



## Global Network Services

### WAN Services

Due to the growing globalization of markets, companies operating internationally increasingly require attractive and efficient wide area networks and communication services for their internal processes as well as for communication with customers, partners and suppliers.

The challenge here is to design and operate an IT network that supports corporate strategy while utilizing technological potential for the further development of the company's real core business.

In reality, we usually find only isolated individual lines and subnetworks in more or less evolved structures supplied by different providers. Added to this are non-transparent and undocumented processes at an unsatisfactory price-performance ratio.

This gives rise to the following key questions in particular:

Is it possible to continue working as before, does it make sense to conduct a redesign internally? Or can the WAN service be outsourced completely, in a multiprovider strategy or in sub-areas?

Lufthansa Systems offers a broad range of products for WAN services, from the outsourcing of network infrastructure to the secure linking of mobile users via the Internet. The main focus is on the linking

of worldwide locations via public or private networks with central computer centers, plus the associated value-added services.

#### Key benefits

- Service from one source
- Cost transparency and optimization
- High flexibility when linking mobile users
- Location-independent solutions
- High data security
- High availability
- Utilization of technological potential

The following individual modules are available:

- **Public Mobile Connection**  
Secure access via public networks for individual mobile users
- **Dial-up Connection**  
Secure access via ISDN dial-up connections
- **Public Location Connection**  
Secure access via public networks/Internet for locations
- **German Connection**  
Secure access from locations in Germany to the Lufthansa Systems Data Center
- **Global Connection**  
Secure access from locations worldwide to the Lufthansa Systems Data Center
- **Performance-Optimized Connection**  
WAN optimization with intelligent compression technology



#### **Public Mobile Connection**

As a remote access solution Public Mobile Connection gives individual mobile users worldwide access to the central resources of the customer Intranet (e.g. Lufthansa Group) via dial-up through the Internet.

Confidential, internal corporate data communication is ensured by the use of Virtual Private Network (VPN) technology.

Encryption and authentication mechanisms permit secure data transfer via a public network. The benefits here lie particularly in the high flexibility provided when connecting mobile users.

#### **Dial-up Connection**

Lufthansa Systems provides you with the service of linked check-in terminals, temporary exhibition stands and sporadic network connections via ISDN dial-up connections.

This economical connection to the central services in the Lufthansa Systems Data Center is provided within Germany and, if required, throughout Europe.

#### **Public Location Connection**

A Public Location Connection enables employees to dial into the corporate network via the Internet from branches, external offices or their home workplaces. The dedicated lines previously necessary to ensure confidentiality can now be replaced by Virtual Private Network (VPN) technologies.

Using VPN technologies a private tunnel which already includes encryption is set up via a public network and transfers the data securely between terminal and server. In addition, using the Internet as the medium opens the door to cost-effective solutions.

#### **German Connection**

German Connection provides the possibility of connecting locations throughout Germany to the Lufthansa Systems Data Center. This service ensures secure, reliable, high-availability and high-performance access to resources in the Lufthansa Systems Data Center from customer locations within Germany.

#### **Global Connection**

Global Connection provides the possibility of connecting locations worldwide to the Lufthansa Systems Data Center, thereby permitting secure, reliable, high-availability and high-performance access to resources in the Lufthansa Systems Data Center from locations all over the world (excluding Germany).



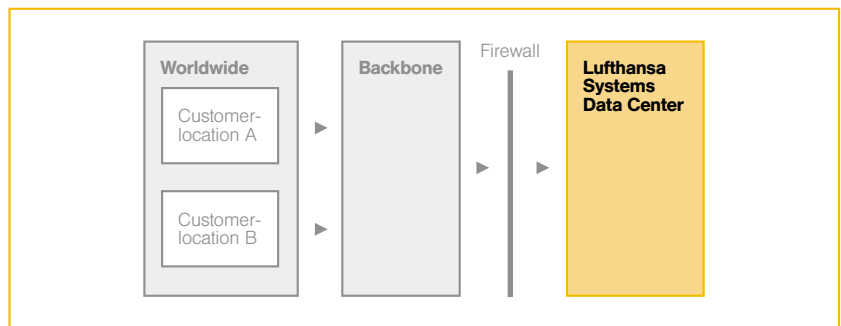
### Performance Optimized Connection

This service optimizes the performance of the WAN link, enabling bandwidth reduction or dispensing with a cost-intensive bandwidth upgrade. Depending on the application concerned, the algorithm used compresses traffic by up to 90% at peak times.

The compression technology used permits the crossover and integration of various technologies. This service incorporates a fault-tolerant switch-to-wire technology which means that the local LAN can always be reached even in the event of a total breakdown.

The compression box can be integrated without difficulty into peer-to-peer, multi-peer and high-availability networks.

### Global Connection





#### **Add-on modules**

WAN Services is a service module from the Global Network Services portfolio. If required, we can provide you with the following add-on service modules:

- WAN Outsourcing
- LAN Services
- Net Security Services

#### **Additional services**

- SkyProtect®
- Desktop Management
- Data Center Services

#### **Contact:**

Lufthansa Systems Group GmbH  
Marketing Communications  
Am Weiher 24  
65451 Kelsterbach  
Germany

Tel. +49(0)69-696 90000  
Fax +49(0)69-696 95959  
[marketing@LHsystems.com](mailto:marketing@LHsystems.com)  
[www.LHsystems.com](http://www.LHsystems.com)