1.8   Service-Enabling Devices (SEDs) [L.34.1.8]

The following provides Agencies a complete set of Service-Enabling Devices (SEDs) to meet mission critical equipment requirements at the performance levels to meet GSA high quality service objectives.

The offeror shall propose SEDs for the mandatory and proposed optional services in response to the locations-based and the service-specific SEDs requirement sets defined in Section J.5. The offeror may also propose SEDs for use with an optional service that it is proposing. The offeror shall provide required responses via the Networx Hosting Center (See Section J.7). and in its Technical and Price proposals, as applicable. [L.34.1.8]
All proposed SEDs shall be listed in Table L.34.1-5. For the base unit of a packaged SED, all components of the base unit shall be listed in Table L.34.1-5. Table L.34.1-5 also associates each proposed item with is SED type and its DNRC CLIN. The offeror is responsible for complete consistency between Table L.34.1-5 and the other DNRC CLIN-related L.34 tables (Tables L.34.1-6, L.34.1-7, and L.34.1-8).

The following Sections present the 53 Service-Enabling Device (SED) suite descriptions selected by AT&T for the Networx Program in accordance with L.34.1.8.1(c) and L.34.1.8.2 (c) In addition, the SED Tables present the make, model, manufacturer's part number, part description, catalog identifier, and AT&T DNRC CLIN including quantity in accordance with L.34.1.8.1 (a) and (b) and L.34.1.8.2 (a) and (b). Finally, in accordance with L.34.1.8.1 (d), each location-based SED suite is included in a table that identifies the SED hardware/software that satisfies the requirement stipulated in Attachment J.5. That information is located in Section 1.8.1.27 below.

Consistent with B.4.8.6., where normal, i.e. initial, installation and maintenance of a fixed location SED, stand alone or packaged, requires low-value items, AT&T will provide those low-value items at no separate charge to the Authorized User.

A summary of the proposed SED is presented in Table 1.8-1 which provides a complete list of all of the SEDs proposed by AT&T including manufacturer, model, part number, part description, SED type and DNRC CLIN. **Table1.8-1** provides the necessary linkage between the technical proposal and the pricing tables.

Pages 1387 through 1392 intentionally left blank.

1.8.1 Location-Based SEDs for Mandatory Services [L.34.1.8.1]

A separate input or set of inputs shall be submitted in response to each numbered location-based requirement set listed in Section J.5.1. This input or set of inputs for a specific numbered requirement set is the offeror's-defined and identically numbered SED Suite. The input(s) for each proposal shall:

(a) Describe, for each numbered requirement set in Section J.5.1 and by reference to Table L.34.1-5 using the proposed priceable SED item's DNRC CLIN, the make, model, manufacturer's part number, and part description of each SED item proposed for pricing within the Suite. Also, each SED item proposed shall be identified by its SED Type. [S],The offeror shall identify each SED type by a single alpha acronym, i.e. an 'S' where it is stand-alone [see Section B.4.3.1], a 'B' where it is a base unit or an unpriced component with a base unit of a packaged SED [see Section B.4.3.2.1], a 'C' where it is a configurable component for use with a packaged SED [see Section B.4.3.2.2], or an 'A' for a SED Accessory [A] as each such SED type is specifically defined in Section B.4.

(b) Detail the quantity of each itemized, priceable SED (i.e., an input SED item as identified by its DNRC CLIN) in the proposed SED Suite needed to satisfy the specific requirements delineated in the requirement set.

(c) Separately describe how the SEDs in each particular SEDs Suite that have been selected by the offeror and proposed in response to a particular requirement set, will best meet the customer-premises and mobile equipment and software requirements of the Government's diverse user population.

(d) Separately identify the SEDs (hardware and/or software) included in each particular SEDs Suite that satisfy the requirement stipulated in Attachment J.5. The suite shall include all necessary items required to meet the performance metrics of its associated service(s). [L.34.1.8.1]

1.8.1.1 Suite Number 1

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
1	S	ADTRAN	Total Access 604	4203640L1#ATM	V.35 Interface Adapter	0911101	1

The Total Access 604 is a cost-effective, fixed-port, Internet Access Device designed to support ATM, IP, or TDM networks. It is a means to offer combined voice and data traffic over a single network interface terminating at the Agencies' premises. A rugged metal case and options for battery backup provides dependability and reduced life-cycle costs.

1.8.1.2 Suite Number 2

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
2	S	ADTRAN	T3SU 300 (AC)	1202217L2	HSSI Interface Adapter	0911102	1

The ADTRAN T3SU provides Agencies versatility by offering more interface ports, a built-in HSSI interface, three optional expansion slots for three additional interface modules - single-port V.35 data modules, Quad DSX-1
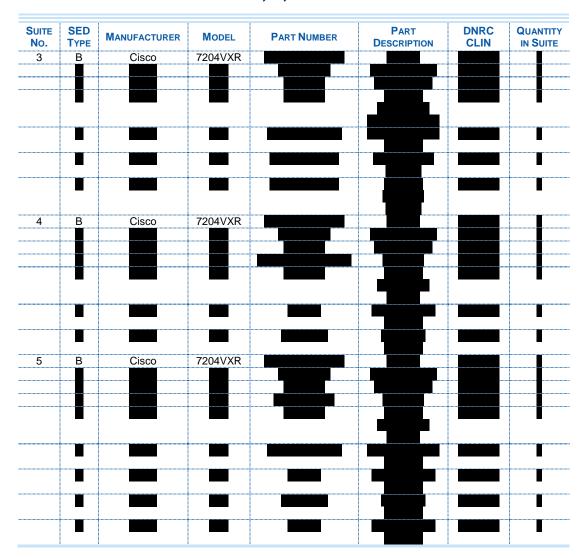
modules for digital voice applications, or Quad Bridge Modules. The interface cards are field swappable, requiring no factory assistance to install.

1.8.1.3   Suites Number 3, 4, and 5

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
3	B	Cisco	7204VXR	███	███	███	█
				███	███	███	█
				███	███		
		███	███	███	███	███	█
		███	███	███	███	███	█
		███	███	███	███		
4	B	Cisco	7204VXR	███	███	███	█
			███	███	███	███	█
				███	███		
		███	███	███	███	███	█
		███	███	███	███	███	█
5	B	Cisco	7204VXR	███	███	███	█
		███	███	███	███	███	█
				███	███		
				███	███	███	█
		███	███	███	███	███	█
		███	███	███	███	███	█
		███	███	███	███	███	█
		███	███	███	███	███	█

For SED 3, compliance with the Optical UNI Type is achieved with the 1-Port Packet/SONET OC3c/STM1 Port Adapter (Cisco Part # PA-POS-10C3). Since this port adapter includes small form-factor pluggable (SFP) optics, to allow for

maximum flexibility, we have selected the multi-mode fiber option (Cisco Part # SFP-OC3-MM). However, the customer has the option of selecting other SFP options such as: single-mode fiber, intermediate range (SMIR), and single-mode fiber, long range (SMLR).

Cisco is the worldwide leader in ATM deployments. The 7204 VXR platform meets Set # 3, 4 and 5's ATM Service requirements (Table J.5.2; Section C.2.3.2;), while providing the industry's leading future-proof router for integrating, and/or migrating to next -generation technologies such as - POS, IPv6, VOIP, Integrated Security, Mobility/Wireless, IP SatCom, and other. The Port Adapters offer investment protection, in that common sparing and parts, are interchangeable with other key Cisco router and switch platforms. The 720X VXR router series, is highly scalable, due to the ability to upgrade the Network Processing Engines (NPE) and I/O Controllers; in addition, to the widest range and density, for - LAN/WAN/Voice/Multi-Media - Port Adapters available today. The Cisco IOS operating system is the most commonly installed internetworking software in Government today, and consequently the total cost of ownership is lower due to fewer training and support requirements.

1.8.1.4   Suite Number 6

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
6	S	ADTRAN	ISU-128	1202029L2#GOV	ISDN Terminal Adapter	0911106	1

The ISU 128 is a full-featured single port terminal adapter providing cost-effective high-speed data transmission at rates up to 128 kbps. The ISU 128 allows Agencies to effectively support ISDN environments. The ISU 128 interoperates with V.34 modems (optional) and Switched 56 DSUs, as well as various ISDN terminal adapters, inverse multiplexers and multilink PPP compatible routers. The ISU 128 provides connectivity to EIA-530 EIA-232 or

V.35 DTE devices. The ISU 128 supports dedicated leased 2B1Q services providing point to-point service without dialing. The front panel of the ISU 128 consists of a two-line by 16-character display seven LEDs and a 16-button keypad. Configuration testing and monitoring of the unit is accomplished through the front panel a VT100 terminal connected to the maintenance port or remotely over the ISDN line.

1.8.1.5   Suites Number 7 and 8

SUITE No.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
7	S	ADTRAN	ATLAS 550 PRI-to-T1 Converter	1200305L2	T1 DSU/CSU	0911701	1
8	S	ADTRAN	T1 ESF CSU	1204025L1	T1 DSU/CSU	0911702	1

The ADTRAN® ATLAS™ 550 is an Integrated Access Device (IAD) designed to improve voice/data, video, and Internet communications in enterprise organizations, performing the functions found in multi-port multiplexers, channel banks, 1/0 cross connect switches, Frame Relay Access Devices/concentrators/switches, IP routers, and ISDN switches. The ATLAS 550 chassis includes a highspeed multi-protocol backplane and six modular expansion slots: two network interface slots and four user interfaces slots; connecting a wide variety of network systems, such as routers, PBX, key systems, video conferencing equipment, remote access servers, LANS, faxes, and telephones. The ATLAS 550 supports multiple network technologies including T1/FT1 DSX-1, ISDN, FXS, FXO, V.35 and 10/100BaseT Ethernet and is designed to be used for more cost-effectiv T1, ISDN or Frame Relay networks.

The ADTRAN T1 ESF CSU is a full-featured T1 Channel Service Unit used to connect T1 data terminal equipment (DTE) such as a PBX, switch or channel bank to T1 facilities. The T1 ESF CSU provides a T1 network interface and a DSX-1 DTE connection through modular RJ48C jacks. Capable of interfacing to both B8ZS or AMI circuits, the T1 ESF CSU can convert signal formats or line code to integrate older equipment. The standalone model provides a front panel LCD, four user keys on the front of the ACE, and provides easy configuration and unit monitoring from the front panel. The ESF CSU provides an EIA-232 port (DB-9) for provisioning through a VT100 interface.

1.8.1.6　　Suite Number 9 and 10

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
9	S	ADC	DSX-3	███	███	███	█
	█	███	███	███	███	███	█
10	B	ADTRAN	MX2800 DS3 AC Non-Redundant w/out Modem	███	███	███	█
	█	███	███	███	███	███	█

The DSX-4R-C24 rear cross-connect modular product is a four-inch-high chassis offering 24 terminations. The 4R family is fully modular throughout the chassis, circuit frames and jacks for simplified restoral capabilities. This high-density DSX includes cable management with rear-adjustable jumper tray to control cable routing, and a hinged door to prevent cable from spilling outside of the framework. The 4-Port Dual Monitor Module provides IN and OUT switch jacks with rear BNC connectors for direct access to the Service Delivery Point and Customer Premise Equipment. The dual monitor option provides an additional monitor jack that allows monitoring both directions of transmission at a single module location.

