

1. X.25<sup>1</sup> SERVICE DESCRIPTION

A. GENERAL DEFINITION

X.25 is a basic network service that provides for IntraService Area network transport for low speed data. The service provides for the routing of packets of digital information through the X.25 network by concentrating them on digital transmission facilities at transmission speeds less than or equal to 56 Kbps. A packet is a continuous sequence of binary digits of information which is switched through the network as an integral unit. A packet consists of up to 512 characters of end user data plus control and error information. These characters are groups of eight binary digits and are also called octets.

The types of services offered include public dial access, private dial access, dedicated access (analog, X.25, DOV<sup>/2/</sup>) and X.75 interconnection used by IECs/VANs to connect other packet switching networks to the X.25 Network.

(N)

Connection and usage charges will apply.

B. AVAILABILITY

X.25 will be furnished only for intraService Area data transport where central offices are equipped to provide this service and where facilities are available. The Company will not transport packets across LATA boundaries.

Service may be unavailable or disrupted between the hours of 2 a.m. and 5 a.m. each Thursday for network maintenance routines.

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2 and Part 4 Section 5.

/2/ Frozen/Grandfathered, Digital Data Over Voice (DDOV), effective April 20, 2012; To be withdrawn effective July 1, 2012.

(N)  
(N)

1. X.25<sup>1</sup> SERVICE DESCRIPTION

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The types of services offered include public dial access, private dial access, dedicated access (analog, X.25, DOV) and X.75 interconnection used by IECs/VANs to connect other packet switching networks to the X.25 Network.

Connection and usage charges will apply.

## B. AVAILABILITY

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Service may be unavailable or disrupted between the hours of 2 a.m. and 5 a.m. each Thursday for network maintenance routines.

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1. X.25<sup>1</sup> SERVICE DESCRIPTION

## C. SERVICES OFFERED

## 1. Access to Public Dial Connections

- a. This is dial connection which allows the general public the ability to enter the the Company X.25 Network in order to access a wide range of host computers and data services.
- b. Connection to the Public Dial Connections is made via exchange telephone service by dialing an area code, if necessary, and the seven (7) digit telephone number.
- c. Connection provides capability of transmitting data through modem carriers up to 3300 Hz. where network equipment permits.
- d. General public can only originate calls on these lines.
- e. Public Dial Connection charges do not include the end user's telephone service to access the Public Dial Connection.
- f. Usage rate charges and per minute charges on public dial connections will be reversed charged to the terminating interface.

Reverse charge usage rate elements are separated into call set-up, segments sent and/or received, initial and additional minutes.

- g. Appropriate local, toll, and ZUM charges are billed to the end user originating the call to a Public Dial Connection.
- h. To preclude operator interruption, dial access is not recommended from coin operated telephones except on a third party or credit card basis.
- i. Public dial connections are owned by the Company and cannot be purchased by the subscriber.
- j. Optional subscriber features cannot be purchased by a subscriber on a public dial connection.
- k. Lists of public dial access numbers will be updated quarterly. Customers may contact the Company for current access numbers.

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.

1. X.25<sup>1</sup> SERVICE DESCRIPTION

C. SERVICES OFFERED (cont'd)

2. Private Dial Connections

- a. Private Dial Connections are leased by a customer for the use of the customer's end users, to call the customer's data network address (DNA) on the packet network.
- b. Service provides data transmission capability at speeds of less than or equal to 2400 bps.
- c. End users can only originate calls on these lines.
- d. Usage rate elements are separated into call set-up and segments sent and/or received.
- e. Private Dial Connection charges do not include the end user's telephone service to access the Private Dial Connection.

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.

1. X.25<sup>1</sup> SERVICE DESCRIPTION

## C. SERVICES OFFERED (cont'd)

## 2. Private Dial Connections (cont'd)

- f. Service provides optioned subscriber network features as follows:
  - Permanent Virtual Circuits
  - Fast Select Initiate
  - Hunt Groups External
  - Closed User Groups (CUGS) with sub options:
    - 1. Basic, required for each separate CUG in which DNA is a member
    - 2. Outgoing calls allowed to the open X.25 network
    - 3. Outgoing calls allowed within the closed user group
  - Negotiation Capability
  - Busy Call Forwarding
  - Delayed Call Forwarding
  - Busy and Delayed Call Forwarding
  - Busy Call Forwarding - Extended
  - Direct Call
- g. Appropriate local, toll and ZUM charges are billed to the end user originating the call to a Private Dial Connection.
- h. Usage originating from Private Dial Connections will be differentiated as either sent paid or reverse charged.
- i. Busy Call Forwarding, Delayed Call Forwarding, Busy and Delayed Call Forwarding and Busy Call Forwarding - Extended are available only on Private Dial Connections.
- j. One logical channel is included with each interface. Private Dial interfaces are limited to a single logical channel and are therefore unable to support multiple logical channels.
- k. Private dial connections may be associated with Foreign Exchange (FXS) or Custom 800 service.

