services.

Sprint has a long history of providing Frame Relay services, a wide-area telecommunication service that utilizes physical core network capacity in a logically shared manner. Frame Relay was designed to provide a more cost-effective connectivity than dedicated lines which did not share physical core network capacity. Dedicated lines (also called Private Lines) assigned specific segments of core network capacity to specific end-users.

Sprint has offered the Frame Relay service longer than any other carrier and continues to evolve it today to take advantage of newer, next-generation, core technologies that maintains the need for high (Private Line-like) service reliability and cost-effectiveness.
5.1.6.1 Satisfying the Service Requirements (L.34.1.4.6 (c))
A technical description of how the service requirements (e.g., capabilities, features, interfaces) are satisfied for all proposed optional services.

5.1.6.1.1 Capabilities (L.34.1.4.6 (c))

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX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Figure 5.1.6-1. XXXXXXXXXX Frame Relay Agency WAN Example

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Figure 5.1.6-2. XXXXXXXXXXXXXXX

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Figure 5.1.6-2.
5.1.6.1.2 Features (L.34.1.4.6 (c))

Figure 5.1.6-3.
Figure 5.1.6-3. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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Figure 5.1.6-4. Internet PVCs
5.1.6.1.3 Interfaces (L.34.1.4.6 (c))

Sprint complies with all mandatory interface types for Frame Relay services required in Networx.

5.1.6.2 Quality of Services (L.34.1.4.6 (d))

A description of the quality of the services with respect to the performance metrics specified in Section C.2 Technical Requirements for each proposed optional service, and other performance metrics used by the offeror.

Table 5.1.6-1 details Sprint’s 100 percent compliance with the Networx Key Performance Indicators (KPIs) for FRS.

Table 5.1.6-1. Sprint Compliance With FRS Performance Requirements

<table>
<thead>
<tr>
<th>KPI Metric</th>
<th>Service Level</th>
<th>KPI Measure</th>
<th>Sprint Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>GoS (Data Delivery Rate)</td>
<td>Routine</td>
<td>99.925%</td>
<td>Comply</td>
</tr>
<tr>
<td>GoS (Data Delivery Rate)</td>
<td>Critical</td>
<td>99.990%</td>
<td>Comply</td>
</tr>
<tr>
<td>Latency (CONUS)</td>
<td>Routine</td>
<td>120 ms</td>
<td>Comply</td>
</tr>
<tr>
<td>Latency (CONUS)</td>
<td>Critical</td>
<td>70 ms</td>
<td>Comply</td>
</tr>
<tr>
<td>Availability (PVC)</td>
<td>Routine</td>
<td>99.925%</td>
<td>Comply</td>
</tr>
<tr>
<td>Time To Restore</td>
<td>Without Dispatch</td>
<td>≤ 4 hours</td>
<td>Comply</td>
</tr>
<tr>
<td>Time To Restore</td>
<td>With Dispatch</td>
<td>≤ 8 hours</td>
<td>Comply</td>
</tr>
</tbody>
</table>
Sprint will meet all mandatory Time-To-Repair (TTR) intervals as defined in RFP Section C.2.3.1.4.1.

5.1.6.3 Exceeding the Specified Service Requirements (L.34.1.4.6(e))

If the offeror proposes to exceed the specified service requirements (e.g., capabilities, features, interfaces), a description of the attributes and value of the proposed service enhancements.

5.1.6.3.1 Additional Performance Measures (L.34.1.4.2(d))

Describe the benefits of, rationale for, and measurement of any additional performance metrics proposed.

Table 5.1.6-2. Additional POP-to-POP Performance Measures

<table>
<thead>
<tr>
<th>Measurement Region</th>
<th>Committed Network Round Trip Delay</th>
<th>Committed DDR</th>
<th>Committed Network Jitter</th>
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<tbody>
<tr>
<td>INTRA-REGION</td>
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</table>
### Data Delivery Rate

Our Data Delivery Rate metric provides the assurance that Agency’s traffic is being delivered to its destination.

