

EXCHANGE ACCESS SWITCHED MULTI-MEGABIT DATA SERVICE*

A. GENERAL

Exchange Access Switched Multi-megabit Data Service (XASMDS) is a connectionless, packet-switched data service allowing for the interconnection of Local Area Networks (LANs) or other compatible customer-provided equipment across a wide area for the purpose of intrastate interLATA access.

B. REGULATIONS

1. Explanation of Terms

Subscriber Network Access Line

The Subscriber Network Access Line (SNAL) represents the point at which customer-provided equipment (CPE) interfaces to the network supporting XASMDS. At this interface point, the CPE connects to a dedicated digital line which terminates on the SMDS Switch. Only data originating from or destined for CPE belonging to a particular subscriber is transported across this line. There are three types of high-speed Access Paths: 1.17 Mbps, 1.54 Mbps and 34 Mbps; and one type of low-speed Access Path: 56 Kbps. Customers subscribing to a 1.17 Mbps Access Path may elect a 1.17 Mbps SNAL. Customers subscribing to a 1.54 Mbps Access Path may elect a 1.54 Mbps SNAL. Customers subscribing to a 34 Mbps Access Path may elect Access Class SNALs of 4 Mbps, 10 Mbps, 16 Mbps, 25 Mbps, or 34 Mbps. Customers subscribing to a 56 Kbps Access Path may elect a 56 Kbps SNAL.

SMDS Data Exchange Interface

SMDS Data Exchange Interface (DXI) defines how the CPE communicates with the SMDS network across the low-speed SNAL or the high-speed SNAL. The DXI is available on dedicated digital SNALS operating over metallic or fiber facilities at a maximum data transmission rate of 56 Kbps and dedicated digital SNALS operating over electrical or fiber facilities at a maximum data transmission rate of 1.544 Mbps.

SMDS Interface Protocol

SMDS Interface Protocol (SIP) defines how the CPE communicates with the SMDS network across the high-speed SNAL. The SIP is available on dedicated digital SNALS operating over electrical or fiber facilities at a maximum data transmission rate of 1.17 Mbps and dedicated digital SNALS operating over fiber facilities at a maximum sustained throughput rate of 34 Mbps.

SMDS Address

SMDS Address identifies a single, unique SNAL. This address assignment is a ten-digit number, following a prefix of "1", structured according to the International Telegraph and Telephone Consultative Committee (CCITT) Recommendation E.164 and the North American Numbering Plan (NANP).

InterCarrier Interface

The InterCarrier Interface (ICI) specifies how an XASMDS switch sends and receives data to or from a customer's network. The ICI does not support address validation or address screening.

* Effective May 29, 2002, Exchange Access SMDS is no longer available to new customers.

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B. REGULATIONS (Cont'd)

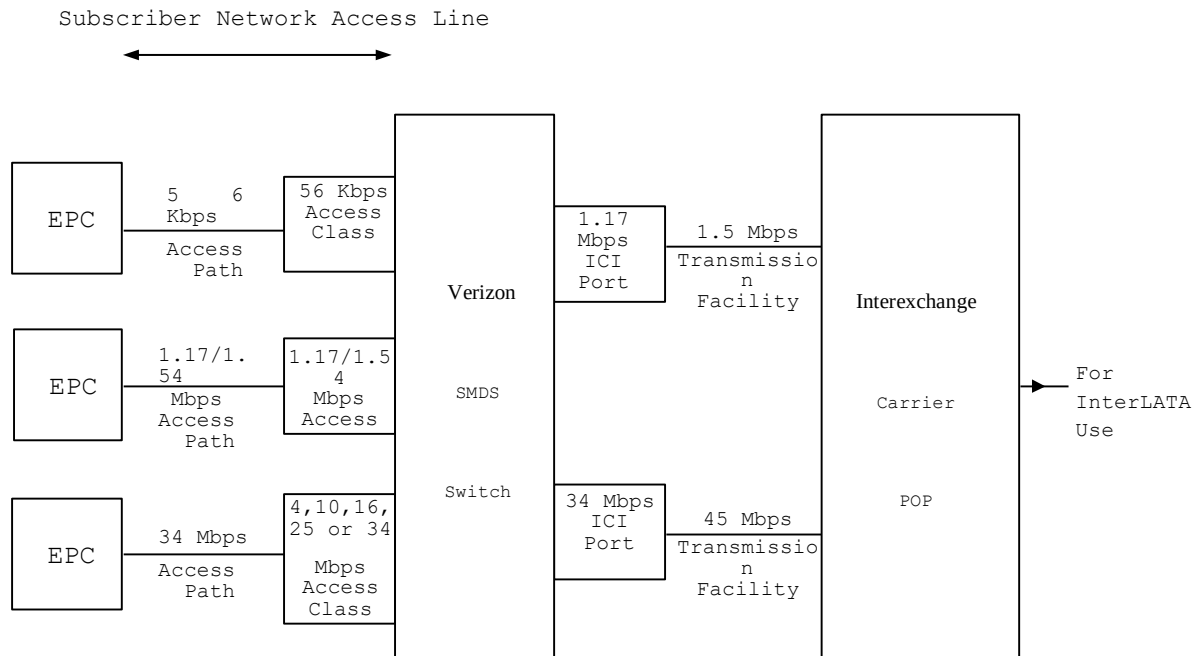
1. Explanation of Terms(Cont'd)