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.

1. X.25<sup>1</sup> SERVICE DESCRIPTION

## C. SERVICES OFFERED (cont'd)

## 3. Dedicated Analog Interface

- a. Primarily designed for, but not limited to, customers who will require extended use, added features or both.
- b. Provides capability of connecting customer DTE to the X.25 network via a dedicated Series 3002 channel at transmission speeds less than or equal to 2400 bps asynchronous.
- c. Requires use of data terminal equipment meeting the Company's X.25 network interface specifications.
- d. Provides send and receive capability.
- e. Dedicated analog interface connection charges do not include the end user's access facility used to access the dedicated analog interface.
- f. Supports the following optional subscriber network features:
  - Permanent Virtual Circuits
  - Fast Select Initiate
  - Hunt Groups Internal
  - Closed User Groups (CUGS) with sub options:
    1. Basic, required for each separate CUG in which DNA is a member
    2. Incoming and outgoing calls limited to customer's CUG. No calls allowed to or from the open X.25 network
    3. Incoming calls allowed from the open X.25 network
    4. Outgoing calls allowed to the open X.25 network
    5. Incoming calls allowed within the closed user group
    6. Outgoing calls allowed within the closed user group
  - DTE Back-up
  - Negotiation Capability
  - Reverse Charge Acceptance
  - Direct Call
  - Mnemonic Addressing
- g. One logical channel is included with each interface. Dedicated analog interfaces are limited to a single logical channel and are therefore unable to support multiple logical channels.

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.

1. X.25<sup>1</sup> SERVICE DESCRIPTION

## C. SERVICES OFFERED (cont'd)

## 4. Dedicated Digital Interface - (X.25)

- a. Primarily designed for, but not limited to, customers who will require extended use, added features or both.
- b. Provides capability of connecting customer DTE to the X.25 network via a dedicated digital channel using X.25 protocol at transmission speeds of 2.4, 4.8, 9.6, or 56 Kbps synchronous.
- c. Requires use of data terminal equipment meeting the Company's X.25 network interface specifications.
- d. Provides send and receive capability.
- e. Dedicated Digital Interface Connection charges do not include the digital facility used to access the Dedicated Digital Interface.
- f. Supports the following optional subscriber network features:
  - Permanent Virtual Circuits
  - Fast Select Initiate
  - Fast Select Acceptance
  - Hunt Groups Internal
  - Closed User Groups (CUGS) with sub options:
    1. Basic, required for each separate CUG in which DNA is a member
    2. Incoming and outgoing calls limited to customer's CUG. No calls allowed to or from the open X.25 network
    3. Incoming calls allowed from the open X.25 network
    4. Outgoing calls allowed to the open X.25 network
    5. Incoming calls allowed within the closed user group
    6. Outgoing calls allowed within the closed user group
  - DTE Back-up
  - Negotiation Capability
  - Reverse Charge Acceptance
  - Direct Call
  - Additional logical channels
  - Multiple DNAs
  - Mnemonic Addressing
- g. One logical channel is included with each interface. A maximum of 4095 logical channels may be ordered per Dedicated Digital Interface. However, a practical limit of logical channels assigned to a single interface should be determined or a significant degradation of service may occur.

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.

