
ITEM

215 **Local Network Interconnection and Component Unbundling**

ITEM

215.1 **General**

1. The services and arrangements contained in this Tariff item and related Company Tariffs and Agreements are made available to Competitive Local Exchange Carriers (CLEC). Component unbundling arrangements are also made available to Digital Subscriber Line Service Providers (DSLSP) as specified in Item 215.4.2.

The services and arrangements specified in this Tariff item, and related Company Tariffs and Agreements, which are provided to a CLEC or DSLSP, will be billed to and payable by the CLEC or DSLSP.

2. Subject to the Terms, Conditions, Rates and Charges set out in applicable tariff(s) for co-location, other Tariffs and Agreements as may be applicable, and where TCI's Facilities permit, a CLEC may, except where expressly prohibited by TCI's Tariffs:
 - a. interconnect their local services and facilities to the Company's services and facilities, offered under this Tariff, subject to availability of TCI services and facilities;
 - b. resell or share any of TCI's tariff services and facilities;
 - c. provide local exchange telephone services; and,
 - d. provide service to its customers which incorporates interconnection to the Company's Public Switched Telephone Network (PSTN), using its own facilities, the facilities of TCI, or the facilities of another facility provider.
3. Insofar as they are reasonably applicable and not inconsistent with this Tariff item, all other TCI tariffs, including any amendments to or replacements of them, extend and apply to this tariff. TCI's General Terms of Service including any amendments to or replacements of them, apply to this Tariff item, with such modifications as the circumstances require.
4. Interconnection by CLECs will be made on a per Local Interconnection Region (LIR) basis. The only exception will be for CLECs who were interconnected with the Company on a per-exchange basis or for which per-exchange interconnection had been negotiated as of the approved effective date of May 29, 2006, in which case, moves, additions and changes will be permitted within these exchanges to the extent permitted by the Master Agreement for Interconnection between the CLEC and the Company.

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.2 **Definitions**

For the purpose of this Tariff:

“*Alternate Providers of Long Distance Services (APLDS)*” is an IXC or reseller which provides interexchange message toll services.

“*Analogue Transmission*” is a telecommunications transmission which uses continuous signals to carry information.

“*Bill and Keep*” is a process whereby the originating Local Exchange Carrier (LEC) bills its end-customer for the call and keeps the corresponding revenues; the originating LEC is not normally required to compensate the terminating LEC for call termination expense.

“*CCS7 Cross-Connection*” is the Company-provided cross connection between the gateway STP connection and CCS7 link transport facilities.

“*Central Office Building (CO Building)*” is TCI’s Premises which houses TCI local switching equipment, and may also house the Company’s toll switching equipment and co-located competitor transmission equipment.

“*Central Office Code (NXX)*” is the second set of three digits of a ten-digit telephone number (i.e., NPA-NXX-XXXX) which identifies the local switching office (a 3-digit identification code).

“*Company Loop Termination (COLT)*” is the end point of the TCI-provided transmission path which terminates at the Company’s distribution frame or other designated distribution device in TCI’s Central Office Building.

“*Central Office Switch (CO Switch)*” (may be referred to as a Class 5 or Local Switch) is the local switching equipment which connects to local End-customer lines and which enables End-customers to make and receive calls to and from other End-customers within the Local Calling Area of their exchange and to access message toll services of TCI and Interexchange Carriers. The CO Switch is associated with one or more CO codes (i.e., NXX codes).

“*Competitive Local Exchange Carrier (CLEC)*” is a provider of local exchange service, other than TCI or the other Stentor member telcos.

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.2 **Definitions - Continued**

“*Commercial Launch Date*” is the date at which a CLEC notifies the Commission that it has met all CLEC obligations in one of the exchanges in a LIR.

“*Connecting Link*” is a transmission path which connects a Company-provided unbundled network component located or terminated within the Company’s CO Building (i.e., Local Loop), to a CLEC’s co-located transmission equipment located within the Company’s CO Building.

“*Customer Network Interface (CUST-NI)*” is the point of termination or demarcation of a local loop specified in General Tariff CRTC 18001 Item 425.2.4. C

“*Digital Subscriber Line Service Provider (DSLSP)*” is a non-facilities-based reseller of high speed data services who is duly registered with the CRTC pursuant to Order CRTC 2000-983.

“*Digital Transmission*” is a telecommunications transmission which uses non-continuous signals to transmit information.

“*End-customer*” is the ultimate user of all telecommunications services sold on a retail basis by CLECs, APLDS or TCI.

“*Exchange*” is a basic geographical area for the administration and furnishing of telephone service, and normally includes a city, town or village and adjacent areas. The territory served by an exchange, within which local service rates apply, is known as the exchange area. See also Local Calling Area.

“*Interexchange Carrier (IXC)*” is a Canadian carrier, as defined in section 2 of the *Telecommunications Act*, which provides interexchange services and is not one of the Stentor Operating Companies.

“*Local Calling Area*” is an area defined by the Company, wherein calls can be made by the Company's End-customers without the application of interexchange toll charges. A Local Calling Area includes one or more exchange areas. See also Exchange.

“*Local Interconnection Region (LIR)*” is a geographic area specified by the Company in Item 215.3.7 within which traffic is exchanged with CLECs on a Bill and Keep basis.

“*Local Loop*” is a Company-provided transmission path between, and including, the CUST-NI located at the End-customer’s Premises and the COLT located in the Company’s Central Office Building.

