

ITEM
650.34

Aggregated Wholesale HSA Service

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1. Service Description

Aggregated Wholesale HSA Service (or “the Service”) is an aggregated broadband access service based on some form of xDSL Fibre to the Node (FTTN) technology or on Fibre to the Premise (FTTP) technology. The Service enables a Competitive Local Exchange Carrier (CLEC), Internet Service Provider (ISP) or Digital Subscriber Line Service Provider (DSLSP), hereinafter all referred to as “High Speed Service Providers (HSSPs)” to provide high speed applications through the establishment of a high speed data access path between an End-user’s premises and SaskTel’s designated provincial aggregation point in the Regina Main Central Office at various speeds greater than those available through SaskTel’s Aggregated Asymmetric Digital Subscriber Line (ADSL) Service (Item 650.32 of SaskTel Tariff 21414). Available speeds and configurations are listed later in this item.

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When provided via xDSL technology, Aggregated Wholesale HSA Service uses the available bandwidth above the voice-band on the same SaskTel provided local loop used by SaskTel or a CLEC to provide residential or business Qualifying Network Access Service (NAS) or on a Dry Loop. Aggregated xDSL Service does not prevent the simultaneous use of the End-user’s telephone line for voice-band applications. A subscription by the HSSP or an End-user to a SaskTel or CLEC NAS is not a prerequisite for the Aggregated Wholesale HSA Service.

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The Aggregated Wholesale HSA Service demarcation at the End-user’s premise is the SaskTel Customer Connection Point or demarcation point. The Aggregated Wholesale HSA Service demarcation at the interconnection with a HSSP is the interface, or patch panel associated with an Ethernet switch in SaskTel’s designated provincial aggregation point in the Regina Main Central Office. A HSSP may connect to the interface, via either an Ethernet Central Office (CO) Connecting Link to its own co-located transmission equipment or via a SaskTel-provided Wholesale or Retail, Ethernet Access between the SaskTel wire centre and the HSSP Point of Presence (POP), to achieve end-to-end connectivity.

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The service consists of three mandatory components: Aggregated Wholesale HSA Access, Capacity Based Billing (CBB), and an Aggregated Wholesale HSA Interface (either Legacy or Unified Aggregated Interface) and an optional component, Diagnostic Maintenance. Customers with Legacy Interfaces in service do not require CBB but may not access PPPoE functionality unless they do purchase CBB. Customers with End-users connected to Legacy Interfaces can not add FTTP Access to those Interfaces; but must either purchase a Unified Aggregated Interface or convert their existing VLAN-based Accesses to PPPoE-based Accesses.

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2. Definitions

For the purposes of this Tariff Item:

“*End-user*” is defined as being the HSSP’s customer, the ultimate user of the digital high speed service application.

“*Qualifying Network Access Service (NAS)*” is defined as a SaskTel provided local loop used by SaskTel or a CLEC to establish the following voice service applications:

- Non-hunting residential or business touch tone individual line, or
- Non-hunting multi-line trunk, or
- Analog Centrex network access line.

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“*Dry Loop*” is defined as a copper loop used to provide Aggregated Wholesale xDSL Service which is not used to provide any other SaskTel service.

“*Internet Traffic Management Practices*” (ITMPs) are defined as measures that may be used by Internet Service Providers (ISP) to manage Internet traffic through economic or technical means.

“*HSSP Name Change*” is defined as the situation where one HSSP is requesting that its name be changed to a different billing or official legal name.

“*Merger and acquisitions*” refers to a situation where a HSSP is transferring a portion of its subscriber base to another HSSP. This also includes two HSSPs merging in order to become one new HSSP, or a single HSSP becoming multiple HSSPs.

A “*HSSP cutover or access upgrade*” encompasses the case where a HSSP requires larger bandwidth to its POP to accommodate growth in End-user traffic. The HSSP may also be relocating its POP access or transferring all of its existing End-users to a different interface which does not necessarily require an upgrade in bandwidth.

