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Terminal Network Access (TNA) for Local Service

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Service Description

Local Terminal Network Access (TNA) provides one-way interconnection from the Company's switched network to a customer's/service provider's terminal equipment in the same or another Exchange.

TNA is intended to address the requirements of service providers for the following specific applications only:

- (a) **Paging Service**
 - to the paging service provider's radio-paging terminals, where the service provider is duly licensed pursuant to the Radiocommunication Act.
- (b) **Call Answering Service (CAS)**
 - to a customer-provided CAS terminal where calls are answered.
- (c) **Voice and Fax Message Service (VFMS)**
 - to customer-provided VFMS terminal equipment where voice and/or fax messages are received, stored, and accessed. The TNA services must terminate directly on the VFMS terminal equipment or in cases where this is not possible partitioning must be provided to ensure the TNA service is only available to the VFMS equipment.
- (d) **Bulletin Board Information Systems (BBIS)**
 - to customer-provided BBIS terminal equipment which then provides schedule information to callers.

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Definitions

For the purposes of this Tariff Item:

"Analogue Access Channel" is a 2 wire, jack-ended, analogue, voice grade facility from the Company's Serving Central Office to a service provider's terminal equipment. It is provided at the rates, terms and conditions in Tariff CRTC 21461 Item 522.

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Definitions - Continued

"Digital Access Channel" is a 4-wire, jack-ended 1.544 Mb/s interface at the service provider's point of interconnection. It is available under either a Digital Network Access (DNA) DS-1 or an Integrated Services Digital Network – Primary Rate Interface (ISDN-PRI) facility.

- a) DNA DS-1 provides digital access in groups of 24 channels from the Company's digital switching equipment in the Serving Central Office to a service provider's terminal equipment. The rates and charges for each digital access facility are specified in Tariff 21461 Item 500.
- b) ISDN-PRI provides digital access, consisting of 23B and 1D channels from the Company's digital switching equipment in the Serving Central Office to a service provider's terminal equipment. The rates and charges for each digital access facility are specified in Tariff 1005 Item 470 B for British Columbia and Tariff 18001 Item 495 for Alberta.

"Link" is the portion of the central office equipment associated with the termination of the Access Channel and provides answer supervision and signalling to the switched network. It is categorized as a trunk link since it is associated with an access channel over which digits of a ten-digit telephone number are outpulsed to the service provider's terminal equipment. The Link component is not required when ISDN-PRI is used as the Digital Access Channels.

"Serving Central Office" is the first Central Office that a Customer Premises is connected to by way of a Digital Network Access. A Central Office refers to a physical building used to house TELUS inside plant equipment.

"Telephone Numbers" Ten-digit telephone numbers with outpulsing are provided in Exchanges where suitable facilities and appropriately equipped GTD-5 or DMS 100 central offices are available.

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Conditions of Service

TNA service is provided subject to the availability of facilities and appropriately equipped GTD-5 or DMS 100 Central Offices and is subject to the following conditions:

1. A service provider's terminal equipment shall meet the specifications contained in the 'Certification Specifications' CS-03 published by Industry Canada (IC). Terminals manufactured after 83 09 01 must be certified in accordance with Tariff 1005 Item 200 in British Columbia and Tariff 18001 Item 170 in Alberta.
2. Company facilities shall be used exclusively between the Serving Central Office and the customer provided equipment or a mutually agreed upon point of interconnection.
3. When it is necessary to provide special equipment or incur any unusual expense to furnish service, an additional charge may be made.
4. Service is provided subject to the availability of suitable facilities and equipment. The Company is not responsible for the design or operation of any system or service provided by the service provider and connected to the switched network. The Company's service is limited to the provision of access to and from the switched network.
5. Access is provided in two optional configurations referred to as TNA Analogue Service and TNA Digital Service. The service provider is responsible for ordering the appropriate service, either Analogue or Digital. If the service requested and provided by the Company does not meet the technical service requirement of the service provider's equipment, the service provider will be required to obtain supplemental service and equipment from the Company to upgrade the basic service to meet the special service requirements of the service provider's equipment.
6. In the case of trouble on the line which requires a visit by Company personnel, rates and conditions as specified in Tariff 1005 Item 111 in British Columbia and Tariff CRTC 18002 Item 1820 in Alberta will apply.

