

ITU-T The leader on OTN Standards

Architecture

G.872, Architecture of optical transport networks
Network requirements and architectural framework of the Optical Transport Network family of Recommendations.

Framing & Interfaces

G.709/Y.1331, Interface for the optical transport network (OTN)
Framing structure ('digital wrapper'), overhead bytes, multiplexing, and payload mappings for all payload types.
G.959.1, Optical transport network physical layer interfaces

Equipment Functions

G.798, Characteristics of optical transport network (OTN) equipment functional blocks
G.8251, The control of jitter and wander within the optical transport network (OTN)

Network Management

G.874, Management aspects of the optical transport network element
G.874.1, Optical transport network (OTN) protocol-neutral management information model for the network element view
G.875, Optical transport network (OTN) management information model for the network element view

Related Recommendations

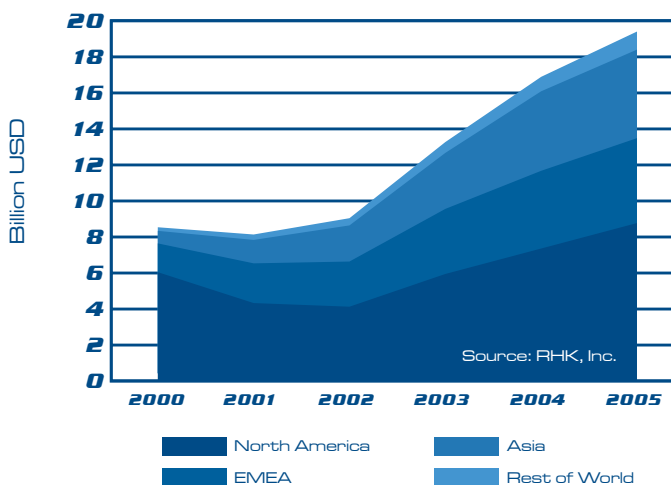
G.7041/Y.1303, Generic framing procedure (GFP)
G.7042/Y.1305, Link capacity adjustment scheme (LCAS) for virtual concatenated signals
G.65x Series on optical fibre cables and test methods
G.693, Optical interfaces for intra-office systems
G.7710/Y.1701, Common equipment management function requirements
G.806, Characteristics of transport equipment - Description methodology and generic functionality
G.807/Y.1302, Requirements for automatic switched transport networks (ASTN)
G.8080/Y.1304, Architecture for the automatically switched optical network (ASON)

OTN means

- Transport for all digital payloads with superior performance and support for the next generation of dynamic services with operational efficiencies not expected from current optical wavelength division multiplexing (WDM) transport solutions
- Support for a wide range of narrowband and broadband services like
 - SDH/SONET
 - IP based services
 - Ethernet services
 - ATM services
 - Frame Relay services
 - Audio/Video services

Given the global scope of fibre optic transport networks based on WDM, the OTN market potential is bright.

WDM spending Forecast worldwide



International Telecommunication Union

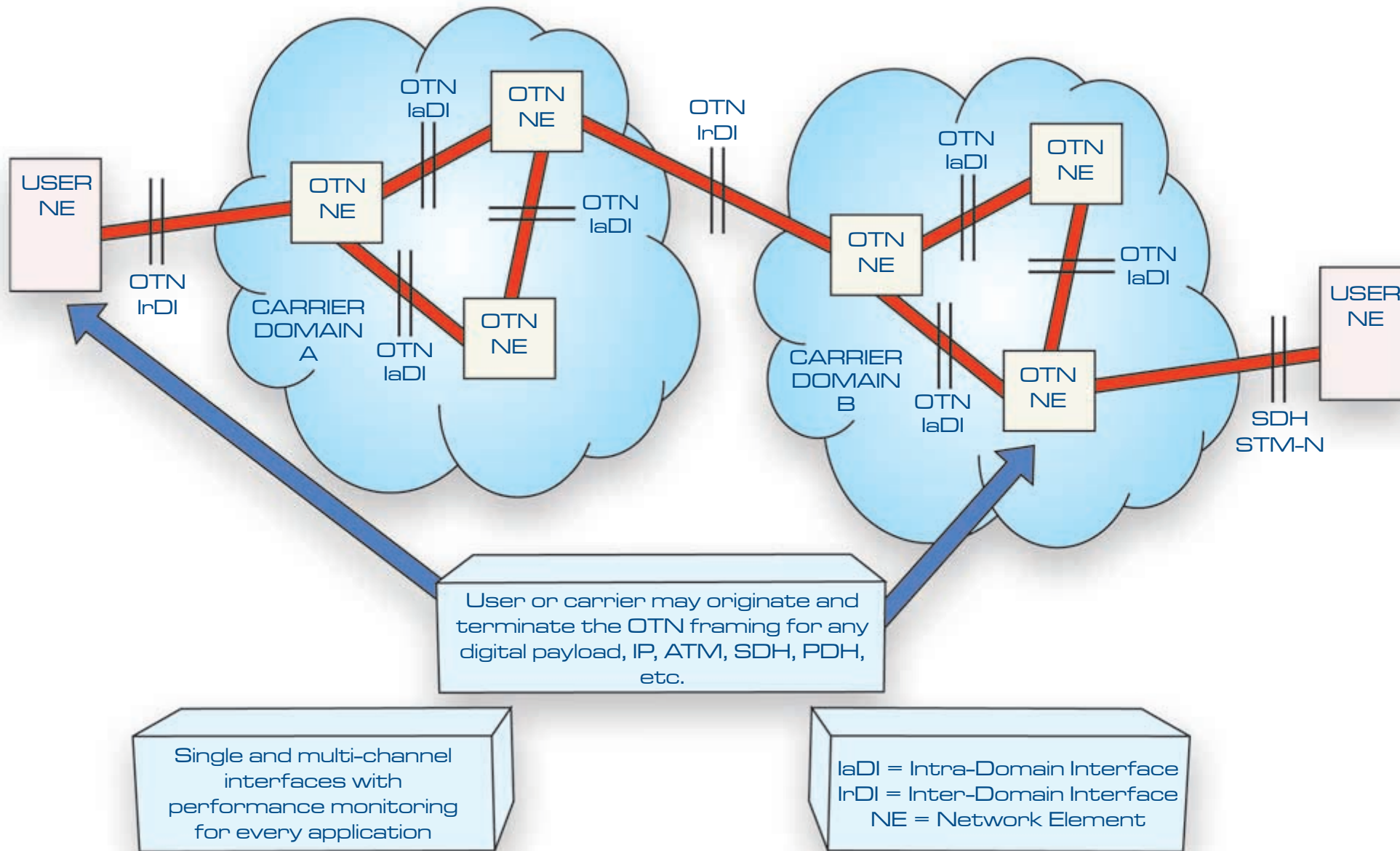


OTN

Optical Transport Network

**Your
new fibre optic
transport
solution**

Global Optical Transport Network to Support Today's and Future Services



(Figure above represents one of many possible implementation scenarios)