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650.34**Aggregated Wholesale HSA Service - Continued****2. Definitions – Continued**

Point-to-Point Protocol over Ethernet (PPPoE) is a network protocol that facilitates communication between network endpoints. PPPoE encapsulates Point-to-Point Protocol (PPP) frames inside Ethernet frames.

Fibre to the Premises (FTTP) is a technology platform that consists of optical fibre from the Central Office to the End-user premises.

The *Optical Network Terminal (ONT)* is a device located at the End-user's Premises that converts fibre-optic light signals to electrical signals used to provide FTTP service. The ONT transports data traffic to and from the End-user's Premises through SaskTel's fibre network and serves as SaskTel's point of demarcation. The type of ONT may vary depending on the FTTP service speed provided, as determined by SaskTel.

"Incumbents" means Bragg Communications Incorporated, carrying on business as Eastlink, Bell Canada, Cogeco Communications inc., Rogers Communications Canada Inc., TELUS Communications Inc., and Vidéotron Ltd.

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Aggregated Wholesale HSA Service - *Continued*

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3. Conditions of Service

1. Components of Service

1. The components of this Aggregated Wholesale HSA Service tariff are:

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a) An Aggregated Wholesale HSA Interface which provides an interconnection point to the SaskTel Aggregated HSA service for an HSSP,

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b) CBB is only applicable to FTTP Access services and is available in 100 Mbps increments, which provides transport capacity between the Unified Aggregated Interface and the Access components,

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c) An Aggregated Wholesale HSA Access connecting an End-user premise to Aggregated Wholesale HSA serving equipment located either in a host wire centre or at a remote location, i.e. a location other than a host wire centre.

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Note: Connection to the Aggregated Wholesale HSA Service to achieve end to end connectivity between the Interface and the HSSP's network must be established via SaskTel Wholesale or Retail Ethernet Access Service terminating at the HSSP's designated POP or SaskTel Ethernet CO Links terminating at the HSSP's co-located transmission equipment.

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2. General

1. Aggregated Wholesale HSA Service is provided under the terms and conditions in this tariff item.

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2. When provided using xDSL technology, the Aggregated Wholesale HSA Access component of this service consists of the Aggregated Wholesale HSA serving equipment in the serving wire centre and remote location as appropriate, and cross connection of such equipment to either a SaskTel or CLEC provided qualifying NAS as required or on a Dry Loop as referenced later in this tariff.

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Aggregated Wholesale HSA Service - Continued

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3. Conditions of Service - Continued

2. General - Continued

- 3. When provided using FTTP technology, the Aggregated Wholesale HSA Access component of this service consists of the Aggregated Wholesale HSA serving equipment in the serving wire centre or remote location as appropriate, terminating equipment at the End-user location which provides an Ethernet port, and fibre connectivity between them.
 - a) The Access component of this service is available to all Premises where there is either an existing fibre drop in place, or fibre is available to serve the Premises using an order to install a Fibre drop.
 - b) At least one Access, with a unique fibre drop and ONT is required for each HSSP at a given End-user location, regardless of service type.
 - c) Should there be multiple HSSPs present at the same End-user location, SaskTel will utilize an additional fibre drop and ONT, subject to availability.
 - d) In the event that there are not enough fibre drop's available to accommodate a request, SaskTel will provide the requesting HSSP the option to install additional fibre drop(s) at cost or to wait until facilities are available.
 - e) In the case of multi-dwelling units, service is only available where fibre in-building wiring exists through to the End-user's suite.
 - f) In the event that the installation of the fibre drop represents an unusual expense, SaskTel will give the HSSP the option of paying an additional construction charge to have the fibre drop installed.
- 4. The HSSP may be required to provide to SaskTel a Letter of Authorization. A Letter of Authorization is only required when a dispute arises between the End-user and SaskTel or a competitor.
- 5. The Service is provided subject to the availability of suitable equipment and facilities as determined by SaskTel. SaskTel determines those of its serving wire centres which will support Aggregated Wholesale HSA Service. Aggregated Wholesale HSA Access is provisioned at various maximum download speeds, as detailed later in this item, and is only available for those end user locations where such speed is available for SaskTel's retail service. Maximum sustained speeds are not guaranteed.

