

Arcstar Global IP-VPN Service Description

(subject to change)

Arcstar Global IP-VPN Service utilizes MPLS (Multi Protocol Label Switching) technology, a high-speed forwarding method, and offers a high-quality network service, enabling customers to create a Virtual Private Network (VPN) within the network at lower cost. MPLS technology ensures strong protection and security of such VPN's. MPLS (Multi Protocol Label Switching) is a high-speed switching technology which uses labels instead of IP Addresses to identify destinations. The Service is provided by using this technology of forwarding by labels. The IP packet which is sent from a Customer site to another Customer site identifies which VPN the IP packet belongs to and which IP Address the IP packet is addressed to when the packet reaches the Service Network, and then the corresponding label is attached to the IP packet. The label instead of IP Address is identified as a destination in the network to forward the IP packet. The label is removed from the IP packet when the IP packet reaches a Customer connection router at the destination site. The IP packet, which is restored to its original form is sent to the customer site, enabling the IP packet to reach its destination.

Arcstar Global IP-VPN Features:

- Provides logical private networks operating over a shared network infrastructure
- All locations connected to the network can communicate with each other as the need arises
- Each VPN Group within the shared network is independent of other VPN's

Arcstar Global IP-VPN is not based on "end to end" type network connections, so the service can be tailored to meet the specific needs of each location. Various access methods, LL, FR, ATM, Internet, LAN, Internet (IP-Sec), are available based on location. Also, a wide range of port speeds, 64Kbps-135Mbps, is available based on location.

Definitions

"Access Point" shall mean a place where switching equipment for Global IP-VPN Service is located, functioning as a connecting point of telecommunication equipment enabling access to other telecommunication services.

"Access Service" shall mean a telecommunications service of other telecommunications carriers or providers to access the Access Point(s) for Global IP-VPN Service.

"Global Network Portion" shall mean the portion of service between two (2) Access Points in the Provider Global IP-VPN Network. "Global Network Portion" excludes Access Service and all other services provided by Provider or other carriers and service providers.

"Global IP-VPN Group" shall mean the group formed by the Subscriber Line Ports under the Global IP-VPN Contract.

"Global IP-VPN Service" or "Service" shall mean the IP Communication Network Service between the Subscriber Line Port located in the various countries, which are identified on the Arcstar Service. The Service shall be provided by using switching equipment with the function to enable communication only between the Subscriber Line Ports, excluding Domestic IP-VPN Service.

"Global IP-VPN Service Area" shall mean the area between Access Points, except for Access Line Backup Service and CPE Management Service.

“IP Communication Network Service” shall mean a telecommunication service provided by using telecommunication line equipment enabling code transmission exchange by Internet Protocol. Its main purpose is to realize data transmission.

“IP-VPN” shall mean Internet Protocol-Virtual Private Network.

“Subscriber Line Port” shall mean the port to be set up within Provider’ or other service provider based on the respective Global VPN Contract.

Technical Conditions

- Customer shall allow Provider to ping the WAN interface of Customer Equipment terminating Provider’s Service (“CE”) for monitoring purposes. Pings will be sent from the WAN interface of Provider’s Provider Edge Router (“PE”) or from Provider’s maintenance router at five (5) -minute intervals.

ver.3/9/2009