

HOB Remote Desktop VPN

February 2008

HOB RD VPN —

Secure Remote Access to Central Applications, Servers and Data



■ HOB RD VPN

HOB RD VPN is a software solution package providing secure remote access to all data found in the company network. Regardless of whether these are stored in Windows Terminal Servers, IBM Mainframes, Blade Centers, Unix/Linux servers, your own workplace PC or on Web servers.

It provides SSL-protected access to the corporate network from any client system. The client products from HOB enable you to work efficiently with Windows and legacy applications.

In addition to connecting employees to the corporate network, customers and business partners can also be provided with access to applications or data of

your choice. This access is both easy to configure and very flexible.

The HOB WebSecureProxy Universal Client enables third-party client products (e.g., e-mail programs) to exchange data with internal company servers. The HOB Web-Server-Gate provides secure access to Web servers in the company network.

The HOB RD VPN software suite consists of the products:

- HOBLink JWT
- HOBLink J-Term
- HOBLink Secure
- HOB X11 Gate
- HOB WebSecureProxy Universal Client
- HOB WSP Web-Server-Gate
- HOB Enterprise Access

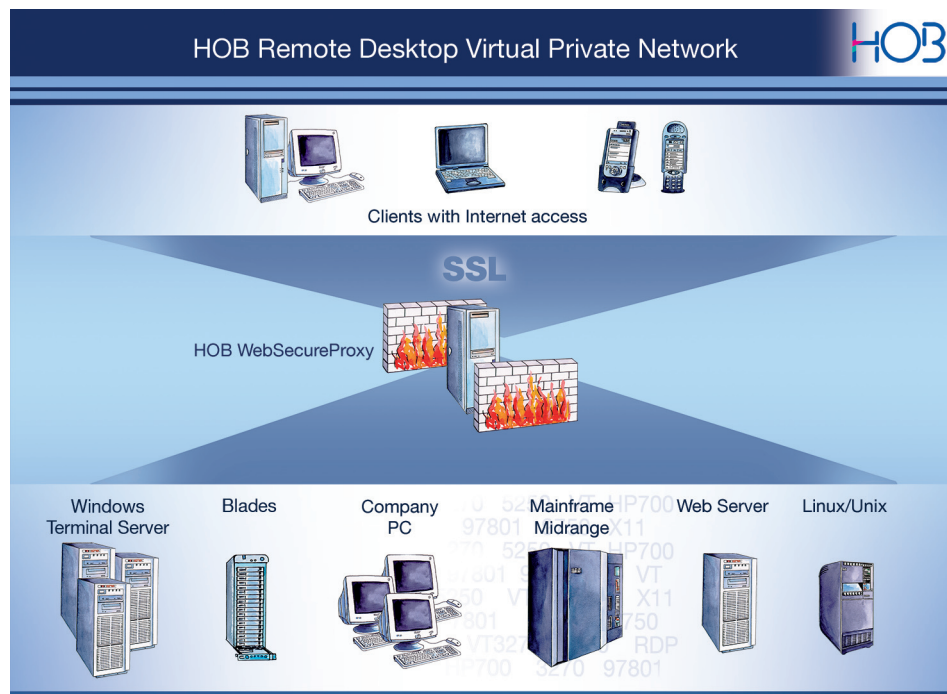
■ Client Software

HOBLink JWT / HOBLink J-Term

HOB RD VPN has the right client software for different types of remote access. This enables highly performant access to Windows and legacy applications. The HOB clients are Web-based, thus the client machine only requires a browser with Java support. HOBLink JWT provides access to Windows computers and Windows Terminal Servers. HOBLink J-Term supports the following protocols: 3270, 5250, VT, HP-700, Siemens 9750, Siemens 97801, SSH.

HOB WebSecureProxy Universal Client

HOB WebSecureProxy Universal Client (HOB WSP UC) is a gateway. It enables locally installed third party applications to exchange data securely (SSL-encrypted) over the Internet. The HOB WSP UC is Web-based, requires no administrator rights and can be installed locally. It is currently available in Java and will be available soon for the .NET platform as well.