1. X.25<sup>1</sup> SERVICE DESCRIPTION

## C. SERVICES OFFERED (cont'd)

5. Dedicated Digital Interface – DOV<sup>/2/</sup> (N)
- a. Provides capability of connecting a customer's Data Voice Multiplexer to the X.25 network via a dedicated local exchange telephone business line with Digital Data Over Voice (DOV) option. DOV is a multiplexed data over voice technology, which allows both voice and data services on one copper pair facility. The data portion is split off at the central office and can be interconnected to the X.25 Network for transmission to a host or VAN location.
  - b. Provides capability of connecting customer DOV logical channel to the X.25 network via a dedicated DOV access line. Dedicated DOV interface uses ITI protocol at a Transmission speed of 2400 bps/ or 9600 bps.
  - c. Provides originate call and terminate capability only.
  - d. Channel charges do not include the DOV facility used to access the X.25 Interface.
  - e. Supports the following optional subscriber network features:
    - Closed User Groups (CUGS) with sub options:
      1. Basic, required for each separate CUG in which DNA is a member
      2. Incoming and outgoing calls limited to customer's CUG. No calls allowed to or from the open X.25 network
      3. Incoming calls allowed from the open X.25 network
      4. Outgoing calls allowed to the open X.25 network
      5. Incoming calls allowed within the closed user group
      6. Outgoing calls allowed within the closed user group
    - Direct Call
    - Hunt Groups, Internal
  - f. One logical channel is included with each interface.

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.

/2/ Frozen/Grandfathered, Digital Data Over Voice (DDOV), effective April 20, 2012; (N)  
To be withdrawn effective July 1, 2012. (N)



1. X.25<sup>1</sup> SERVICE DESCRIPTION

## C. SERVICES OFFERED (cont'd)

## 5. Dedicated Digital Interface - DOV

- a. Provides capability of connecting a customer's Data Voice Multiplexer to the X.25 network via a dedicated local exchange telephone business line with Digital Data Over Voice (DOV) option. DOV is a multiplexed data over voice technology, which allows both voice and data services on one copper pair facility. The data portion is split off at the central office and can be interconnected to the X.25 Network for transmission to a host or VAN location.
- b. Provides capability of connecting customer DOV logical channel to the X.25 network via a dedicated DOV access line. Dedicated DOV interface uses ITI protocol at a Transmission speed of 2400 bps/ or 9600 bps.
- c. Provides originate call and terminate capability only.
- d. Channel charges do not include the DOV facility used to access the X.25 Interface.
- e. Supports the following optional subscriber network features:
  - Closed User Groups (CUGS) with sub options:
    1. Basic, required for each separate CUG in which DNA is a member
    2. Incoming and outgoing calls limited to customer's CUG. No calls allowed to or from the open X.25 network
    3. Incoming calls allowed from the open X.25 network
    4. Outgoing calls allowed to the open X.25 network
    5. Incoming calls allowed within the closed user group
    6. Outgoing calls allowed within the closed user group
  - Direct Call
  - Hunt Groups, Internal
- f. One logical channel is included with each interface.

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.

1. X.25<sup>1</sup> SERVICE DESCRIPTION

## C. SERVICES OFFERED (cont'd)

6. Dedicated X.75 Internetwork Interface<sup>1</sup>

- a. Required for customers providing internetwork data transport. The network interface provided uses X.75 protocol, as outlined by the Consultative Committee on International Telegraphy and Telephony (CCITT), a United Nations communications standards body. X.75 protocol is only provided to Interexchange Carriers (IEC) and/or Value Added Networks (VANS) that have a valid DNIC (Data Network Identification Code) assigned by the FCC.
- b. Provides capability of connecting customer's STE to the X.25 network via a dedicated digital facility using X.75 protocol at transmission speeds of 9.6 or 56Kbps synchronous. A DDS or ADN (Advanced Digital Network) facility is required to interconnect to an X.75 interface.
- c. Requires use of STE meeting the Company's X.25 network protocol interface specifications.
- d. Provides send and receive capability.
- e. Dedicated X.75 internetwork interface charges do not include the DDS or ADN facilities used to access the Dedicated X.75 interface.
- f. Supports the following optional subscriber network features, which are set at initial service establishment:
  - Permanent Virtual Circuits
  - Hunt Groups, Internal
  - Closed User Groups (CUGS)
  - Additional logical channels
  - Billing Information for DNA
- g. One logical channel is included with each interface. A maximum of 4095 logical channels may be ordered per X.75 Internetwork Interface. However, a practical limit of logical channels assigned to a single interface should be determined or a significant degradation of service may occur.
- h. No circuit capability is preassigned to a logical channel; capacity is made available as data is transmitted. Each virtual circuit utilizes only one logical channel.

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.