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5.1.6.4 Experience Delivering Services (L.34.1.4.6 (f))

A description of the offeror’s experience (including major subcontractors) with delivering each proposed optional service.

Sprint demonstrated our industry leadership by being the first to provide legacy Frame Relay services, and now we are a leader once again by offering Frame Relay services XXXXXXXXXXX. Sprint moved to a convergent network service protocol because of significant Agency and commercial demand for XXXXXXXXXXXX.

Over the twenty plus years of Sprint Frame Relay experience our network has grown to support approximately

XXXxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx XXXXXXXX. This is far more than will be required by the Government traffic model. This volume, in conjunction with our 20+-year record with Frame Relay, provides Agency customers with a solid, experienced Frame Relay vendor in Sprint.

Excellent examples of Sprint success in Frame Relay with the Federal Government include US Courts, the Department of Veterans Affairs, and the Department of Homeland Security.

5.1.6.5 Ensuring Service Quality and Reliability (L.34.1.4.6 (g))

A description of the characteristics and performance of the access arrangements that will connect to the offeror’s backbone network(s) to ensure service quality and reliability. A description of how the performance is consistent with industry best practices.

Please see Section 4.2.1 for a description on ensuring service quality and reliability via our access arrangements.

5.1.6.6 Testing and Verifying Services (L.34.1.4.6 (h))

A description of the offeror’s approach to perform verification of individual services delivered under the contract, in particular the testing procedures to verify acceptable performance and Key Performance Indicator (KPI)/Acceptable Quality Level (AQL) compliance.
Table 5.1.6-3 states our KPI measurement approach for FRS. In addition, we will comply with Networx reporting requirements, as stipulated in the Networx RFP.

Table 5.1.6-3. Measurement of Key Performance Indicators

<table>
<thead>
<tr>
<th>KPI Metric</th>
<th>KPI Measure</th>
<th>Sprint Compliance</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>GoS (Data Delivery Rate)</td>
<td>XXXXXXX</td>
<td>Comply</td>
<td>Sprint will leverage a Visual Networks solution to provide the KPI measurement.</td>
</tr>
<tr>
<td>GoS (Data Delivery Rate)</td>
<td>XXXXXXX</td>
<td>Comply</td>
<td>Sprint will leverage a Visual Networks solution to provide the KPI measurement.</td>
</tr>
<tr>
<td>Latency (CONUS)</td>
<td>XXXXX</td>
<td>Comply</td>
<td>Sprint will leverage a Visual Networks solution to provide the KPI measurement.</td>
</tr>
<tr>
<td>Latency (CONUS)</td>
<td>XXXX</td>
<td>Comply</td>
<td>Sprint will leverage a Visual Networks solution to provide the KPI measurement.</td>
</tr>
<tr>
<td>Availability (PVC)</td>
<td>XXXX</td>
<td>Comply</td>
<td>Sprint will follow the formula defined in the RFP for Availability. Sprint will track and total all Agency-reported outages for an Agency during the month(s) that were not caused by the Agency. RI = Total Hours in a month x number of Agency locations subscribing to this service. COT = Total outage hours for all Agency locations subscribing to this service in a month.</td>
</tr>
<tr>
<td>Time To Restore</td>
<td>XXXXXXX</td>
<td>Comply</td>
<td>Sprint will use trouble ticket outage information for each incident to determine the time to restore parameter.</td>
</tr>
<tr>
<td>Time To Restore</td>
<td>XXXXXXX</td>
<td>Comply</td>
<td>Sprint will use trouble ticket outage information for each incident to determine the time to restore parameter.</td>
</tr>
</tbody>
</table>

5.1.6.7 Ensuring Quality of Time-Sensitive Traffic (L.34.1.4.6 (i))

A description of the approach to ensure the quality of time-sensitive traffic (e.g. voice quality, video quality, video lip-synch) under different traffic patterns and load conditions on the offeror’s network.