The MX2800 offers bandwidth consolidation in the smallest footprint available in the industry. The equipment meets stringent NEBS Level 3 requirements. Measuring only one rack unit high in 19-inch or 23-inch rackmount configurations, this compact device gives enterprise users a powerful tool for consolidating 28 T1 signals or 21 E1 signals. Advanced diagnostics include CSU loopbacks, NIU loopbacks, C-bit loopbacks and built-in BERT (Bit Error Rate Testing) capabilities. It features a VT100 terminal interface for local configuration. To support SNMP and Telnet management, the MX2800 has an integrated 10Base-T Ethernet port.

Designed and built in ADC's ISO 2001 facility, the chassis includes circuit frames with rear BNC connectors, an adjustable rear cable tray, front red LEDs, and a set of designation labels. The chassis mounts flush or with a 2-inch recess in a 19-inch (48.3 cm) rack. Adapters are included with each chassis for 23-inch (58.4 cm) rack-mounting. The adjustable cable tray extends the

chassis depth from 12 inches to 15 inches, for maximum cable management. Each position of the pre-terminated chassis is equipped with an empty circuit frame. When service turn-up is required, a jack kit is plugged into the circuit frame to complete the circuit and provide jack access for testing and patching. The design delivers superior cable management designed into each chassis which simplifies cable routing and circuit identification for growing and changing networks. The LEDs flash at both ends of the circuit for quick identification of cross-connected circuits. The fully modular chassis, circuit frames, and individual jacks provide maximum growth flexibility for a network and the pre-terminated chassis with empty circuit frames permits network elements to be cabled to the DSX without deploying the DSX jacks.

1.8.1.7   Suite Number 11

SUITE No.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
11	S	Black Box	Series II	MD1640A	External Standalone Modem	0911111	1

A full-featured V.34+ external modem, it delivers effective asynchronous throughput up to 115.2 kbps. The Modem will adjust transmission speed to varying line conditions. It provides sync or async operation over dialup and 2- or 4-wire leased lines, has full diagnostics, including loop tests and is compatible with Bell standards for operation within legacy networks.

1.8.1.8   Suite Number 12

SUITE No.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
12	S	Kentrox	D-Serv II	4020CE	56Kbps DSU/CSU	0911112	1

Kentrox D-SERV® II 56/64 kbps DSU/CSU provides high quality solutions supporting - high-speed LAN-to-LAN, video-conferencing, Frame Relay and

internet access. The D-SERV II is easy to configure and provides plug-and-play install and operation for most services, featuring a built-in test pattern generator and error indicator, with a full range of front-panel LED indicators for "at-a-glance" system monitoring.

1.8.1.9   Suites Number 13, 14, 15, and 16

SUITE No.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
13	S	ADTRAN	TSU LT	1203060L1	T1 DSU/CSU	0911107	1
14	S	ADTRAN	TSU LT	1203060L1	T1 DSU/CSU	0911107	1
15	S	ADTRAN	TSU LT	1203060L1	T1 DSU/CSU	0911107	1
16	S	ADTRAN	TSU LT	1203060L1	T1 DSU/CSU	0911107	1

The Adtran TSU LT is an extremely flexible single-port T1/FT1 DSU/CSU applicable to a wide range of needs, at a cost effective price. Five year warranty is standard. It includes a single V.35 DTE interface for applications such as LAN-to-LAN bridging, Frame Relay circuit termination, and dedicated videoconferencing, and supports synchronous DTE rates in increments of 56 Kbps or 64 Kbps up to 1.536 Mbps. The unit can be tested and configured using bantam test jacks and the user-programmable front panel LCD and keypad supports or through VT100 terminal configuration and remote configuration using control port.

1.8.1.10   Suite Number 17

SUITE No.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
17	B	ADC	DSX-3	███████	████████	██████	█

The DSX-4R-C24 rear cross-connect modular product is a four-inch-high chassis offering 24 terminations. The 4R family is fully modular throughout the chassis, circuit frames and jacks for simplified restoral capabilities. This high-density DSX includes cable management with rear-adjustable jumper tray to control cable routing, and a hinged door to prevent cable from spilling outside of the framework. The 4-Port Dual Monitor Module provides IN and

OUT switch jacks with rear BNC connectors for direct access to the Service Delivery Point and Customer Premise Equipment. The dual monitor option provides an additional monitor jack that allows monitoring both directions of transmission at a single module location.

1.8.1.11   Suite Number 18

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
18	B	ADC	FL1000	■	■	■	■
	■	■	■	■	■	■	■
	■	■	■	■	■	■	■

The FL1-D is an empty rack-mount panel with 12 available positions. This termination-only panel can be loaded with a variety of 6-pak adapters/connectors (with or without fiber) and miscellaneous accessories. The termination rack-mount panel is designed specifically to accommodate customer premises fiber termination requirements. The panel acts as part of the fiber distribution system in an enterprise network, or as the demarcation point for the service provider at the Agency location.

1.8.1.12   Suite Number 19

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
19	B	ADTRAN	TSU 600	███████	██████	██████	█
	█	█████	████████	███████	████	█████	█
	█	█████	█████████	█████████	████	█████	█
	█	████	█████████	█████████	████	█████	█

The proposed Adtran TSU 600 provides the required 17 V.35 interfaces via 17 adapter cables connected to three (3) included Plug-on Dual Nx56/64 V.35 Modules and to six (6) Plug-in Dual Nx56/64 V.35 Modules. The ADTRAN TSU 600 modular, full-featured T1/FT1 Integrated Access Device (IAD) supports a wide range of applications. Through the six expansion slots on the rear of the TSU 600, complete flexibility is provided in the type of DTE interfaces required for the T1 application. By supporting up to 24 DTE interfaces, the TSU 600 provides the same functionality as a traditional channel bank, while providing a small form factor and end-user oriented features.

1.8.1.13   Suite Number 20

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
20	B	ADTRAN	ATLAS 830	███ █	██████████ ████████	██████	█
	█	██████	████ █ █	███ █	██████████	█████	█

The ATLAS Series of IADs offer high capacity and advanced networking services. This multi-T1/PRI enterprise platform integrates voice, data, video, and Internet traffic through dynamic bandwidth allocation, T1 Inverse

Multiplexing, circuit switching, and packet routing. The ATLAS capability for switching, multiplexing and grooming multpleT1/PRI circuits supports SED #20 requirements for multiplexing up to 12 T1 into a single T3 circuit. The Quad Nx 56/64 Module provides four synchronous V.35 DTE ports, each of which can operate at any rate that is a multiple of 56 or 64Kbps, up to 1.536Mbps. In addition to multiplexing T1 circuits, the ATLAS support multiple technologies including ISDN, IP routing, and Frame Relay. By adding or changing interface cards, Agencies can reuse the ATLAS for ISDN PRI/BRI switching and conversion, T1 Inverse Multiplexing, Frame Relay concentration/switching, and T3 applications. The ATLAS 830 is designed for medium-to-large networks that require up to 34 T1/PRI ports or a T3. For global applications, the ATLAS Series also offers a range of interfaces including E1, ISDN PRA and BRI S/T, along with support for Net-3 and Net-5 Euro-ISDN protocols.

1.8.1.14   Suites Number 21, 22, 23, 24, 25, 26, and 27

SUITE No	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
21	S	ADTRAN	TSU LT (3rd Gen)	1203060L1	Standalone DSU/CSU	0911107	1
22	S	ADTRAN	TSU LT (3rd Gen)	1203060L1	Standalone DSU/CSU	0911107	1
23	S	ADTRAN	TSU LT (3rd Gen)	1203060L1	Standalone DSU/CSU	0911107	1
24	S	ADTRAN	TSU LT (3rd Gen)	1203060L1	Standalone DSU/CSU	0911107	1
25	S	ADTRAN	TSU LT (3rd Gen)	1203060L1	Standalone DSU/CSU	0911107	1
26	S	ADTRAN	TSU LT (3rd Gen)	1203060L1	Standalone DSU/CSU	0911107	1
27	S	ADTRAN	TSU LT (3rd Gen)	1203060L1	Standalone DSU/CSU	0911107	1

The Adtran TSU LT is an extremely flexible single-port T1/FT1 DSU/CSU. It includes a single V.35 DTE interface for applications such as LAN-to-LAN bridging, Frame Relay circuit termination, and dedicated videoconferencing, and supports synchronous DTE rates in increments of 56 Kbps or 64 Kbps up to 1.536 Mbps. The unit can be tested and configured using bantam test jacks

and the user-programmable front panel LCD and keypad supports or through VT100 terminal configuration and remote configuration using control port.

1.8.1.15   Suite Number 28

Suite No.	SED Type	Manufacturer	Model	Part Number	Part Description	DNRC CLIN	Quantity in Suite
28	B	Cisco	ISR Series - 1841	███████	███	███	▮
	▮	███	▮	█████	███	███	▮
	▮	████	▮	███	███	███	
	▮	███	▮	████	███	███	
	▮	███	███	████	███	███	▮

The Cisco ISR 1841-HSEC/K9 bundle offers a cost effective and integrated way of supporting the FRS, Security Services, and MNS Node requirements (Table J.5.2; Section C.2.3.1) as specified in the requirements for SED#28. Cisco ISR series of routers (18xx, 28xx, 38xx) is the industry's only branch router series that supports: Data, Voice, Video, Security, Telephony, Wireless, and SatCom technologies, in one platform/ chassis. The K9 bundle's integrated security features, include embedded or enabled support for the required MFS/IDPS/AVMS, and MNS services; including enablement for industry unique security processes, such as NAC. The Cisco IOS operating system is a common internetworking software in Government today, and consequently the total cost of ownership is reduced due to the fewer requirements for training. As a branch office router, the ISR offers a wide array of high-density network modules and interface cards. These modules and adapters are common across the ISR platform, and therefore facilitate common sparing.

AntiVirus security support is provided by the ████████████████████████ ████████████████████████████████ that scans inbound and outbound traffic for SMTP, HTTP, FTP and POP3 protocols looking for viruses. Content filtering and anti-spam features provide Agencies additional protection against unwanted spam mail or inappropriate content. Always up-to-date, the ████████████████████████████ seeks and downloads the latest definitions, rules and engines.