InterCarrier Interface Port Connection

The InterCarrier Interface (ICI) Port Connection is the point at which an intercarrier customer's transmission facility terminates on a SMDS switch. ICI Port Connections are available at access speeds of 1.17 and 34 Mbps.

2. XASMDS will allow end-user customers who have requirements for intrastate interLATA connectivity to interconnect their multiple premises, within a LATA, via a low-speed or high-speed Subscriber Network Access Line from the customer's premises to an interexchange carrier (IC) when intrastate interLATA service is requested.

The following diagram depicts a generic view of the components of XASMDS Service and the manner in which the components are combined to provide a complete XASMDS connection.



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B. REGULATIONS (Cont'd)

3. A low-speed SMDS Subscriber Network Access Line is a dedicated digital line, utilizing the SMDS Data Exchange Interface (DXI). The low-speed dedicated digital line operates over metallic facilities or fiber facilities at a maximum data transmission rate of 56 Kbps.
4. A high-speed SMDS Subscriber Network Access Line is a dedicated digital line, utilizing the SMDS Interface Protocol (SIP) or the Data Exchange Interface (DXI). There are two types of high-speed dedicated digital lines. The first type operates over electrical facilities or fiber facilities at a maximum data transmission rate of 1.17 Mbps via SIP or 1.54 Mbps via DXI. The second type operates over fiber facilities at a maximum sustained throughput rate of 34 Mbps via SIP only. Subscribers who do not require the ability to transmit data at the maximum rate of 34 Mbps for sustained periods may subscribe to a lower rate via an Access Class arrangement. The Access Classes are 4 Mbps, 10 Mbps, 16 Mbps, 25 Mbps, and 34 Mbps.
5. Each Subscriber Network Access Line is assigned at least one SMDS address, with a maximum up to 16 addresses for high-speed and two addresses for low-speed, which identifies a single unique Subscriber Network Access Line.
6. Each Subscriber network access line may have associated with it one Address Screen, which is used to enforce restrictions on the delivery of SMDS data units from particular sources, and the transmittal of SMDS data units to particular destinations. The Address Screen contains a list of up to 128 individual addresses and group addresses.
7. The customer has the option of designating the screen as either a list of addresses "allowed" or "disallowed" to send to or receive data from the customer's address.
8. InterCarrier Interface Port Connection

The ICI Port Connection provides an electrical interface for a customer's 1.5 Mbps transmission facility with B8ZS and ESF or a 45 Mbps transmission facility with B3ZS. ICI Port Connections are available at port interface speeds of 1.17 Mbps and 34 Mbps. 1.544 Mbps and DS3-rated channel terminations specified in Section 7 may be used as the transmission facility. 44.736 Mbps-rated channel terminations specified in Section 7 are offered on an ICB basis.

Originating XASMDS

Originating XASMDS for an ICI Port Connection refers to Verizon delivering, on an originating basis, an end-user's data to the IC of the end-user's choice when interexchange service is requested.

Terminating XASMDS

Terminating XASMDS for an ICI Port Connection refers to Verizon delivering on a terminating basis, data arriving from a customer's switch to end-users that Verizon serves directly via the end-user's SNAL.

