Transworld™

Effective solutions with just one Point of Contact.

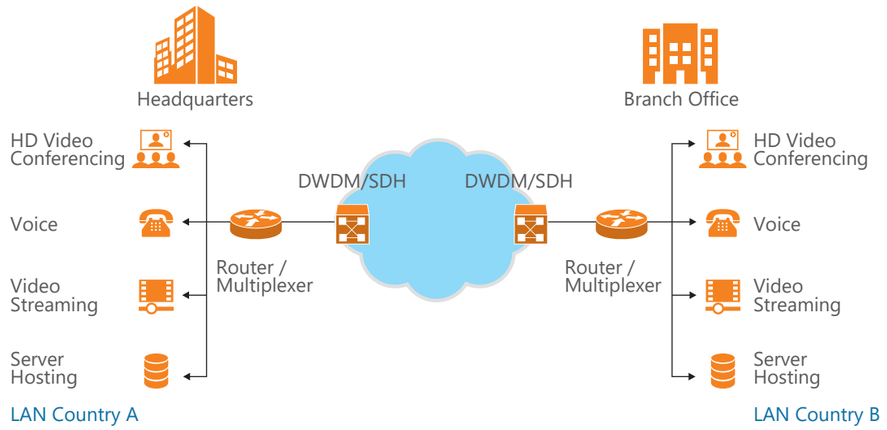
International Private Leased Circuit (IPLC)

Transworld IPLC

Transworld IPLC service provides clear channel bandwidth for global communications. It is a dedicated point-to-point bandwidth solution that can carry voice, data, internet or video traffic to any place in the world. It enables an organization to communicate with its POPs, offices, partners and customers who are geographically dispersed throughout the world with the maximum security and the minimum delays. IPLC users can securely transmit & receive large volumes of data at high data rate with no traffic congestion due to dedicated circuit.

Transworld gives you the advantage of one-window operation and provides end-to-end connectivity as a single source. With Transworld, the hassle of liaison with multiple parties, communication and time issues are all eliminated due to our One Stop Shop model. Our partnerships with multiple cable operators help us bring you the benefits of ease, timeliness and effective solutions with just one Point of Contact. Our IPLC service offers impeccable point-to-point connectivity to LDIs, ISPs, multinationals and international agencies in Pakistan and around the world.

Generic IPLC Network Design



IPLC services are further augmented by EoSDH to provide greater bandwidth flexibility to meet divergent customer demands over Ethernet interfaces.

Features

Dedicated Connectivity
Because you own the whole circuit, you don't have to worry about bandwidth issues such as privacy and congestion.

One Stop Shop
Transworld has partnerships with Tier-1 carriers around the globe and thus we provide end-to-end connectivity through full circuits so that you don't have to shop around for the other half.

Highly Secure
Very secure connection so that you don't have to worry about any data misuse or loss.

Fully Restorable
Choose service restoration option with full bandwidth switchover to a backup cable system in case of failure, according to your budget.

Proactive Customer Support
Our dedicated customer services professionals at our dedicated Customer Services Call Centre monitor our network on a 24/7 basis so that we detect problems before you report them.

Service Description

Customers can choose a wide range of different International bandwidth capacities varying from 2Mbps up to High Speed Connectivity based either on Synchronous Digital Hierarchy (SDH) and Dense Wavelength Division Multiplexing (DWDM) enabled optical transport network. The service capabilities for all network technologies vary in accordance to the destination country, the geographical domestic area where the end customer is located, the required bandwidth speed and type of interfaces.

Network Technologies

The IPLC services can be extended based on the following mentioned different technologies as per service requirement of end customer.

1. SDH
2. Ethernet-over-SDH

SDH Services

The following are the bandwidth offers on SDH interfaces using SDH equipment.

E1 (2Mbps)
DS3 (45Mbps)
STM-1 (155Mbps)
STM-4 (622Mbps)
STM-16 (2.5Gbps)
STM-64 (10Gbps)

Ethernet Services

Ethernet over SDH Service utilize the SDH technology to provide end-to-end connection between two Ethernet access services and can be offered with a wide range of bandwidth speeds (2Mbps up to 10GE), which makes the service a flexible choice for networking sites compared to a traditional leased line service. This means that for the off-net sites the Ethernet access frames are carried over to the original SDH links from the end customer site to the PoP-to-PoP Network.

Due to the lower pricing of Ethernet interfaces compared to the traditional SDH and DWDM technologies, Ethernet has become very important in today’s global network.

Ethernet technology has the following applications and advantages:

- Suitable for transport of data traffic.
- Provides easy interconnection between networks.
- Point to point services.
- Fixed latency
- Network segmentation with VLANs.
- Network security due to dedicated link.

The advantages of using SDH are end-to-end network management, full diagnostic capability, fault monitoring and statistical performance reporting.