1. X.25<sup>1</sup> SERVICE DESCRIPTION

C. SERVICES OFFERED (cont'd)

6. Dedicated X.75 Internetwork Interface<sup>1</sup> (cont'd)

- i. Access to the X.75 gateway can be by subscriber connections or dedicated digital facilities. Subscriber connections include:
  - Public dial connections
  - Private dial connections
  - Dedicated analog interfaces
  - Dedicated digital interfaces (X.25 or DDOV<sup>/2/</sup>) (N)

For dial connections, the subscriber initiating the call will pay for all exchange-related (e.g., toll, zum) charges.

- j. All calls which utilize the X.75 internetwork interface will be charged to the customer subscribing to the X.75 interface, regardless of the direction or origin of those calls or associated billing information.

7. ISDN Interface to X.25 network<sup>1</sup>

- a. Provides capability of connecting both B or D channel packet services to the X.25 Network.
- b. Specific interface charges, terms and conditions are described in each of the ISDN offerings.

Primary Rate	Guidebook, Part 17, Section 2	B Channel Packet Only
Centrex IS	Guidebook, Part 8, Section 10	Both B and D Channel Packet
SDS IS	Guidebook, Part 4, Section 2	Both B and D Channel Packet

- c. The ISDN based services will connect to the X.25 only where central offices and operating conditions permit.
- d. The X.25 will support E.164 addressing for ISDN users. These users will also be able to reach other X.25 customers using special dialing instructions for X.121 access.
- e. Usage charges will apply for all packet data sent outside of the serving central office. Usage charges, consisting of setups and segments, are described in Section 4.2.2,A.1. Minutes of usage charges will only apply for access from public dial ports, terminating on an ISDN packet interface.

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.

/2/ Frozen/Grandfathered, Digital Data Over Voice (DDOV), effective April 20, 2012; To be withdrawn effective July 1, 2012. (N)

1. X.25<sup>1</sup> SERVICE DESCRIPTION

C. SERVICES OFFERED (cont'd)

6. Dedicated X.75 Internetwork Interface<sup>1</sup> (cont'd)

i. Access to the X.75 gateway can be by subscriber connections or dedicated digital facilities.

Subscriber connections include:

- Public dial connections
- Private dial connections
- Dedicated analog interfaces
- Dedicated digital interfaces (X.25 or DDOV)

For dial connections, the subscriber initiating the call will pay for all exchange-related (e.g., toll, zum) charges.

j. All calls which utilize the X.75 internetwork interface will be charged to the customer subscribing to the X.75 interface, regardless of the direction or origin of those calls or associated billing information.

7. ISDN Interface to X.25 network<sup>1</sup>

a. Provides capability of connecting both B or D channel packet services to the X.25 Network.

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Primary Rate	Guidebook, Part 17, Section 2	B Channel Packet Only
Centrex IS	Guidebook, Part 8, Section 10	Both B and D Channel Packet
SDS IS	Guidebook, Part 4, Section 2	Both B and D Channel Packet

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1. X.25<sup>1</sup> SERVICE DESCRIPTION

D. EXCHANGES SERVED

The following is a list of wire centers indicating where the four X.25 Switching Services are being offered.

***SWITCH AVAILABILITY***

WIRE CENTER	X75	X25	ITI	DDOV	CITY	NPA
BKFDCA12	X	X	X		BAKERSFIELD	805
BKLYCA01		X	X		BERKELEY	510
BRBNCA11				X-RMT	BURBANK	818
BSRNCA70		X	X		SAN RAMON	510
CHICCA01	X	X	X		CHICO	916
CNCRCA01		X	X	X	CONCORD	510
CNPKCA01		X	X	X	CANOGA PARK	818
ELCJCA11		X	X		EL CAJON	619
ELMNCA01		X	X	X	EL MONTE	818
ELSGCA12	X	X	X		EL SEGUNDO	310
FLSMCA12		X	X		FOLSOM	916
FROKCA11		X	X		FAIR OAKS	916
FRSNCA01	X	X	X		FRESNO	209
FUTNCA01	X	X	X		FULLERTON	714
GLDLCA11				X-RMT	GLENDALE	213/8
LACNCA11		X	X		LA CANADA	818
LSANCA01	X	X	X	X	LOS ANGELES	310
LSANCA07	X	X	X		LOS ANGELES	310
LSANCA11	X	X	X		LOS ANGELES	310
LSATCA11				X-RMT	LOS ALTOS	415
MTVWCA11	X	X	X		MOUNTAIN VIEW	415
NHWDCA02		X	X	X	NORTH HOLLYWOOD	818
NORGCA11				X-RMT	NORTHRIDGE	818
OKLDCA03	X	X	X		OAKLAND	510
PLALCA02	X	X	X		PALO ALTO	415
PLTNCA13		X	X	X	PLEASANTON	510
PSDNCA11	X	X	X		PASADENA	818
SCRMCA01	X	X	X	X	SACRAMENTO	916
SKTNCA01	X	X	X		STOCKTON	209
SLNSCA01	X	X	X		SALINAS	408
SNANCA01	X	X	X		SANTA ANA	714
SNANCA11		X	X	X	SANTA ANA	714
SNBUCA02		X	X	X	SAN BRUNO	415
SNDGCA02	X	X	X	X	SAN DIEGO	619
SNDGCA11		X	X	X	SAN DIEGO	619
SNDGCA15		X	X		SAN DIEGO	619
SNFCCA01		X	X	X	SAN FRANCISCO	415
SNFCCA04	X	X	X		SAN FRANCISCO	415
SNFCCA21	X	X	X	X	SAN FRANCISCO	415
SNJSCA02	X	X	X		SAN JOSE	408
SNLOCA01	X	X	X		SAN LUIS OBISPO	805
SNTCCA11		X	X	X	SANTA CLARA	408
VISTCA12		X	X		VISTA	619
VNNYCA02	X	X	X		VAN NUYS	818
VNTRCA02		X	X		VENTURA	805