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Aggregated Wholesale HSA Service - Continued

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3. Conditions of Service - Continued

2. General - Continued

- 8. When provided using xDSL technology, the Aggregated Wholesale HSA equipment is subject to operational constraints related to the characteristics of the underlying loop facility. HSSPs may use Aggregated Wholesale HSA Service to establish high speed connections to only those End-user premises located within the operational range of the Aggregated Wholesale HSA transmission equipment associated with a particular SaskTel serving wire centre. HSSPs may not use Aggregated Wholesale HSA Service to establish high speed connections to End-user premises located outside the range of the transmission equipment or served by loop facilities not capable of supporting the Service. C F M¹
- 9. SaskTel does not guarantee the level of digital data transmission provided by the HSSP over the End-user's local loop. F
- 10. In the furnishing of services in this tariff item, SaskTel is not responsible to the HSSP or HSSP's End-user for end-to-end service, or for Lawful Intercept services or the provision of End-user geographic information. C F
- 11. The HSSP and/or End-user is responsible for installation, operation and maintenance of any customer premise equipment (CPE) device(s), filters, splitters and inside wiring, which are beyond SaskTel's customer connection point (CCP) or demarcation point. The HSSP is responsible to ensure the End-user's CPE is compatible with SaskTel's network architecture and meets all SaskTel general terms and conditions, Canadian Standards Association (CSA) and other applicable industry and government safety standards. C F
- 12. The HSSP will be billed for Aggregated Wholesale HSA Access until the HSSP requests termination of the Aggregated Wholesale HSA Access; even if the End-user qualifying NAS has been suspended or terminated. C F M²
- 13. One Aggregated Wholesale HSA Access is required for each End-user. C F
- 14. Communication between remote subscriber accesses must be done via the HSSP as the Service provides communication only between an Aggregated Wholesale HSA Access and an Aggregated Wholesale HSA Interface. D F