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B. REGULATIONS (Cont'd)

9. Provision of Service

a. The XASMDS service basic subscription will consist of:

- (1) one SMDS Subscriber Network Access Line from the customer's premises to the central office specially equipped with the SMDS Switch, the ICI Port Connection and digital transmission facility for handoff to the IC.
- (2) one SMDS address assigned to the subscriber network access line,
- (3) formation of the initial address screen, and
- (4) unlimited usage.

b. The basic service functionality consists of transporting intrastate interLATA SMDS data units from one subscriber network access line to one or more other subscriber network access line(s) via an IC. Each SMDS data unit is delivered unchanged from the source to the destination(s).

c. Volume and Term Pricing (VTP)

XASMDS customers have the option of subscribing to month-to-month, three-year and five-year contract plans, and to various high-speed and low-speed volume pricing options as indicated below:

High-Speed Pricing Options

- 1) 1 to 4 SMDS SNALs
- 2) 5 to 10 SMDS SNALs
- 3) Over 10 SMDS SNALs

Low-Speed Pricing Options

- 1) 1 to 75 SMDS SNALs
- 2) 76 to 150 SMDS SNALs
- 3) Over 150 SMDS SNALs

Customers subscribing to a month-to-month contract plan are subject to a four-month minimum service period for each SNAL. Customers subscribing to a three-year or five-year VTP may add or disconnect SNALs to effect volume pricing options based on a three-year or five-year contract plan subject to the minimum service periods set forth in 13. following.

d. The ICI Port Connections are available at port interface speeds of 1.17 and 34 Mbps on a month-to-month basis only.

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B. REGULATIONS (Cont'd)

9. Provision of Service (Cont'd)

e. Access Path and Access Classes

The customer has the option of subscribing to: (1) a 1.17 high-speed Access Path which allows for the election of a 1.17 Mbps Access Path SNAL; (2) a 1.54 high-speed Access Path which allows for the election of a 1.54 Mbps Access Path SNAL; (3) a 34 Mbps Access Path which allows for the election of Access Class SNALs of 4 Mbps, 10 Mbps, 16 Mbps, 25 Mbps, or 34 Mbps; or (4) a 56 Kbps low-speed Access Path which allows for the election of a 56 Kbps Access Path SNAL. For each Access Path, the customer has the option of subscribing to a month-to-month plan, a three-year plan, or a five-year plan with various volume pricing options.

For 34 Mbps high-speed Access Paths, if fiber facilities are required to furnish service in the customer's serving area and are not already in existence and the Telephone Company has not planned to equip that serving area with fiber facilities, the customer may only subscribe to the service under a three-year or five-year contract plan.

10. Optional Features

The following Optional Features will be provided where available:

a. Additional Addresses per Subscriber Network Access Line

This feature provides the assignment of additional SMDS addresses (more than one address) to the SNAL. Each high-speed SNAL may have up to 16 SMDS addresses. Each low-speed SNAL may have up to 2 SMDS addresses.

b. Group Address

This feature allows a customer to send a single data unit to several intended recipients. The recipients are identified by a group address, used as the destination address of the SMDS high-speed and low-speed data unit. A group address represents up to 48 (or more as new technology permits) individual addresses. Any particular individual address may be identified by up to 7 group addresses.

c. Customer Network Management System (CNM)

The Customer Network Management System provides network management capabilities using the Simple Network Management Protocol (SNMP). CNM allows real-time status reporting of the customer's high-speed SNAL(s) and offers statistical reports upon request.

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B. REGULATIONS (Cont'd)

11. Availability of Services

XASMDS Access Paths require special equipment and facilities and will only be provided from digitally equipped central offices. XASMDS will be offered on a 24-hour day, 7-day week basis, with the following exception:

To meet customers' requirements, Verizon must occasionally perform network upgrades. These network upgrades are needed to provide improved performance and new features. Generally, these upgrades will be performed between the hours of 11 p.m. and 8 a.m. Network upgrades will be planned to provide customers reasonable and timely notification and to minimize customer service impacts.

12. Connections

Terminal equipment to be provided by the customer must meet the following interface requirements:

- a. The customer shall provide compatible equipment (e.g., routers, Data Service Units/Channel Service Units, etc.) in accordance with the interface specifications as described in Bellcore Technical Reference TR-TSV-000772 and TR-TSV-000773 for 1.17 Mbps and 34 Mbps Access Paths, and TR-TSV-001239 for 56 Kbps and 1.54 Mbps Access Paths. All ICI access facilities must be in conformance with either the Siemens document EWSM® Feature Technical Description, "DS1/DS3 Interexchange Carrier Interface (IMG)", Issue 2 May 1993, or the Bellcore Technical Reference TR-TSV-001060, "Switched MultiMegabit Data Service: generic requirements for Exchange Access and InterCompany Serving Arrangements", Issue 1 March 1993.

XASMDS is generally available and is ordered through the access service order process. The Access Order Service Data Interval for XASMDS is negotiated.