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.2 **Definitions - Continued**

"Premises" is the continuous property and the building or buildings located thereon, or the part or parts of a building, occupied at the same time by an End-customer or a CLEC.

"Reseller" is a person engaged in resale, with or without adding value of a telecommunications service leased from an IXC or from the Company.

"Signaling Point of Interconnection (SPOI)" is a location specified by the Company at which CLECs may choose to obtain A-link interconnection.

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"Trunk" is a DS-0 time slot or channel within the TCI provided digital connection between the trunk-side of TCI's local switch and the Cross-Connect panel used to provide interconnection arrangements.

"Trunk Group" is a group of equivalent trunks.

"Zone" a categorization of wire centres of similar characteristics such as customer density.

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Local Network Interconnection and Component Unbundling - Continued

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215.3

Terms and Conditions

1. General

- a. TCI will provide the elements of the Local Network Interconnection and Network Component Unbundling Tariff subject to the availability of suitable facilities.
- b. TCI does not make any representation that the services in this Tariff item, or related Company Tariffs, shall at all times be available in the quantities requested and at the locations specified by the CLEC. The Company shall, however, make every reasonable effort to make such services available on request.
- c. If a CLEC cancels an application for service after the Company has incurred costs associated with the provision of the service, the CLEC shall pay the Company all incurred costs.
- d. The type, location and timing of facilities to provide the elements of this Tariff item must be specified, at the time of the order, by the CLEC. If the type, location or timing of facilities is changed by the CLEC, any additional expense incurred will be charged to the CLEC.
- e. Responsibility for services provided by the Company to a CLEC may be assumed by another CLEC. The assuming CLEC of record shall be responsible for payment of all unpaid rates and charges incurred by the CLEC from whom it assumes the services and facilities.
- f. The elements of the local network interconnection and unbundled network components are provided in accordance with the specifications, interfaces and parameters described in this Tariff item and applicable technical references developed in conjunction with Industry Canada. The Company's primary obligation under this Tariff item is to provide local network interconnection and unbundled network components in accordance with such specifications, network interfaces and parameters. The Company does not warrant that its local network interconnection and unbundled network components are compatible with any specific facilities or equipment or can be used for any particular purpose or service. CLECs ordering unbundled network components are responsible to obtain and provide facilities and equipment that are compatible with such unbundled network components.

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.3 **Terms and Conditions - Continued**

- g. Services provided under the terms and conditions of this Tariff item will be maintained in accordance with the technical references developed in conjunction with Industry Canada.
- h. The provision of local network interconnection and unbundled network components outlined in this Tariff item does not constitute a joint undertaking with the CLEC in the furnishing of any service.
- i. In the furnishing of services in this Tariff item, the Company is not responsible to the CLEC or CLEC's End-customers for end-to-end service.
- j. The CLEC will furnish or arrange to furnish to the Company, at no charge, adequate equipment space and electrical power required by the Company to provide the connections under this Tariff item at the CLEC's Premises, or at the CLEC's End-customer's Premises, as appropriate.
- k. Subject to limitations imposed in item 2 of the General Section, any facilities and services of TCI required by a CLEC for the purpose of resale or sharing may be acquired through any of the Company's Tariffs including this Tariff item.
- l. The CLEC will furnish or arrange to furnish to the Company, at no charge, any additional facilities or protective apparatus that may be required to protect against any hazards associated with the particular nature or location of the connections.
- m. When it is necessary for TCI to install special equipment or to incur unusual expense in order to meet a CLEC's requirements, an additional charge may be assessed based upon the equipment installed or the expense incurred.
- n. For exchange-based interconnection, traffic imbalances may occur for traffic that is interchanged between a CLEC and TCI over designated Bill and Keep trunks. Commencing six months after commercial launch, once an imbalance is detected for three consecutive months on a specific trunk group(s), TCI will notify the CLEC of the imbalance. The appropriate imbalance tariff will apply for every month with imbalance traffic that exceeds the thresholds given in the rate table once notification is given. C
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- o. For LIR-based interconnection, traffic imbalances may occur for traffic that is interchanged between a CLEC and the Company over designated Bill and Keep trunks. If an imbalance is detected after a CLEC's Commercial Launch Date in a given LIR, the appropriate imbalance tariff will apply. N
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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.3 **Terms and Conditions - Continued**

2. Network and Facilities Changes

- a. The Company does not make any representation that its equipment, facilities and services are, or will remain, adapted for use in connection with CLEC equipment, facilities and services.
- b. The Company reserves the right to change, in whole or in part, the design, function, operation, technology or layout of its equipment, apparatus, lines, switches, circuits, and devices as the Company, in its sole discretion, considers necessary. TCI shall not be responsible to the CLEC or the customers of the CLEC for their equipment, apparatus, lines, switches, circuits, devices, in whole or in part, which cease to be compatible with Company facilities or which become inoperative because of such changes to the Company's equipment, apparatus, lines, switches, circuits, devices or other components.
- c. TCI and the CLEC will each provide network-to-network notification to the other party in accordance with the network-to-network notification requirements established by Telecom Letter Decision CRTC 94-11 and prior to implementing changes to the design, function, operation, technology or layout of its equipment, apparatus, lines, switches, circuits or devices.
- d. TCI shall have the right to modify its exchange or LIR boundaries from time to time.
- e. The CLEC shall not implement any change to its operations, services or network which would, in the reasonable assessment of the Company, materially affect the Company's operations, services or network, without the prior consent of TCI, which shall not unreasonably be withheld.