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ITEM 650.34	Aggregated Wholesale HSA Service - Continued	C	
	3. Conditions of Service - Continued		
	2. General - Continued		
	15. The Aggregated Wholesale HSA Interface will be located in the Regina Main Central Office for all exchanges.	C	M ¹
	16. A minimum of one Wholesale HSA Interface is required for each HSSP. This interface is a pre-requisite for the Aggregated Wholesale HSA Access service component.	C	
	17. The Aggregated Wholesale HSA Interface cannot be shared with any other services or traffic (i.e. Aggregated Wholesale HSA traffic only).	C	
	18. SaskTel does not provide redundancy or access diversity for the Service.		
	19. Connectivity between the Aggregated Wholesale HSA Interface and the HSSP's POP or Co-locate can be established only via the following services:	C	
	a) Where the HSSP's equipment is co-located within the same Central office as the Aggregated Wholesale HSA Interface, the HSSP would connect using SaskTel's Ethernet Central Office Connecting Link service.	C	M ²
	b) Where the HSSP's POP is located within the same wire center serving area as the Aggregated Wholesale HSA Interface, the HSSP would connect using SaskTel's wholesale or retail Ethernet Access service.	C	
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	20. Aggregated Wholesale HSA Service will provide the setup of one domain name per Aggregated Wholesale HSA Interface, for the purposes of relaying users of the HSSP to the appropriate Aggregated Wholesale HSA Interface. One-time Service charges apply for programming of an additional domain name and subsequent additional domain names on the same order.	N	
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ITEM 650.34	Aggregated Wholesale HSA Service - Continued	C		
	3. Conditions of Service - Continued	N		
	2. General - Continued	N		
	21. As a condition of service under this tariff, and in accordance with paragraphs 50, 66 and 104 of Telecom Regulatory Policy CRTC 2009-657, Review of the Internet traffic management practices of Internet service providers (TRP 2009-657), customers employing Internet Traffic Management Practices (ITMPs) shall:	M ¹	M ²	
	a) Whether or not they are Canadian carriers, abide by the requirements of subsection 27(2) of the Telecommunications Act with regard to any ITMPs they employ;			
	b) Abide by the disclosure requirements described in TRP 2009-657; and			
	c) Not use for <i>other purposes personal information collected for the purposes of traffic management</i> or disclose such information.			
	22. Verification and dispute of Aggregated Wholesale HSA service speed by the HSSP shall be accompanied by adequately detailed documentation regarding testing methodology used, testing hardware used, testing software used, test configurations and detailed test results.	C		
	23. The HSSP must provide SaskTel with the End-user’s service classification (residential or business) in order to apply for each Aggregated Wholesale HSA Access. If the HSSP does not or will not provide SaskTel with the proper documentation starting the service classification, it will be assumed that the End-user will use the service in a business setting.	C		
	24. The HSSP is responsible for obtaining any equipment, software, and configuration information in the End-user premise beyond the ONT for FTTP or the NID necessary to make the service operational.	N		
	25. When provisioned appropriately, Aggregated Wholesale HSA Service supports Point to Point Protocol over Ethernet (PPPoE) from the End-User across SaskTel's network to the SaskTel Broadband Access Server. Legacy customers wishing to access PPPoE will need to obtain a Unified Aggregated Interface to work with this protocol and either transfer their existing End-users or maintain two interfaces.			
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Aggregated Wholesale HSA Service - *Continued*

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3. Conditions of Service - *Continued*

2. General - *Continued*

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- 26. Aggregated Wholesale HSA-FTTP Access consists of the ONT at the End-user premises and the fibre facility connecting the End-user premises to the serving Central Office. One Aggregated Wholesale HSA-FTTP Access is required for each End-user. The ONT ethernet port is the demarcation at the End-user premises.
- 27. When transferring and/or acquiring existing domain names from one Interface to another, the transfer of all End-users associated with these domain names is required.
- 28. For areas where retail FTTP service was available as of 12 August 2024, the wholesale FTTP service options listed in this tariff are available as of 13 February 2025.
- 29. For areas where retail FTTP service was not available as of 12 August 2024, but is now available, the wholesale FTTP service options listed in this tariff are available as of 13 August 2029.
- 30. Other than as specified below, as of 13 September 2024, customers who are Incumbents are no longer permitted to use Aggregated Wholesale HSA to sell retail services to End-users within their own traditional wireline serving territory. This limitation also applies to the affiliates of Incumbents where the retail service is being provided in the traditional wireline serving territory of the affiliated Incumbent.
- 31. Incumbents and their affiliates may only use Aggregated Wholesale HSA Service within their traditional wireline incumbent serving territories for End-users who already use of service, or who have already submitted an order for such services, as of 12 September 2024 ("in-territory End-users"). The customer may make speed changes to Accesses for in-territory End-users but is not permitted to change the access technology or to change the location of the Access.

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650.34**Aggregated Wholesale HSA Service - Continued**N
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M**4. Network and Facilities**

1. SaskTel does not make any representations that over time its network, equipment, facilities, and services are, or will remain, adapted for use in connection with the HSSP's equipment, facilities and services.
2. SaskTel 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 at its sole discretion. SaskTel shall not be held responsible to the HSSP or a HSSP's End-user for their equipment, apparatus, lines, switches, circuits or devices, in whole or in part, which cease to be compatible with SaskTel's facilities or which become inoperative as a result of SaskTel network changes.
3. SaskTel and the HSSP will each provide network-to-network notification to the other party in accordance with the network-to-network notification standards prior to implementing changes to the design, function, operation, technology or layout of its equipment, apparatus, lines, switches, circuits or devices.