1.8.1.16   Suite Number 29

SUITE No.	SED Type	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
29	S	ADTRAN	T3SU 300	1202217L2	T3 DSU/CSU	0911102	1

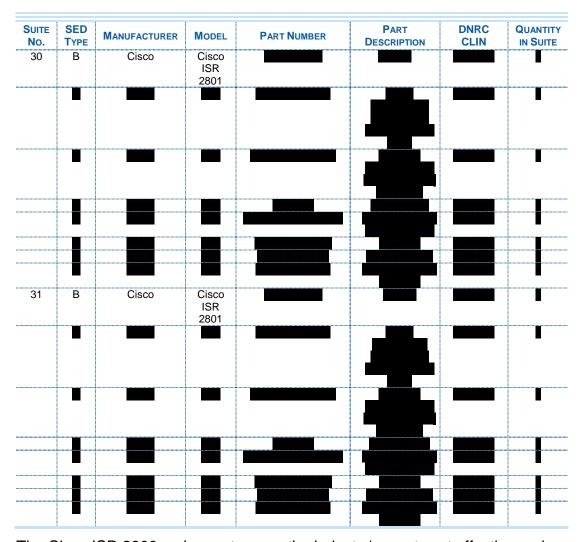The T3SU 300 multiport T3 DSU/CSU offers Agencies more interface ports than competing products. It offers a built-in HSSI interface and three optional expansion slots for up to three additional HSSI interface modules, single-port V.35 data modules, Quad DSX-1 modules for digital voice applications, or Quad Bridge Modules. The cards are field swappable, requiring no factory assistance to install.

1.8.1.17   Suites Number 30 and 31

SUITE No.	SED Type	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
30	B	Cisco	Cisco ISR 2801	█	█	█	█
	█	█		█	█	█	█
	█	█	█	█	█	█	█
	█	█	█	█	█	█	█
		█	█	█	█	█	█
31	B	Cisco	Cisco ISR 2801	█	█	█	█
	█	█	█	█	█	█	█
	█	█	█	█	█	█	█
		█	█	█	█	█	█
		█	█	█	█	█	█

The Cisco ISR 2800 series routers are the industry's most cost effective and integrated way of supporting the requirements for Set 30's FRS, and MNS Node requirements (Table J.5.2; Section C.2.3.1) The Cisco ISR series of routers (18xx, 28xx, 38xx) is the industry's only branch router series, that supports: Data, Voice, Video, Security, Telephony, Wireless, and SatCom technologies, in one platform/ chassis. The Cisco IOS operating system is the most commonly installed internetworking software in Government today, and
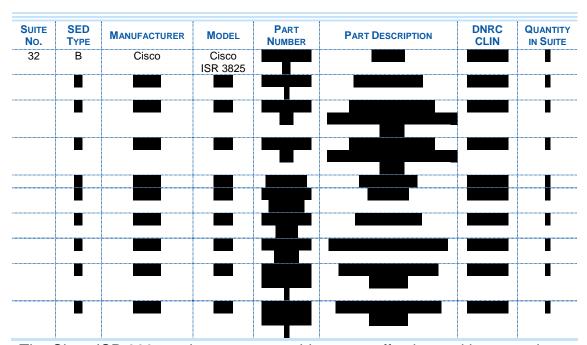
consequently the total cost of ownership is lower due to fewer training and support requirements. As a branch office router, the ISR offers a wide array of high-density network modules and interface cards. These modules and adapters are common across the ISR platform, and therefore facilitate common sparing, and further reduce costs.

The dual-leg T1 interface requirement for SED 31 is satisfied by ████████ ██ ████████████████████

1.8.1.18   Suite Number 32

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
32	B	Cisco	Cisco ISR 3825	██	██	██	▪
	▪	██	▪	██	██	██	▪
	▪	██	▪	██	██	██	▪
	▪			██	██	██	▪
	▪	██		██	██		▪
	▪	██	▪	██	██	██	▪
	▪	██		██	██		▪
	▪	██		██	██		▪
	▪	██	▪	██	██		▪

The Cisco ISR 3825 series routers provide a cost-effective and integrated solution to support FRS and MNS services (Table J.5.2; Section C.2.3.1) as specified by SEDs 31 and 32. The Cisco ISR series of routers (18xx, 28xx, 38xx) is the industry's only branch router series that supports: Data, Voice, Video, Security, Telephony, Wireless, and SatCom technologies in a single

chassis. As a branch office router, the ISR offers a wide array of network modules and high-density interface cards. These modules and adapters are common across the ISR platform facilitating common sparing, and reducing total cost of ownership.

1.8.1.19   Suite Number 33

Suite No.	SED Type	Manufacturer	Model	Part Number	Part Description	DNRC CLIN	Quantity in Suite
33	S	ADTRAN	TSU LT (3rd Gen)	1203060L1	Standalone DSU/CSU	0911107	1

The Adtran TSU LT is an extremely flexible single-port T1/FT1 DSU/CSU. It includes a single V.35 DTE interface for applications such as LAN-to-LAN bridging, Frame Relay circuit termination, and dedicated videoconferencing, and supports synchronous DTE rates in increments of 56 Kbps or 64 Kbps up to 1.536 Mbps. The unit can be tested and configured using bantam test jacks and the user-programmable front panel LCD and keypad supports or through VT100 terminal configuration and remote configuration using control port.

1.8.1.20   Suite Number 34

Suite No.	SED Type	Manufacturer	Model	Part Number	Part Description	DNRC CLIN	Quantity in Suite
34	S	ADTRAN	T3SU 300	1202217L2	T3 DSU/CSU	0911102	1

The T3SU 300 multiport T3 DSU/CSU offers Agencies more interface ports than competing products. It offers a built-in HSSI interface and three optional expansion slots for up to three additional HSSI interface modules, single-port V.35 data modules, Quad DSX-1 modules for digital voice applications, or Quad Bridge Modules. The cards are field swappable, requiring no factory assistance to install.
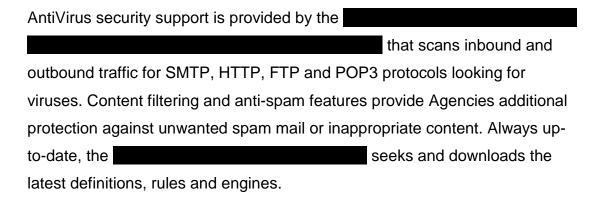
1.8.1.21   Suite Number 35

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
35	B	Cisco	ISR 1841	█	█	█	█
	█	█	█	█	█	█	█
	█	█	█	█	█	█	█
	█	█	█	█	█	█	█
	█	█	█	█	█	█	█

For the response to SED Sets 35, please refer to the response for SED Set #28 above which describes the Cisco ISR 1841.

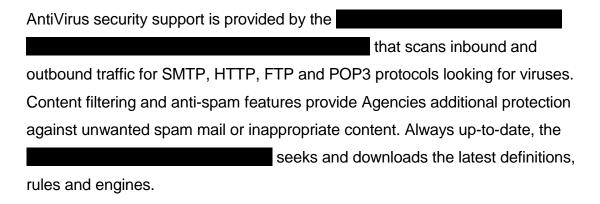AntiVirus security support is provided by the ███████████████████ ████████████████████████████████ that scans inbound and outbound traffic for SMTP, HTTP, FTP and POP3 protocols looking for viruses. Content filtering and anti-spam features provide Agencies additional protection against unwanted spam mail or inappropriate content. Always up-to-date, the ███████████████████ seeks and downloads the latest definitions, rules and engines.

1.8.1.22 Suite Number 36

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
36	B	Cisco	Cisco ISR Series 1841	███	███	███	█
	██	███	███	███	██████	███	█
	██	███	███	███	██████	███	█
	██	███	███	███	████		█
	██	███	███	███	███	███	█
	██	███	███	███	█████	███	█
	██	███	███	███	███	███	█
		███	███	███	███	███	

For the response to SED Sets 36, please refer to the response for SED Set #28 above which describes the Cisco ISR 1841.

AntiVirus security support is provided by the ███████████████████ ███████████████████████████ that scans inbound and outbound traffic for SMTP, HTTP, FTP and POP3 protocols looking for viruses. Content filtering and anti-spam features provide Agencies additional protection against unwanted spam mail or inappropriate content. Always up-to-date, the ███████████████████ seeks and downloads the latest definitions, rules and engines.

1.8.1.23   Suite Number 37

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
37	B	Cisco	CISCO ISR SERIES - 2801	██████	████	████	█
	█	████	██	█████	██████	████	█
	█	████	██		██████	████	█
		████	███	████	██████	████	█
		████	███	████	██████	████	█
	█	████	███	████	██████		█

For the response to SED Sets 37, please refer to the response for SED Set #31 above which describes the Cisco ISR 2801.

1.8.1.24   Suite Number 38

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
38	B	Cisco	CISCO ISR 3845	████	████	████	█
	█	████	█	████	█████	████	█
	█	████	█	████	██████	████	█
	█	████	██	████	██████	████	█
		████		████	██████	████	█
		████	███	████	██████	████	█
		████	███	████	██████	████	█

The Cisco ISR 3845 provides a cost-effective and integrated solution to support the IPS, Security Services, VOIPTS Gateway, and MNS service requirements (Table J.5.2; Sections C.2.7.2/C.2.10) as specified by SED #38. The voice software bundles voice-over-IP gateway into the ISR 3845

platform. The Cisco ISR series of routers (18xx, 28xx, 38xx) is the industry's only branch router series that supports Data, Voice, Video, Security, Telephony, Wireless, and SatCom technologies, in one platform. As a branch office router, the ISR offers a wide array of network modules and high-density interface cards. These modules and adapters are common across the ISR platform facilitating common sparing, and reducing total cost of ownership. Cisco IOS offers advantages and thought leadership over the competition with respect to IP features such as - Security, Voice, QoS, Manageability, Reliability, and Dynamic Multipoint VPNs (DMVPN).

AntiVirus security support is provided by the ████████████████████ ████████████████████████████████████ that scans inbound and outbound traffic for SMTP, HTTP, FTP and POP3 protocols looking for viruses. Content filtering and anti-spam features provide Agencies additional protection against unwanted spam mail or inappropriate content. Always up-to-date, the ████████████████████████████ seeks and downloads the latest definitions, rules and engines.

1.8.1.25   Suite Number 39

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
39	B	Cisco	CISCO 7206 VXR	████████	████	████	█
	█	████	████	████	████	████	█
	█	████	████	████	████	████	
	█	████	████	████	████	████	
	█	████	████	████	████	████	
	█	████	████	████	████	████	█
	█	████	████	████	████	████	█

Cisco is the worldwide leader in Private Line Service deployments. The 7204/7206 VXR platform meets Set # 39's PLS, and SONET UNI/ termination (Table J.5.2; Sections C. 2.4.1, C.2.5.1, and C.2.5.2), Services requirements, while providing, the industry's leading future-proof router, for integrating, and/or migrating to next -generation technologies like - POS, IPv6, VOIP, Integrated Security, Mobility/Wireless, IP SatCom, and other. The Port Adapters offer investment protection, in that common sparing and parts, are interchangeable with other key Cisco router and switch platforms. The 720X VXR router series, is highly scalable, due to the ability to upgrade the ██ in addition, to the widest range and density, for - LAN/WAN/Voice/Multi-Media - Port Adapters available today. The Cisco IOS operating system is by far the most commonly installed internetworking software in Government today, and consequently the total cost of ownership is lower due to fewer training and support requirements. AntiVirus security support is provided by the ████████ ██ that scans inbound and outbound traffic for SMTP, HTTP, FTP and POP3 protocols looking for viruses. Content filtering and anti-spam features provide Agencies additional protection against unwanted spam mail or inappropriate content. Always up-to-date, the ████████████████████████████ seeks and downloads the latest definitions, rules and engines.

