

CARRIER ACCESS TARIFF

Item

105 LOCAL NETWORK INTERCONNECTION AND COMPONENT UNBUNDLING

A. GENERAL

1. The services and arrangements contained in this Tariff item and related Company tariffs and agreements are made available to Commission-approved Competitive Local Exchange Carriers (CLEC). Component unbundling arrangements are also made available to Digital Subscriber Line Service Providers (DSLSP) as specified in D.3. below.
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.
3. Insofar as they are reasonably applicable and not inconsistent with this Tariff item, all other Company tariffs, including any amendments to or replacements of them, extend and apply to this tariff item. The General Regulations or Terms of Service of the Company including any amendments to or replacements of them, apply to this tariff item, with such modifications as the circumstances require.
4. 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 the Company's facilities permit, a CLEC may, except where expressly prohibited by the Company's tariffs:
 - (a) interconnect their local services and facilities to the Company's services and facilities, offered under this Tariff item, subject to availability of the Company's services and facilities;
 - (b) resell or share any of the Company's services and facilities;
 - (c) provide local exchange telephone services; and,
 - (d) provide service to its customers which incorporates interconnection to the Public Switched Telephone Network (PSTN), using its own facilities, the Company's facilities or the facilities of another facility provider.
5. 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.

B. DEFINITIONS

For the purpose of this Tariff item:

"Analogue Transmission" is a telecommunications transmission which uses continuous signals to carry information.

"Band" is a collection or categorization of the Company's exchanges or Central Office Codes (NXXs) which may also be called Rate Band.

"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 does not 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 the premises which houses Company local switching equipment, and may also house toll switching equipment and co-located competitor transmission equipment.

"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.

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B. DEFINITIONS (Continued)

"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 Company-provided transmission path which terminates at the Company's distribution frame or other designated distribution device located in the Company's central office building or equivalent. The COLT may also be the end point of the Company-provided transmission path which terminates at the Company's distribution frame or other designated distribution device located at or near a Company's remote terminal.

"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 the Company and Interexchange Carriers. The CO Switch is associated with one or more CO codes (i.e., NXX codes).

"Competitive Local Exchange Carrier (CLEC)" means a Canadian Carrier as defined in Section 2 of the Telecommunications Act, recognized as a CLEC by the CRTC, pursuant to Telecom Decision CRTC 97-8.

"Connecting Link" is a transmission path which connects a Company-provided unbundled network component located or terminated within a Company CO building or equivalent (i.e., Local Loop), to a CLEC's co-located transmission equipment located within a Company CO building or equivalent.

"Customer Network Interface (CUST-NI)" is the point of termination or demarcation of a local loop specified in the Tariff item for primary exchange service.

"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.

"DS-0 Set" - a group of DS-0s which are of the same type (i.e., Feature Group D, Feature Group B, or 800/888) within the same DS-1, connected at the same location and ordered at the same time.

"End-customer" is the ultimate user of all telecommunications services sold on a retail basis by CLECs, APLDS or the Company.

"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 the Company.

"Local Calling Area" is an area defined by the Company, wherein calls can be made by the Company's 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 105.C.6 within which traffic is exchanged with CLECS on a Bill and Keep basis.

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B. DEFINITIONS (Continued)

"Local Loop" is a Company-provided transmission path between, and including, the CUST-NI located at the end-customer's premises and the COLT.

"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.

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

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

"Trunk Group" is a group of equivalent trunks.

C. TERMS AND CONDITIONS

1. General

- (a) The Company will provide the elements of local network interconnection and component unbundling subject to the availability of suitable facilities.
- (b) A CLEC may subscribe to "Local Loops" within a single CO building.
- (c) The Company 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.
- (d) 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
- (e) 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.
- (f) 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.
- (g) The elements of local network interconnection and component unbundling are provided in accordance with the specifications, interfaces and parameters described in this Tariff item and applicable technical references. 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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105 LOCAL NETWORK INTERCONNECTION AND COMPONENT UNBUNDLING (Continued)