- b. The Telephone Company's responsibility will be limited to the furnishing of data communication facilities suitable for the digital subscriber network access line, for provisioning the SNAL to the customer's premises network interface and for provisioning the ICI port for connection to the I.C. The customer may not rearrange, disconnect, remove or attempt to repair any facilities installed by the Telephone Company.
- c. The Telephone Company is not responsible for the installation, operation or maintenance of any equipment provided by the customer.
- d. The customer is responsible for provisioning the inside wire from the network interface to the SMDS-compatible equipment.

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B. REGULATIONS (Cont'd)

13. Minimum Service Period for XASMDS Service

56 Kbps, 1.17 Mbps, 1.54 Mbps and 34 Mbps Access Paths

For a 56 Kbps, 1.17 Mbps and 1.54 Mbps Access Path, each SNAL is subject to a minimum payment period of 4 months for month-to-month service; 36 months for a three-year contract plan, or 60-months for a 5-year contract plan. For a 34 Mbps Access Path, the preceding applies if, at the time of subscription, the facilities are already in existence or are planned to be in existence in the customer's serving area. If 56 Kbps, 1.17 Mbps, 1.54 Mbps or 34 Mbps service is disconnected prior to the expiration of the initial period for each plan, termination liability charges are applicable for the remaining portion of the minimum period, whether service is used or not. The termination liability charge will be reduced by 1/4 for the month-to-month service, 1/36 for the three-year contract plan, or 1/60 for the five-year contract plan for each month of service.

For a 34 Mbps service, if the customer's serving area is not equipped with fiber facilities and the Telephone Company has no immediate plans to equip that serving area with fiber facilities, the customer may only subscribe to the service under the three-year or five-year contract plan.

A change between the low-speed Access Path (i.e., 56 Kbps) and the high-speed 1.17/1.54 Mbps Access Path (i.e., 1.17/1.54 Mbps) and high-speed 34 Mbps Access Path (i.e., 4, 10, 16, 25, and 34 Mbps Access Classes) and vice versa will be treated as an Administrative Change.

An upgrade between Access Classes associated with the 34 Mbps Access Path (i.e., 4, 10, 16, 25, and 34 Mbps) will be treated as an Administrative Change.

A customer request to change a contract plan to one of a longer commitment period will nullify the existing termination liability charges. All terms and conditions associated with the new contract plan will apply.

If, at the end of the contract period, a new contract plan has not been agreed to, the customer's service will revert to the month-to-month payment plan.

14. Administrative Change Charges

There are two types of Administrative Changes:

a. Changes between Optional Features, Access Classes and ICI Port Connections

This charge applies to any subsequent changes made to Optional Features, changes made between Access Classes (i.e., 4, 10, 16, 25, and 34 Mbps) or any change in ICI port connection upgrades from 1.17 Mbps to 34 Mbps.

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B. REGULATIONS (Cont'd)

14. Administrative Change Charges (Cont'd)

b. Changes between Access Paths

This charge applies to any changes made between Access Paths.

15. Waiving of Installation Charge

The Telephone Company may, from time to time, during a period specified by the Telephone Company, waive the XASMDS Installation Charge for a ninety-day period.

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C. RATES

1. SMDS Subscriber Network Access Line, each

a. 56 Kbps Access Path, per SNAL

Month-to-Month Contract	Installation Charge	Per Month
1 to 75 SNALs	\$ 930.00	\$225.00
76 to 150 SNALs	930.00	225.00
Over 150 SNALs	930.00	225.00
3-year Contract		
1 to 75 SNALs	930.00	210.00
76 to 150 SNALs	930.00	205.00
Over 150 SNALs	930.00	200.00
5-year Contract		
1 to 75 SNALs	930.00	190.00
76 to 150 SNALs	930.00	185.00
Over 150 SNALs	930.00	180.00

b. 1.17/1.54 Mbps Access Path, per SNAL

Month-to-Month		
1 to 4 SNALs	1000.00	570.00
5 to 10 SNALs	1000.00	550.00
Over 10 SNALs	1000.00	525.00
3-year Contract		
1 to 4 SNALs	1000.00	525.00
5 to 10 SNALs	1000.00	500.00
Over 10 SNALs	1000.00	475.00
5-year Contract		
1 to 4 SNALs	1000.00	500.00
5 to 10 SNALs	1000.00	475.00
Over 10 SNALs	1000.00	450.00

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C. RATES (Cont'd)