1.8.1.26   Suite Number 40

SUITE No.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
40	B	Cisco	CISCO 7606	████ █	██	██	█
	█	██	█	███ █	█████	██	█
	█	███	█	███ █	██████	██	█
	█			██ █	█████		█
	█	██	█	███ ██	█████		█

SUITE No.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
▮	▮	▮▮	▮	▮▮	▮▮▮	▮	▮
▮	▮	▮▮	▮	▮▮	▮▮	▮	
▮	▮		▮	▮▮	▮▮▮	▮	
▮	▮	▮	▮	▮▮	▮▮▮	▮	
▮	▮	▮	▮	▮	▮▮	▮	▮
▮	▮	▮▮	▮	▮▮	▮▮	▮	▮
▮	▮	▮	▮	▮▮	▮▮	▮	
▮	▮	▮	▮	▮▮	▮▮▮	▮	

The Cisco 7600 series router provides a cost-effective and integrated solution to support the IPS, SONET, Security and MNS service requirements (Table J.5.2; Sections C.2.7.2 and C.2.5.2) as specified by SED #39. The 7600 series of enterprise class routers offers a wide array of port adapters and high-density network interfaces. Cisco IOS offers advantages and thought leadership over the competition with respect to IP features such as - Security, Voice, QoS, Manageability, Reliability, and Dynamic Multipoint VPNs (DMVPN). The integrated security features enabled support of the required MFS/IDPS and MNS features. The port Adapters for the 7600 series are used in other Cisco enterprise platforms - such as the: 6500 or 7200 series platforms - facilitating common sparing and reducing total cost of ownership.

1.8.1.27 Requirements that Satisfy Attachment J.5 by Suite

(d) Separately identify the SEDs (hardware and/or software) included in each particular SEDs Suite that satisfy the requirement stipulated in Attachment J.5. The suite shall include all necessary items required to meet the performance metrics of its associated service(s). [L.34.1.8.1(d)]

The following information identifies the SEDs (hardware and/or software) included in each particular SEDs Suite that satisfy the requirement stipulated in Attachment J.5. The SED suite includes all the necessary items to meet the performance metrics of its associated service.

SED HARDWARE/SOFTWARE THAT SATIISFIES J.5 REQUIREMENTS

SED 1 - L.34.1.8.1(d) Requirement

DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911101	T1	1.5 Mb/s V.35 (1)	-	-	-	-

SED 2 - L.34.1.8.1(D) REQUIREMENT

DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911102	T3	43 Mb/s HSSI (1)	-	-	-	-

SED 3 - L.34.1.8.1(D) REQUIREMENT

DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911103 0911161 0911164	OC-3	-	-	-	-	-
0911103 0911161 0911104 0911142	-	149 Mb/s Optical (1)	-	-	-	-

SED 4 - L.34.1.8.1(D) REQUIREMENT

DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911103 0911161 0911165 0911167	T3	-	-	-	-	-
0911103 0911161 0911165 0911166	-	1.5 Mb/s Ethernet (11)	-	-	-	-

SED 5 - L.34.1.8.1(D) REQUIREMENT

DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911103 0911168 0911161 0911164	OC-3	-	-	-	-	-
0911103 0911168 0911161 0911166 0911167 0911169	-	43 Mb/s Coax (1) 1.5 Mb/s Ethernet (12)	-	-	-	-
0911164	-	-	-	-	-	X

SED 6 - L.34.1.8.1(D) REQUIREMENT

DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911106	DS0	.064 Mb/s V.35 (1)	-	-	-	-

SED 7 - L.34.1.8.1(D) REQUIREMENT

DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911701	PRI	1.5 Mb/s TDM (1)	-	-	-	-

SED 8 - L.34.1.8.1(D) REQUIREMENT

DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911702	T1	1.5 Mb/s TDM (1)	-	-	-	-

SED 9 - L.34.1.8.1(D) REQUIREMENT

DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
911108 911110	T3		-	-	-	-
911108 911110	-	43 Mb/s TDM (1)	-	-	-	-

SED 10 - L.34.1.8.1(D) REQUIREMENT

| | SED HARDWARE/SOFTWARE THAT SATIISFIES J.5 REQUIREMENTS | | | | | |
DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
911109	T3	-	-	-	-	-
911109 911162	-	1.5 Mb/s TDM (15)	-	-	-	-

| | SED 11 - L.34.1.8.1(D) REQUIREMENT | | | | | |
DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911111	Subrate DS0	.0096 Mb/s RS-232 (1)	-	-	-	-

| | SED 12 - L.34.1.8.1(D) REQUIREMENT | | | | | |
DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911112	DS0	.064 V.35 (1)	-	-	-	-

| | SED 13 - L.34.1.8.1(D) REQUIREMENT | | | | | |
DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911107	FT1(.256)	.256 Mb/s V.35 (1)	-	-	-	-

| | SED 14 - L.34.1.8.1(D) REQUIREMENT | | | | | |
DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911107	FT1(.768)	.768 Mb/s V.35 (1)	-	-	-	-

| | SED 15 - L.34.1.8.1(D) REQUIREMENT | | | | | |
DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911107	T1	1.5 Mb/s V.35 (1)	-	-	-	-

| | SED 16 - L.34.1.8.1(D) REQUIREMENT | | | | | |
DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911107	T1	1.5 Mb/s V.35 (1)	-	-	-	-
0911107	-	-	-	-	X	-

| | SED 17 - L.34.1.8.1(D) REQUIREMENT | | | | | |
DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
911108 911110	T3	43 Mb/s T3 (1)	-	-	-	-

| | SED 18 - L.34.1.8.1(D) REQUIREMENT | | | | | |
DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911703 0911704 0911705	OC-3	149 Mb/s SONET (1)	-	-	-	-
0911703 0911704 0911705	-	-	-	-	-	X

| | SED 19 - L.34.1.8.1(D) REQUIREMENT | | | | | |
DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911119	T1	-	-	-	-	-
0911119 0911171 0911172 0911100	-	.064 Mb/s V.35 (17)	-	-	-	-

| | SED 20 - L.34.1.8.1(D) REQUIREMENT | | | | | |
DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911120	T3	-	-	-	-	-
0911120 0911706	-	1.5 Mb/s V.35 (12)	-	-	-	-

| | SED 21 - L.34.1.8.1(D) REQUIREMENT | | | | | |
DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911107	FT1 (.128)	.128 Mb/s V.35 (1)	-	-	-	-

| | SED 22 - L.34.1.8.1(D) REQUIREMENT | | | | | |

SED HARDWARE/SOFTWARE THAT SATIISFIES J.5 REQUIREMENTS						
DNRC CLIN	**Access Bandwidth**	**UNI Bandwidth**	**Security Services**	**VOIPTS**	**MNS**	**SONET**
0911107	FT1 (.256)	.256 Mb/s V.35 (1)	-	-	-	-

SED 23 - L.34.1.8.1(D) REQUIREMENT						
DNRC CLIN	**Access Bandwidth**	**UNI Bandwidth**	**Security Services**	**VOIPTS**	**MNS**	**SONET**
0911107	FT1 (.384)	.384 Mb/s V.35 (1)	-	-	-	-

SED 24 - L.34.1.8.1(D) REQUIREMENT						
DNRC CLIN	**Access Bandwidth**	**UNI Bandwidth**	**Security Services**	**VOIPTS**	**MNS**	**SONET**
0911107	FT1 (.512)	.512 Mb/s V.35 (1)	-	-	-	-

SED 25 - L.34.1.8.1(D) REQUIREMENT						
DNRC CLIN	**Access Bandwidth**	**UNI Bandwidth**	**Security Services**	**VOIPTS**	**MNS**	**SONET**
0911107	FT1 (.768)	.768 Mb/s V.35 (1)	-	-	-	-

SED 26 - L.34.1.8.1(D) REQUIREMENT						
DNRC CLIN	**Access Bandwidth**	**UNI Bandwidth**	**Security Services**	**VOIPTS**	**MNS**	**SONET**
0911107	DS0	.064 Mb/s V.35 (1)	-	-	-	-

SED 27 - L.34.1.8.1(D) REQUIREMENT						
DNRC CLIN	**Access Bandwidth**	**UNI Bandwidth**	**Security Services**	**VOIPTS**	**MNS**	**SONET**
0911107	T1	1.5 Mb/s V.35 (1)	-	-	-	-

SED 28 - L.34.1.8.1(D) REQUIREMENT						
DNRC CLIN	**Access Bandwidth**	**UNI Bandwidth**	**Security Services**	**VOIPTS**	**MNS**	**SONET**
0911128 0911174	T1	-	-	-	-	-
0911128 0911707 0911708	-	1.5 Mb/s V.35 (1)	-	-	-	-
0911128 0911175	-	-	X	-	-	-
0911128 0911174 0911175					X	

SED 29 - L.34.1.8.1(D) REQUIREMENT						
DNRC CLIN	**Access Bandwidth**	**UNI Bandwidth**	**Security Services**	**VOIPTS**	**MNS**	**SONET**
0911102	T3	43 Mb/s HSSI (1)	-	-	-	-
0911102	-	-	-	-	X	-

SED 30 - L.34.1.8.1(D) REQUIREMENT						
DNRC CLIN	**Access Bandwidth**	**UNI Bandwidth**	**Security Services**	**VOIPTS**	**MNS**	**SONET**
0911130 0911174	T1	-	-	-	-	-
0911130 0911177	-	.128 Mb/s Ethernet (6)	-	-	-	-
0911130 0911174 0911177	-	-	-	-	X	-

SED 31 - L.34.1.8.1(D) REQUIREMENT						
DNRC CLIN	**Access Bandwidth**	**UNI Bandwidth**	**Security Services**	**VOIPTS**	**MNS**	**SONET**
0911130 0911174	T1 (2)	-	-	-	-	-
0911130 0911177	-	.256 Mb/s Ethernet (4) .128 Mb/s Ethernet (1)	-	-	-	-
0911130 0911174 0911177	-	-	-	-	X	-

SED HARDWARE/SOFTWARE THAT SATIISFIES J.5 REQUIREMENTS

SED 32 - L.34.1.8.1(D) REQUIREMENT

DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911132 0911176	T3	-	-	-	-	-
0911132 0911131 0911177 0911177	-	1.5 Mb/s Ethernet (12)	-	-	-	-

SED 33 - L.34.1.8.1(D) REQUIREMENT

DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911107	T1	1.5 Mb/s V.35 (1)	-	-	-	-

SED 34 - L.34.1.8.1(D) REQUIREMENT

DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911102	T3	43 Mb/s HSSI (1)	-	-	-	-