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.3 **Terms and Conditions - Continued**

3. Network Outages

- a. The Company will provide the CLEC with the earliest possible notice of all network outages affecting the operation of the CLEC's networks.
- b. The Company does not guarantee uninterrupted working of its service and/or equipment and shall not be liable to the CLEC, or to any other entity, for any failure or delay in performance of any service provided pursuant to this, or any other Company Tariff or Agreement, to the extent that such failure or delay is attributable to causes or results from events beyond the Company's reasonable control. Nothing in this Tariff item shall extend the liability of the Company, as specified in the Company's General Terms of Service, in the event of network outages or other service problems.

4. Protection

- a. The characteristics and methods of operation of any circuits, facilities or equipment of the CLEC, when connected to the Company, shall not:
 - i. interfere with or impair service over any facilities of the Company or its connecting carriers involved in its services;
 - ii. cause damage to its plant;
 - iii. impair the privacy of any communication carried over its facilities; or
 - iv. create hazards to the Company's employees or to the public.
- b. If such characteristics or methods of operation are not in accordance with the preceding, the Company will, where practicable, notify the CLEC that temporary discontinuance of the use of any circuits, facilities or equipment may be required. When prior notice is not practicable, nothing contained within this Tariff item shall be deemed to preclude the Company from temporarily discontinuing forthwith the availability to the CLEC of any circuit, facility or equipment if such action is reasonable under the circumstances. In cases of such discontinuance, the CLEC will be promptly notified and afforded the opportunity to correct the condition which gave rise to the temporary discontinuance.
- c. During any period of temporary discontinuance of service caused by a trouble or condition arising in the CLEC's operations, facilities or network, no refund for interruption of service, as set forth in the Company's General Terms of Service, shall be made.

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.3 **Terms and Conditions – Continued**

5. Transit Services

Transit Services provide for the exchange of local and toll traffic via TCI's network between a CLEC and a CLEC or between a CLEC and an IXC conditional on the existence of a transit agreement between the two carriers originating and terminating traffic with each other and evidence of this transit agreement being provided to TCI.

Any charges imposed on TCI by carriers receiving traffic, which are not recovered in the rates and charges associated with TCI's transit services, will be passed on to the originating carrier in the form of unusual expenses.

For purposes of Item 215.3.5. (1), "originating exchange" means the exchange where transit traffic is delivered to the Company.

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(1) Local Transit Service is provided between two CLECs conditional on the traffic terminating within the EAS area or the LIR of the originating exchange.

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Local Transit Service includes transport between exchanges with EAS or within the same LIR as the originating exchange where the CLECs do not both serve either the originating exchange, the terminating exchange, or any exchange with EAS to the originating and terminating exchanges.

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The carrier originating local transit traffic is responsible for providing the underlying facilities required to deliver the traffic to TCI on dedicated one-way trunk groups.

TCI will deliver local transit traffic via bill and keep trunks established between TCI and the terminating CLEC.

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.3 **Terms and Conditions – Continued**

5. **Transit Services - Continued**

(2) Toll Transit service provides CLECs and IXCs with the option to deliver their toll traffic to each other via the TCI network. It is provided between IXCs and CLECs on the condition that the toll traffic destined for CLECs' end-customers is delivered by the IXC to TCI's designated toll transit Access Tandem.

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For both originating and terminating toll transit traffic, incremental interconnecting circuits between an IXC and the TCI designated toll transit Access Tandem(s) remain the responsibility of the IXC.

Rates for transit services include the signalling component of call processing, but not CCS7 interconnection to TCI's CCS7 network. CLECs and IXCs must obtain CCS7 interconnection with TCI through the appropriate tariffs or an agreement.

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.3 **Terms and Conditions – Continued**

6. **CCS7 Transit Services**

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The CCS7 Transit Service provides for the exchange of CCS7 signalling messages between two different carriers, i.e. CLECs, WSPs, and IXCs, conditional on the existence of a business arrangement between the two carriers exchanging CCS7 messages and evidence of this business arrangement being provided to TCI.

A CLEC or IXC may subscribe to CCS7 Transit services if CCS7 interconnection is in place at a gateway STP.

Basic and Enhanced CCS7 Transit services are provided between CLECs, between CLECs and WSPs, and between WSPs operating in the same exchange, and between CLECs and IXCs, between WSPs and IXCs, and between IXCs, conditional on the implementation of direct message trunking.

A CLEC or IXC may subscribe to either Basic or Enhanced CCS7 Transit services.

CCS7 Transit to a competitive Local Number Portability Service Control Point (“LNP SCP”) service provides for the exchange of CCS7 Transaction Capabilities Application Part (“TCAP”) messages with a competitive LNP SCP service provider only. Specific functionality associated with a competitive LNP SCP must be obtained directly from the service provider.

A carrier transiting CCS7 messages from a third party will also be charged for each third party as appropriate.