C. TERMS AND CONDITIONS (Continued)

1. General (Continued)

- (h) For exchange-based interconnection, traffic imbalances may occur for traffic that is interchanged between a CLEC and the Company and terminated within the same exchange. Commencing six-months after commercial launch, once an imbalance is detected for three consecutive months on specific trunk group(s), the Company will notify the CLEC of the imbalance. The monthly rates will be applied on the basis of actual traffic imbalances from the date of notification for as long as the imbalance exists. Billing would commence one month from the date of notification. C
- (i) 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 |
- (j) Services provided under the terms and conditions of this Tariff item will be maintained in accordance with the technical references. F |
- (k) The provision of local network interconnection and component unbundling outlined in this Tariff item does not constitute a joint undertaking with the CLEC in the furnishing of any service. |
- (l) 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. |
- (m) 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. |
- (n) Subject to limitations imposed in paragraph 105.A.2, any facilities and services of the Company 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. |
- (o) 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. |
- (p) When it is necessary for a Company 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. |

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. The Company 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.

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105 LOCAL NETWORK INTERCONNECTION AND COMPONENT UNBUNDLING (Continued)

C. TERMS AND CONDITIONS (Continued)

2. Network and Facilities Changes (Continued)

- (c) The Company and 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) The Company 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 the Company, which shall not unreasonably be withheld.

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 Terms of Service or General Regulations, 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 Terms of Service or General Regulations, shall be made.

5. Transit Services - See CRTC 1005, Item 209

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See Page 5 for explanation of symbols.

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105 LOCAL NETWORK INTERCONNECTION AND COMPONENT UNBUNDLING (Continued)

C. TERMS AND CONDITIONS (Continued)

6. 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		
ALBERNI - CLAYOQUOT PTAIBC01 Port Alberni, BC	Ahousat Bamfield Port Alberni Tofino	Ucluelet	
CAPITAL VCTABC01 Victoria, BC	Cobble Hill Cortes Island Fulford Harbour Ganges Gold River Gulf Islands	Holberg Jordan River Ocean Falls Pender Islands Port Alice Port Hardy	Port Renfrew Saanich Sooke Tahsis Victoria Winter Harbour
CARIBOO WLLKBC01 <i>Williams Lake, BC</i>	100 Mile House 108 Mile House 150 Mile House Alexis Creek Alkali Lake Beaver Valley Bella Coola Bouchie Lake Bridge Lake	Dragon Lake Forest Grove Hagensborg Hendrix Lake Horsefly Lac La Hache Likely McLeese Lake Nimpo Lake	Puntzi Quesnel Riske Creek Tatla Lake Wells Wildwood Williams Lake
CENTRAL KOOTENAY NLSNBC01 <i>Nelson, BC</i>	Balfour Boswell Crawford Bay Duncan Lake Fauquier	Kaslo Nakusp Nelson North Nelson Riondel	South Slokan Thrums Trout Lake
CENTRAL OKANAGAN KLWNBC02 <i>Kelowna, BC</i>	Beaverdell Christina Lake Grand Forks Hedley Kelowna Keremeos	Lakeview Heights Manning Park Merritt Okanagan Mission Osoyoos	Oyama Peachland Princeton Rutland Westbank Winfield
COLUMBIA - SHUSWAP SLAMBC01 <i>Salmon Arm, BC</i>	Celista Chase Mica Creek Revelstoke	Salmon Arm Sicamous Sorrento Tappen	
COMOX - STRATHCONA CBRVBC01 Campbell River, BC	Alert Bay Beaver Cove Campbell River Comox Courtenay Cumberland	Kyuquot Oyster Bay Port McNeill Quadra Island Sayward Sointula	Union Bay Willow Point Woss Lake Zeballos
COWICHAN VALLEY DNCNBC01 Duncan, BC	Duncan Lake Cowichan Youbou		

See Page 5 for explanation of symbols.