SED 35 - L.34.1.8.1(D) REQUIREMENT

DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911135 0911174	T1	-	-	-	-	-
0911135 0911131	-	.256 Mb/s Ethernet (4)	-	-	-	-
0911135 0911175	-	-	X	-	-	-
0911135 0911131 0911175	-	-	-	-	X	-

SED 36 - L.34.1.8.1(D) REQUIREMENT

DNRC CLIN	Access Bandwidth	UNI Bandwidth	Security Services	VOIPTS	MNS	SONET
0911136 0911174	T1 (2)	-	-	-	-	-
0911136 0911174	-	.768 Mb/s Ethernet (4)	-	-	-	-
0911136 0911178 0911175	-	-	X	-	-	-
0911136 0911174 0911178 0911175	-	-	-	-	X	-

SED HARDWARE/SOFTWARE THAT SATIISFIES J.5 REQUIREMENTS						
SED 37 - L.34.1.8.1(D) REQUIREMENT						
0911137 0911174	T1	-	-	-	-	-
0911137 0911174	-	1.5 Mb/s VOIPTS	-	-	-	-
0911137 0911174	-	-	-	X	-	-
SED 38 - L.34.1.8.1(D) REQUIREMENT						
0911138 0911176	T3	-	-	-	-	-
0911138 0911179 0911180	-	1.5 Mb/s Ethernet (12) 1.5 Mb/s VOIPTS (2)	-	-	-	-
0911138 0911175	-	-	X	-	-	-
0911138 0911180	-	-	-	X	-	-
0911138 0911176 0911179 0911175	-	-	-	-	X	-
SED 39 - L.34.1.8.1(D) REQUIREMENT						
0911139 0911181	OC-3	-	-	-	-	-
0911139 0911181	-	149 Mb/s SONET (1)	-	-	-	-
0911139 0911175	-	-	X	-	-	-
0911181	-	-	-	-	-	X
SED 40 - L.34.1.8.1(D) REQUIREMENT						
0911140 0911182 0911183 0911184 0911185	OC-12	-	-	-	-	-
0911140 0911182 0911183 0911141 0911142	-	149 Mb/s SONET (2)	-	-	-	-
0911140 0911182	-	-	X	-	-	-
0911140 0911182 0911183 0911141 0911142 0911184 0911185	-	-	-	-	X	-

Table 1.8.1-1: SED J.5 Requirement Compliance by Suite. *The information provided in this table satisfies the J.5 requirements.*

1.8.2   Service-Specific SEDs for Mandatory Services [L.34.1.8.2]

A separate input or set of inputs shall be submitted in response to each numbered service-specific requirement set listed in Section J.5. This input or set of inputs for a specific numbered requirement set is the offeror's-defined and identically numbered SED Suite. The input for each proposed suite shall:

(a) Describe, for each numbered requirement set in Section J.5.2, and by reference to Table L.34.1-5 using the proposed pricable SED item's DNRC CLIN, the make, model, manufacturer's part number, and part description of each SED item proposed for pricing within the Suite. Also, each SED item proposed shall be identified by its SED Type The offeror shall identify each SED type by a sinble alpha acronym, i.e., an 'S' where it is stand-alone [see Section B. 4.3.1], a 'B' where it is a base unit of a packaged SED [see Section B.4.3.2.1], a 'C' where it is a configurable component for a packaged SED [see Section B.4.3.2.2], or an 'A' for a SED Accessory [A], as each such SED type is specfically defined in Section B.4.

(b) Detail the quantity of each itemized, priceable SED (i.e., an input SED tem as identified by its DNRC CLIN) in the proposed SED Suite needed to satisfy the specific requirements delineated in the requirement set.

(c) Separately describe how the SEDs in each particular SEDs Suite that have been selected by the offeror and proposed in response to a particular requirement set, will best meet the customer-premises and mobile equipment and software requirements of the Government's diverse user population. [L.34.1.8.2]

The following Sections present 13 Service-Specific Service-Enabling Devices for Mandatory Services suite descriptions selected by AT&T for the Networx Program in accordance with L.34.1.8.2 (c). In addition, the SED Tables present the make, model, manufacturer's part number, catalog identifier, and AT&T DNRC CLIN including quantity in accordance with L.34.1.8.2 (a) and (b).

1.8.2.1   Suite Number 41

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
41	S	Motorola	L2	V270	Quad-band GSM cellular phone (non-folding, "candy bar" style)	0921141	1
	A	Motorola	L2 Case	64301	Case with clip	921161	1
	A	Motorola	H500	64184	Over-ear headset	921162	1
	A	Motorola	840 STD LI	64298	Replacement Battery	921163	1

The Motorola L2 is a lightweight candy bar design phone offering the latest features. Operating at the 850/900/1800/1900 MHz frequencies, the L2 is a quad-band GSM phone that supports global roaming and the UNI Type 1 interface. The L2 enables the mandatory features specified in CPCS service. In addition the L2 offers: 5 MB of shared memory; up to 4 hours of talk time or up to 310 hours of standby time; a 128x160 pixel display with 256K colors; support for EDGE and WAP 2.0; USB port for PC connectivity; email and SMS; Internet mini-browser; clock/calendar/calculator; phone book/incoming number save/speed dial; keypad/scroll navigation; vibrate mode; E911 support. At 85 grams, the L2 is a very light phone. Agency personnel can personalize the screen with downloadable wallpapers and screensavers or liven up incoming calls with unique MP3 vocal ringtones. Note: This suite is unavailable as of December 1, 2007.

1.8.2.2   Suite Number 42

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
42	S	LG	C1300i	63723	Dual-band GSM cellular phone (folding, "clamshell" style)	0921142	1
	A	Universal	XS Leather Case	64385	Case with clip	921171	1
	A	Samsung	2.5MM Headset	63338	Over-ear headset	921172	1
	A	LG	C1300i Battery	64256	Replacement Battery	921173	1

The LG C1300i is a lightweight clam shell form-factor tri-band cellular phone operating on the GSM network. It provides instant messaging and web capabilities and features a vivid 65K color display as well as a Java engine. Features include: PIM Functionality -- Calendar with monthly/daily views, calculator, alarm clock and note pad, Voice Key Tones - Audio confirmation of key pad dialing, 850 & 1900 Mhz frequency capable, support for IRDA, 255 alphanumeric phonebook entries, with multiple numbers and text entries and Text Messaging. Talk Time is up to 3.4 Hrs and standby time is up to 10 Days. Note: This suite is unavailable as of December 1, 2007.

1.8.2.3   Suite Number 43

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
43	S	PalmOne	Treo 650 (EDGE)	63437	Personal Digital Assistant (PDA) with GSM Voice, EDGE Data, and Messaging	0921143	1
	A	HTC	8100/8125/ Treo650 Pouch	64329	Case with clip	921181	1
	A	Motorola	H500	64184	Over-ear headset	921162	1
	A	Palm	PM1650 1900MAH LI-ION	64353	Replacement Battery	921183	1

The Treo 650 represent complete solution to meet the requirements for a full-function 2.5G PDA with PIM capabilities and the ability to run additional

application software (both COTS as well as Government-specific). The Treo supports the requirement for cellular telephonic communication, wireless data transfer, wireless internet, SMS and Bluetooth. The Treo 650 is compliant with the requirements for SED #43. Note: This suite is unavailable as of December 1, 2007.

1.8.2.4   Suite Number 44

SUITE No.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
44	S	Sierra	AirCard 860	64204	Quad-band HSDPA/UMTS and EDGE/GPRS PCMCIA Type II Card for GSM Cellular Data Services	09211 44	1

The AirCard 860 provides global wireless access to the Internet, e-mail and corporate applications on HSDPA (High Speed Downlink Packet Access) capable UMTS networks. With HSDPA, the Sierra Wireless AirCard 860 provides speeds over 1 Mbps. The AirCard 860 operates on the North American 850MHz and 1900MHz WCDMA frequency bands, and is compatible with EDGE and GSM/GPRS networks worldwide. The AirCard 860 operates on any four GSM frequency bands (850, 900, 1800, and 1900MHz), when a WCDMA network is not available. Note: This suite is unavailable as of December 1, 2007.

1.8.2.5   Suite Number 45

SUITE No.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
45	S	Polycom	SoundStation 2	2200-16200-001	Conferencing Telephone Unit with Integral 360° Microphone	09111 45	1
	A	Polycom	Extension Microphone	2200-16155-001	Additional Microphone for SoundStation2	09111 86	2

Polycom makes the world's most popular conference phones, with nearly 2 million in use today. The SoundStation2 next generation conference phone redefines the standard for business quality voice conferencing. With industry-leading full duplex for natural, simultaneous two-way conversation, the SoundStation2 is perfect for medium to small conference rooms. Delivering remarkable voice quality equal to the SoundStation Premier® and a 50% increase in microphone sensitivity over the award-winning SoundStation®, users can speak in a normal voice and be heard clearly up to ten feet away. The SoundStation2 features a large backlit display that offers easily visible call information and telephone functions. Smart technology, such as Dynamic Noise Reduction (DNR), provide maximum microphone sensitivity, while reducing distracting room and background noise. And the SoundStation2 offers 360-degree microphone coverage with intelligent mixing – so only the microphone closest to the speaker is on for crystal clear conferencing. Still included are traditional telephone features like redial, mute, transfer, and hold.

1.8.2.6   Suite Number 46

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
46	S	IBM	802.11 a/b/g Wireless CardBus Adapter	███	███	███	███

The IBM 32Bit CardBus Type III adapter supports IEEE 802.11a/b/g networks to deliver connection flexibility and investment protection. It complies with the following wireless configurations: WPA and WPA-PSK, Cisco LEAP, CKIP, PEAP-GTC, LEAP+TKIP, EAP-TTLS, WPA2, EAP-FAST, AES, WMM. Advanced security features including AES, 128, 64, 0 bit Wired Equivalent Privacy (WEP),

and 802.1x authentication. 32-bit CardBus design supports PC Card hot-swapping with true plug and play connectivity and low power consumption.

██ is a critical component of secure wireless networks for the Federal government. As an 802.1x supplicant loaded on a client hardware device such as a laptop or PDA, it uses the user's credentials to mutual authenticate the user and the network. 802.1x is the designated access control method of the 802.11i security standard. Furthermore, ████████████████████████████

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1.8.2.7   Suite Number 47

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
47	B	Ciena	CN 2000	████	████ ████	████	█
	█	████	████	████ ████	████ ████	████	█
	█	████		████ ████	████████		
	█	████	████	████	████████		█
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	█	████	████	████	████████	████	█
					████████		

The CN 2000 Storage Extension Platform is a leading storage--SONET/SDH solution. Designed to connect data centers over distance, the CN 2000 reduces recurring bandwidth charges by up to 70% through hardware compression and Dynamic Bandwidth Assignment. The CN 2000 supports up

to 16 physically isolated Fiber Channel (FC), ESCON, FICONTM, and Gigabit Ethernet (GbE) ports, and is up to 80% less expensive than traditional channel extenders and FCIP-based devices. The CN 2000 allows a variety of applications, such as Storage Area Networking (SAN), Disk Mirroring, Remote Backup, Mainframe, Local Area Networking (LAN), Clustering, and Network Attached Storage (NAS) to share a single Wide Area Network (WAN) connection, simplifying network design and dramatically increasing bandwidth efficiency. Supporting WAN interfaces from DS3 through OC-48/STM-16 and GbE, the CN 2000 meets the most demanding enterprise requirements with the ability to scale as an enterprise's requirements change.