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Aggregated Wholesale HSA Service - Continued

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4. Network and Facilities - Continued

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- 4. The HSSP shall not implement any changes to its operations, services or network, which would, in the reasonable assessment of SaskTel, materially affect SaskTel's operations, services or network without the prior consent of SaskTel, which shall not be unreasonably withheld.

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5. Network Outages

- 1. SaskTel does not guarantee uninterrupted operation of the Service and/or equipment and shall not be liable to the HSSP or any other entity for any interruption, failure or delay in performance of the Service provided under this tariff item, or any other SaskTel tariff or agreement. In the event of network outages or other service problems, nothing in this tariff item shall extend the liability of SaskTel as specified in the SaskTel Terms of Service or any component thereof.

6. Protection

- 1. It is the responsibility of the HSSP to ensure that the characteristics and methods of operation of any circuits, facilities or equipment of the HSSP or its End-users, when connected to SaskTel's network or facilities, shall not:

- a) interfere with or impair service over any facilities of SaskTel or its connecting carriers;
- b) cause damage to SaskTel facilities;
- c) impair the privacy of any communication carried over SaskTel facilities; or
- d) create hazards to SaskTel's employees or the public.

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- 2. If HSSP operations are not in accordance with the preceding, SaskTel will, where practicable, use reasonable efforts to notify the HSSP that the temporary discontinuance of the use of any circuits, facilities or equipment of the HSSP may be required. When prior notice is not practicable, nothing contained within this Tariff Item shall preclude SaskTel from temporarily discontinuing forthwith the availability to the HSSP the Service or any component part thereof if such action is reasonable under the circumstances. In cases of such discontinuance, the HSSP will be promptly notified and afforded the opportunity to correct the condition which gave rise to the temporary discontinuance.

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Aggregated Wholesale HSA Service - Continued

6. Protection - Continued

- 3. During any period of temporary discontinuance of the Service caused by a trouble or condition arising in the HSSPs operations, facilities, equipment, or network, no refund for interruption of the Service shall be made.

7. Rates

The HSSP shall pay to SaskTel the following rates and charges for Aggregated Wholesale HSA Service. Such rates and charges are in addition to any other rates and charges that may be applicable.

- 1. Aggregated Wholesale HSA Interface, for each:

Aggregated Wholesale HSA Interface* (Note 1)	Monthly Rental	Service Charge
Legacy Interface 1000 Mbps (Burstable up to 1000 Mbps) (Note 7)	\$274.99	\$411.45
Unified Aggregated Interface 1 Gbps	55.89	1017.68
Unified Aggregated Interface 10 Gbps (Note 8)	55.89	1017.68
Unified Aggregated Interface 100 Gbps (Note 9)	55.89	1017.68

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Aggregated Wholesale HSA Service - Continued

7. Rates - Continued

2. Aggregated Wholesale HSA Access, for each:

Aggregated Wholesale HSA Access: per access ⁶	Monthly Rental	Service Charge	
		Field visit	No Field visit
25 Mbps Access FTTN (Note 2, 4, 5)	\$17.33	\$105.04	\$105.04
25 Mbps Access – FTTN Bonded (Note 2, 3, 4, 5)	39.90	105.04	105.04
50 Mbps Access FTTN (Note 2, 4, 5)	31.34	105.04	105.04
50 Mbps Access – FTTN Bonded (Note 2, 3, 4, 5)	40.95	105.04	105.04
15 Mbps to 1 Gbps Access – FTTP	67.97	261.82	80.38

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Aggregated Wholesale HSA Service - Continued

7. Rates – Continued

3. Wholesale HSA CBB increment, for each:

Aggregated Wholesale HSA CBB increment	Monthly Rental	Service Charge
100 Mbps	\$35.76	\$772.00

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4. Enablement of FTTP HSA service:

Enablement of FTTP HSA Service in Saskatchewan	Service Charge
Competitor HSA access connection per month**	\$5.65

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5. Additional Domain Name, for each:

Domain Name activation [Note 9]	Service Charge
First additional Domain Name	\$772.00
Subsequent Domain Name, requested on the same order	273.00

* 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.