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Secure Remote Access

■ The Connection: Secure via SSL

Strong encryption of the communication data provides data security for the connection between the client and the gateway to the corporate network. This way, the connection can also be made over networks that do not themselves have sufficient security. The connection can be made over any TCP/IP-capable network, for example, over the Internet, WiFi or UMTS. This solution protects your investment, as it already supports IPV6.

Authentication

HOB RD VPN supports the following authentication methods:

- User name / Password
- Token (e.g., Vasco Digipass, RSA SecurID, SafeWord PremierAccess)
- SSL client certificates

■ Access Anytime and Anywhere

You can access your Windows computer from anywhere in the world, for example:

- from home
- from a hotel
- when you're "on the road"
- from an Internet Café
- from an Internet kiosk

Hereby, no software need be installed on the client machine, nor are administrator rights required.

Access for Business Partners

The easy access to Windows computers also allows you to integrate your business

partners or customers into your Windows systems, as the user only needs to call a Web address (URL) with the browser and have the corresponding access authorization.

■ HOB RD VPN – Many Possibilities: 3 Examples

HOB RD VPN provides three solutions for common enterprise deployment scenarios in Windows environments:

- HOB WTS Computing – Remote access to Microsoft Windows Terminal Servers
- HOB Desktop-on-Blade – Remote access to Blade Centers equipped with Windows XP Professional or Vista
- HOB Desktop-on-Demand – Remote access to a PC equipped with Windows XP Professional or Vista, even if it has been switched off.

■ HOB WTS Computing

HOB WTS Computing is the solution for remotely accessing MS Windows Terminal Servers. This platform-independent solution enables you to use the full range of Windows applications on the WTS, regardless of the software on the client computer.

Single Point of Administration: HOB Enterprise Access

When HOB WTS Computing is used together with HOB Enterprise Access,

the administrator can centrally manage all user and configuration data. HOB Enterprise Access can administrate this data itself or it can use its LDAP interface to access directory services such as Microsoft Active Directory.

Flexible Printer Functions via Universal Printer Support

The flexible printer functions offer you a multitude of options for printing on locally installed printers or over a network.

- Local Print (print locally or over a network with the driver on the WTS)
- Easy Print (print on locally available printers with the local driver)
- LPR/LPD Print
- IP Print
- With Windows clients: Automatic printer mapping

Supports Virus Scanners

Files that are transmitted to the remote system from a client could contain viruses. HOB RD VPN has an interface for connecting to anti-virus programs, preventing contaminated files from infecting your system.

■ HOB Desktop-on-Blade

HOB Desktop-on-Blade provides the user with a remote Windows Desktop. The user can work with centrally installed applications. With HOB Desktop-on-Blade, enterprises can access blade centers deploying Windows XP Pro or Windows Vista.

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The Desktop-on-Blade principle: Each user, when making a connection, is assigned their “own” blade, which is available to only this user as long as the connection exists. HOB Desktop-on-Blade also supports virtual target systems, e.g., Windows XP Pro / Vista, as VMware guest systems.

Running High Performance Applications

This solution also enables you to run applications that require enormous resources or that can’t run on the WTS itself, for example, CAD applications. Differently as with the WTS, the user always has 100% of his blade’s power at his disposal.

The Most Important Advantages of HOB Desktop-on-Blade

- Deployment of high performance applications
- The “desktops” remain in the computer center
- SSL encryption of all communication data
- Use of thin-client machines
- Work wherever you like
- Reduction of licensing costs

■ HOB Desktop-on-Demand

HOB Desktop-on-Demand stands for access to Windows XP / Vista workstations over the Internet — the ideal solution for remote users wanting to access data and applications in the office.

Wake-on-LAN

A computer equipped with Windows XP Pro/Vista can be accessed even if it is

shut off. To do this, the PC’s “Wake-on-LAN” function is called into action, enabling a remote booting.

Local Drive Mapping

With HOB Local Drive Mapping, files can be copied to and from the client and the remote PC.

■ HOB WebSecureProxy

The HOB WebSecureProxy (WSP) is the component that ensures the security of the HOB RD VPN connection. The WSP provides the SSL-encrypted communication between the HOB RD VPN client and the remote Windows system.

The HOB WSP can be deployed on many systems, is highly scalable and thus well-suited for large or small installations. Even with large installations only a few, performant, servers are required. This reduces the risk of failure as compared to conventional SSL appliances.