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.3 **Terms and Conditions - Continued**

7. Definition of Approved LIRs

LIRs are comprised of the specific exchanges listed in the tables below. The location of the Company's POI for each LIR is also indicated in the first column.

| LIR Name and POI Location | Assigned Exchanges | | |
|---|--|---|--|
| CALGARY CLGRAB01 Calgary, AB | Acme Airdrie Arrowwood Banff Beiseker Blackie Bragg Creek Calgary Canmore Carstairs Cayley Champion | Cochrane Cremona Crossfield Exshaw Gleichen High River Hussar Irricana Kananaskis Lake Louise Langdon Lomond | Longview Milo Morley Nanton Okotoks Rockyford Standard Stavely Strathmore Turner Valley Vulcan |
| CAMROSE CMRSAB06 Camrose, AB | Alliance Bashaw Bawlf Camrose Daysland Ferintosh Forestburg Galahad | Hardisty Hay Lakes Heisler Hobbema Killam Lougheed Ma-Me-O Beach Millet | Mulhurst New Norway New Sarepta Rosalind Sedgewick Strome Wetaskiwin Winfield |
| CYPRESS MDHTAB02 Medicine Hat, AB | Bow Island Burdett Elkwater Hilda | Irvine Medicine Hat Ralston Schuler | Seven Persons Walsh |
| EDMONTON EDTNABXM Edmonton, AB | Edmonton | | |
| GRANDE PRAIRIE GDPRAB01 Grande Prairie, AB | Bear Canyon Beaverlodge Bonanza Clairmont Debolt Fox Creek | Grande Prairie Hythe Rycroft Sexsmith Silver Valley Spirit River | Valleyview Wanham Wembley Woking |

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.3 **Terms and Conditions - Continued**

7. Definition of Approved LIRs – Continued

| LIR Name and POI Location | Assigned Exchanges | | |
|---|---|--|--|
| LEDUC LEDCAB01 Leduc, AB | Alder Flats Beaumont Breton Calmar | Devon Drayton Valley Leduc Lodgepole | Nisku Thorsby Tomahawk Warburg |
| LETHBRIDGE LTBRAB02 Lethbridge, AB | Barons Brocket Cardston Carmangay Claesholm Coaldale Coutts Cowley Crowsnest Pass Enchant Etzikom Foremost | Fort Macleod Glenwood Granum Grassy Lake Hays Iron Springs Lethbridge Magrath Manyberries Milk River New Dayton Nobleford | Picture Butte Pincher Creek Raymond Standoff Stirling Taber Vauxhall Warner Waterton Park Wrentham |
| MINBURN VGVLAB01 Vegreville, AB | Andrew Ashmont Bonnyville Chauvin Cold Lake Czar Derwent Edgerton Elk Point Glendon Grand Centre Hairy Hill Heinsburg | Holden Hughenden Innisfree Irma Islay Kitscoty Lavoy Lloydminster Mannville Marwayne Minburn Mundare Myrnam | Paradise Valley Provost Ryley St. Paul Two Hills Vegreville Vermilion Viking Vilna Wainwright Willingdon |
| NEWELL BRKSAB01 Brooks, AB | Bassano Bindloss Brooks Cessford | Duchess Empress Jenner Rolling Hills | Tilley |

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.3 **Terms and Conditions - Continued**

7. Definition of Approved LIRs - Continued

| LIR Name and POI Location | Assigned Exchanges | | |
|---|--|---|--|
| PARKLAND SYPLAB02 Stony Plain, AB | Alberta Beach Evansburg Keephills Onoway | Seba Beach Stony Plain Wabamun Wildwood | |
| PEACE RIVER PCRVAB01 Peace River, AB | Assumption Berwyn Brownvale Chipewyan Lake Dixonville Donnelly Eaglesham Fairview Falher Faust Fort Vermilion Fox Lake Gift Lake Girouxville | Grimshaw Grouard High Level High Prairie Hines Creek Jean D'Or Prairie Jousard Keg River Kinuso La Crete Little Buffalo Lake Manning McLennan Meander River | Nampa Peace River Peerless Lake Rainbow Lake Red Earth Slave Lake Smith Wabasca Whitelaw Widewater Worsley Zama |
| RED DEER RDDRAB01 Red Deer, AB | Acadia Valley Alix Altario Bentley Big Valley Blackfalds Bowden Byemoor Carbon Caroline Castor Cereal Clive Consort Coronation Craigmyle Delburne Delia | Didsbury Donalda Drumheller East Coulee Eckville Elnora Gadsby Halkirk Hanna Innisfail Lacombe Leslieville Mirror Morrin Nordegg Olds Oyen Penhold | Ponoka Red Deer Rimbey Rocky Mountain House Rosebud Rumsey Saskatchewan River Crossing Sibbald Spruce View Stettler Sunchild O'Chiese Sundre Sylvan Lake Three Hills Torrington Trochu Veteran Youngstown |

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.3 **Terms and Conditions - Continued**

7. Definition of Approved LIRs - Continued

| LIR Name and POI Location | Assigned Exchanges | | |
|--|--|--|---|
| STRATHCONA SWPKAB01 Sherwood Park, AB | Ardrossan Athabasca Bon Accord Boyle Bruderheim Calling Lake Chipman Edmonton International Airport Fort Saskatchewan | Gibbons Grassland Lac La Biche Lamont Newbrook Plamondon Radway Redwater Sherwood Park | Smoky Lake St. Michael Thorhild Tofield Wandering River Warspite Waskatenau |
| STURGEON STALAB01 St. Albert, AB | Cadomin Grande Cache Hinton Jasper | Legal Morinville Namao Spruce Grove | St. Albert |
| WESTLOCK WLOCAB01 Westlock, AB | Barrhead Blue Ridge Clyde Flatbush | Fort Assiniboine Jarvie Mayerthorpe Rochester | Sangudo Swan Hills Westlock Whitecourt |
| WOOD BUFFALO FTMMAB03 Fort McMurray, AB | Anzac Conklin Fort Chipewyan Fort MacKay | Fort McMurray | |
| YELLOWHEAD EDSOAB01 Edson, AB | Edson Jasper East Marlboro Niton Junction | Peers Robb | |