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C. TERMS AND CONDITIONS (Continued)

6. Definition of Approved LIRs (Continued)

LIR Name and POI Location	Assigned Exchanges		
EAST KOOTENAY CRBKBC01 Cranbrook, BC	Canal Flats Cranbrook Creston Donald Elkford Elko Fairmont Fernie	Field Golden Grasmere Invermere Jaffray Kimberley Moyie Parson	Radium Skookumchuck Sparwood Spillimacheen Wynndel Yahk
FRASER VALLEY ABFD01 Abbotsford, BC	Abbotsford Agassiz Chilliwack Hemlock Valley	Hope Mission Rosedale Sardis	Yale Yarrow
FRASER - FORT GEORGE PGRGBC01 Prince George, BC	70 Mile House Bear Lake Burns Lake Chief lake Chilako Clinton Cluculz Lake Decker Lake Dunster Fort Fraser Fort St. James Francois Lake	Fraser Lake Giscome Granisle Grassy Plains Hansard Hartway Hixon Loos Mackenzie McBride McLeod Lake	Pineview Prince George Red Rock Salmon Valley Summit Lake Tachie Tsay Keh Dene Valemount Vanderhoof Vanway
GREATER VANCOUVER VANCBC08 Vancouver, BC	Aldergrove Boston Bar Bowen Island Britannia Beach Cloverdale Fort Langley Haney Ladner	Langley New Westminster Newton North Vancouver Pitt Meadows Port Coquitlam Port Moody Richmond	Squamish Vancouver West Vancouver Whalley White Rock Whonnock
KITIMAT - STIKINE TRRCBC02 Terrace, BC	Aiyansh Bella Bella Greenville Hartley Bay Hazelton Houston	Kincolith Kitimat Kitkatla Kitsault Kitwanga Klemtu Lakelse Lake	Port Edward Port Simpson Smithers Stewart Telkwa Terrace Topley
KOOTENAY BOUNDARY TRALBC01	Castlegar Fruitvale Genelle	New Denver Roseland Salmo	Slocan Trail Vallican
NANAIMO NNIMBC01 Nanaimo, BC	Bowser Cedar Chemainus Gabriola Island	Ladysmith Lantzville Lasqueti Island Nanaimo	Nanoose Parksville Qualicum Wellington
NORTH OKANAGAN VERNBC01 Vernon, BC	Armstrong Enderby Falkland Lumby	Vernon	

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See Page 5 for explanation of symbols.

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C. TERMS AND CONDITIONS (Continued)

6. Definition of Approved LIRs (Continued)

LIR Name and POI Location	Assigned Exchanges		
OKANAGAN - SIMILKAMEEN PNTNBC02 Penticton, BC	Greenwood Midway Naramata Okanagan Falls Oliver	Penticton Rock Creek Summerland	
DISTRICT OF PEACE* DWCKBC01 Dawson Creek, BC	Chetwynd Dawson Creek East Pine Flatrock Fort St. John	Hudson's Hope Montney Pouce Coupe Prespatou Rolla	Taylor Tumbler Ridge Willowbrook
POWELL RIVER PWRVBC01 Powell River, BC	Black Point Powell River Van Anda Westview		
SKEENA - QUEEN CHARLOTTE MASTBC01 Masset, BC	Masset Port Clements Queen Charlotte Sandspit		
Squamish - Lillooet WSLRBC01 Whistler, BC	D'Arcy Gold Bridge Pemberton Shalalth	Whistler	
SUNSHINE COAST GBSNBC01 Gibsons, BC	Gibsons Pender Harbour Port Mellon Sechelt		
THOMPSON - NICOLA KMLPBC01 Kamloops, BC	Ashcroft Aspen Park Avola Barriere Blue River Cache Creek Clearwater	Dallas Douglas Lake Lillooet Little Fort Logan Lake Lytton North Kamloops	Pritchard Savona South Kamloops Spences Bridge Vavenby Westsyde Westwold

7. Locations of Approved SPOIs

Number Plan Area Code	SPOI Locations
250	Victoria, BC VCTABC01 Kamloops, BC KMLPBC01
604 and 778	Vancouver, BC VANCBC08 New Westminster, BC NWMRBC01

* Formerly the PEACE RIVER LIR.

See Page 5 for explanation of symbols.

