WDAN

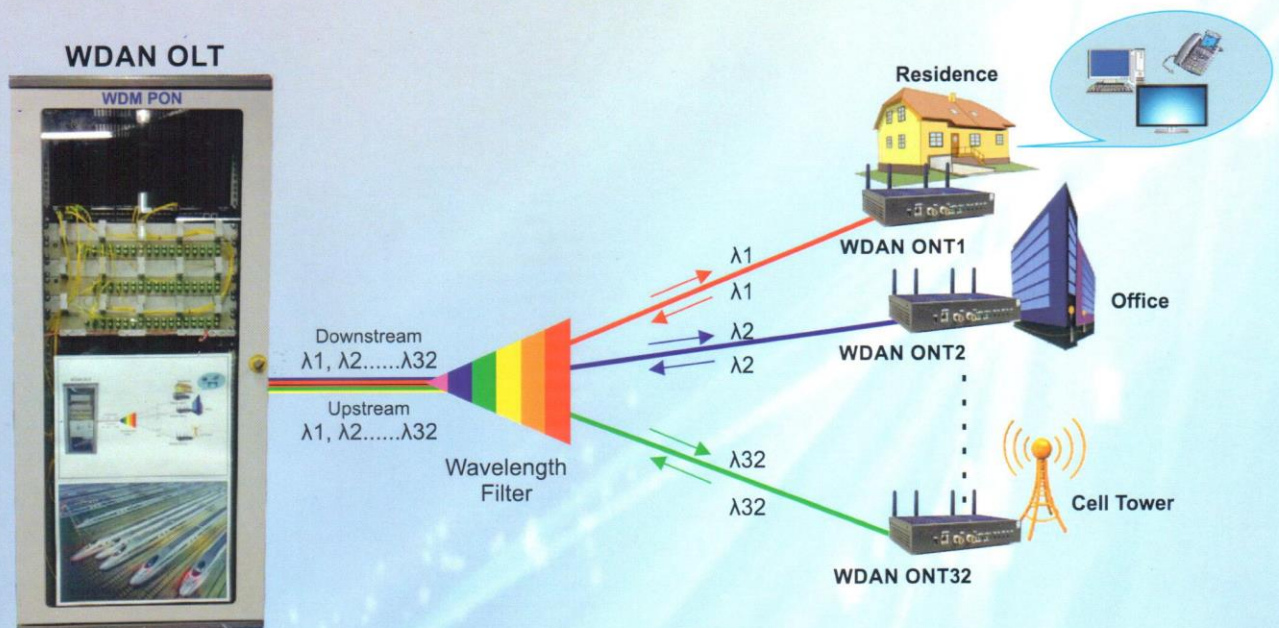## Wavelength based Distribution & Aggregation Network Solution

WDAN solution is C-DOT's response to ever increasing demand of dedicated high speed access for mobile backhaul, network storage, enterprise and residential segment. The cost effective availability of high bandwidth is met through its centralized, scalable and passive point-to-multipoint architecture. By dedicating one wavelength to each subscriber, C-DOT WDAN enables the network operators to provide logical point-to-point connections over a physically shared passive optical network.

C-DOT WDAN is based on WDM-PON technology and delivers upto 1Gbps bandwidth to a single user while serving multiple users on multiple wavelengths. WDAN consists of three network elements viz. WDAN OLT (Optical Line Terminal), WDAN ONT (Optical Network Terminal) and WDAN WF (Wavelength Filter). WDAN OLT resides in the service provider's central office or headend office and connects to multiple WDAN ONTs. WDAN ONT is customer premises equipment meant to deliver triple play services to the end user. WDAN WF (Wavelength Filter) is essentially a passive element placed in the fibre network connecting OLT to multiple ONTs.

Key Features

♦ Single-fibre passive optical network with passive wavelength filter (Athermal AWG)
♦ Compliant with ITU-T G.694.1 and G.698.3 standards
♦ AES Encryption supported
♦ Upto 1 Gbps symmetric dedicated bandwidth for each subscriber
♦ Upto 32 ONTs (Subscribers) per OLT
♦ Upto 20 km distance supported for each subscriber
♦ Provision to provide data encryption for enhanced security
♦ Reduced inventory cost with the use of colourless optics
♦ Guaranteed network security through dedicated wavelengths to each subscriber
♦ Easy pay-as-you-grow upgradability without service interruption to other subscribers
♦ Cost Effective, Reliable and future proof unified mechanism for delivery of all types of services (Voice, Video and Data)

WDAN OLT
(Central Office Equipment)

♦ Colourless optics at PON interfaces
♦ LC/APC type fiber connector interface
♦ Power consumption: 200W
♦ Ethernet interface for LCT/EMS
♦ 4 x (10/1 GbE) + 4 x (10/1 GbE) SNI interfaces

WDAN ONT
(Customer Premises Equipment)

♦ Low cost ONT with colourless optics
♦ Efficiently works in non-AC environment
♦ Plug and play configuration
♦ Power supply : 12V DC
♦ Low power consumption: 24W
♦ User interface:
  • Five gigabit ethernet ports
  • Two VOIP ports
  • Two IEEE 802.11n Wi-Fi interface
  • Two USB ports

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08/17