Ethernet Characteristics

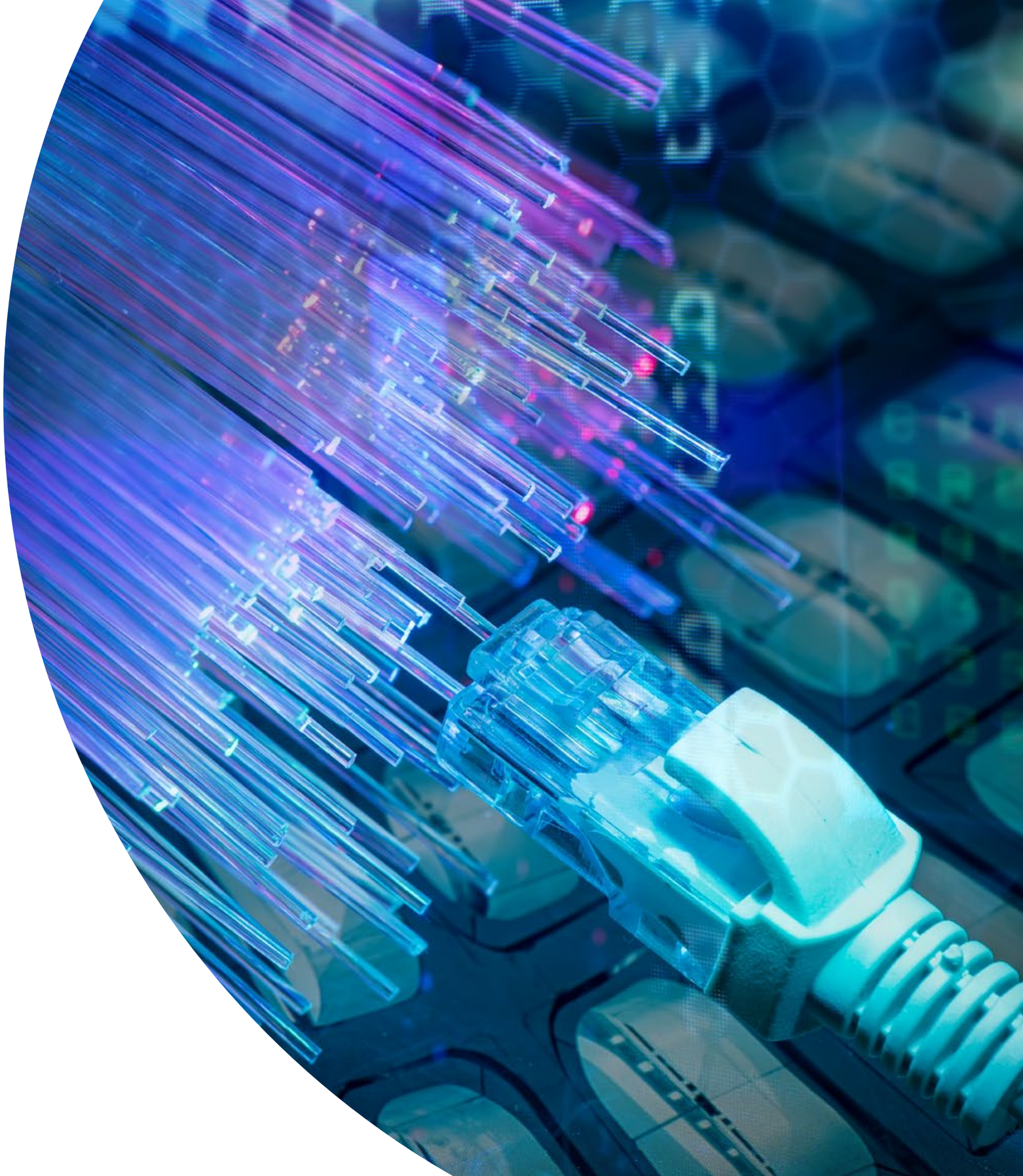
With Transworld's EoSDH IPLC service, as standard, partner operators can choose a wide range of different international bandwidth capacities varying from Nx2Mbps up to 10Gbps based either on Synchronous Digital Hierarchy (SDH) and Dense Wavelength Division Multiplexing (DWDM) enabling optical transport of bandwidth.

Service Level Features

- PoP-to-PoP Network Protection
- Submarine Cable Restoration

Service Benefits

The main advantages of Ethernet-over-SDH are the ability to carry Ethernet traffic over long distances, handle traffic from many customer sites in common pipes and at the same time offer tailored, agreed service levels to each single customer. By combining the traffic from many customer sites into common SDH pipe of tailored size, it is possible to connect customers all over the country without the need to deploy IP/MPLS edge routers at all central offices. This is achieved by adding Ethernet-over-SDH capabilities to the network nodes at PoP sites and then establishing central gateways to the core IP/MPLS network where necessary. In this way, both established and new service types can be offered.



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PUNJAB
Gwadar
Karachi
SINDH
INDIA
BANGLADESH
MYANMAR
SRI LANKA
MALAYSIA
SINGAPORE
INDONESIA

Legend

- TW1 Cable System (Self Owned)
- SEA-ME-WE-5 (Consortium Cable)
- SEA-ME-WE-4 (Restoration)
- SEA-ME-WE-4
- MENA
- FLAG
- AAE 1
- TGN Gulf / Seacom
- Terrestrial Cable
- EIG
- Cable Landing Station
- Branching Unit
- Point of Presence (PoP)

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