The CN 2000's compact footprint and the plug-and-play design simplify network operations. And Ciena's ON-Center™ CN 2000 Manager™ brings powerful network monitoring capabilities to inter data center connectivity, enabling enterprises to easily deploy and optimize their own Metro Area Network (MAN)/ WAN infrastructure.

1.8.2.8   Suites Number 48 and 49

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
48	B	Cisco	ONS 15454-SA-HD	███	████████	███	
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	██	███	██	████	█████	██	█
	██	███	██	███	████	███	█
	██	███	██	██	████	███	█
	██	███	██	██	███	███	█
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	██	███	██	████	█████	███	█
	██	███	██	████	█████	███	█

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
	▮	▮	▮	▮		▮	▮
	▮	▮	▮	▮	▮	▮	▮
	▮	▮	▮	▮	▮	▮	▮
	▮	▮	▮	▮	▮	▮	▮
	▮	▮	▮	▮	▮	▮	
49	B	Cisco	ONS 15454-SA-HD	▮	▮	▮	
	▮	▮	▮	▮	▮	▮	
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Cisco Systems is an industry leader for OWS and DWDM services. The Cisco ONS 15454 platform has the industry's optimum combination of - density, manageability, multi-protocol support, and availability/ redundancy. The 15454 is the industry's most cost effective, and integrated solution for supporting the OWS requirements of Set # 48 (Sections C.2.5.3, and C.2.5.4) For maximum flexibility, the 15454 integrates both DWDM and next-generation SONET into s single platform, thereby future-proofing the platform, and supporting the widest array of interfaces, from DS-1/3 to OC-192, from

10/100 to GE Ethernet, and from Fiber Channel to ESCON. Offering the advanced topology support, APS, and intelligent DWDM - the 15454 provides high reliability and available.

1.8.2.9   Suites Number 50 and 51

SUITE NO.	SED TYPE	MANU-FACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
50	B	Tandberg	Professional Package with 50" Plasma, Video Touch Panel, NPP, and 6000 MXP Codec	500981N	Video Teleconferencing Package	0911150	1
	C	Tandberg	A/V Cart with integrated DVD/VCR Combo and Elmo HV 5100XG High Resolution Document Camera	5010502	Audio Video Station Cart	0911113	1
	C	Tandberg	Unidirectional Microphone	111021	Table top microphones with unidirectional pick-up	0911144	1
	C	Tandberg	Stereo Loudspeaker Kit	113755	Audio Speaker Kit	0911114	1
51	B	Tandberg	6000 MXP - Single 34" XGA	11365012	Viewing Screen	0911151	1
	A	Tandberg	Natural Presenter Package	113820NPP	Video Teleconferencing Package	0911160	1
	C	Tanberg	Omnidirectional microphone	113353	Table top microphone with omnidirectional (360 degree) pick-up	0911146	1
	C	Tandberg	A/V Cart with integrated DVD/VCR Combo and Elmo HV 5100XG High Resolution Document Camera	5010502	Audio Video Station Cart	0911113	1
	C	Tandberg	Stereo Loudspeaker Kit	113755	Audio Speaker Kit	0911114	1

The Tandberg 6000 MXP is designed for medium- to large-sized meeting rooms and boardrooms, with high-end performance features, large monitors and CD Quality, stereo audio to create a collaborative meeting environment for even the largest groups. The 6000 MXP is expandable to support IP or Ethernet up to 6 Mbps, ISDN up to 2 Mbps, and V.35/RS-449 with RS-366

dialing up to 2 Mbps. Voice-only and voice-add calls over ISDN and IP are supported by the 6000 MXP. The A/V cart with the integrated DVD/VCR combo and Elmo HV 5100XG high resolution document camera provide provides the ability to show documents and objects, record video conferences, present DVD/VCR multimedia. The natural presenter package provides people video resolution support, while the stereo loudspeaker kit provides CD quality stereo sound. A 50" plasma screen is provided for the SED #50 configuration while a 34" XGA monitor is provide for the SED #51 configuration.

The Tandberg 6000 Professional Package includes:

- The AMX Modero Room Controller: Graphical interface video touch screen controller that controls all aspects of the video conference and peripherals, including cameras, VCRs, and DVDs
- W.A.V.E. II Camera: one main and one auxiliary; wide angle view 10x zoom, +15 degree/-20 degree tilt and +/- 95 degree pan; remote controlled
- Camera features: voice activated positioning; auto and manual focus/brightness/white balance; 15 near and far-end camera presets
- Microphone: One table top microphone with unidirectional pick-up, manufactured by Audio-Technica. Automatic room noise reduction; built-in gated mixer; ceiling or wall mountable

The Tandberg 6000 MXP includes:

- MXP Remote Control III Handheld Remote Controller: controls all aspects of the video conference and peripherals, including cameras VCRs and DVDs

- W.A.V.E. II Camera: one main camera; integrated and detachable; wide angle view, 10x zoom, +15 degree/-20 degree tilt and +/- 95 degree pan; remote controlled
  - Camera features: voice activated positioning; auto and manual focus/brightness/white balance; 15 near and far-end camera presets

The Tandberg 6000 Natural Presenter Package (NPP) includes:

- Microphones: One table top microphone with unidirectional pick-up, manufactured by Audio-Technica. Automatic room noise reduction; built-in gated mixer; ceiling or wall mountable

1.8.2.10 Suite Number 52

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
52	B	Cisco	7960 Phone	CP-7960G-SP	SIP telephone	0911152	1

The Cisco 7960 phone is the industry's most flexible, and feature rich phone, supporting multi-protocol licenses for SIP/MGCP, Cisco Call Manager, Cisco Call Manager Express, and Cisco BTS Softswitch licenses; in addition to an SDK for XML/ Menu and Feature customization.

1.8.2.11 Suite Number 53

SUITE NO.	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
53	S	XTEN	eyeBeam Softphone	N/A	SIP telephone software	0911153	1

The XTEN eyebeam Softphone provides software based voice, video and instant messaging communication over IP in a graphical, user-friendly application with a system footprint of less than 2MB. Built using open standards, clients are available for both Windows and MAC users. Easy to use graphical interface allows users to see all controls and settings at the same time. Provides extensive list of features including "do not disturb", call forwarding, call waiting, conference calling, caller ID, call rejection, adjustable video compression and image size, adding missed or dialed calls to the contact list, recording both voice and video calls and Instant messaging with Presence Support.

1.8.2.12   Nokia 2610

SED NAME	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
Nokia 2610	B	Nokia	2610	64681	Dual-band GSM cellular phone (non-folding, "candy bar" style)	922115	1
SIM	C	AT&T		71234	SIM Card	923118	1

Included Features

- Download MP3 ringtones, graphics, & games

- MEdia^{TM} Net wireless internet access

- Built-in speakerphone for hands free calls

- Instant messaging - AOL®, Yahoo!®, & MSN®

- Mobile email - Yahoo!®, Hotmail®, AOL®, & AIM®

- Preloaded MP3 ringtones, themes, and wallpapers

- Nokia Xpress audio messaging - send voice clips

- Personal organizer: contacts, calendar, and tasks

- Integrated alarm clock and calculator

- Large easy-to-use keypad

- Predictive text for quick typing

- Preloaded games

- Voice recorder

- Battery

- Travel Charger

- User Manual

- Quick Start Guide

Technical Specs

- Weight: 3.21 ounces

- Dimensions: 4.09 x 1.69 x .71 inches

- Talk Time: Up to 4 hours

- Standby Time: Up to 12.5 days

- 2 MB of internal memory

- Large easy to use keypad

- GPRS Class 6 data transmissions

- Dual-band phone - 850/1900 MHz

- CSTN color display up to 65,000 colors

- Phone book holds up to 300 contacts

- Warranty: One year warranty on the Nokia 2610 & accessories

- All talk, data & standby times depend on network configuration

1.8.2.13   Nokia 6085

SED NAME	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
Nokia 6085	B	Nokia	6085	64687	Quad-band & UMTS GSM Folding. Camera. Bluetooth	922118	1
SIM	C	AT&T		71234	SIM Card	923118	1

Included Features

- VGA camera with 4x zoom & video

- Stereo Bluetooth® capable

- Live video recording capabilities

- Download polyphonic ringtones, games, and video clips

- AT&T Music Folder - WMDRM player, MusicID, & Shop Music capable

- Access music, news, and more via the AT&T Music folder

- Instant Messaging with AIM®, Yahoo!®, and MSN®

- Picture and video messaging

- MEdia Net web browsing

- Mobile Email capabilities

- Quad-band world phone

- Calendar and Alarm Clock

- Nokia Xpress Audio Messaging

- Preloaded Java games and apps

- Speakerphone

Technical Specs

- Weight: 3.69 ounces

- Dimensions: 3.6 x 1.81 x 0.91 inches

- Talk Time: Up to 5 hours

- Standby Time: Up to 10 days

- Quad-band world phone - 850/900/1800/1900 MHz

- Data Transmission: GPRS class 10, EDGE class 10

- Music player supports MP3, MP4, AAC+, eAAC+, WMA

- AT&T Music Folder - WMDRM player, MusicID, and Shop Music capable

- CSTN color display with 128 x 160 pixels and 262,144 colors

- Warranty: One year on the Nokia 6085 and accessories

- All talk, data, and standby times depend on network configuration

1.8.2.14   Samsung Blackjack II

SED NAME	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
Samsung Blackjack	B	Samsung	Blackjack II	64777	3G Quad-band & UMTS GSM PDA. GPS. Camera. Bluetooth	922120	1
SIM	C	AT&T		71234	SIM Card	923118	1

Included Features

- Microsoft® Windows Mobile 6 Standard(TM)