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.3 **Terms and Conditions - Continued**

8. Locations of Approved SPOIs

| Number Plan Area Code | SPOI Locations |
|-----------------------|---|
| 403 | Calgary, AB CLGRAB01 Red Deer, AB RDDRAB01 |
| 780 | Edmonton, AB EDTNABXM Sherwood Park, AB SWPKAB01 |

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215 **Local Network Interconnection and Component Unbundling - Continued**

ITEM

215.4 **Rates and Charges**

1. Local Network Interconnection

Rates and charges for the elements below are specified in the tables following these descriptions, unless otherwise specified.

a. Digital Transport Facilities

Digital transport facilities between a CLEC's switch and the Company's switch may be provided at the rates and charges specified in the CRTC 21461 Item 500.

b. CCS7 Signalling Interconnection

The CCS7 Interconnection provides CLECs with the ability to interconnect their own CCS7 signalling network with the TCI CCS7 signalling network in order to exchange the signalling information necessary to support the completion of calls between the two networks.

| | <u>Monthly Rate</u> | |
|--|---------------------|---|
| CLEC switch to TCI's gateway STP or SPOI, multiples of 4 links, each link | \$995.83 | R |
| One-time service charge associated with engineering, operations and translations work required to provision the initial CCS7 Interconnection for CLEC switch to TCI's gateway STP connection or SPOI. | \$46,157.60 | |
| For subsequent additions or changes to the CCS7 Interconnection arrangements, a charge based upon the expense incurred will be assessed on a Special Assembly basis. | | |
| Service charges will be assessed on a Special Assembly basis, for translations or other activities associated with existing CCS7 Interconnections, when changes are made necessary because of CLEC rearrangements. | | |

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215 **Local Network Interconnection and Network Component Unbundling - Continued**

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215.4 **Rates and Charges – Continued**

c. CCS7 Cross – Connection

CCS7 Cross-Connection – a Digital Transmission path which supports the transmission of a DS-0 channel signal from the CLEC’s co-located transmission equipment to the TCI gateway STP.

Monthly Rate

per Cross-Connection

\$84.31

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d. Routing of CLEC 800/877/888 Calls

CLEC originated 800/877/888 calls may be routed to the TCI gateway. TCI will perform the switching and aggregation, carrier identification and routing to the 800/877/888 service provider. These calls may be routed over either one-way or “Bill and Keep” two-way trunks. If one-way trunks are used, the CLEC is responsible for all costs associated with provisioning the trunks between its switch and the TCI gateway, due to the unidirectional nature of the connection. If two-way trunks are used, the CLEC shares with TCI the costs of provisioning the trunks between its switch the TCI gateway. Regardless of whether one-way or two-way trunks are used, trunk termination charges do not apply.

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.4 **Rates and Charges - Continued**

2. Network Component Unbundling

Rates and charges for the elements below are specified in the tables following these descriptions, unless otherwise specified.

a. Unbundled Network Components

i. Local Loops

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A Type A Local Loop is an Analogue Transmission path which extends from the CUST-NI in single family dwellings and the Service Provider Demarcation Point or the Customer Demarcation Point in multi-dwelling units (MDUs), to the COLT and supports the transmission of a voice-grade signal of approximately 3 kHz usable bandwidth terminating in a 2-wire electrical interface at both the End-customer's Premises and at the COLT.

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.4 **Reserved For Future Use**

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.4 **Reserved for Future Use**

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215 **Local Network Interconnection and Component Unbundling – Continued**

ITEM

215.4 **Reserved for Future Use**

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215 **Local Network Interconnection and Network Component Unbundling - Continued**

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215.4 **Rates and Charges – Continued**

2. Network Component Unbundling – Continued

(b) RESERVED FOR FUTURE USE.

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(c) RESERVED FOR FUTURE USE.

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.4 **Rates and Charges – Continued**

(d) Connecting Links (Local Loops)

A Connecting Link is a transmission path which connects a Company-provided Local Loop from the COLT to the CLEC's co-located transmission equipment located in the Company's Central Office Building. The types of Connecting Links are:

Connecting Link A

Connecting Link A is an Analogue Transmission path which supports the transmission of a voice grade signal of approximately 3 kHz usable bandwidth.

Connecting Link B

Connecting Link B is a Digital Transmission path which supports the transmission of an ISDN BRI type signal.

The following rates and charges apply for Connecting Links:

| | <u>Monthly Rate</u> | <u>Service Charge</u> | |
|----------------------------------|---------------------|-----------------------|---|
| Connecting Link A, per 100 Links | \$0.92 | \$387.79 | R |
| Connecting Link B, per 100 Links | 0.92 | 387.79 | |

In addition, for the use of Central Office riser space, a monthly rate of \$0.4810 per metre, per cable will apply for Connecting Links A and B. |

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215 **Local Network Interconnection and Component Unbundling - Continued**

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215.4 **Rates and Charges - Continued**

2. Network Component Unbundling - Continued

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ii. RESERVED FOR FUTURE USE.

