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# WhitePaper

## HOB Remote Desktop VPN

Secure access for remote workers and  
business partners to your enterprise network

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# HOB RD VPN

With HOB RD VPN (Remote Desktop Virtual Private Network), HOB, Inc. offers you highly secure remote access to applications and data in your enterprise network. RD VPN uses the appropriate communication protocol for the target system (e.g., RDP for Windows-based systems or 3270 for IBM Mainframes, etc.). Used together with the HOB X11Gate, RD VPN also provides remote access to Unix/Linux desktops. As this software can be run as an applet downloaded from the Internet, nothing has to be installed on the client machine, thus any Internet-capable computer can be used.



In the following, you will find described the wide variety of RDP (Remote Desktop Protocol)-based connection scenarios available with this versatile solution:

## 1. HOB WTS Computing

### *Access to Microsoft Windows Terminal Server Farms*

This HOB solution provides secure remote access to Windows Terminal Server farms, even over the Internet. The HOB WebSecureProxy shields the individual terminal servers from direct access over the Internet. It also manages the load distribution/connections over the individual servers according to the CPU load, providing you with real load balancing.

## **2. HOB VDI Business**

### *Remote access to virtual desktops*

As an alternative to Windows Terminal Servers, virtual machines running Windows XP Professional or Windows Vista and hosted on servers can also be accessed. Here, too, the HOB software manages load balancing for the individual virtual machines. In combination with VMware, virtual Windows XP Pro / Windows Vista guest systems can be used to provide secure remote access to your workforce.

## **3. HOB Desktop-on-Demand**

### *Access to workstation PC's*

This HOB solution provides remote access to Windows XP Pro / Vista workstations. This remote access is even available when the workstation PC has been switched off. The HOB WebSecureProxy uses the Wake-on-LAN functionality integrated into modern computers to switch on the target computer over the Internet.

In all three of the above-mentioned scenarios data can be exchanged over an RDP connection. With HOB WTS Computing this is true for the Windows Server 2003 as well as the Windows Server 2008. Print output, independent of the printer hardware used on the client side, is provided by the HOB EasyPrint technology, which uses a standard printer driver on the server side.

The SSL protocol is used to secure communications over the Internet. All known algorithms, for example, 3DES or AES with up to 256-bit key lengths are supported.

## **4. HOB WebSecureProxy**

### *Access to enterprise servers*

The HOB WebSecureProxy can, in addition to the scenarios described above, also forward any SSL queries from external client applications to servers within the enterprise network. For example, a client-side MS Outlook can exchange e-mail (SSL-secured by, e.g., POP3S, IMAPS or SMTPS) with the enterprise mail server. The mail server itself doesn't use any SSL encryption and cannot be directly accessed by the e-mail clients. The HOB WebSecureProxy shields the target system from direct access over the Internet.

## **5. HOB WebSecureProxy Web-Server-Gate**

*Access to Web servers in the enterprise network*

The HOB WSP Web-Server-Gate enhances the HOB WebSecureProxy's functionality. Queries arriving from a Web browser can be redirected to internal Web servers. Communications between the client-side Web browser and the HOB WebSecureProxy are performed via HTTPS, between the HOB WebSecureProxy and the target system via HTTP or HTTPS. The HOB WSP Web-Server-Gate reinterprets the Web pages, HTML and JavaScript links are automatically converted. A target filter restricts the user's Web access to Web servers authorized by the administrator.

## **6. HOB WSP Universal Client**

*SSL tunneling for local client queries*

The HOB WSP Universal Client provides SSL-incapable client software with the functionality of a local client SSL-gateway. The HOB WSP Universal Client can be locally installed or run as an applet downloaded via a Web browser. Client-side TCP-queries are accepted at a defined TCP port and forwarded to the corresponding target system via the HOB WebSecureProxy. The client applications direct their queries to "localhost" as the target system. You don't need local administrator rights on the client side in order to use the HOB WSP Universal Client. You can find more information on this in the white paper "HOB WSP Universal Client."

## **7. HOB Web-to-Host**

All of the above-mentioned scenarios also can be used together with HOBLink J-Term, the powerful Web-to-host solution from HOB, giving you access to legacy systems.

HOB RD VPN, is much more flexible than conventional SSL VPN solutions, as it works with every Windows and legacy application in your corporate offices.

An advantage HOB RD VPN has over IPSec-based VPN solutions is that there is no need to install anything on the client side, making deployment easier, faster and truly universal. Plus: HOB RD VPN comes with a powerful virus protection option.

## **8. HOB Secure Communications Server (HOB SCS)**

*SSL tunneling for local client queries*

HOB offers an additional add-on, currently in BETA, the HOB SCS as a base platform for HOB RD VPN. The installation CD contains a hardened Linux OS as well as all components required to operate HOB RD VPN. System requirements are only a standard PC with Intel Pentium III and up, with at least 512 MB RAM and over 4 GB memory. A version for the x64 platform is coming soon.

HOB RD VPN is, different to conventional SSL VPNs, a highly scalable software solution. HOB RD VPN is more flexible, as all Windows and legacy applications in the company can be used with it. Application-specific connectors are thus no longer necessary. The SSL security component has been certified by the German Federal Office for Information Security *Bundesamt für Sicherheit in der Informationstechnik (BSI)* according to the Common Criteria EAL2. Certification at the EAL 4+ level is currently under way. The 32 bit Windows version of the HOB WebSecureProxy is certified by Microsoft for Windows Server 2003 Standard Edition. The HOB WebSecureProxy is available for the following platforms:

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

Different to IPSec-based VPN's, with HOB RD VPN there is no lengthy installation on the client-side, nor is additional virus protection between the connected clients and the central offices required.

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