***X=SERVICE AVAILABLE***  
***X-RMT=SERVICE AVAILABLE VIA REMOTE ACCESS***

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.

2. X.25<sup>1</sup> ADDITIONAL TERMS AND CONDITIONS

## A. BILLING/PAYMENT TERMS AND CONDITIONS

1. Peak and off peak period rates are the same of all usage charges. Usage rate charges consist of call set-up and segment rate charges. The call set-up process occurs at the beginning of each X.25 call attempt. It allows a connection between the originating and terminating interface. A usage rate charge of one set-up per call is billed to the interface which is collecting the charges. A segment is the basic billing unit of X.25 data transport. One segment will be billed for every 128 octets, or portion thereof, of user data that is transmitted.
2. Recurring and usage rate charges are billed on a monthly basis and do not include detailed billing.
3. No pre-billing credit shall be issued for X.25.
4. Fractions of minutes, per call, are rounded up to the nearest whole minute.
5. For the monthly sum of each rate element charge, any fraction of a cent is rounded up to the next whole cent.
6. Charges accrued for portions of calls that span multiple billing periods will be applied in the appropriate billing period.
7. Rates are applicable during the time of day when the call takes place. This is in accordance with the time system, standard or daylight saving, legally or commonly in use, and will determine whether peak or off-peak rate treatment applies.
8. Rate period specific billing occurs when a call extends beyond one rate period. The appropriate rate treatment applies to the respective periods of the call.
9. In order to provision a customer request to change a dedicated interface type, a change in serving X.25 node location and/or access facility type may result. The customer is required to pay all charges associated with the different interface type, the reterminate of the access facility and/or the new access facility charges, if necessary.
10. CPUC and Deaf/Disabled surcharges may apply to some or all of the X.25 charges.

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.

2. X.25<sup>1</sup> ADDITIONAL TERMS AND CONDITIONS

B. BILLING NAME AND ADDRESS FOR X.75 PROVIDERS

1. The Company will provide Billing Name and Address in accordance with Schedule Cal.P.U.C. No. 175-T, Section 2.1.4,(B).
2. BNA service will only be provided to X.75 customers of X.25.
3. BNA will only be provided for Data Network Addresses that are associated with either dedicated or private dial ports. BNA will not be provided for any random or casual end user of the network. It is the responsibility of the X.25 host to bill its own users based on logon and account information that they maintain.
4. Charges for this service will be determined on an individual case basis.

C. CLOSED USER GROUPS

Each data network address may be included in up to ten separate closed user groups.

D. PERMANENT VIRTUAL CIRCUITS

Only Basic Transport Service, async to async, X.25 to X.25 can be provided between circuit ends on Permanent Virtual Circuits.

E. EXISTING CONTRACTS

The terms and conditions of this Guidebook will supercede all Master Agreements for X.25, formerly Public Packet Switching services executed on or before the effective date of this Guidebook

F. SPECIAL SERVICES

Customers may request new services, features, discounts that are not described in this Guidebook These will be handled on an individual case basis and offered under contract.

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.

