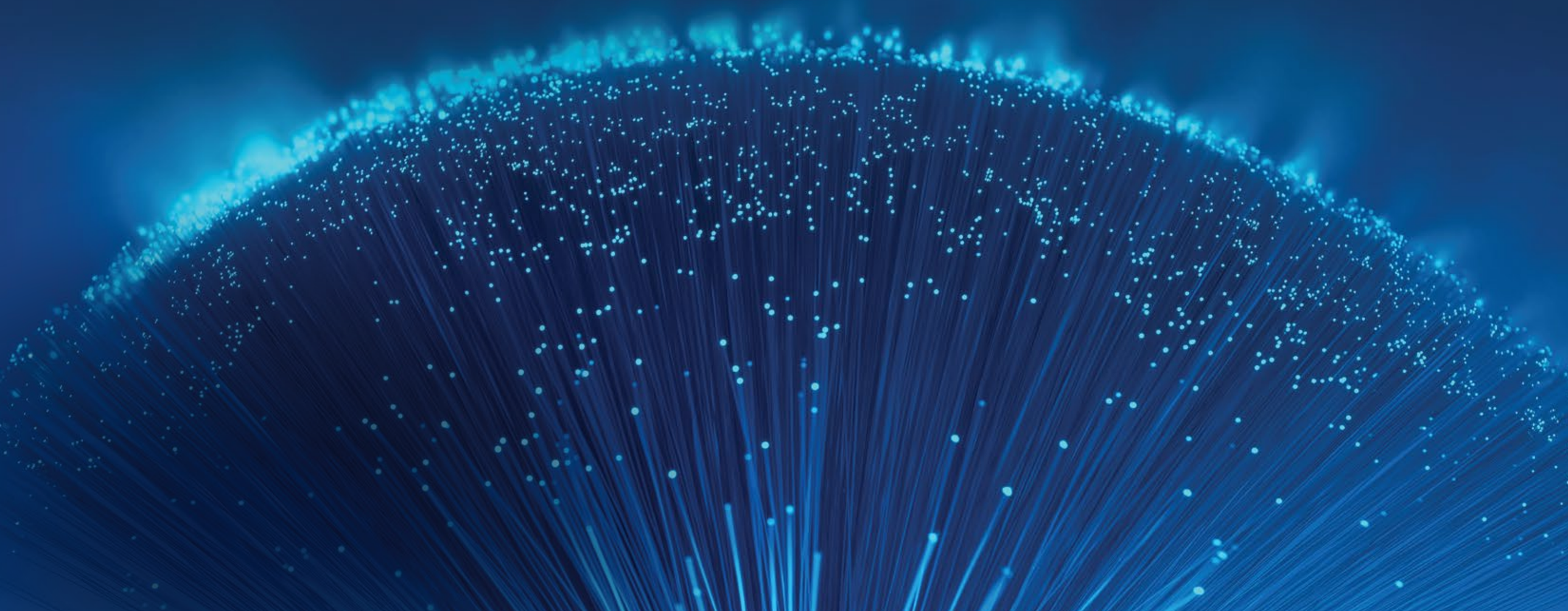
Transworld™

Domestic Point-To-Point Connectivity

I-Connect



Service Description

Transworld's ‘i-Connect' is a domestic data connectivity service offering from its suite of global products.

i-Connect is based upon MPLS technology. Two different types of i-Connect services are offered by Transworld based upon customer requirements:

