



# CPCNet



## TrueCONNECT™ PREMIUM VPLS

TrueCONNECT™ PREMIUM Virtual Private LAN Services (VPLS) is a premium VPN service capitalizing on Ethernet Infrastructure to deliver scalable, high speed, and secure private LAN connectivity.

Connecting  
the World  
to China

### VPLS Overview

TrueCONNECT™ PREMIUM VPLS offers state-of-the-art fully meshed and highly redundant Ethernet-based VPN service, whereas TrueCONNECT™ MPLS network acts as a single Ethernet switch with multiple sites bridged together. With VPLS, all customer sites appear on the same private LAN regardless of their locations. Customers can maintain complete control over their routings and layer 3 addressing plans, simplifying the construction and ongoing addressing and application management. TrueCONNECT™ PREMIUM VPLS provides Ethernet-based WAN interface, which allows simple, flexible and rapid multi-site deployment.

### Simplicity and Efficiency

TrueCONNECT™ PREMIUM VPLS, based on Ethernet, supports LAN interconnection among multiple sites over our MPLS core network. Customers are given complete control over their own routings and IP or non-IP addressing plans and provided the benefits of simple, efficient and cost-effective Ethernet-based private LAN network management.

### Scalability and Seamless Network Solution

TrueCONNECT™ PREMIUM VPLS offers a fully meshed and scalable solution to interconnect customer sites. Traditionally, fully meshed or hub-and-spoke networks based on Leased Lines, Frame Relay or ATM is comparatively costly and complicated to manage. With TrueCONNECT™ MPLS core network acting as the Ethernet switch and aggregating all customer locations, customer sites connected to this switch would automatically get into the Ethernet VPN domain. They will become members of the private 'LAN' along with other sites managed by the same customer.

### Value-added Services for Network Security

TrueCONNECT™ PREMIUM VPLS is packaged as a value-added premium offering to corporate enterprises. It allows multiple sites securely connected together over a VPN. The service keeps each individual customer's data private and totally segregated from any other data network. By using virtual connections and MPLS labeling, customers can fully manage their own IP and non-IP addressing scheme, invisible by network service provider or other customers.

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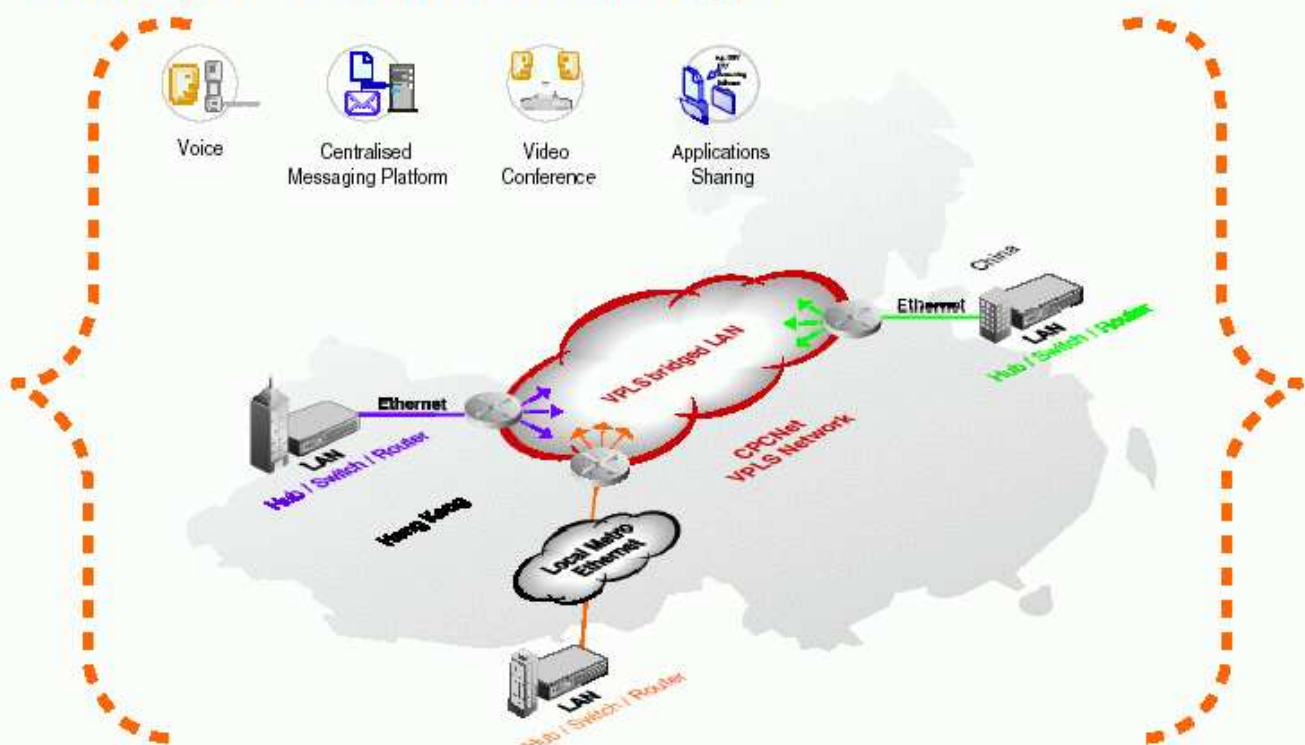
## VPLS - The Best of Both Worlds

MPLS enables the combination of 'connection-oriented' Layer 2 characteristics of ATM with packet switched or 'connectionless' feature of MPLS network. It allows the creation of virtual circuits or tunnels over an MPLS network. Once set up, data can be transported swiftly and efficiently across the most appropriate and private tunnels. MPLS also enables Class-of-Service implementation, traffic engineering and availability characteristics of ATM with the scalability, efficiency and multipoint connectivity of packet switched network. It also supports dynamic signaling of new paths, allowing traffic from a broken path to be quickly switched to a predetermined backup path, or to a backup path calculated on the fly.

TrueCONNECT™ PREMIUM VPLS inherits all the benefits of MPLS to enable multipoint Ethernet VPNs, with Ethernet being the most widely employed, mature de-facto LAN technology, comes with an array of hardware, tools, skill sets, and economies of scale. VPLS combines the best of both worlds - the cost effectiveness of Ethernet with the scalability and availability of MPLS.

TrueCONNECT™ PREMIUM VPLS is ideally suitable for an Ethernet environment, linking multiple customer sites in a single Ethernet VPN across the WAN.

## TrueCONNECT™ PREMIUM VPLS Network Diagram



### Features Highlights

- Connection Protocol:** Ethernet with IP or non-IP
- Speed:** 512kbps to 10Mbps
- Scalability:** High
- Security:** High
- Network Redundancy:** Fully redundant core network, with multiple diversities
- Service Topology:** Fully meshed and bridged
- Network Demarcation:** Ethernet (10BaseT or 100BaseT) interface