** Effective 13 February 2025, in effect for 10 years thereafter, per Telecom Order CRTC 2026-77.

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ITEM 650.34	Aggregated Wholesale HSA Service - Continued	N	
	7. Rates – Continued	N	
	Note 1: In addition to the Aggregated Wholesale HSA Interface, either a SaskTel Ethernet Access or Ethernet CO Connecting Link (see SaskTel Ethernet Access Service and Ethernet CO Connecting Link tariff) will be required to terminate the Service at the HSSP’s POP or co-locate space. The bandwidth associated with the Ethernet Access or CO link must match or exceed the bandwidth capability of the Aggregated Wholesale HSA Interface.	C	M
	Note 2: Monthly and Service charges apply when provisioned in conjunction with a qualifying NAS. Additional Dry Loop charges, as specified in this tariff, will apply when the service is provided on a Dry Loop.	C	
	Note 3: Bonding Service/Bonded Configuration will use two metallic continuity Telephone Loops or Dry Loops. Additional Dry Loop charges will be applied if the service is provided over a bonded configuration.	F	
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	Note 4: If after a firm order has been placed and is cancelled, the applicable Service Charge applies and any incurred costs associated with the provision of the Service, the HSSP shall pay SaskTel all incurred costs, including without limitation, those such as labour and materials.	D	
	Note 5: Speeds listed represent the maximum download speed that may be experienced for each rate element. Accesses meet distance specifications to obtain these speeds but maximum speeds are not guaranteed.	F	
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Aggregated Wholesale HSA Service - Continued

7. Rates – Continued

Note 6: Customers with Legacy Interfaces currently in service are not required to purchase CBB and may continue to use their Legacy Interface. However, FTTP accesses cannot be terminated on Legacy Interfaces. To terminate FTTP accesses, customers must purchase a new Unified Aggregated Interface, which may also be used for terminating FTTN accesses when PPPoE is used.

Note 7: Aggregated ADSL Accesses provisioned under SaskTel Tariff 650.32 may be terminated using the Unified Aggregated Interface, provided PPPoE is used.

Note 8: A 100 Gbps Unified Aggregated Interface will be provided only where the CBB capacity ordered by the customer is equal to or greater than 30 Gbps. The customer must maintain a capacity order of at least 30 Gbps on each interface installed.

Note 9: A maximum of 15 domain names can be requested per Customer.

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Aggregated Wholesale HSA Service - Continued

7. Rates - Continued

3. The HSSP shall pay to SaskTel the following rates and charges for Aggregated Wholesale HSA Service provided on a Dry Loop. Such rates and charges are in addition to any rates and charges specified in this tariff item.

Dry Loop Charges	Band A	Band B	Band C	Band E	Band F	Band G
Monthly Rates	\$ 4.65	\$ 9.27	\$ 13.03	\$ 25.74	\$ 21.69	\$ 21.45

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4. Service Charge for Dry Loops:

Note: Extra construction charges may apply	Service Charge
Service Charge per Loop	
Per loop, Business	19.84
Per loop, Residence	13.17

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Aggregated Wholesale HSA Service - Continued

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7. Rates - Continued

5. Other charges:

A Diagnostic Maintenance Charge applies for each test made in response to a HSSP request for repair or testing of a trouble when no trouble is found in SaskTel’s Aggregated Wholesale HSA Service. Labour charges specified below will apply.

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Diagnostic Maintenance repair or test time scheduled...*	Labour Charge
During normal working hours, per person	\$99.72 per hour** (minimum charge for ½ hour)

* 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.

** Billed in ¼ hour increments.