- AT&T Mobile Music and Cellular Video capable

- Windows Media Player® 10 Mobile

- Bluetooth® 2.0 wireless connectivity

- Simultaneous voice and data capabilities

- Quad-band world phone with tri-band UMTS/HSDPA

- Slim design PDA with full QWERTY keyboard

- 2 MP camera with video recording

- Microsoft® Direct Push for real-time email delivery

- Microsoft Office Mobile® - Edit Word® and Excel®, view PowerPoint® files

- Email - Xpress Mail, ActiveSync, and more

- Synchronize your desktop and calendar wirelessly

- Instant Messaging - AOL®, Windows Live®, Yahoo!®

- GPS support for TeleNav Navigator

- Hands-free loudspeaker and microphone

- Large 2.4"color LCD screen

- Video Share calling support

- Fast loading HTML browser

- MEdiaTM Net capable

- RSS Reader

Technical Specs

- Weight: 3.52 ounces

- Dimension: 4.4 x 2.3 x. 0.4 inches

- Talk Time: Up to 7 hours

- Standby Time: Up to 14 days

- Tri-band domestic UMTS/HSDPA - 850/1900/2100 MHz

- Quad-band GSM/GPRS/EDGE - 850/900/1800/1900 MHz

- Microsoft Windows® Mobile(TM) 6

- 256 MB ROM / 128 MB RAM

- Large 2.4" 320x240 65k color LCD screen

- microSD(TM) expansion slot supports up to 4 GB

- Bluetooth® v2.0 for up to six simultaneous connections

- Warranty: 1 year on the phone and accessories

- All talk, data and standby times depend on network configuration

- Good mobile messaging support available in the near future

1.8.2.15   RIM Blackberry 8700c

SED NAME	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
RIM Black-berry 8700c	B	RIM	8700c	64725	Quad-band EDGE/GPRS Blackberry PDA. Bluetooth.	922133	1
SIM	C	AT&T		71234	SIM Card	923118	1

Included Features

- Email, phone, Internet, SMS, and organizer all-in-one

- Full 35-key QWERTY keyboard

- Bluetooth® wireless connectivity

- GSM and EDGE high-speed data access

- Quad-band global coverage

- Large 320 x 240 pixel color display

- Integrates with your existing enterprise email accounts

- Utilize up to 10 personal or business email accounts

- Push To Talk- Walkie Talkie style communication

- Polyphonic and MP3 ringtones

- Built in speakerphone

- Embedded RIM® wireless modem

Technical Specs

- Weight: 4.7 ounces

- Dimensions: 4.3 x 2.7 x 0.77 inches

- Talk Time: Up to 4 Hrs

- Standby Time: Up to 16 Days

- One year warranty on new phones & accessories, 90 days on refurbished

- Quad-band world phone - 850/900/1800/1900 MHz

- Memory: 64 MB flash memory, 16 MB SDRAM

- Processor: Intel® PXA901 at 312 MHz

1.8.2.16   RIM Blackberry Curve 8310T

SED NAME	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
SIM	C	AT&T		71234	SIM Card	923118	1

1.8.2.17   RIM Blackberry Curve 8310R

SED NAME	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
RIM Black-berry Curve 8310R	B	RIM	Curve 8310 R	64770	Quad-band EDGE/GPRS Blackberry PDA. Camera. Bluetooth.	922132	1
SIM	C	AT&T		71234	SIM Card	923118	1

Included Features

- BlackBerry email, messaging, and organizer in one sleek design

- The smallest, lightest full QWERTY BlackBerry available

- Easy-to-use intuitive trackball navigation

- Automatic wireless delivery of enterprise or personal email

- BlackBerry Enterprise Server® & BlackBerry Internet Service® email

- Large adjustable brightness light sensing screen

- 2.0 Megapixel camera with flash and 5x digital zoom

- Bluetooth® Wireless 2.0 with stereo headset support

- AT&T Mobile Music - streaming music, music ID and more

- Mobile Instant Messaging - Yahoo!®, AOL®, & Windows LiveTM (via download)

- Enhanced media player for music, videos, and photos

- MicroSD™ expansion card slot - add up to 2 GB memory

- PIM integration for contacts, tasks, and calendar

- New! BlackBerry email spell checker

- Integrated speakerphone, conference calling, and voice dialing

- Extended battery life - 4 hrs talk time; 17 days of standby

- Push to Talk - "Walkie-Talkie" style communication

- Global voice and data roaming in over 130 countries

- AT&T Mall - Shop for ringtones, games, and graphics

- Built-in support for Telenav® Maps and Telenav® GPS navigator

- Fast HTML browser to surf the web

- Text and Picture Messaging

Technical Specs

- Weight: 3.91 ounces

- Dimensions: 4.21 x 2.36 x 0.61 inches

- Talk Time: Up to 4 hours

- Standby Time: Up to 17 days

- Powerful 312 MHz processor

- Quad-band world phone - 850/900/1800/1900 MHz

- Operates on GSM, GPRS and EDGE networks

- Memory: 64 MB included flash memory

- MicroSD™ expansion slot for extra memory

- Bluetooth® Wireless v2.0 / USB 2.0 connectivity

- 3.5 mm headset jack accommodates stereo headset standards

- Large 65K color LCD screen with enhanced backlight

- Travel in over 135 countries with global voice and data roaming

- Powerful battery for longer talk and standby times

- Warranty: One year warranty on the BlackBerry Curve 8310 & accessories

- All talk, data & standby times depend on network configuration

1.8.2.18   RIM Blackberry Curve 8820

SED NAME	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
RIM Black-berry 8820	B	RIM	8820	64737	Quad-band EDGE/GPRS Blackberry PDA. Wi-Fi. Camera. Bluetooth.	923115	1
SIM	C	AT&T		71234	SIM Card	923118	1

Included Features

- Global BlackBerry plus WiFi and ultra-fast data connections

- BlackBerry email, messaging, and organizer all-in-one

- Easy-to-use intuitive trackball navigation

- Automatic wireless delivery of work and personal email

- BlackBerry Enterprise Server® & BlackBerry Internet Service® email

- View Microsoft® Word, Excel®, PowerPoint®, and Adobe® PDFs

- Large adjustable brightness light sensing screen

- Instant Messaging - Yahoo!®, AOL®, & Windows Live™ via download

- Bluetooth® Wireless 2.0 with stereo headset support

- AT&T Mobile Music for streaming music, XM Radio, and more

- Enhanced media player for music, videos, and photos

- MicroSD™ expansion card slot - add up to 2 GB memory

- PIM integration for contacts, tasks, and calendar

- Helpful setup wizard for email and personalization

- Integrated speakerphone, conference calling, & voice dialing

- Extended battery life - 5.5 hrs talk time; 24 days of standby

- Push to Talk - "Walkie-Talkie" style communication

- Global voice roaming in 190+ countries, data roaming in 135+ countries

- AT&T Mall - Shop for ringtones, games, and graphics

- Telenav® GPS Navigator and Telenav® Maps support

- Fast HTML browser to surf the web

- BlackBerry® Instant Messaging

- Text and Picture Messaging

Technical Specs

- Weight: 4.73 ounces

- Dimensions: 4.49 x 2.6 x .55 inches

- Talk Time: Up to 5.5 hours

- Standby Time: Up to 24 days

- Powerful 312 MHz processor

- Quad-band world phone - 850/900/1800/1900 MHz

- Operates on GSM, GPRS and EDGE networks

- Memory: 64 MB included flash memory

- MicroSD™ expansion slot for extra memory

- Stereo Bluetooth® Wireless 2.0 technology / USB 2.0 connectivity

- 2.5 mm headset jack accommodates stereo headset standards

- Large 65K color LCD screen with enhanced backlight

- Travel in over 190 countries with global voice roaming, and in over 135 countries with global data roaming

- Powerful battery for longer talk and standby times

- Warranty: One year warranty on the BlackBerry 8820 & accessories

- All talk, data, and standby times depend on network configuration

1.8.2.19   Option, Inc GT Ultra Express

SED NAME	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
Option, Inc GT Ultra Express	B	Option, Inc.	GT Ultra Express	64741	3G Quad-band HSDPA/UMTS and EDGE/GPRS Air Card. Express Card	922104	1
SIM	C	AT&T		71234	SIM Card	923118	1

Included Features

- Transform your laptop into a mobile office quickly and easily

- Send and receive email with large attachments on the go

- Access the internet and corporate business applications

- Global compatibility with international wireless standards

- Works on both 3G BroadbandConnect and EDGE networks

- OS support for Microsoft Windows Vista (32-bit), XP, and 2000

- Flip up antenna - Get optimal performance at the flip of an antenna

- Global wireless standards; tri-band UMTS/HSDPA/HSUPA & quad-band GPRS/EDGE

- Advanced Receiver Technology (ART) with Receive Equalizer and Receive Diversity

- Data Roaming in 125+ countries across GPRS / EDGE / UMTS / HSDPA / HSUPA networks

- Both simple to set up and easy to use software

Technical Specs

- Weight: 2.3 ounces

- Dimensions: 4.8 x 1.3 x 0.5 inches

- Includes multi-color LED status indicator

- Advanced Receiver Technology (ART)

- Flip up antenna for optimal performance

- Tri-band UMTS/HSDPA/HSUPA - 850/1900/2100 MHz

- Quad-band GPRS/EDGE - 850/900/1800/1900 MHz

- Downlink speeds of 600 Kbps-1.4 Mbps

- Uplink Speeds of 500-800 Kbps

- Supports Microsoft Windows Vista (32-bit), XP, and 2000 operating systems

- Works in notebooks with ExpressCard slots (34 mm and 54 mm)

- Compatible with Mac notebooks (Mac OS 10.3.9 or later)

- Warranty: one year on parts and accessories

- * 3G service is not available in all areas at all times

1.8.2.20   Option, Inc GT Ultra

SED NAME	SED TYPE	MANUFACTURER	MODEL	PART NUMBER	PART DESCRIPTION	DNRC CLIN	QUANTITY IN SUITE
Option, Inc GT Ultra	B	Option, Inc.	GT Ultra	64742	3G Quad-band HSDPA/UMTS and EDGE/GPRS Air Card. PCMCIA	922101	1
SIM	C	AT&T		71234	SIM Card	923118	1

Included Features

- Transform your laptop into a mobile office quickly and easily

- Works on AT&T's 3G BroadbandConnect and EDGE networks

- Access the internet and corporate business applications

- Send and receive email with large attachments on the go

- OS support for Microsoft Windows Vista (32-bit), XP, and 2000

- Retractable antenna - allows card to stay in laptop while traveling

- Global wireless standards; tri-band UMTS/HSDPA/HSUPA & quad-band GPRS/EDGE

- Advanced Reciever Technology (ART) with Receive Equalizer and Receive Diversity

Technical Specs

- Weight: 2.4 ounces

- Dimensions: 3.7 x 2.1 x 0.2 inches

- Multi-color LED status indicator

- Advanced Receiver Technology (ART)

- Tri-band UMTS/HSDPA/HSUPA - 850/1900/2100 MHz

- Quad-band GPRS/EDGE - 850/900/1800/1900 MHz

- Downlink speeds of 600 Kbps-1.4 Mbps

- Uplink Speeds of 500-800 Kbps

- Retractable antenna design- allows card to stay in laptop while traveling

- Warranty: one year on parts and accessories

- * 3G service is not available in all areas at all times

- OS support for Microsoft Windows Vista (32-bit), XP, and 2000

- Compatible with Mac notebooks - Mac OS 10.3.9 or later

1.8.3   SEDs for Optional Services [L.34.1.8.3]

For a proposed optional service(s), the offeror may propose additional priced SEDs. These additional optional SEDs shall be limited to those stand-alone or packaged priced SED items (including applicable and necessary configurable components and accessories) that can be input and listed within a maximum of 40 consecutive rows, per optional service, in Table L.34.1-8.