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ITEM

105 LOCAL NETWORK INTERCONNECTION AND COMPONENT UNBUNDLING (Continued)

C. TERMS AND CONDITIONS (Continued)

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D. RATES

1. Local Network Interconnection

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

(a) CCS7 Signalling Interconnection

- (i) CCS7 Interconnection provides CLECs with the ability to interconnect their own CCS7 signalling network with the Company CCS7 signalling network in order to exchange the signalling information necessary to support the completion of calls between the two networks.
- (ii) CCS7 Cross-Connection provides a digital transmission path which supports the transmission of a DS-0 channel signal from the CLEC's co-located transmission equipment to the Company gateway STP.
- (iii) A one-time service charge applies for the engineering, operations and translations work required to provision the initial CCS7 Interconnection for CLEC switch to the Company gateway STP connection or SPOI.
- (iv) CLEC requests for rearrangements and subsequent additions to CLEC switch to the Company gateway STP or SPOI connections will be provided for through a Special Assembly Tariff, based on the expense incurred where applicable.

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(b) Routing of CLEC 800/888 Calls

CLEC originated 800/888 calls may be routed to the Company gateway. The Company will perform the switching and aggregation, carrier identification and routing to the 800/888 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 Company gateway, due to the unidirectional nature of the connection. If two-way trunks are used, the CLEC shares with the Company the costs of provisioning the trunks between its switch and the Company gateway. Regardless of the directionality, trunk termination charges do not apply.

2. Unbundled Network Components

(a) Local Loops

- (i) A local loop is a Company-provided transmission path between and including the Customer Network Interface (CUST-NI) located at the end-customer's premises and the COLT. CLECs will be able to obtain local loops from the Company subject to the availability of suitable facilities.
- (ii) Additional charges apply for local loops provided outside of the Base Rate Area of an exchange.
- (iii) Additional charges also apply in situations where the provision of loops requires extra work or equipment (e.g., loop extenders for Type B loops).
- (iv) A Loop Selection Charge applies whenever a CLEC requests the identification of the availability of a loop, in a given location, meeting a specific loop category profile. This service charge includes a report which identifies whether a loop meeting a specific loop category profile is available in a given location and provides the loop make-up. In the event that a loop which meets the requested loop category profile is not available in a given location, the CLEC may request the removal of bridge taps and/or loading coils from a loop at that location. In such cases, a Loop Modification Charge applies based on the amount of labour and cost of material required to remove the bridge taps and/or loading coils.

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See Page 5 for explanation of symbols.

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105 LOCAL NETWORK INTERCONNECTION AND COMPONENT UNBUNDLING (Continued)

D. RATES (Continued)

2. Unbundled Network Components (Continued)

(a) Local Loops (Continued)

(v) The number of Rate Bands may vary by local loop type.

(vi) The following types of Local Loops are available.

Type A

A Type A Local Loop is an analogue transmission path which extends from the CUST-NI 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.

Type B

A Type B Local Loop is a digital transmission path which extends from the CUST-NI to the COLT and supports the transmission of an ISDN BRI (Basic Rate Interface) type signal terminating in a 2-wire electrical interface at both the end-customer's premises and at the COLT.

Type C

A Type C Local Loop is a digital transmission path which extends from the CUST-NI to the COLT and supports the transmission of an ISDN PRI (Primary Rate Interface) type signal terminating in a 4-wire electrical interface at both the end-customer's premises and at the COLT.

Type C Local Loops are provided at the rates and charges specified in Item 447 of TCBC General Tariff (CRTC 1005). (Effective 2005 02 03, see also Competitor Digital Network (CDN) Services in the Company's Carrier Access Tariff (CRTC 21462), Item 224, as applicable).

Type C Local Loops are no longer available for new installations as of May 22, 2007. Moves, additions or changes for Type C Local Loops already in service will no longer be permitted after May 22, 2007. Customers seeking new installations or existing customers seeking moves, changes or additions can do so by subscribing to the Company's Carrier Access Tariff (CRTC 21462) Item 224, Competitor Digital Network (CDN) Service, as applicable.

(vii) In the case of MDUs, CLECs have the option of terminating leased unbundled loops provided by TCI either at the service provider demarcation point or at the customer demarcation point, at current rates.