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215 **Local Network Interconnection and Network Component Unbundling - Continued**

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215.4 **Rates and Charges – Continued**

iii. Relay Service

Relay Service, as offered by TCI, provides a deaf, hard of hearing or speech-impaired customer with the ability to communicate with other customers through the use of a Teletypewriter (TTY) or a computer (IP Relay service). A separate rate per Network Access Service (NAS) or per Working Telephone Number (WTN) will be assessed to the CLEC for access to TCI's Relay Service.

The Company's IP Relay service enables a person using an Internet-enabled device (e.g. personal computer) to communicate with another person (or vice-versa) over the telephone network. A specially trained operator transmits messages via Internet Protocol (IP)-based text conversation with a person with a hearing or speech disability and via voice conversation with a person without such a disability.

All references to Relay Service include both TTY-based Relay service and IP Relay service.

Basic emergency service is provided for emergency calls placed through Message Relay and IP Relay Services. End-users placing an emergency call through Message Relay and IP Relay Services will be routed to an operator and the end-user will be asked to provide their location, city and province in which the emergency exists. Once this information has been successfully provided to the Operator, the Operator will route the end-user's call to the appropriate Public Safety Answering Point (PSAP) corresponding to the provided location.

Access to Relay Service is available to CLECs using their own switches at the following rates and charges:

| | Monthly Rate | Service Charge | |
|------------------------|--------------|----------------|---|
| Setup Charge, per CLEC | | \$117.26 § | A |
| Per NAS or WTN | \$0.11 | | |

§ Pursuant to Telecom Decision CRTC 2008-17, the rate is frozen effective March 3, 2008. N

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215 **Local Network Interconnection and Component Unbundling - Continued**

ITEM

215.4 **Rates and Charges – Continued**

iv. Emergency Service (9-1-1)

- a) Emergency Service (9-1-1) provides a CLEC with access to TCI’s Emergency 911 Service.
- b) Emergency Service (9-1-1) is available to CLECs by establishing a trunk-side interconnection to the Company's 9-1-1 Tandem Switch. A separate rate per NAS will be assessed to the CLEC for such access.

The type of access may vary with the type of service available in TCI's operating territory, but will generally involve one or two types:

1) Regional Emergency 9-1-1 Service:

- to be negotiated between TCI, the CLECs and Agencies.

2) Province-wide 9-1-1:

- Province-wide 9-1-1 Service access is provided at the rates and charges shown. In addition, data connections are provided between the CLEC's customer record information system and TCI's database interface.

| | Monthly Rate | Service Charge | |
|--|-----------------|-------------------|-------|
| i) 9-1-1 province-wide access or Regional Emergency 9-1-1 Service is provided to CLECs for use by their end-customers, per NAS or WTN. | (Note 1) | | |
| ii) 9-1-1 tandem trunks between the CLEC’s local switch and the Company’s 9-1-1 tandem switch, (Note 3) | | | C |
| per DS-0, per Order | \$46.49 | \$353.47 | A |

Note 1: The monthly rate as contained in CRTC 21461 Item 203.3, Provincial 9-1-1 Service, will apply.

Note 2: Pursuant to Telecom Decision CRTC 2007-44, the CLEC may not load WTNs in TCI’s database defined as fixed/non-native and/or nomadic VoIP services. The CLEC must route 9-1-1 calls from these numbers over zero-dialed emergency call routing service.

Note 3: Pursuant to Telecom Decision CRTC 2008-17, the rates for CLEC access to 9-1-1 are frozen effective March 3, 2008.

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ITEM

215 **Local Network Interconnection and Component Unbundling - Continued**

ITEM

215.4 **Rates and Charges - Continued**

iv. Emergency Service (9-1-1) - continued

c) Additional Information

The CLEC shall pay the following rates and charges for additional information:

- i) Address List (Notes 1,2)
- ii) 9-1-1 Maps (Notes 1,2,3)

Note 1: The CLEC shall pay all costs incurred by TCI associated with the development and provision of the additional information.

Note 2: An hourly labour rate of \$73.60 per hour, with a minimum charge of 4 hours per municipality, will apply. R

Note 3: TCI will provide on an interim basis paper copies of available 9-1-1 Maps.

ITEM

215 **Local Network Interconnection and Component Unbundling - Continued**

ITEM

215.4 **Rates and Charges – Continued**

v. Transit Services

- a) Local Transit service provides CLECs with the option to deliver traffic via the Company's network to other CLECs for calls that terminate within the same EAS area or LIR as the exchange where transit traffic is delivered to the Company.

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The monthly charges apply on a per trunk basis for each trunk used to deliver local exchange transit traffic to TCI and applies based on the size of the trunk group.

The service charge includes a one-time order processing charge and a trunk activation/change charge per trunk.

- b) Toll Transit – originating and terminating traffic, monthly charges apply to the IXC for any incremental interconnecting circuits and for network usage.

