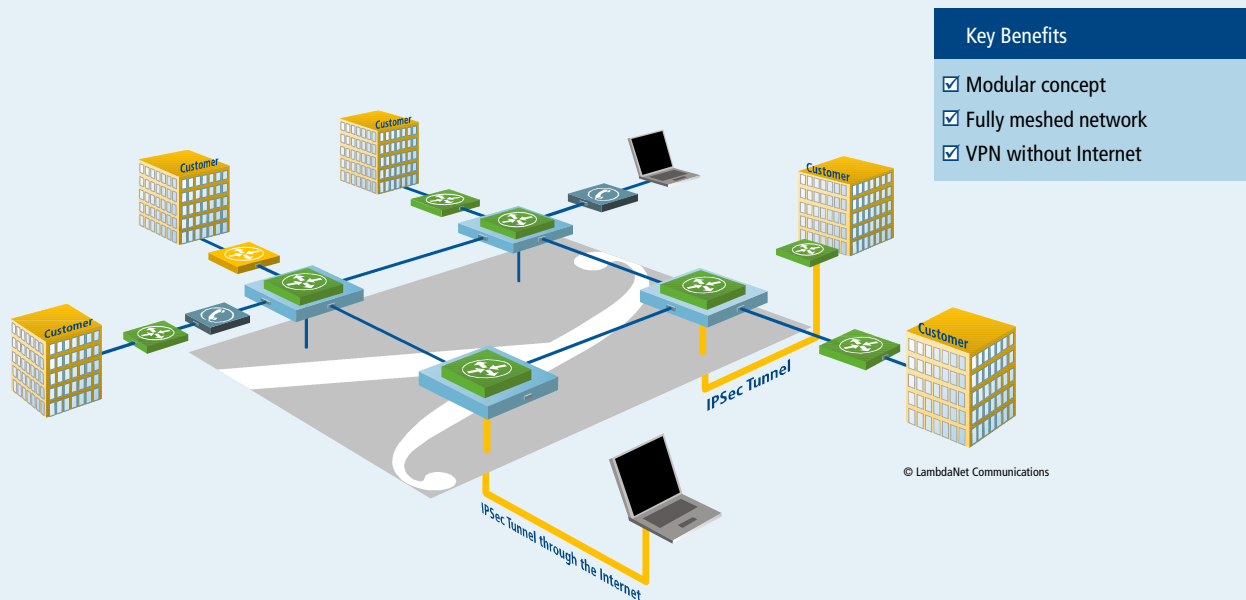


## λ-NET-VIPNet



### Virtual IP Network

Do you need a secure and scalable VPN solution to connect your sites? Using our λ-Net-VIPNet you can act as an internal service provider within your company or, as a service provider, operate private IP networks. With λ-Net-VIPNet, establish a cost-efficient, fully meshed connection of individual IP networks based on highest security standards.

### Virtual Private Network

Based on state-of-the-art MPLS technology, λ-Net-VIPNet is a highly attractive alternative to traditional network technologies such as leased lines, Frame Relay or ATM. With λ-Net-VIPNet you have the benefit of flexible and scalable bandwidths of up to 1,000 Mbps (Gigabit Ethernet).

### Very Important Network

λ-Net-VIPNet allows you to run a multitude of IP applications – covering Intranet but also real-time applications. Establish your own Voice-over-IP network. Protect your Groupware solutions, Lotus Notes, Exchange Server, Email etc. against unauthorized access or hostile attacks by means of a secure network.

### Top class for your applications

λ-Net-VIPNet offers up to 4 service classes in order to guarantee smooth operation of all data, voice and video applications on a common IP network platform. Based on these service class priorities, we can ensure the performance of your business-critical applications while at the same time optimising the utilization of the access line.

### Cost-efficient access options

In addition to the selectable access from 2 Mbps up to 1,000 Mbps, the bandwidth can also be customized by using DSL connections and remote access solutions based on ISDN or IPsec.

### Turn-key project management

No matter whether you just want to connect few sites or you want to build a complete network including locations in several countries – LambdaNet assumes full project management responsibility by implementing turn-key solutions that cover all of your communication requirements while you are able to focus on your own core business.

### Perfect protection of data

Data protection levels of λ-Net-VIPNet are comparable to conventional ATM or Frame Relay services, but stand out for the typical flexibility inherent to IP networks.

### High-performance MPLS network

Our λ-Net-VIPNet is based on LambdaNet's high-performance IP/MPLS network. MPLS (Multiprotocol Label Switching) is a proven technology particularly suited to build highly secure, closed networks. MPLS uses a label-based transport mechanism which allocates so-called labels to data packets before transmission. This procedure guarantees the high service quality and the safety required for IP networks. MPLS has a superior performance because routing decisions can simply be taken using the labels, without having to browse large routing tables.

## λ-Net-VIPNet Overview

### Basic services

- Connection to the LambdaNet IP/MPLS network
- Fully meshed topology
- End-to-end project management
- BGP-4, RIPv2, OSPF or static routing

### Access-bandwidth

- SDSL bandwidths: 256 kbps – 2.3 Mbps
- E1, E3, T3
- STM-1, STM-4
- Ethernet, Fast Ethernet, Gigabit Ethernet

### Billing options

- Flat Rate
- Average Bandwidth or Burstable (95 %)

### Service level

- Service availability up to 99.95 %
- Service restoration times starting from 4 hours
- Packet loss rate < 0.1 %
- Round trip time (RTT):
  - for German routes < 30 ms
  - for European routes < 65 ms
- Credits in case contracted service levels have not been met

### Customer service

- Our 24 x 7 Network Management Centre (NMC) in Hanover, Germany, provides pro-active monitoring and management
- Web-based Customer Support Portal provides service reports and statistics

### Optional value-added services

- Provision and management of IP routers
- Prioritisation of applications using up to 4 service classes
- Individual backup and redundancy solutions
- Access solutions for small sites, individual workstations and mobile users by means of ISDN or IPSec