(viii) Also in the case of MDUs, CLECs that do not lease unbundled loops provided by TCI but rather bring their own facilities into the building, are permitted to connect to and use the In-building Wire under TCI's responsibility and control, at no charge. At the time of connection by a CLEC to the Company's copper In-Building Wire, the CLEC takes responsibility and control for its customer's end-to-end service.

(ix) Because the Commission has forborne, in Telecom Regulatory Policy CRTC 2009-19, with respect to the regulation of this service as set out in that decision, the Company may also provide the service in this tariff at rates and on terms different from the tariffed rates and terms pursuant to an agreement entered into between the Company and a competitor that has been filed with the Commission for the public record.

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See Page 5 for explanation of symbols.

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Item

105 LOCAL NETWORK INTERCONNECTION AND COMPONENT UNBUNDLING (Continued)

D. RATES (Continued)

2. Unbundled Network Components (Continued)

(b) Relay Service

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|-------|--|--------------------------------|
| (i) | Relay Service, as offered by the Company, 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 Relay Service. |

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| (ii) | 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. | N

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| (iii) | All references to Relay Service include both TTY-based Relay service and IP Relay service. |
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| (iv) | Access to Relay Service is available to CLECs using their own switches. | M |
| (v) | 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. | N

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105 LOCAL NETWORK INTERCONNECTION AND COMPONENT UNBUNDLING (Continued)

D. RATES (Continued)

2. Unbundled Network Components (Continued)

(c) Emergency Service (9-1-1)

- (i) Emergency Service (9-1-1) provides a CLEC with access to the Company's Emergency 9-1-1 Service.
- (ii) The 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 Network Access Service (NAS) or Working Telephone Number (WTN) will be assessed to the CLEC for such access.
- (iii) The type of access may vary with the type of service available in the Company's operating territory, but will generally involve one of two types:

a) Regional Emergency 9-1-1 Service:

- to be negotiated between CLECs, the Company and Agencies

b) Province-wide 9-1-1 Service:

- 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 the Company's 9-1-1 database interface.

3. The Local Network Interconnection and the Unbundled Network Component rates are as follows:

(a) Local Network Interconnection	<u>Rate Per</u> <u>Month</u>	<u>Service</u> <u>Charge</u>	
CCS7 Signalling Interconnection - CLEC Switch to the Company Gateway STP or SPOI, each link	\$ 951.27	---	R
One-Time Service Charge	---	\$ 45,736.25	
CCS7 Cross-Connection per Cross-Connection	67.13	---	
 (b) Unbundled Network Component (Notes 1, 3, & 4)			
	<u>Rate Per</u> <u>Month</u>	<u>Service Charge</u>	
		<u>Per Order</u>	<u>Per Loop</u>
		<u>Bus</u>	<u>Res</u>
Local Loops, per Loop		<u>(Note 2)</u>	<u>(Note 2)</u>
Type A		<u>Bus</u>	<u>Res</u>
Rate Band A	\$ 7.80	\$ 36.21	\$ 19.68
Rate Band B	16.78	36.21	19.68
Rate Band C	19.32	36.21	19.68
Rate Band D	16.73	36.21	19.68
Rate Band E	46.03	36.21	19.68
Rate Band F	35.77	36.21	19.68
Rate Band G	47.67	36.21	19.68
Type B		\$ 20.29	\$ 13.46
Rate Band A	7.80	36.21	19.68
Rate Band B	17.49	36.21	19.68
Rate Band C	19.33	36.21	19.68
Rate Band D	16.73	36.21	19.68
Rate Band E	N/A	N/A	N/A
Rate Band F	N/A	N/A	N/A
Rate Band G	N/A	N/A	N/A

- Notes: 1. Available to DSLSPs at the same rates and charges applicable for CLECs as specified below, and under the same applicable terms and conditions as specified for CLECs in C. Terms and Conditions above.
2. For one or more loop order requests from a multiple-unit dwelling (MDU), the residential loop service order charge will apply per order.
- See Page 157-A for continuation of Notes.

See Page 41 for explanation of symbols.