The offeror-defined optional service SEDs shall be proposed in a format identical to those used for location-based and/or service-specific mandatory service SEDs in Tables L.34.1-5, L.34.1-6 and L.34.1-7, except that in Table L.34.1-8 each input SED item shall be identified by the name of its associated optional service. As with mandatory service SEDs, the offeror shall separately describe how the optional service stand-alone or packaged SEDs being proposed will best meet the customer-premises and mobile equipment and software requirements of the Government's diverse user population.

The inputs to Table L.34.1-8 shall describe the make, model, manufacturer's part number, and part description of each SED item proposed for use with a proposed optional service, using by reference the proposed priceable SED item's DNRC CLIN found in Table L.34.1-5. Also, each SED item proposed shall be identified by its SED Type. The offeror shall identify each SED type by a single alpha acronym, i.e., an 'S' where it is stand-alone [see Section B.4.3.1], a 'B' where it is a base unit of a packaged SED [see Section B.4.3.2.1], a "C" where it is a configurable component for a packaged SED [see Section B.4.3.2.2]), or an 'A' for a SED Accessory [A], as each such SED type is specifically defined in Section B.4.

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1.8.4   Reserved [L.34.1.8.4]

1.8.5   SED Requirement Sets

1.8.5.1 General Requirements

The offeror shall propose SEDs for all mandatory services as required, and may propose SEDs for optional services. **[J.5]**

(1.8.5.1.1) Yes, AT&T will propose SEDs for all mandatory services as required.

The offeror shall propose SEDs in response to the location-based and service-specific SEDs requirement sets defined in Sections J.5.1 and J.5.2. **[J.5]**

(1.8.5.1.2) Yes, AT&T will propose SEDs in response to the location-based and service-specific SEDs requirement sets defined in Sections J.5.1 and J.5.2.

A separate proposed, numbered SEDs Suite shall be submitted for each numbered requirement set. **[J.5]**

(1.8.5.1.3) Yes, a separate proposed, numbered SEDs Suite will be submitted for each numbered requirement set.

Each proposed SEDs suite shall describe, for each numbered SEDs requirement set, the make, model, manufacturer's part number, part description, its offeror-selected Device Non-Recurring Charge (DNRC) CLIN, SED Type and quantity of each priceable SED item proposed in response to the specifics detailed in the requirement set **[J.5]**

(1.8.5.1.4) Yes, each proposed SEDs suite will describe, for each numbered SEDs requirement set, the make, model, manufacturer's part number, part description, AT&T-selected Device Non-Recurring Charge (DNRC) CLIN, SED Type and quantity of each priceable SED item proposed in response to the specifics detailed in the requirement set.

An offeror's proposed SEDs Suite shall consist of the inputs in all necessary rows needed to define and price the suite in the offeror's filled-out tables as described in Section L.34.1.8. **[J.5]**

(1.8.5.1.5) Yes, AT&T's proposed SEDs suites will consist of the inputs in all rows needed to define and price the suite with filled-out tables as described in L.34.1.8.

The numeric identifier used for each proposed SEDs Suite shall be identical to the identifier assigned to its associated SEDs requirement set. **[J.5]**

(1.8.5.1.6) Yes, the numeric identifier used for each proposed SEDs Suite will be identical to the identifier assigned to its associated SEDs requirement set.

Each proposed base unit of a packaged SED arrangement must also include sufficient configurable component(s) to reasonably satisfy a minimal customer requirement. **[J.5]**

(1.8.5.1.7) Yes, each proposed base unit of a packaged SED arrangement will also include sufficient configurable components to reasonable satisfy a minimum customer requirement.

The Section L.34.1.8 tables for optional service SEDs shall be submitted in an attachment to the Technical proposal, and the optional service SEDs pricing shall be submitted electronically to the NHC. **[J.5]**

(1.8.5.1.8) Yes, AT&T will submit the tables from Section L.34.1.8 for optional service SEDs as an attachment to the Technical proposal and submit optional service SEDs pricing electronically to the NHC for all proposed optional service SEDs.

In each SEDs Suite, the offeror shall propose hardware, firmware and software that are generally available from multiple manufacturers in the marketplace at the time of its initial proposal. **[J.5]**

(1.8.5.1.9) Yes, AT&T will propose in each SED Suite; hardware, firmware and software that are generally available from multiple manufacturers in the marketplace at the time of the initial proposal.

The proposed SED items shall not be manufacturer discontinued or from a product line considered by the Government to be close to the end of its expected service life. **[J.5]**

(1.8.5.1.10) Yes, the proposed SED items will not be manufacturer discontinued or from a product line considered by the Government to be close to the end of its expected service life.

Alternatively, the proposed SED items shall not be just-announced products that are not yet commercially available. **[J.5]**

(1.8.5.1.11) Yes, the proposed SED items will not be just-announced products that are not yet commercially available.

The Government requires that a proposed 10 year cost for forecast SEDs usage be included as part of the Total Evaluated Discounted Cost. **[J.5]**

(1.8.5.1.12) Yes, a proposed 10 year cost for forecast SEDs usage will be included as part of the Total Evaluated Discounted Cost.

1.8.5.2   Service-specific Requirement Sets

Set No. 41: Offeror shall propose a priceable SED for CPCS that shall meet the following functional requirements: **[J.5.2 (Set No.41)]**

(1.8.5.2.1) Yes, Set No. 41: AT&T will propose a priceable SED for CPCS that will meet the following functional requirements:

1. shall provide a CPCS SED that is commercially available and that is of a single form, unhinged (candybar) design **[J.5.2 (Set No.41) (1)]**

(1.8.5.2.2)Yes, AT&T will provide a CPCS SED that is commercially available and that is of a single form, unhinged (candybar) design

2. shall use any one, or a combination of, the following digital wireless networks:
(a) Dual-mode 800/1900 MHz CDMA (b) GSM (800/900/1800/1900 MHz) (c) iDEN **[J.5.2 (Set No.41) (2) (c)]**

(1.8.5.2.3) AT&T proposes SED Suites that operate on GSM (800/900/1800/1900MHz).

The contractor shall ensure that the proposed digital Phones support any one or both of Type I and Type II User-to-Network-Interfaces (UNIs) listed in Section C.2.14.1.3.1 in order to connect to the contractor's wireless network. **[J.5.2 (Set No.41) (3)]**

(1.8.5.2.4) Yes, AT&T will ensure that the proposed digital Phones support any one or both of Type I and Type II User-to-Network-Interfaces (UNIs) listed in Section C.2.14.1.3.1 in order to connect to AT&T's wireless network.

The digital Phones, as CPCS SEDs, shall deliver to the Agency subscribers the mandatory features listed in Section C.2.14.1.2.1. **[J.5.2 (Set No.41) (4)]**

(1.8.5.2.5) Yes, the digital Phones, as CPCS SEDs, will deliver to the Agency subscribers the mandatory features listed in Section C.2.14.1.2.1.

5. The digital Phones shall have the following additional features:
(a) Memory: 1.8 MB or more [J.5.2 (Set No.41) (5) (a)]

(1.8.5.2.6) Yes, The digital Phones will have the following additional features:

(a) Memory: 1.8 MB or more

5. The digital Phones shall have the following additional features:
(b) external, stub, or internal antenna **[J.5.2 (Set No.41) (5) (b)]**

(1.8.5.2.7) Yes, The digital Phones will have the following additional features:

(b) external, stub, or internal antenna

5. The digital Phones shall have the following additional features:
(c) Minimum digital talk time of 3.3 hours and digital standby time up to a minimum of 8 days with options for extended battery and for lighter battery **[J.5.2 (Set No.41) (5) (c)]**

(1.8.5.2.8) Yes, The digital Phones will have the following additional features:

(c) Minimum digital talk time of 3.3 hours and digital standby time up to a minimum of 8 days with options for extended battery and for lighter battery

5. The digital Phones shall have the following additional features:
(d) A minimum of 96x65 pixels screen size with a minimum of 4096 colors **[J.5.2 (Set No.41) (5) (d)]**

(1.8.5.2.9) Yes, The digital Phones will have the following additional features:

(d) A minimum of 96x65 pixels screen size with a minimum of 4096 colors

5. The digital Phones shall have the following additional features:
(e) Built-in wireless modem **[J.5.2 (Set No.41) (5) (e)]**

(1.8.5.2.10) Yes, The digital Phones will have the following additional features: (e) Built-in wireless modem

5. The digital Phones shall have the following additional features:
(f) Option for support of data cable **[J.5.2 (Set No.41) (5) (f)]**

(1.8.5.2.11) Yes, The digital Phones will have the following additional features: (f) Option for support of data cable

5. The digital Phones shall have the following additional features:

(g) Keypad/scroll navigation or equivalent **[J.5.2 (Set No.41) (5) (g)]**

(1.8.5.2.12) Yes, The digital Phones will have the following additional features: (g) Keypad/scroll navigation or equivalent

5. The digital Phones shall have the following additional features:
(h) Maximum weight of 114 grams. **[J.5.2 (Set No.41) (5) (h)]**

(1.8.5.2.13) Yes, The digital Phones will have the following additional features: (h) Maximum weight of 114 grams.

5. The digital Phones shall have the following additional features:
(i) Phone book/Incoming number save/Speed dial **[J.5.2 (Set No.41) (5) (i)]**

(1.8.5.2.14) Yes, The digital Phones will have the following additional features: (i) Phone book/Incoming number save/Speed dial

5. The digital Phones shall have the following additional features:
(j) Vibrate mode **[J.5.2 (Set No.41) (5) (j)]**

(1.8.5.2.15) Yes, The digital Phones will have the following additional features: (j) Vibrate mode

5. The digital Phones shall have the following additional features:
(k) Email/SMS **[J.5.2 (Set No.41) (5) (k)]**

(1.8.5.2.16) Yes, The digital Phones will have the following additional features: (k) Email/SMS

5. The digital Phones shall have the following additional features:
(l) Internet mini-browser **[J.5.2 (Set No.41) (5) (l)]**

(1.8.5.2.17) Yes, The digital Phones will have the following additional features: (l) Internet mini-browser

5. The digital Phones shall have the following additional features:
(m) Clock/Calculator/Calendar **[J.5.2 (Set No.41) (5) (m)]**

(1.8.5.2.18) Yes, The digital Phones will have the following additional features: (m) Clock/Calculator/Calendar

5. The digital Phones shall have the following additional features:
(n) Emergency position location capability in support of E-911. **[J.5.2 (Set No.41) (5) (n)]**

(1.8.5.2.19) Yes, The digital Phones will have the following additional features: (n) Emergency position location capability in support of E-911.

6. The digital Phones shall have the following additional features:
(a) Case with a built-in belt clip for firm attachment to a waist belt or purse strap. **[J.5.2 Set No.41]**