



BELL INDUSTRY ADVISORY

Terminal-to-Network Disclosure – Category a

21 April 2017 (**Updated 4 April 2022**)

No. BIA - 4u

Subject: Terminal-to-Network Interface for DBS over 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

DBS over FTTP is deployed on Passive Optical Network (PON) fibre facilities from DBS-enabled central offices to Optical Network Terminals (ONTs) located at end-user premises. The ONT is the demarcation point for DBS.

Compatibility Impact:

None expected. For speeds up to 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 port.

For speeds greater than 1.5 Gbps, the ISP is responsible to provide a host system (e.g., residential gateway, Ethernet switch or router) 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.

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 terminal-to-network interfaces used by Bell Canada conform to the following industry standards:

For speeds up to 1.5 Gbps (where the fibre drop is only used by an ISP):

- INF-8074i *Specification for SFP (Small Formfactor Pluggable) Transceiver*, snia.org/SFF/specifications, and
- SFF-8472 *Specification for Diagnostic Monitoring Interface for Optical Transceivers*, snia.org/SFF/specifications

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

- An Ethernet-based interface that meets 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):

- An Ethernet-based interface that meets IEEE 802.3 standard (e.g., 1000M/2.5G/5G/10G BaseT).

For further information, contact:

Bell Canada

Tel: 613-785-6336

Email: bell.regulatory@bell.ca

www.bce.ca/aboutbce/regulatory/interface-disclosures