2. X.25<sup>1</sup> ADDITIONAL TERMS AND CONDITIONS

## G. MNEMONIC ADDRESSING

1. Mnemonic addressing enables the user to employ a unique word or set of characters to reach a packet switching host application connected to the X.25 network. The mnemonic address is selected and paid for by the host provider. For example, users could type in "BB" to reach a bulletin board or "CHAT" to reach a chatline.
2. Customers will be provided mnemonic addressing as an optional feature of the X.25 interface. A mnemonic may be assigned to each Data Network Address associated with the X.25 interface. The customer will be charged on a one-time installation fee for mnemonic addressing on a DNA basis.
3. Customers may use more than one mnemonic, but a separate data network address is required for each mnemonic. Customers will be billed for each DNA associated with mnemonic addressing, regardless of which mnemonic is assigned.
4. Mnemonic addresses will be available on a first-come, first-served basis. A limit of five (5) mnemonics can be assigned to any customer. The mnemonic address must be related to a company name, trademark or service mark. The mnemonic address is limited to a maximum of 40 alphanumeric characters.
5. If the X.25 interface is disconnected, the mnemonic address feature will also be disconnected for that interface. Upon complete disconnection of the mnemonic address in the Company's X.25 network, the Company will reserve the mnemonic for a minimum of six (6) months before the mnemonic can be used by another customer.

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.



3. X.25<sup>1</sup> RATES

	<u>Nonrecurring Charge<sup>2</sup></u>	<u>Monthly Rate<sup>2</sup></u>	<u>USOC</u>
A. PRIVATE DIAL INTERFACE			
1. Private Dial (Local, 2.4 Kbps)	\$200.00	\$50.00	LADPD
2. Private Dial (associated with Foreign Exchange)	200.00	50.00	LADPP
3. Options			
a. Permanent Virtual Circuit - each interface, minimum 2	25.00	12.50	LADPV
b. Fast Select Initiate	10.00	NO	LADFS
c. Closed User Groups (CUG) - each interface	20.00	NO	LADCU
- out access allowed to open network	NO	1.00	LADCT
- outgoing calls allowed within CUG	NO	1.00	LADCE
d. Negotiation Capabilities - each Interface	10.00	NO	LADNC
e. Direct Call - each Logical Channel	35.00	1.00	LADCO
f. Miscellaneous Change Charge (subsequent) - change DNA or telephone number - add, change, remove parameters - add or change optional features	75.00	NO	LADCH

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.

/2/ Discount may be applicable based on quantity and duration of contract, as negotiated between customer and the Company.

3. X.25<sup>1</sup> RATES (cont'd)

	<u>Nonrecurring Charge<sup>1</sup></u>	<u>Monthly Rate<sup>1</sup></u>	<u>USOC</u>
A. PRIVATE DIAL INTERFACE (cont'd)			
3. Options (cont'd)			
g. Hunt Group External <sup>3</sup> - each telephone or terminal number	RR	RR	HTG
h. Busy Call Forwarding <sup>3</sup> - each telephone number	RR	RR	EVB
i. Delayed Call Forwarding <sup>3</sup> - each telephone number	RR	RR	EVD
j. Busy Call Forwarding - Extended <sup>3</sup> - each telephone number	RR	RR	EVG
k. Busy & Delayed Call Forwarding <sup>1</sup> - each telephone number	RR	RR	EVE
l. Rearrangement of existing Busy and/or <sup>1</sup> - delayed features - each telephone number	RR	NO	NWCCF

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.  
 /2/ Discount may be applicable based on quantity and duration of contract, as negotiated between customer and the Company  
 /3/ See Rates and Charges in California Guidebook Part 3 Section 1, Part 4 Section 5, Part 6 Section 9, and Part 7 Section 7.

3. X.25<sup>1</sup> RATES (cont'd)

		<u>Usage Rate Peak &amp; Off Peak</u>	
A. PRIVATE DIAL INTERFACE (cont'd)			
4. Usage Charges			
a. Call Set-up		\$ .005	
b. Each Segment Transmitted		.0005	
		<u>Nonrecurring Charge<sup>2</sup></u>	<u>Monthly Rate<sup>2</sup></u>
B. DEDICATED CONNECTIONS <sup>3</sup>			
1. Dedicated Analog Interface Asynch - 300-2400 bps	\$ 200.00	\$ 50.00	LADA1
2. Dedicated Digital Interface Synch (X.25)			
- 2.4 Kbps	300.00	100.00	LADD2
- 4.8 Kbps	300.00	125.00	LADD4
- 9.6 Kbps	300.00	175.00	LADD9
- 56 Kbps	350.00	250.00	LADD5

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.

