



# BELL INDUSTRY ADVISORY

Terminal-to-Network Disclosure – Category a

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## **Subject: Terminal-to-Network Interface for DBS over FTTP**

Bell Canada announces 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 expected to commence in October 2017 in selected areas of Ontario and Quebec, subject to technical feasibility, ISP demand and DBS tariffed terms and conditions.<sup>1</sup>

DBS over FTTP will be deployed on Gigabit Passive Optical Network (GPON) 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. The ISP will be 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 addition, for ISPs that wish to offer speeds greater than 940 Mbps up to the maximum speed permitted by the DBS tariff (i.e., presently at 1 Gbps) and in order for the host system to work in all locations (including those where the fibre drop is being shared by Bell and an ISP), the host system must also support the following:

- Serial Gigabit Media-Independent Interface (SGMII) backplane of more than 1.1 Gbps,
- Multilink Point-to-Point Protocol (MLPPP), and
- 2 available Ethernet ports.

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<sup>1</sup> Bell Canada, TN 7522 pending CRTC approval.



## Documentation:

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

- INF-8074i *Specification for SFP (Small Formfactor Pluggable) Transceiver*, [snia.org/SFF/specifications](http://snia.org/SFF/specifications),
- SFF-8472 *Specification for Diagnostic Monitoring Interface for Optical Transceivers*, [snia.org/SFF/specifications](http://snia.org/SFF/specifications), and
- RFC 1990, *The PPP Multilink Protocol (MP)* also known as MLPPP, published by the Internet Engineering Task Force (IETF).

Optional, for future support of speeds greater than 1 Gbps:

- SFF-8419 *SFP+ Power and Low Speed Interface* and SFF-8418 *SFP+ 10 Gb/s Electrical Interface*, [snia.org/SFF/specifications](http://snia.org/SFF/specifications).

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[www.bce.ca/aboutbce/regulatory/interface-disclosures](http://www.bce.ca/aboutbce/regulatory/interface-disclosures)