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Section 5.1.6.3.1, Table 5.1.6-2

5.1.6.8 Providing Integrated Access to Customer Application Support Locations (L.34.1.4.6 (j))
A description of the approach for providing integrated access to locations that support customer applications with different performance requirements (e.g., voice, data, and video).

5.1.6.9 Incorporating Future Infrastructure Enhancements and Emerging Services (L.34.1.4.6 (k))
A description of the approach for incorporating into the offeror’s network, infrastructure enhancements and emerging services that the offeror believes are likely to become commercially available in the timeframe covered by this acquisition, including a discussion of potential problems and solutions.
Section 5.1.6.10 Approach to Network Convergence (L.34.1.4.6 (l))

A description of the approach for network convergence. In particular, describe how the approach ensures service quality over the converged network for data, voice, video, and multimedia.

Section 5.1.6.11 Supporting and Ensuring Interoperability between IP and PSTN (L.34.1.4.6 (m))

A description of the approach to support and ensure interoperability between Internet Protocol (IP) networks and the Public Switched Telephone Network (PSTN), including the approach to map between IP and PSTN addresses.

Section 5.1.6.12 Approach to IPv4-to-IPv6 Migration (L.34.1.4.6 (n))

A description of the approach for IPv4-to-IPv6 migration.
5.1.6.13 Satisfying NS/EP Basic Functional Requirements (L.34.1.4.6 (o))

A description of the offeror's approach to satisfy each NS/EP basic functional requirement listed in Section C.5.2.2.1.1.

The following sections indicate current NS/EP capabilities as related to the 14 functional requirements:

**Enhanced Priority Treatment (#1)**

*Networks must have protection against corruption of, or unauthorized access to, traffic and control, including expanded encryption techniques and user authentication, as appropriate.*

**Secure Networks (#2)**
Non-Traceability (#3)

Selected users must be able to use NS/EP services without risk of usage being traced (i.e., without risk of user or location being identified).
Restorability (#4)

Should a service disruption occur, voice and data services must be capable of being reprovisioned, repaired, or restored to required service levels on a priority basis.

Sprint services provided through Networx meet service level agreements for reliability and restoration as defined in the service sections of this proposal, namely Volume 2, Section 5, Network Management. Critical NS/EP services have Telecommunications Service Priorities (TSP) assigned to ensure priority provisioning or restoration where authorized and needed. Sprint fully complies with the TSP system for priority provisioning (i.e., installation of new circuits), restoration of previously provisioned circuits, and priority level or design change of circuits, including coordination with local access providers. Sprint will fully comply with any future TSP replacement system.

International Connectivity (#5)

Voice and data services must provide access to and egress from international carriers.

Per the Networx Enterprise RFP, this requirement is not applicable to the Frame Relay service.

Interoperability (#6)

Voice and data services must interconnect and interoperate with other Government or private facilities, systems, and networks.

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Mobility (#7)
The ability of voice and data infrastructure to support transportable, redeployable, or fully mobile voice and data communications (i.e., Personal Communications Service (PCS), cellular, satellite, high frequency (HF) radio).

Sprint has rapidly become the foremost vendor of wireless mobility services. Sprint is uniquely positioned to offer Networx a variety of PCS and land mobile radio (LMR) solutions that not only satisfy priority calling requirements, but also enable FIPS-compliant encrypted transmission.

Nationwide Coverage (#8)
Voice and data services must be readily available to support the national security leadership and inter- and intra-Agency emergency operations, wherever they are located.
**Survivability/Endurability (#9)**

Voice and data services must be robust to support surviving users under a broad range of circumstances, from the widespread damage of a natural or manmade disaster up to and including nuclear war.
Voice Band Service (#10)
The service must provide voice band service in support of presidential communications.

Per the Networx RFP, this requirement is not applicable to Frame Relay.

Broadband Service (#11)
The service must provide broadband service in support of NS/EP missions (e.g., video, imaging, web access, multimedia).