CARRIER ACCESS TARIFF

Item

105 LOCAL NETWORK INTERCONNECTION AND COMPONENT UNBUNDLING (Continued)

D. RATES (Continued)

3. (b) Unbundled Network Component (Continued)

C

Notes: 3. All Service Charges and per month Rates shown above in D 3 (b) are frozen, effective July 22, 2015 pursuant to the Appendix in Telecom Regulatory Policy CRTC 2015-326. |
4. Local Loop Rate Bands have been categorized by the Company based on the Company's wire centres as follows. The Company will continue to support Unbundled Local Loops in these wire centers during the phase-out period, consistent with Telecom Regulatory Policy CRTC 2015-326. |

Band A

Mutual, Regent and Trinity

Band B

Abbotsford, Aldergrove, Alpine, Amherst, Cypress, Fairfax, Hemlock, Kelowna, Lake City, Langley, Nanaimo, New Westminster, Newton, North Vancouver, Oak Bay, Prince George, Richmond, South Kamloops, Steveston, Victoria, Westwood, Whalley, and White Rock |

Band C

Chilliwack and North Kamloops

C

Band D

Penticton, Vernon and Whistler

C

D

See Page 41 for explanation of symbols.

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Item

105 LOCAL NETWORK INTERCONNECTION AND COMPONENT UNBUNDLING (Continued)

D. RATES (Continued)

3. The Local Network Interconnection and the Unbundled Network Component rates and charges are as follows: (Continued)

(c) Other Activities (Note 1)

	<u>Rate Per</u> <u>Month</u>	<u>Service</u> <u>Charge</u>	
Loop Selection, per loop	----	\$ 33.50	R
Loop Modification, per loop	----	(Note 2)	

(d) Connecting Links (Note 1):

Connecting Link A, per 100 links	\$ 0.91	---	
Service Charge, per 100 links	---	1,157.87	
Connecting Link B, per 100 links	0.91	---	
Service Charge, per 100 links	---	1,157.87	
Riser Space, per metre, per cable (Connecting Links A and B only)	0.2896 (Note 3)	---	

Because the Commission has forborne, in Telecom Regulatory Policy CRTC 2009-19, with respect to the regulation of this service as set out in that decision, the Company may also provide the service in this tariff at rates and on terms different from the tariffed rates and terms pursuant to an agreement entered into between the Company and a competitor that has been filed with the Commission for the public record.

(e) Relay Service:

Set-up Charge, per CLEC	---	114.33	
per NAS or WTN	0.16	---	

(f) Province-wide 9-1-1 Service:

Access by CLEC end-customers, per NAS or WTN	CRTC 21461 Item 203.3 (Note 4)	---	
Trunks between CLEC Switch & 9-1-1 Tandem Switch, per DS-0	110.60	---	
per Order	---	340.11	

- Notes:
1. Available to DSLSPs at the same rates and charges applicable for CLECs as specified below, and under the same applicable terms and conditions as specified for CLECs in C. Terms and Conditions above.
 2. This charge is determined based on the amount of labour and cost of material required to modify the existing loop to remove the bridge taps and/or loading coils. For labour rates refer to TCBC Carrier Access Tariff (CRTC 1017), Colocation Arrangements for Interconnecting Canadian Carriers, Item 110.D.5, Notes 4, 5 and 6.
 3. In the event that a CLEC's co-located equipment resides on the same floor as the Company's MDF, no Riser Space charges apply. However, unusual expenses may apply for the recovery of any expenses the Company incurs associated with the use of horizontal Riser Space.
 4. Pursuant to Telecom Decision CRTC 2007-44, the CLEC may not load WTNs in the Company'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.

See Page 41 for explanation of symbols.

