



BELL INDUSTRY ADVISORY

Terminal-to-Network Disclosure – Category a

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Subject: Terminal-to-Network Interface for G.INP with VDSL2

Bell Canada announces the introduction of improved impulse noise protection (G.INP) for Very-high-bit-rate Digital Subscriber Line 2 (VDSL2) based on publicly available standards. G.INP will be rolled out gradually starting in June 2018 to selected Fibre to the node (FTTN) platforms in Ontario and Quebec, subject to market requirements and technical feasibility.

Compatibility Impact:

ISPs will be able to selectively turn on the improvement feature, where available, based on their end-user's modem capability to support G.INP. If the ISP does not turn on the G.INP functionality, there will be no impact on the end-user's modem or on the wholesale Internet service provided. To take advantage of the benefit of G.INP, an ISP must turn on that functionality on individual lines via the ISP portal (i.e., the Bell Business Portal). The ability to utilize G.INP is expected for recent VDSL2 modems. However, it is possible that older VDSL2 modems could present issues such as speed degradation or inability to synchronize if the ISP turns on the G.INP functionality. To benefit from the improved feature, the ISP is responsible to provide a modem which is certified in accordance with Compliance Specification for Terminal Equipment CS-03 and is compatible with the standards as specified below. After turning on the improvement feature, if the ISP determines that the end-user's modem does not perform as intended when G.INP is applied, the ISP can simply turn off G.INP. Network compatibility testing for modems is not mandatory but is made available to ISPs in accordance with General Tariff CRTC 6716, Item 5440 Gateway Access Service – Fibre to the Node.





Documentation:

The terminal-to-network interface used by Bell Canada to support G.INP conforms to the following industry standards:

- ITU-T Recommendation G.993.2, Very-high-bit-rate Digital Subscriber Line 2 (VDSL2)
- ITU-T Recommendation G.998.4, Improved impulse noise protection for digital subscriber line (DSL) transceivers

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