

ITU-T The leader on B-PON Recommendations

G.983.1 – Broadband optical access systems based on Passive Optical Networks

Specifies an optical access system with symmetrical line rates of 155.520 or 622.080 Mbit/s and asymmetrical line rates of 155.520 Mbit/s upstream and 622.080 Mbit/s downstream.

G.983.2 – ONT management and control interface specification for B-PON

Specifies requirements for the OMCI, managed entities of a protocol-independent Management Information Base and protocol/detailed messages for the ONT management and control channel.

G.983.3 – A broadband optical access system with increased service capability by wavelength allocation

Adds an additional wavelength band to a G.983.1 B-PON to enable the distribution of unidirectional or bidirectional video broadcast or data services.

G.983.4 – A broadband optical access system with increased service capability using dynamic bandwidth assignment

Specifies the enhancements to a G.983.1 B-PON to allow the use of dynamic bandwidth assignment.

G.983.5 – A broadband optical access system with enhanced survivability

Specifies protection features for a G.983.1 B-PON.

G.983.6 – ONT management and control interface specifications for B-PON system with protection features

Specifies the OMCI for a B-PON system with protection features.

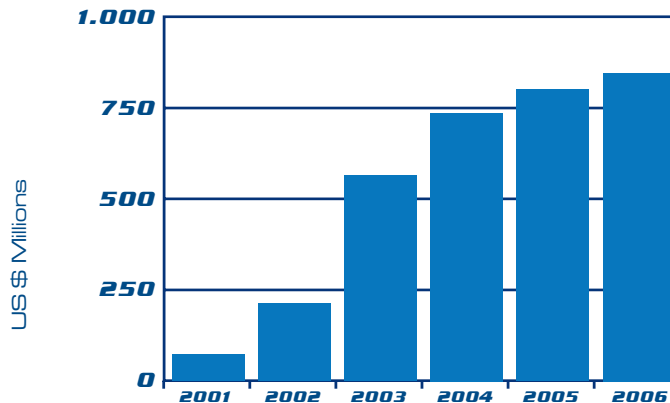
G.983.7 – ONT management and control interface specification for dynamic bandwidth assignment (DBA) B-PON system

Specifies the OMCI for a B-PON system using dynamic bandwidth assignment.

B-PON means

- Support for a wide range of narrowband and broadband services like:
 - POTS
 - ISDN
 - Data
 - Cable TV
 - Video on demand
 - LAN interconnection
 - Videoconferencing
- Because B-PON is independent from bit rates, signal formats (e.g. digital or analogue, SONET/SDH, etc.) and protocols (Internet Protocols, Ethernet, ATM, etc.), only the equipment needed for delivering specific services needs to be added at the ends of the network when the time comes to add new services to existing customers or to add new customers.

Worldwide Passive Optical Networks Equipment Revenue Forecast



Source: In-Stat/MDR 3/02

For more information on ongoing PON Recommendation activities, including Gigabit-PON (G-PON), please check the ITU-T Study Group 15 website at: www.itu.int/ITU-T/com15

International Telecommunication Union

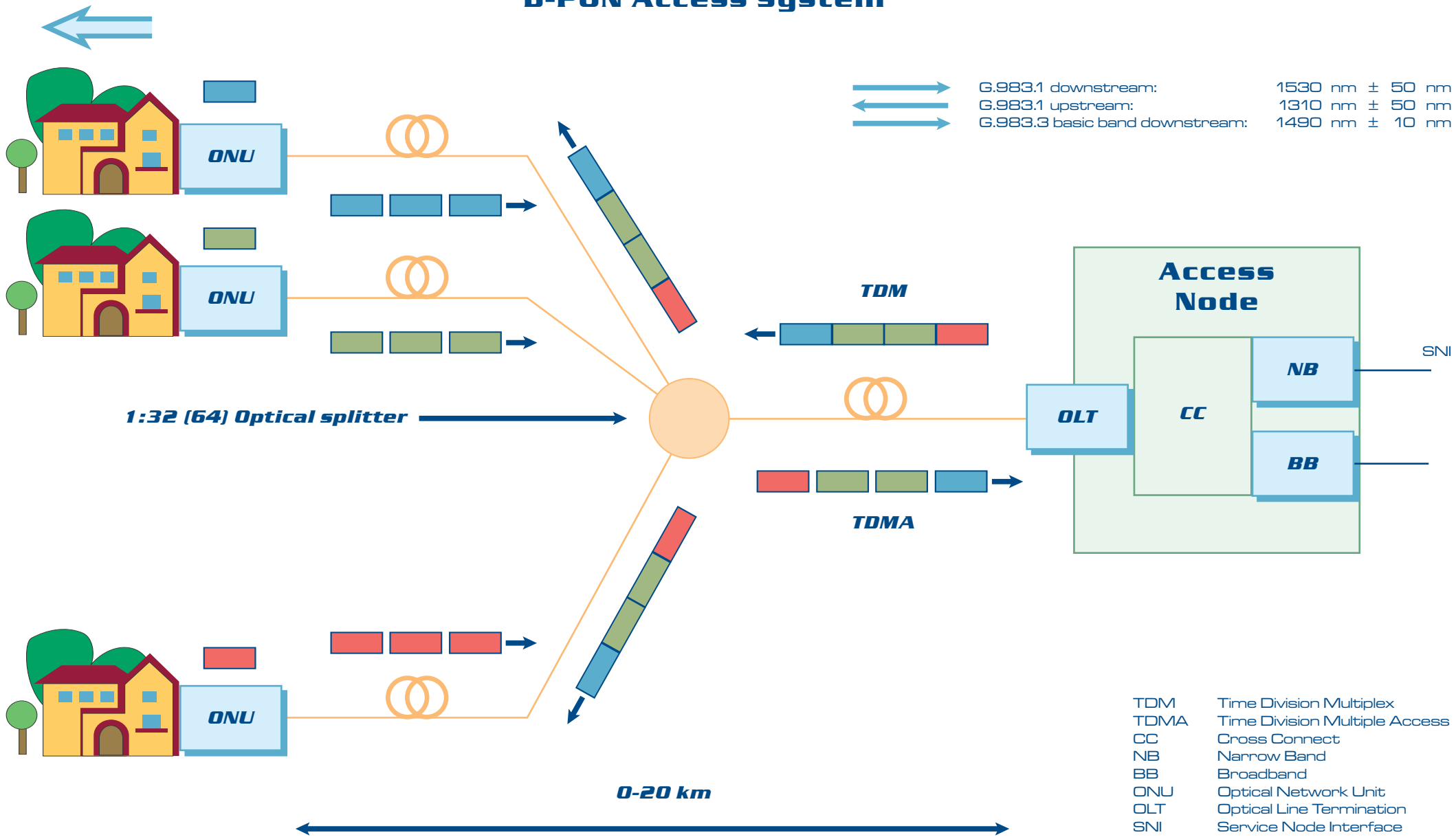


B-PON

Broadband Passive Optical Network

Your
new fibre optic
access network
transport
solution

B-PON Access System



ITU-T Study Group 15 is responsible for the development of Recommendations in the area of "Optical systems for access networks" (Question 2). See <http://www.itu.int/ITU-T/studygroups/com15/sg15-q2.html> for more details.