ITEM

215 **Local Network Interconnection and Component Unbundling - Continued**

ITEM

215.4 **Rates and Charges - Continued**

v. Transit Services - Continued

| | Monthly Rate | Service Charge |
|---|--------------|----------------|
| Local Transit Service (Note) | | |
| - All <u>charges applicable to CLECs</u> | | |
| Order Processing, each order | N/A | \$152.72 |
| Trunk activation or change, each trunk | N/A | 23.23 |
| Transit Charge | | |
| Up to 24 trunks, each trunk | 26.50 | N/A |
| Up to 48 trunks, each trunk | 27.14 | N/A |
| Up to 72 trunks, each trunk | 27.37 | N/A |
| Up to 96 trunks, each trunk | 27.46 | N/A |
| More than 96 trunks, each trunk | 27.51 | N/A |
| Toll Transit Service – terminating traffic | | |
| - <u>Charges applicable to IXC's</u> | | |
| Interconnecting Circuits | (Note 1) | (Notes 1, 2) |
| Network Usage Charge, per minute | (Note 3) | N/A |

Note: Local Transit Service traffic may be combined on the same trunks delivering CLEC traffic within an EAS, as provided in Item 215.4.2.c, Combined Delivery of Local Exchange Transit Traffic and CLEC Traffic within EAS. The rates and charges as specified in Item 215.4.2.c shall apply. **As of May 29, 2006, this service is no longer available to CLECs seeking interconnection on a LIR basis. It will continue to be available, where already installed, for CLECs that were interconnected with the Company on an exchange basis prior to that date. No moves, additions or changes will be allowed.**

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ITEM

215 **Local Network Interconnection and Component Unbundling - Continued**

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ITEM

215.4 **Rates and Charges – Continued**

vi. CCS7 Transit Services

- a) The proposed Basic CCS7 Transit service provides for the transiting of Integrated Services Digital Network User Part (“ISUP”) messages where the carriers have implemented direct message trunking and TCAP messages to support Calling Features functionality, between CLECs, between CLECs and WSPs, and between WSPs operating in the same exchange and between CLECs and IXCs, between WSPs and IXCs and between IXCs.
- b) Enhanced CCS7 Transit service provides all the functionality of Basic CCS7 Transit service regardless of which ILEC territories the carriers operate in.
- c) CCS7 Transit to a competitive LNP SCP service provides for the transiting of TCAP messages between a CLEC, IXC or WSP and a competitive LNP SCP service provider to query a competitive LNP SCP and return the CCS7 response message.

The monthly rate for either the Basic or Enhanced CCS7 Transit services and/or CCS7 Transit to a competitive LNP SCP applies for each ILEC territory in which a CLEC or IXC operates.

CCS7 Transit to a competitive LNP SCP monthly rate applies to the competitive LNP SCP service provider once for each of its customers using the CCS7 Transit service to connect to its competitive LNP SCP service and once for each ILEC territory where each of its customers operate.

Service charges apply per order on both the initial and subsequent orders.

ITEM

215 **Local Network Interconnection and Component Unbundling - Continued**

ITEM

215.4 **Rates and Charges - Continued**

vi. CCS7 Transit Services - continued

The Customer shall pay to TCI the following rates and charges for CCS7 Transit Service. Such rates and charges are in addition to any other rates and charges that may be applicable.

| | Monthly Rate | Service Charge | |
|---|--------------|----------------|---|
| CCS7 Transit Service | | | |
| Basic CCS7 Transit Service (Note 1) | \$391.92 | - | R |
| Enhanced CCS7 Transit Service (Note 1) | 478.86 | - | |
| Competitive LNP SCP (Note 1 & 2) | 604.90 | - | |
| <u>Initial Service Charge</u> , per order (Note 3) | - | \$2,572.32 | |
| <u>Subsequent Service Charge</u> , per order (Note 4) | - | 1,691.88 | |

Note 1: The monthly rate for Basic and Enhanced CCS7 Transit services or CCS7 Transit to a competitive LNP SCP services applies per ILEC territory.

Note 2: A competitive LNP SCP service provider must subscribe once for each of its customers using the CCS7 Transit to a competitive LNP SCP service and once for each ILEC territory where each of its customers operate.

Note 3: A service charge of \$2,572.32 applies per order, for an initial CCS7 transit service request independently from the type of CCS7 Transit service ordered, the number of locations within an ILEC's territory, the number of ILEC's territories where transiting is requested or the number of carriers associated with the transit arrangements.

Note 4: A service charge of \$1,691.88 applies per order, for a subsequent CCS7 transit service request independently from the type of CCS7 Transit service ordered, the number of locations within an ILEC's territory, the number of ILEC's territories where transiting is requested or the number of carriers associated with the transit arrangements.

ITEM

215 **Local Network Interconnection and Network Component Unbundling - Continued**

ITEM

215.4 **Rates and Charges – Continued**

2. Network Component Unbundling (continued)

b. Compensation for Traffic Termination

i. Termination of Bill and Keep Traffic

For traffic that is interchanged between a CLEC and TCI over designated Bill and Keep trunks, traffic imbalance may occur. When a traffic imbalance exists, the party, either the CLEC or TCI, which originates less traffic than it terminates is entitled to compensation. It is the responsibility of the party who is entitled to the compensation to detect and apply charges for the imbalance.

TCI will notify the CLEC when an imbalance is detected and the Company is entitled to compensation. The monthly rates specified below apply, for each trunk required on the basis of actual traffic imbalances, from the date of notification of the imbalance, for as long as the imbalance exists.