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CARRIER ACCESS TARIFF

Item
105 LOCAL NETWORK INTERCONNECTION AND COMPONENT UNBUNDLING (Continued) N

D. RATES (Continued) |

3. The Local Network Interconnection and the Unbundled Network Component rates and charges are as follows: (Continued) |

(f) 7-hour T-1 Repair Interval Option - for cutover of TCI Type A or B leased local loops that a CLEC uses to restore its T-1 service: |

Where a CLEC is providing a T-1 service using a combination of the Company's Type A and/or B leased local loops and CLEC-provided equipment, the CLEC has an option of a seven (7) hour repair interval to restore the T-1 service if the leased loops are proven to be defective and where spare loops similar in nature can be provided. The seven (7) hour interval begins from the start of the co-ordinated testing between the Company and the CLEC technicians. Time and material charges incurred during the seven (7) hour interval to replace the local loops with alternative facilities and, as may be required, conduct subsequent testing of the new loops will be applicable and charged pursuant to the labour rates and charges in TCBC General Tariff (CRTC 1005), Item 111.1, plus material used. |

CARRIER ACCESS TARIFF

Item
105 LOCAL NETWORK INTERCONNECTION AND COMPONENT UNBUNDLING (Continued)

D. RATES (Continued)

4. Compensation for Traffic Terminations

(a) Termination of Bill and Keep Traffic

For traffic that is interchanged between a CLEC and the Company over Bill and Keep trunks traffic imbalance may occur. When a traffic imbalance exists, the party, either the CLEC or the Company, 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.

The Company will notify the CLEC when an imbalance is detected in the Company's favour. The monthly rates specified below apply, for each trunk required at the busiest hour of the month, on the basis of actual traffic imbalances from the date of notification of the imbalance, for as long as the imbalance exists.

For traffic imbalance of	Exchange-Based Interconnection (Note 1)			
	Rate Per Month			
	Greater than 20%	Greater than 40%	Greater than 60%	
up to 24 trunks, each trunk	\$ 5.41	\$ 9.01	\$ 12.59	R
up to 48 trunks, each trunk	8.49	14.19	19.84	
up to 72 trunks, each trunk	9.40	15.71	22.02	
up to 96 trunks, each trunk	9.91	16.50	23.12	
over 96 trunks, each trunk	10.17	16.93	23.69	

For traffic imbalance of	LIR-Based Interconnection (Note 2)									
	Rate Per Month									
	>10%	>20%	>30%	>40%	>50%	>60%	>70%	>80%	>90%	
Up to 24 trunks, per trunk	\$1.52	\$2.51	\$3.53	\$4.53	\$5.53	\$6.56	\$7.54	\$8.53	\$9.56	
Up to 48 trunks, per trunk	2.37	3.94	5.53	7.10	8.70	10.27	11.85	13.44	15.02	
Up to 72 trunks, per trunk	2.63	4.36	6.13	7.88	9.63	11.36	13.13	14.86	16.63	
Up to 96 trunks, per trunk	2.76	4.62	6.45	8.28	10.13	11.97	13.82	15.66	17.50	
More than 96 trunks, per trunk	2.82	4.73	6.61	8.47	10.36	12.27	14.15	16.05	17.92	

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.

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.

CARRIER ACCESS TARIFF

Item
105 LOCAL NETWORK INTERCONNECTION AND COMPONENT UNBUNDLING (Continued)

D. RATES (Continued)

4. Compensation for Traffic Terminations (continued)

(a) Termination of Bill and Keep Traffic (continued)

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

(b) Delivery of CLEC Traffic within the Company's EAS Areas

CLEC traffic originated in an exchange can be delivered to the Company's subscribers in other exchanges that have EAS with the originating exchange, via separate one-way or two-way trunks interconnected to the 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 gateway and the Company's 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 the Company the costs of provisioning the trunks between its gateway and the Company's gateway, due to the Company's ability to route traffic from its subscribers within the EAS area to the CLEC over these trunks. In addition, one-half of the trunk termination charges specified below apply to each of the trunks in the two-way trunk group. Service charges do not apply.

	Rate Per Month	Service Charge	
Order Processing, each order	----	\$ 144.73	R
Interconnection trunk activation or change, each trunk	----	15.97	
Trunk Termination Charge			
up to 24 trunks, each trunk	\$ 17.60	----	
up to 48 trunks, each trunk	27.65	----	
up to 72 trunks, each trunk	30.65	----	
up to 96 trunks, each trunk	32.21	----	
over 96 trunks, each trunk	33.05	----	

5. Compensation for Transit Services - See CRTC 1005, Item 209