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Competitor Digital Network (CDN) Services

Note: Some business service elements may be forborne to regulation, as identified in Telecom Decision CRTC 2008-17, *revised regulatory framework for wholesale services and definition of essential services* dated 3 March 2008

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1. Service Description

Competitor Digital Network (CDN) Services provide various arrangements to eligible Competitors for the digital transmission of information at DS-0, DS-1, DS-3, OC-3 and OC-12 transmission speeds.

CDN services within this Tariff item include:

- Access service
- Central office channelizing service
- Intra-exchange channel service

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Copper and Optical Central Office (CO) Connecting Links are available in SaskTel Competitor Access Tariff Item on Link Arrangements for Interconnecting Canadian Carriers.

Central office arrangements required to connect the above CDN services with each other are included within the above services. Competitor Link charges apply when connecting CO Connecting Links or CDN services with other SaskTel services as listed below:

- A CDN service with Access Tandem, Direct Connect, Wireless Service Provider (WSP) Network Access, or Local Network Interconnection services;
- A CO Connecting Link with Access Tandem, Direct Connect, WSP Network Access, or Local Network Interconnection services; or
- A CO Connecting Link with a CDN service.

2. Definitions

“Access service” provides the Competitor with a digital access facility from an end-customer premises or Competitor point of presence (POP) to the SaskTel serving wire centre.

“Central office channelizing service” channelizes multiple channels of the same bandwidth into a single channel of a higher bandwidth, or dechannelizes a single channel of a higher bandwidth into multiple channels of the same lower bandwidth, within a SaskTel central office.

“Channel measurement” the monthly rate for metropolitan inter-exchange channel service is based on the rate distance between the wire centres serving the

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2. Definitions - Continued

two end points of the channel, regardless of whether the exchanges are adjoining. The channel measurement is calculated in miles using the “V and H distance formula” defined in SaskTel’s General Tariff Item on Definitions.

“*Competitor*” refers to a Canadian carrier or reseller of SaskTel’s services who is duly registered with the CRTC and is the purchaser of CDN services from SaskTel. The Competitor can also be the end-customer.

“*Competitor Link*” provides the additional equipment required to complete a connection between CDN services and other SaskTel services, as described in the Service Description section of this Tariff.

“*DS-0*” is a channel capable of digital transmission at a nominal 64 Kbps rate.

“*DS-1*” is a channel capable of digital transmission at a 1.544 Mbps rate.

“*DS-3*” is a channel capable of digital transmission at a 44.736 Mbps rate.

“*End-customer*” refers to the party utilizing CDN service for digital transmission of information.

“*Intra-exchange channel service*” provides the digital channel facility between two wire centres within the same exchange whenever the service application requires one.

“*Metropolitan area*” is the SaskTel exchanges of Regina or Saskatoon and their respective extended area service (EAS) exchanges as defined in SaskTel General Tariff Item on Extended Area Service.

“*Metropolitan inter-exchange channel service*” provides the digital channel facility between a wire centre in a core metropolitan exchange (i.e. Regina or Saskatoon) and a wire centre of another exchange within the metropolitan area of that exchange.

“*OC-3*” is a channel capable of digital transmission at a nominal 155 Mbps rate.

“*OC-12*” is a channel capable of digital transmission at a nominal 622 Mbps rate.

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"Point of Presence or POP" for the purposes of this service, is defined as any Competitor location which the Competitor has designated as an interconnection site, and may or may not contain a switch.

"Serving wire centre" or *"SWC"* is the SaskTel building from which an end-customer premise or Competitor POP derives service.

"Serving wire centre area" is the geographical area served by the serving wire centre.

"Simple resale" which is prohibited, is defined as resale of CDN services without added value, e.g. if a Competitor buys services from SaskTel and resells those services to their end customer, without connecting the services to their own network. Simple resale includes rebilling.

3. Conditions of Service

1. SaskTel CDN service rates apply to new demand only as of February 3, 2005. Competitors may not migrate existing demand for SaskTel's retail DNA and IX service tariffs billed as of February 3, 2005 to any or all of the components of the CDN service. Where a CDN service has been added to the same location where the same or equivalent retail service existed prior to February 3, 2005, the CDN service will be terminated and transferred to the appropriate retail service and rating, if the existing retail service is disconnected.
2. Simple resale of any or all components of the CDN service is prohibited. Services that are deemed as simple resale will be rated at retail rates.
3. The chief executive officer (CEO) of a Competitor must file an affidavit with the CRTC annually, confirming that it is complying with the prohibition against simple resale of any or all components of the CDN service. This affidavit must also attest that the route or pathway associated with each leased access facility included as part of the CDN service ultimately connects at the Competitor POP in Canada. Audits of Competitor compliance with respect to the simple resale prohibition will be conducted when warranted.