The Sprint broadband data services support NS/EP missions. Today, Sprint provides a variety of broadband services to the Federal Government and Military services, both domestically and overseas. IP services include access to the World Wide Web as well as private networking established using both XXXXXXXXXXXXXX Frame Relay.

Scaleable Bandwidth (#12)
NS/EP users must be able to manage the capacity of the communications services to support variable bandwidth requirements.
**Affordability (#13)**

The service must leverage network capabilities to minimize cost (e.g., use of existing infrastructure, commercial off-the-shelf (COTS) technologies, and services).

**Reliability/Availability (#14)**

Services must perform consistently and precisely according to their design requirements and specifications, and must be usable with high confidence.
5.1.6.14 Protecting SS7 Signaling Systems and Satellite Command Links (L.34.1.4.6 (p))

A description of how the offeror’s approach will satisfy the requirements in Section C.5.2.5 for protection of SS7 signaling systems and satellite command links (if employed).

Protection of SS7 and satellite command links does not apply to Frame Relay Services.

5.1.6.15 Assuring Service in the National Capital Region (L.34.1.4.6 (q))

A description of how the network architecture will satisfy the requirements in Section C.5.2.7 for assured service in the National Capital Region, if applicable.

5.1.6.16 Meeting Section 508 Provisions (L.34.1.4.6 (r))

A description of the offeror’s approach for providing the capabilities needed to meet Section 508 provisions for each of the proposed optional services identified in Section C.6.4.

Section 508 provisions do not apply to Frame Relay services.
5.1.6.17 Impact of Delivery of Optional Services on the Network Architecture (L.34.1.4.6 (s))

A description of how the delivery of any optional services would impact the network architecture (e.g., security, quality and reliability, performance).

5.1.6.18 Optimizing the Engineering of Services (L.34.1.4.6 (t))

A description of the offeror’s approach for optimizing the engineering of IP-Based and optical services.
The Technology Development Process (TDP) is an integrated development and implementation process used by IP Technology Development organization for introducing new technology evolution, products, or services. The TDP consists of the following stages:

- Ideation
- Concept
- Plan/Analyze
- Design
- Lab Build/Test
- FIT Build/Test
- Rollout.

5.1.6.19 Implementing Service Internetworking Over A Common Infrastructure (L.34.1.4.6 (u))

A description of the offeror’s vision for implementing service Internetworking over a common infrastructure (e.g., IP-centric architecture). Include a view on network interoperability, control plane integration, and optical infrastructure support for IP-based Services. Describe the benefits and rationale of the offeror’s approach.

5.1.6.19.1 Network Interoperability (L.34.1.4.6 (u))

5.1.6.19.1 Network Interoperability (L.34.1.4.6 (u))

Figure 5.1.6-7 XXXXXXXXXXXXXXXXXXXXXXXX
Figure 5.1.6-7. Sprint Target Architecture

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5.1.6.19.2 Control Plane Integration (L.34.1.4.6 (u))
5.1.6.19.3 Optical Infrastructure Support (L.34.1.4.6 (u))
Sprint is actively pursuing wireless access solutions in addition to traditional wireline access. We are making significant investments in CDMA 3G radio access networks (RAN) and will be delivering high speed IP data services over the CDMA network over the next year.
5.1.6.19.4 Rationale and Benefits of the Sprint Approach (L.34.1.4.6 (u))

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5.1.6.20 Supporting the Government’s Traffic Model (L.34.1.4.6 (v))

Given the offeror’s current network capacity and utilization, an explanation of how the offeror will support the Government requirements specified in the traffic model. Describe the impact on capacity and utilization, as well as any infrastructure build-out contemplated.

Table 5.1.6-6 Sprint and Networx Traffic Impacts

<table>
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<th>Service</th>
<th>Traffic Model Quantity/Model Units</th>
<th>Converted Monthly Traffic/Model Units</th>
<th>Networx Traffic Percent</th>
<th>Monthly Quantity/Units</th>
<th>Total Capacity (Including Spare and Reserve)</th>
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Figure 5.1.6-10. IP Based Traffic

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