Exchange-Based Interconnection (Note 1)

| For traffic imbalance of | <u>Monthly Rate</u> | | | R |
|--------------------------------|----------------------------|----------------------------|----------------------------|---|
| | greater than <u>20%</u> | greater than <u>40%</u> | greater than <u>60%</u> | |
| up to 24 trunks, per trunk | \$ 4.63 | \$ 7.71 | \$10.79 | |
| up to 48 trunks, per trunk | 7.24 | 12.14 | 16.96 | |
| up to 72 trunks, per trunk | 8.10 | 13.44 | 18.80 | |
| up to 96 trunks, per trunk | 8.49 | 14.13 | 19.81 | |
| more than 96 trunks, per trunk | 8.67 | 14.50 | 20.25 | |

LIR-Based Interconnection (Note 2)

| For traffic imbalance of | <u>Monthly Rate</u> | | | | | | | | |
|--------------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | >10% | >20% | >30% | >40% | >50% | >60% | >70% | >80% | >90% |
| Up to 24 trunks, per trunk | \$ 1.53 | \$ 2.54 | \$ 3.58 | \$ 4.59 | \$ 5.60 | \$ 6.65 | \$ 7.65 | \$ 8.63 | \$ 9.68 |
| Up to 48 trunks, per trunk | 2.40 | 3.98 | 5.60 | 7.19 | 8.82 | 10.40 | 12.00 | 13.62 | 15.20 |
| Up to 72 trunks, per trunk | 2.67 | 4.42 | 6.21 | 7.98 | 9.75 | 11.52 | 13.30 | 15.05 | 16.85 |
| Up to 96 trunks, per trunk | 2.79 | 4.67 | 6.53 | 8.39 | 10.26 | 12.12 | 14.00 | 15.87 | 17.73 |
| More than 96 trunks, per trunk | 2.86 | 4.78 | 6.70 | 8.58 | 10.49 | 12.44 | 14.34 | 16.25 | 18.15 |

Note 1: Rates apply only to CLECs that are interconnected with the Company on an exchange basis as of May 29, 2006.

Note 2: Rates apply in all situations not addressed in Note 1.

ITEM

215 **Local Network Interconnection and Component Unbundling - Continued**

ITEM

215.4 **Rates and Charges - Continued**

2. Network Component Unbundling (continued)

b. Compensation for Traffic Termination (continued)

i. Termination of Bill and Keep Traffic (continued)

The table below indicates the percentages of the monthly compensation payments to a CLEC when the total volume of traffic exchanged between the CLEC and TELUS over all local shared-cost trunks is at least 10 million minutes per month and the volume of traffic in the direction of that CLEC network is more than 80 percent of the total traffic exchanged between the CLEC and TELUS (the Traffic Threshold) for three months or more. The percentages set out in the table below will continue to apply for each month until the traffic falls to, or below, the Traffic Threshold.

Following the initial application of the percentages in the table below, the percentages will apply in any subsequent month when the total volume of traffic exchanged between the CLEC and TELUS over all their local shared-cost trunks is at least 10 million minutes per month, and the volume of traffic in the direction of that LEC network is more than the Traffic Threshold.

The compensation payments are calculated by applying the percentages to the amounts payable using the rates identified in the tables above.

| Percentage of LEC traffic in one direction over total traffic exchanged between LECs | Percentage of the compensation payments to a LEC with highest % traffic in one direction |
|---|---|
| ≤ 80 | 100 |
| >80 | 95 |
| >82 | 90 |
| >84 | 85 |
| >86 | 80 |
| >88 | 75 |
| >90 | 65 |
| >92 | 55 |
| >94 | 45 |
| >96 | 35 |
| >98 | 25 |

ITEM

215 **Local Network Interconnection and Network Component Unbundling - Continued**

ITEM

215.4 **Rates and Charges - Continued**

2. Network Component Unbundling (continued)

b. Compensation for Traffic Termination

ii. Delivery of CLEC Traffic within TCI's Extended Areas of Service (EAS)

For purposes of Item 215.4.2.b.ii, "originating exchange" means the exchange where transit traffic is delivered to the Company.

CLEC traffic can be delivered to TCI's subscribers in other exchanges that have EAS with the originating exchange via separate one-way or two way trunks interconnected to the TCI gateway in the originating exchange. (Note)

If one-way trunks are used, the CLEC is responsible for all costs associated with provisioning the trunks between its switch and the TCI gateway, due to the unidirectional nature of the connection. In addition, the Service Charges and trunk termination charges specified below apply to the one-way trunks.

If two-way trunks are used, the CLEC shares with TCI, the costs of provisioning the trunks between its switch and the TCI gateway, due to TCI's ability to route traffic from its subscribers within the EAS area to the CLEC over these trunks. In addition, the trunk termination charges specified below apply to one half of the number of trunks in the two-way trunk group. Service Charges do not apply.

| | | |
|--|-----------------------|---|
| | <u>Service Charge</u> | |
| Order Processing Charge, each order | \$121.68 | R |
| Interconnection trunk activation or change, each trunk | 18.52 | |
| | <u>Monthly Rate</u> | |
| Trunk Termination Charge | | |
| up to 24 trunks, per trunk | \$15.36 | |
| up to 48 trunks, per trunk | 24.08 | |
| up to 72 trunks, per trunk | 26.65 | |
| up to 96 trunks, per trunk | 28.05 | |
| more than 96 trunks, per trunk | 28.77 | |

ITEM

215 **Local Network Interconnection and Component Unbundling - Continued**

ITEM

215.4 **Rates and Charges - Continued**

2. Reserved for future use

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