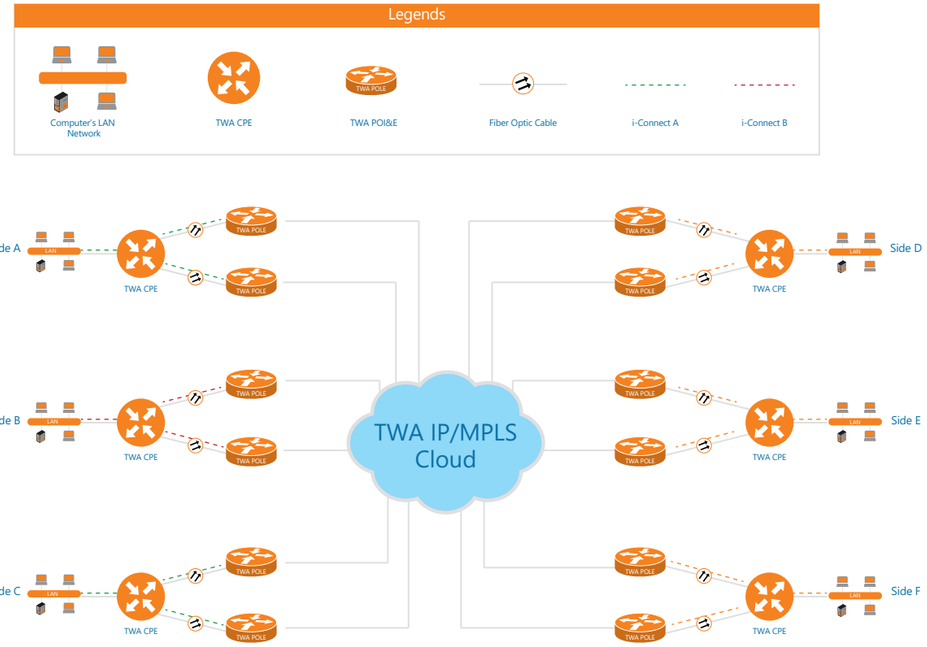
- MPLS L2VPN
- MPLS L3VPN

Coupled with Transworld's own private IP backbone, 'i-Connect' is able to provide our customers with a managed, secure, and cost-effective network solution. By subscribing to 'i-Connect' services, customers are able to leverage Transworld's wide area IP network. This translates into lower costs for the customer along with simplified networking requirements.

Network Architecture

The IP backbone is designed to service connectivity for IP and IP VPN services.

i-Connect provides Layer-2 or Layer-3 connectivity between multiple customer sites with all sites connected to Transworld's IP/MPLS Core network using last mile fiber/wireless medium. In below diagram, two different i-Connect services are being provided. Sites A, C and D are connected via i-Connect A while Sites B, E and F are connected via i-Connect B.



The backbone network provides IP connectivity between customer sites. The design of those POPs is consistent regardless of their geographical location, so the customers' use of Transworld solutions is the same at each POP, however, the connectivity design can be customized as per customer requirement and availability of last mile media. The backbone infrastructure has been implemented using a transport that supports forwarding of packets between major POPs with versatility, resilience, low-packet loss and latency. The fundamental capability of Transworld's backbone network is the ability to provide label switching transport in the core. The 'i-Connect' backbone provides ultimate scalability compared to other network implementations that have capacity limitations which cannot easily be overcome without significant expenses on additional DWDM equipment and router interfaces. The Transworld 'i-Connect' network design provides line-speed throughout, faster failure recovery, superior traffic engineering and high uptime/availability.

The core is designed with a significant amount of redundancy and high availability. For all core sites, a minimum of two routers and switches exist in order to mitigate the impact of any single node failure. For links that interconnect core sites, steps are taken to ensure that they are methodically terminated to the appropriate core router in order to minimize the global impact of potential router or interface failures. Transworld's backbone employs physical layer protection and backbone path diversity combined with MPLS backup LSP service restoration resulting from path failure ranges from milliseconds to just a few seconds, at line rate. MPLS-TE in the Transworld network uses RSVP-TE to setup the LSP tunnel.

Features

- Suitable for site-to-site communications in a corporate intranet (sharing information within a single organization) or extranet (sharing information between organizations) using dedicated access.
- Provides a solution for customers running different application types that require different performance levels.
- A secure MPLS VPN solution based on the Multi-Protocol Label Switching (MPLS) technology for delivering the security level equivalent of Frame Relay or ATM networks.
- Requires no investment in additional VPN equipment or software from the customer at their premises for tunneling - thus guaranteeing further cost savings.
- A secure MPLS VPN solution delivered from the Transworld's network
- Can address different performance levels required for different applications and offers several classes of service and the associated parameters defining quality of service.
- Gives the customers the ability to select the Class of Service (COS) for their particular applications and hence achieving major cost savings.
- Uses MPLS standards to scale the network for supporting tens of thousands of VPNs.
- Supports any range of IP addresses. As an example, customers with private IP addresses can send their data packets directly without the need to perform Network Address Translation (NAT).
- A high-performance solution backed by service level agreements that cover activation, availability, transit delay, packet loss, jitter, and mean time to restoration.
- Provides backup options, including dual port.

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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)

Transworld™

Islamabad Office

Plot 24, Retalia Building G-6
Markaz, Islamabad.

T +92 (51) 2871623
U +92 (51) 111 111 891 (TW1)
F +92 (51) 2871625

Lahore Office

138 – CCA, Phase V,
D.H.A, Lahore.

T +92 (42) 35775105-7
U +92 (42) 111 111 891 (TW1)
F +92 (42) 35775108

Karachi Office

Dolmen City (Executive Tower)
6th Floor, HC-3, Block 4, Marine
Drive, Clifton, Karachi.

T +92 (21) 35824951-4
U +92 (21) 111 891 891 (TW1)

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