/2/ Discounts may be applicable based on quantity and duration of contract as negotiated between customer and the Company

/3/ Dedicated connection charges do not include the access facility used to access the interface.

3. X.25<sup>1</sup> RATES (cont'd)

	<u>Nonrecurring Charge<sup>2</sup></u>	<u>Monthly Rate<sup>2</sup></u>	<u>USOC</u>
B. DEDICATED CONNECTIONS <sup>3</sup> (cont'd)			
3. Options			
a. Permanent Virtual Circuit - each interface (minimum of 2)	\$ 25.00	\$ 12.50	LADPV
b. Fast Select Initiate each interface	10.00	NO	LADFS
c. Fast Select Acceptance (not available on Dedicated Analog Interface) - each interface	10.00	NO	LADFA
d. Hunt Groups, Internal - - each DNA in Group	10.00	1.00	LADHG
e. Closed User Groups (CUG) - per interface	20.00	NO	LADCU
- incoming & outgoing calls limited to customer's CUG	NO	1.00	LADC2
- incoming calls allowed from open X.25 Network	NO	1.00	LADCN
- outgoing calls allowed to open X.25 Network	NO	1.00	LADCT
- incoming calls allowed within CUG	NO	1.00	LADCD
- outgoing calls allowed within CUG	NO	1.00	LADCE
f. DTE Back-up, each alternate DNA	20.00	1.00	LADTB
g. Logical Channels not available on Dedicated Analog Interface - each additional	5.00	1.00	LADLC
h. Negotiation Capabilities - each interface	10.00	NO	LADNC

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.  
/2/ Discounts may be applicable based on quantity and duration of contract as negotiated between customer and the Company.  
/3/ Dedicated connection charges do not include the access facility used to access the interface.

3. X.25<sup>1</sup> RATES (cont'd)

	<u>Nonrecurring Charge<sup>2</sup></u>	<u>Monthly Rate<sup>2</sup></u>	<u>USOC</u>
B. DEDICATED CONNECTIONS <sup>3</sup> (cont'd)			
3. Options (cont'd)			
i. Reverse Charge Acceptance	\$ 10.00	\$ 1.00	LADRB
j. Direct Call - each Logical Channel	35.00	1.00	LADCO
k. Miscellaneous Change Charge (subsequent) - change DNA - add, change, remove parameters - add or change optional features	75.00	NO	LADCH
l. Multiple DNA (not available on Dedicated Analog Interface) - each additional	15.00	1.00	LADMD
m. Mnemonic Addressing - each DNA	350.00	NO	LADMN

	<u>Usage Rate Peak &amp; Off Peak</u>
4. Usage Charges	
a. Call Set-up	\$0.005
b. Each Segment Transmitted	0.0005

C. PUBLIC DIAL INTERFACE ACCESS

Usage Charges - Reverse Bill Only

1. Call set-up	0.005
2. Segment of each call	0.0005
3. Initial minute	0.02
4. Additional minute	0.01

- /1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.
- /2/ Discounts may be applicable based on quantity and duration of contract as negotiated between customer and the Company.
- /3/ Dedicated connection charges do not include the access facility used to access the interface.

3. X.25<sup>1</sup> RATES (cont'd)

	<u>Nonrecurring Charge<sup>2</sup></u>	<u>Monthly Rate<sup>2</sup></u>	<u>USOC</u>	
D. DEDICATED DIGITAL DOV CHANNEL INTERFACE <sup>/3/, /4/</sup>				(N)
1. Logical Channel Interconnection - 2400 bps, flat rate	\$25.00	\$ 50.00	LAD22	
2. Logical Channel Interconnection - 2400 bps, Usage Sensitive (includes usage charges below)	25.00	12.00	LAD21	
- 9600 bps, usage sensitive (includes usage charges below)	50.00	45.00	LAD91	
3. Options				
a. Closed User Groups (CUG)				
- per Interface	20.00	NO	LADCU	
- incoming and outgoing calls limited to customers (CUG)	NO	1.00	LADC2	
- incoming calls allowed from open X.25 network	NO	1.00	LADCN	
- outgoing calls allowed to open X.25 network	NO	1.00	LADCT	
- incoming calls allowed within CUG	NO	1.00	LADCD	
- outgoing calls allowed within CUG	NO	1.00	LADCE	
b. Direct Call	35.00	1.00	LADCO	
4. Usage Charges		<u>Usage Rate Peak &amp; Off Peak</u>		
a. Call set-up		\$0.005		
b. Segment of each call		0.0005		