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Conditions of Service

7. Blocks of telephone numbers will be assigned by the Company for the use of the service provider and will be associated with the Company selected central office switch serving the service provider. When blocks are discontinued a regular vacant number intercept announcement will be provided by the Company for a limited period of time.
8. Telephone Numbers will be assigned in blocks of 100 or 1,000 consecutive numbers (beginning with 00 and ending in 99). The Company shall endeavour to assign Telephone Numbers in consecutive number sequences. However, the Company does not guarantee provision of and shall not be bound to provide or in any way otherwise guarantee any specific number or group of numbers to any particular customer.
9. The placing in service of telephone numbers does not provide for directory listings of such numbers. Should a service provider's customers want a directory listing for an assigned telephone number, such listing will be provided at the rates and charges for business Extra Listings specified in Tariff 21461 Item 129.
10. In the province of Alberta, for Paging Service applications, the service provider may request, from the blocks of 100 assigned Telephone Numbers, groups of 10 Telephone Numbers as wide area access numbers.
11. An end-user within Alberta placing a call to a wide area Telephone Number shall be charged message toll call rates, if applicable, for messages that exceed 20 seconds in duration. Calls placed from outside Alberta shall pay the applicable Message Toll charge.

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Rates

The monthly rates and service charges for TNA service are the sum of the applicable charges in 1 to 3 below, and are in addition to other rates and charges as specified in the Company's tariffs.

1. Access Channels

Access Channels are either Analogue or Digital. When used in the switched network originating direction, the Channel provides facilities and central office trunk switching equipment equipped with the capability of sending the appropriate digits of the called party telephone number, and the capability of receiving and transmitting telephone supervisory and control signals as required. The service provider shall provide answer and disconnect supervision to the Company selected central office switch.

Service Item	Monthly Rate	Service Charge
Analogue Access Service Channels:	See Tariff 21461 Item 522	
Digital Access Service Channels (Notes 1, 2):		
- DNA DS-1	See Tariff 21461 Item 500 or Tariff 21462 Items 224 and 225 (if applicable)	
- ISDN-PRI	See Tariff 1005 Item 470 B for British Columbia and Tariff 18001 Item 495 for Alberta.	

Note 1: Where the service provider's terminal equipment is in a different Rate Center, IX Digital Channels may be provided pursuant to Tariff 21461 Item 503.

Note 2: Facilities to support Digital Access Service Channels may be provided as a combination of: service provider self-supply (including use of third-party supplier); and/or Company's digital facilities offered under the Company regulated tariffs, or forborne offerings, as appropriate.

2. TNA Link

In addition to the Analogue TNA Link, when the service provider wishes to receive multi- rather than uni-frequency signals, DTMF may be requested. In the province of BC, DTMF rates are as specified in CRTC 1005, Item 164 and are in addition to the charges below for the Analogue TNA Link and apply per each Channel. In Alberta, DTMF is not separately charged.

Service Item	Monthly Rate	Service Charge
Analogue TNA Link, per Channel		
- British Columbia	\$ 8.03	---
- Alberta, excluding the City of Edmonton	31.63	---
- City of Edmonton	10.49	---
Digital TNA Link, per Channel (Note 2)	7.67	---

Note 2: Digital TNA Link charges do not apply where ISDN-PRI is used as the Digital Access Channel.

Local Switched Access Services

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Rates - Continued

3. Telephone Numbers:

a. Reserved (available in AB only)

Service Item	Monthly Rate	Service Charge (Note 1)
Each block of 100 reserved numbers	\$ 1.25	\$ 31.26

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b. Assigned ten-digit telephone numbers placed in service

Service Item	Monthly Rate	Service Charge (Note 1)
Each block of 100 assigned numbers	\$ 4.84	\$ 100.86
Each block of 1 000 assigned numbers (Available in BC only)	48.41	423.56

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Note 1: Applies to each request for telephone numbers at any one location served by the same Serving Central Office.

c. Wide area paging numbers (available in AB only)

Service Item	Monthly Rate	Service Charge (Note 1)
Wide area number assignment, per block of 10 numbers (available only for Paging Service applications)	\$32.87 (Note 2)	CRTC 18001 Item 550 (Note 3)

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Note 2: Monthly rate applies in addition to the rate for the one way Wide area exchange access, per each block of 100 numbers.

Note 3: Data Processing and Office Connection charges for Business services.