1. SMDS Subscriber Network Access Line, each (Cont'd)

c. 34 Mbps Access Path (4, 10, 16, 25,
and 34 Mbps Access Classes), per SNAL

Month-to-Month	Installation <u>Charge</u>	Per <u>Month</u>
4 Mbps Access Class		
1 to 4 SNALs	\$2000.00	\$2000.00
5 to 10 SNALs	2000.00	1950.00
Over 10 SNALs	2000.00	1900.00
10 Mbps Access Class		
1 to 4 SNALs	2000.00	2500.00
5 to 10 SNALs	2000.00	2300.00
Over 10 SNALs	2000.00	2200.00
16 Mbps Access Class		
1 to 4 SNALs	2000.00	3000.00
5 to 10 SNALs	2000.00	2800.00
Over 10 SNALs	2000.00	2700.00
25 Mbps Access Class		
1 to 4 SNALs	2000.00	3500.00
5 to 10 SNALs	2000.00	3300.00
Over 10 SNALs	2000.00	3200.00
34 Mbps Access Class		
1 to 4 SNALs	2000.00	4000.00
5 to 10 SNALs	2000.00	3700.00
Over 10 SNALs	2000.00	3600.00

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C. RATES (Cont'd)

1. SMDS Subscriber Network Access Line, each (Cont'd)

c. 34 Mbps Access Path (4, 10, 16, 25,
and 34 Mbps Access Classes), per SNAL (Cont'd)

3-Year Contract	Installation <u>Charge</u>	<u>Per Month</u>
4 Mbps Access Class		
1 to 4 SNALs	\$2000.00	\$1950.00
5 to 10 SNALs	2000.00	1900.00
Over 10 SNALs	2000.00	1900.00
10 Mbps Access Class		
1 to 4 SNALs	2000.00	2300.00
5 to 10 SNALs	2000.00	2200.00
Over 10 SNALs	2000.00	2200.00
16 Mbps Access Class		
1 to 4 SNALs	2000.00	2800.00
5 to 10 SNALs	2000.00	2700.00
Over 10 SNALs	2000.00	2600.00
25 Mbps Access Class		
1 to 4 SNALs	2000.00	3300.00
5 to 10 SNALs	2000.00	3200.00
Over 10 SNALs	2000.00	3100.00
34 Mbps Access Class		
1 to 4 SNALs	2000.00	3700.00
5 to 10 SNALs	2000.00	3500.00
Over 10 SNALs	2000.00	3300.00

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C. RATES (Cont'd)

1. SMDS Subscriber Network Access Line, each (Cont'd)

c. 34 Mbps Access Path (4, 10, 16, 25,
and 34 Mbps Access Classes), per SNAL (Cont'd)

5-Year Contract	Installation <u>Charge</u>	Per <u>Month</u>
4 Mbps Access Class		
1 to 4 SNALs	\$2000.00	\$1900.00
5 to 10 SNALs	2000.00	1900.00
Over 10 SNALs	2000.00	1900.00
10 Mbps Access Class		
1 to 4 SNALs	2000.00	2200.00
5 to 10 SNALs	2000.00	2100.00
Over 10 SNALs	2000.00	2000.00
16 Mbps Access Class		
1 to 4 SNALs	2000.00	2700.00
5 to 10 SNALs	2000.00	2600.00
Over 10 SNALs	2000.00	2500.00
25 Mbps Access Class		
1 to 4 SNALs	2000.00	3200.00
5 to 10 SNALs	2000.00	3000.00
Over 10 SNALs	2000.00	2800.00
34 Mbps Access Class		
1 to 4 SNALs	2000.00	3500.00
5 to 10 SNALs	2000.00	3300.00
Over 10 SNALs	2000.00	3100.00

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C. RATES (Cont'd)

d. ICI Port Connection, per port	Installation <u>Charge</u>	Per <u>Month</u>
Month-to-Month		
1.17 Mbps	\$ 260.00	\$ 355.00
5 to 10 SNALs	300.00	1700.00
3. Optional Features:		
Additional Address assigned to the Subscriber Network Access Line, each	12.00	-
Address, each	50.00	-
Customer Network Management System	100.00	50.00
4. Administrative Change Charges		
Any changes made to optional features or upgrades between Access Classes (4 Mbps to 34 Mbps), or any change in ICI Port upgrades from 1.17 Mbps to 34 Mbps, each \$ 50.00	-	-
Changes between Access Paths (56 Kbps, 1.17 Mbps, 1.54 Mbps and 34 Mbps, each 1000.00	-	-

