

HOB Remote Desktop VPN: Quick-Info

HOB RD VPN 1.3— Secure Remote Access to Central Applications, Servers and Data

■ HOB RD VPN — Overview

HOB RD VPN is a software product package providing secure remote access to all data in the company network, regardless of whether these are found in Windows Terminal Servers, IBM Mainframes, Virtual Machines, UNIX/Linux servers, your own workplace PC or on Web or file servers.

It provides SSL-protected access to the corporate network from any client system and supports strong authentication. 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 secure remote access is both easy to configure and very flexible.

Key Components

The HOB RD VPN software suite consists of the following key components for secure remote access:

- WTS Computing - For Windows Terminal Server access
- Web File Access - For access to file servers over the Internet
- Web Server Gate - SSL-encrypted access to Web servers behind the corporate firewall
- PPP Tunnel - Access to all of your network resources
- Universal Client - Access to locally installed 3rd party applications

Optional Components

In addition to the above-listed standard components, the following optional components are also available:

- HOB Desktop on Demand - Remote access to workstation PC's
- HOB VDI Business - Access to virtual desktops
- HOB Legacy Access - Access to dialog-oriented/host applications
- HOB Enhanced Terminal Services - Provides enhanced load balancing, enhanced local drive mapping incl. virus scanning, True Windows
- HOB SCS (Secure Communications Server) - Hardened operating system with HOB RD VPN as a software appliance
- HOB X11Gate - Gateway for access to graphical systems running under UNIX/Linux
- HOB MacGate - Secure remote access to Apple Mac OS X

■ 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 applications and data from anywhere in the world, eliminating the need to take them with you, for example, on a business trip. Thus sensitive data is no longer subject to loss or theft, and errors due to data synchronization are a thing of the past.

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

Access for Business Partners

The ease of obtaining secure remote access to your applications and data also allows you to integrate your business partners or customers into your IT systems, as the user only needs to call a Web address (URL) with the browser and have the corresponding access authorization.

■ HOB WebSecureProxy

The HOB WebSecureProxy (WSP) is the core component of HOB RD VPN, providing more than just the SSL-encrypted communication between the HOB RD VPN client and the remote system.



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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.

The HOB WebSecureProxy has an interface to RADIUS and OCSP (RFC 2560). Via HOB Enterprise Access an interface to LDAP (e.g., MS Active Directory) can be implemented. Below you can find short descriptions of the most important WSP features.

Load Balancing

The HOB WSP provides HOB RD VPN solutions with intelligent load balancing that determines the server load according to a configurable set of criteria. This helps ensure that each user is given the right amount of computing power.

Automatic Reconnect

The HOB WebSecureProxy's automatic reconnect feature prevents loss of productivity in the event of disconnected sessions. An automatic re-synchronization will be carried out in the event of short interruptions in the line (up to 2 minutes). This ensures smooth, continued work.

Low Bandwidth Requirement

HOB RD VPN can also compress your communication data before they are encrypted, increasing performance by saving 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 WebSecureProxy is available for:

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

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. HOB RD VPN itself is currently undergoing the certification process for level EAL4+.

Client Software

HOBLink JWT / 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 pro-

vides access to Windows computers and Windows Terminal Servers. HOBLink J-Term, for host/legacy access, supports the following protocols: 3270, 5250, VT, HP-700, Siemens 9750, Siemens 97801, SSH.

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

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

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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.

Web File Access

Regardless from which client platform access is being made: With this functionality, files can be exchanged with the enterprise network over a Web browser. Windows networks and SAMBA releases can be accessed.

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.

HOB PPP Tunnel

Secure remote access over the HOB PPP Tunnel (SSL-encrypted). This HOB solution combines the advantages of IPSec VPN access with the simplicity of an SSL-VPN. The new procedure (patent pending) developed by HOB on the basis of the Point-to-Point-Protocol (PPP) enables complete network access over all protocols, such as TCP, UDP, and ICMP, to all resources in the internal network. No drivers nor any additional software need be installed on the client device in order to get this access. The user need

only authenticate him- or herself over the Web browser in order to exchange data, for example, between the Windows file explorer and the remote network files. The powerful compression functionality (more effective than IPSec) ensures highly performant work. In the event of an unexpected session disconnect, e.g., due to an interruption in the communication lines, the automatic reconnect feature enables a smooth continuation of the workflow.

The PPP Tunnel is currently available for clients running Microsoft Windows Vista.

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 in native Windows Mobile. It will be available soon for the .NET platform as well.

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 VDI Business

HOB VDI provides the user with access to a virtualized remote Windows Desktop. The user can work with all applications installed on the virtual Windows machine. With the VDI technology, single-user operating systems such as Windows XP or Windows Vista do not run on the user's workstation, but in the computer center. There, the operating systems run as virtual machines in a server.

The HOB VDI Business principle: When a connection is established, each user is assigned their own virtual machine which, for the duration of the connection, is available to this user alone. Supported VMware guest systems include Windows XP and Windows Vista.

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 the virtual machine's capacity at his/her disposal.

Legacy Access

HOBLink J-Term, HOB's host/legacy application client, provides SSL-encrypted remote access to host or "legacy" applications. It supports the following protocols: 3270, 5250, VT, HP-700, Siemens 9750, Siemens 97801, SSH.

HOB ETS (Enhanced Terminal Services)

The HOB Enhanced Terminal Services, in short, HOB ETS, enhances the Microsoft Terminal Server functionality with more granular configuration possibilities and some features that Microsoft does not

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provide (Twain support, bidirectional audio for Windows Server 2000 and 2003). HOB ETS consists of several modules that have to be installed on the terminal server in order to obtain these functions.

HOB ETS – Key Features

Enhanced Load Balancing - Measures the server load with up to 13 different parameters for an exact, “true” load balancing.

Local Drive Mapping - Fine tunes the local drives you want mapped. Microsoft local drive mapping always opens complete local drives; with the HOB solution, you can limit access authorization to specific folders within a local drive, define read/write access, restrict access to specific file types, etc.

HOB Audio - Enables bidirectional audio on Windows Server 2000 and 2003

True Windows - True Windows enables you to completely integrate remote applications into the client machine. The user sees no difference between locally installed applications and those residing on the Windows Terminal Server. Even the user-specific tray icons are displayed on the client machine. Session-sharing is supported, which spares resources by letting several server applications run in a single session.

HOB SCS

HOB SCS (Secure Communications Server) is a hardened, stable Linux operating system that can be used as the platform for HOB RD VPN. This is an easy and efficient way to ensure secure remote access via HOB RD VPN. HOB SCS uses tried and proven Open Source Technology. When used as a software appliance in conjunction with the HOB SCS platform, HOB RD VPN benefits from real advantages in security, stability, performance and scalability. HOB SCS can be installed, for example, on dedicated hardware or on a virtual machine.

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.

MacGate

With the HOB MacGate you can quickly and securely have get a remote connection to your Mac desktop. Working on a remote Mac is then also possible over the Internet. Any Java-capable browser, running on almost any OS, e.g., Windows, can be used to get this secure remote access.

HOB RD VPN: A Summary

High Performance and Flexibility

With the three basic solutions for common enterprise deployment scenarios in Windows environments, HOB RD VPN covers all your Windows connectivity needs:

- HOB WTS Computing – Secure remote access to Microsoft Windows Terminal Servers
- HOB VDI Business – Secure remote access to virtual machines running 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.

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.

Further Information

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

- Datasheet HOBLINK JWT
- Datasheet HOB Enterprise Access
- Datasheet HOB SCS
- Whitepaper HOB RD VPN
- Whitepaper HOB Desktop-on-Demand

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