BELL INDUSTRY ADVISORY

Terminal-to-Network Disclosure – Category a

(Updated 24 October 2024) (Updated 22 March 2024) (Original issued 21

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No. BIA - 4u

Subject: Terminal-to-Network Interface for DBS over FTTP and GAS-FTTP (Exclusive to Ontario and Quebec)

In April 2017, Bell Canada announced the commercial introduction of the terminal-to-network interface for Disaggregated Broadband Service (DBS) over Fibre to the Premises (FTTP) based on publicly available standards. Service to Internet Service Providers (ISPs) is available in selected areas of Ontario and Quebec, subject to technical feasibility, ISP demand and DBS tariffed terms and conditions.[1] In Telecom Decision 2023-358, the CRTC further required Bell Canada to offer, on an interim basis, access to its FTTP network on an aggregated basis, which Bell now offers over Gateway Access Service (GAS-FTTP) beginning 7 May 2024 within Ontario and Quebec.

DBS over FTTP and GAS-FTTP are deployed on Passive Optical Network (PON) fibre facilities from suitably enabled Central Offices to Optical Network Terminals (ONTs) located at end-user premises. The ONT is the demarcation point for both DBS over FTTP and GAS-FTTP.

Compatibility Impact:

For speeds up to and including 1.5 Gbps, the ISP is responsible to provide a host system (e.g., residential gateway, Ethernet switch or router) with an SFP cage in accordance with the standards specified below.

For speeds greater than 1.5 Gbps, the ISP is responsible to provide a host system (e.g., residential gateway, Ethernet switch or router, and cabling) that can connect to an Ethernet LAN port in accordance with the standards specified below.

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[1]   Bell Canada CRTC 7516, Access Services Tariff For Interconnection With Carriers And Other Service Providers, Item 151 - Disaggregated Broadband Service (DBS).

Documentation:

The DBS over FTTP and GAS-FTTP terminal-to-network interfaces used by Bell Canada conform to the following industry standards:

For speeds up to and including 1.5 Gbps:

- INF-8074 *Specification for SFP (Small Formfactor Pluggable) Transceiver*, https://www.snia.org/technology-communities/sff/specifications, and
- SFF-8472 *Specification for Diagnostic Monitoring Interface for Optical Transceivers*, https://www.snia.org/technology-communities/sff/specifications
- The host cage for the SFP-ONT provided must support SGMII (speeds up to 1Gbps) and SGMII 2.5G (speeds up to 1.5Gbps)
- IEEE 802.3 standard (e.g., 1000M/2.5G BaseT).

For speeds greater than 1.5 Gbps:

- IEEE 802.3 standard (e.g., 1000M/2.5G/5G/10G BaseT).

For further information, contact:

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