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.  
 /2/ Discounts may be applicable based on quantity and duration of contract as negotiated between customer and the Company.  
 /3/ For Interconnection to Digital Data over Voice (DDOV) see California Guidebook Part 20, Section 6.(C)  
 /4/ Frozen/Grandfathered, Digital Data Over Voice (DDOV), effective April 20, 2012; (N)  
 To be withdrawn effective July 1, 2012. (N)

3. X.25<sup>1</sup> RATES (cont'd)

	<u>Nonrecurring Charge<sup>2</sup></u>	<u>Monthly Rate<sup>2</sup></u>	<u>USOC</u>
D. DEDICATED DIGITAL DOV CHANNEL INTERFACE <sup>3</sup>			
1. Logical Channel Interconnection - 2400 bps, flat rate	\$25.00	\$ 50.00	LAD22
2. Logical Channel Interconnection - 2400 bps, Usage Sensitive (includes usage charges below)	25.00	12.00	LAD21
- 9600 bps, usage sensitive (includes usage charges below)	50.00	45.00	LAD91
3. Options			
a. Closed User Groups (CUG) - per Interface	20.00	NO	LADCU
- incoming and outgoing calls limited to customers (CUG)	NO	1.00	LADC2
- incoming calls allowed from open X.25 network	NO	1.00	LADCN
- outgoing calls allowed to open X.25 network	NO	1.00	LADCT
- incoming calls allowed within CUG	NO	1.00	LADCD
- outgoing calls allowed within CUG	NO	1.00	LADCE
b. Direct Call	35.00	1.00	LADCO
		<u>Usage Rate Peak &amp; Off Peak</u>	
4. Usage Charges			
a. Call set-up		\$0.005	
b. Segment of each call		0.0005	

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.  
/2/ Discounts may be applicable based on quantity and duration of contract as negotiated between customer and the Company.  
/3/ For Interconnection to Digital Data over Voice (DD0V) see California Guidebook Part 6, Section 7.

3. X.25<sup>1</sup> (cont'd)

1.3 RATES (cont'd)

	<u>Nonrecurring Charge<sup>2</sup></u>	<u>Monthly Rate<sup>2</sup></u>	<u>USOC</u>
E. X.75 INTERNETWORK INTERFACE <sup>1,3</sup>			
1. 9.6 Kbps X.75 Port	\$ 525.00	\$ 300.00	LADS9
2. 56K Kbps X.75 Port	525.00	400.00	LADS5
3. Options			
a. Permanent Virtual Circuit - each interface (minimum of 2)	25.00	12.50	LADPV
b. Closed User Groups (CUG) - each interface	20.00	NO	LADCU
c. Miscellaneous Change Charge (subsequent) - change DNA - add, change, remove parameters - add or change optional features	75.00	NO	LADCH
d. Logical Channels, each additional	5.00	1.00	LADLC
e. Hunt Group Internal (each DNA)	10.00	1.00	LADHG

Usage Rate  
Peak & Off Peak

4. Usage Charges - X.75 Ports

a. Call set-up	\$ .005
b. Each segment transmitted	.0005
c. Initial Minute of Use (from public dial interfaces)	.02
d. Additional minute (from public dial interfaces)	.01

- /1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.
- /2/ Discounts may be applicable based on quantity and duration of contract as negotiated between customer and the Company.
- /3/ X.75 Interface charges do not include the access facility used to access the interface.



3 X.25<sup>1</sup> RATES (cont'd)

F. ISDN INTERFACE

1. All non-recurring and monthly charges are described in the respective product tariffs or Guidebooks for B and D channel interfaces to the X.25 Network.

USAGE RATE  
PEAK & OFF PEAK

2. Usage Charges

a. Call set-up	\$0.005
b. Each segment transmitted	0.0005
c. Initial Minute of Use (from public dial interface only)	0.02
d. Additional Minute of Use (from public dial interface only)	0.01

/1/ Frozen/Grandfathered Service effective June 11, 2004. See General Regulations, California Guidebook Part 2 Section 2, and Part 4 Section 5.