With the HOB WSP, you also have intelligent load balancing and the reconnect feature for automatically restoring disconnected sessions. This ensures smooth, continued work.

The HOB WebSecureProxy has an interface to RADIUS and OSCP (RFC 2560).

Via HOB Enterprise Access an interface to LDAP (e.g., MS Active Directory) can be implemented.

Low Bandwidth Requirement

HOB RD VPN can also compress your communication data before they are encrypted, increasing performance by sav-

ing bandwidth. The RDP protocol data are directly SSL encrypted.

You Only Need One TCP Port

All communications to the company network can go over just one TCP port, usually the HTTPS port 443.

Integrated Web Server

A Web server is integrated into the HOB WSP. This provides HTML login pages and the HOB client software (e.g., HOBLink JWT) in the form of a Java applet. This provides increased security, as authentication must be completed before the applet is loaded.

High Performance on Standard Hardware

High performance is guaranteed even for very large numbers of users: Tests with up to 10,000 concurrent sessions have proved this (on a 32-bit Windows Server 2003 with two 2.86 GHz processors and 2 GB RAM, of which 512 MB RAM were used).

Secure E-Mails with Mobile Terminals

The HOB WebSecureProxy can also be used to protect an e-mail server from direct access over the Internet. Communications between the e-mail client and HOB WebSecureProxy are hereby carried out over POP3S, IMAPS and/or SMTPS.

HOB PPP-T1 Tunnel Support / PPP over SSL

Simple and highly performant secure remote access over the patented HOB PPP-T1 tunnel, without the need for any installation or administration rights on the client PC, is now available. The HOB PPP-T1 tunnel is fully compatible with

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the Layer 2 Transport Protocol (L2TP) and works smoothly with all L2TP components such as Microsoft RAS, Linux OpenSwan, Cisco routers and others. The PPP client is planned to be available for Windows Vista, Linux, Apple Mac OS X, Solaris and FreeBSD.

Common Criteria Certified

The German Federal Office for Information Security (*Bundesamt für Sicherheit in der Informationstechnik, BSI*) has tested and certified HOBLink Secure in accordance with the Common Criteria Evaluation level EAL2 - a certification to the level EAL4+ is currently underway.

HOB X11 Gate

Graphical access to Unix/Linux desktops is no problem with HOB X11 Gate. For this, it is installed on the Unix/Linux target system. The client access is Web-based.

HOB WSP Web-Server-Gate

With HOB WSP Web-Server-Gate internal company Web servers and Web services can be securely accessible from outside over HTTPS and protected by the HOB WebSecureProxy. The HOB WSP Web-Server-Gate presents itself to the target Web server as a Web browser. All links on the Web pages (HTML or Javascript-generated links) are converted by the HOB WSP Web-Server-Gate automatically.

Client-side SSL enables you to securely integrate Web servers via HTTPS.

The target filter integrated into the HOB WSP Web-Server-Gate allows users to access only those Web servers for which they are authorized.

Things to Come

An HOB WebSecureProxy Universal Client for the .NET platform is currently under development.

HOB Phone: A SIP-based Java client for VoIP will be integrated soon.

Virus checking in WebSecureProxy: To enhance security, the security gateway will perform virus checking.

Clustering: Run WebSecureProxies in a cluster, so that they are connected to each other.

System Requirements

Client:

On the client side, any Java-capable platform from JRE 1.1 up can be used. On UNIX platforms, you should use a JVM with Java 1.2 Standard or up. The client must have a JVM installed; usually, this is included with a standard Web browser.

HOB WebSecureProxy is available for:

- Windows (x86, EM64T, Itanium)
- Sun Solaris (Sparc, x86-EM64T)
- IBM AIX
- HP-UX (PA-Risc, Itanium)
- Linux (x86, EM64T, Itanium)

Further Information

For further information on HOB RD VPN, please see the following HOB publications:

- Datasheet HOBLink JWT
- Datasheet HOBLink Secure
- Datasheet HOB Enterprise Access
- Whitepaper HOB RD VPN
- Whitepaper HOB Desktop-on-Demand
- Whitepaper HOB Desktop-on-Blade

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