BELL INDUSTRY ADVISORY

Terminal-to-Network Disclosure – Category A

21 April 2017 **(Updated 22 March 2024)**

No. BIA - 4u

Subject: Terminal-to-Network Interface for DBS over FTTP and GAS-FTTP

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 now available in selected areas of Ontario and Quebec, subject to technical feasibility, ISP demand and DBS tariffed terms and conditions.[1] In TD 2023-358,[2] the CRTC required Bell Canada to offer on an interim basis access to its FTTP network on an aggregated basis, which Bell will offer as Gateway Access Service - FTTP (GAS-FTTP) beginning 7 May 2024.

DBS over FTTP and GAS-FTTP is or will be 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 DBS and GAS-FTTP.

Compatibility Impact:

None expected.   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.   In locations where the fibre drop is being shared by Bell and an ISP, the maximum speed may be limited to 940 Mbps and the host system must also have one available Ethernet LAN port and cabling provided, 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. We do not expect any speed limitations in locations where the fibre drop is being shared by Bell and an ISP.

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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).

[2]   Telecom Decision CRTC 2023-358, *Review of the wholesale high-speed access service framework – Temporary access to fibre-to-the-premises facilities over aggregated wholesale high-speed access services* (TD 2023-358).

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 (where the fibre drop is only used by an ISP):

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

For speeds up to and including 1.5 Gbps (where the fibre drop is being shared by Bell (e.g., for TV) and an ISP (e.g., for Internet)):

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

For speeds greater than 1.5 Gbps (where the fibre drop is either only used by the ISP or is being shared by Bell and an ISP):

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

For further information, contact:

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