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4. CDN services or any part thereof may be used in conjunction with other SaskTel services, Competitor self-supply, or third party services and facilities provided these arrangements meet the terms and conditions of SaskTel's CDN service. F
5. The route or pathway of each CDN access facility included as part of CDN services must ultimately connect at the Competitor's POP in Canada but may be outside of SaskTel's serving territory. CDN services may also be used from SaskTel's switch to the Competitor's switch to support interconnection services. F
6. The CDN access service, CDN intra-exchange service, and CDN central office channelizing service include the central office arrangements required to connect to each other when provisioned by SaskTel facilities within the appropriate SaskTel serving wire centre. F
7. Central office channelizing service is only available as a CDN service where the Competitor is not co-located in the serving wire centre. If the Competitor is co-located in the same CDN service serving wire centre, refer to the appropriate SaskTel Tariff Item for channelizing feature. F
8. Service is provided at SaskTel's discretion within such exchanges depending on the availability of suitable facilities and equipment. F
9. All components of CDN service are offered on a monthly basis for which a one month notice of termination is required. F

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3. Conditions of Service - *Continued*

10. When it is necessary for SaskTel to install special equipment or to incur an unusual expense to establish service, the Competitor shall pay an additional charge based on the equipment installed and the unusual expense incurred. F
11. If the end-customer or Competitor's POP is located outside the base rate boundary or island base rate boundary of a serving exchange area, an extra construction charge will apply in addition to the service charges for CDN access listed in this item. Refer to SaskTel General Tariff Items on Extended Data Access Charge and Extra Provisioning Charges. F
12. CDN service shall have a service level objective of an average four-hour mean time to repair (MTTR), determined on a monthly basis. F
13. The Competitor is solely responsible for the installation, operation and maintenance of end-customer provided terminal equipment. F
14. Competitor terminal equipment attached to SaskTel's network must be certified or connected through a certified network protection device in accordance with SaskTel's Terminal Attachment Standards. F
15. For the provision of CDN access, wire centres in SaskTel's territory are categorized according to bands depicting serving areas. SaskTel will determine the bands in which the access is served from the wire centre. F
16. For DS-0, DS-1, DS-3, OC-3 and OC-12 CDN accesses, prices vary with the band category assigned to SaskTel's wire centres as per SaskTel General Tariff Item on Network Access Service Rate Band Structure. F
17. SaskTel may also provide the service in this tariff at rates and on terms different from the tariffed rates and terms if the service is provided pursuant to an agreement entered into between the company and a competitor because the Commission has forborne, in Telecom Decision 2008-17, with respect to the regulation of this service. F

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Competitor Digital Network (CDN) Services - Continued
4. Rates

The Competitor shall pay to SaskTel the following rates and charges for CDN services. Such rates and charges are in addition to any other rates and charges that may be applicable.

(a) CDN Access Service (Note 3)

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The following rates and charges apply for each CDN Access as applicable, for each location.

CDN Access Type	Band	Monthly Rate	Service Charge
DS-0, each*	A	\$25.53	\$592.21
	B	\$36.63	\$592.21
	C	\$53.48	\$592.21
	E	\$105.18	\$592.21
	F	\$87.68	\$592.21
	G	\$96.18	\$592.21
DS-1, each* (Note 1, Note 2)	A	\$33.68	\$825.48
	B	\$43.86	\$825.48
	C	\$58.69	\$825.48
	E	\$98.77	\$825.48
	F	\$83.10	\$825.48
	G	\$86.03	\$825.48

Note 1: A second DS-1 access may be purchased, and diversely routed under SaskTel Competitive Services Tariff Item on Access Special Routing.

Note 2: Protection which provides duplicate connections on the customer premises between SaskTel's equipment and the customer's equipment is not available.

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Note 3: The rates for this item are frozen pursuant to paragraph 241 of Telecom Regulatory Policy CRTC 2015-326.

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* 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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Competitor Digital Network (CDN) Services - *Continued*

4. Rates - *Continued*

Competitor Link Service

The following rates and charges apply for each Competitor Link required as applicable. Competitor Link charges do not apply in scenarios where retail Digital Network Access (DNA) link charges apply.

Competitor Link Service Type*	Monthly Rate	Service Charge
DS-1 CDN to Access Tandem or Direct Connect, all Bands	\$ 11.22	\$ 154.93
DS-1 CDN to WSP Network Access or Local Network Interconnection, Bands A and B	11.22	154.93
DS-1 CO Connecting Link to Access Tandem, Direct Connect, WSP Network Access, or Local Network Interconnection service (Note 1)	11.22	154.93
DS-1 CO Connecting Link to CDN service, all Bands (Note 2)	11.22	154.93
DS-3 CO Connecting Link to CDN service, all Bands (Note 2)	151.18	154.93

Note 1: Two monthly charges and one service charge is applied in Bands A and B. One link charge applies in Bands C, E, F, and G.

Note 2: Link charge only applies when connecting a CO Connecting Link to CDN Access, Intra-Exchange channel service and Metropolitan Inter-Exchange channel service.

* 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.