

HOBLink JWT

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HOBLink JWT – Platform-Independent Access to Windows Applications



■ HOBLink JWT - The High-Performance RDP Client in Java

Access applications centrally installed on Windows Terminal Servers (WTS) from anywhere. The RDP client from HOB gives you all the advantages of server-based computing for Windows applications. HOBLink JWT, the innovative solution for WTS access, brings you many additional benefits, improving installation, administration, operability and security.

High Performance

HOBLink JWT provides highly performant access, enabling a smooth work process on a remote desktop.

■ Single-Point-of- Administration: HOB Enterprise Access

By deploying HOBLink JWT together with HOB Enterprise Access, the administrator can centrally administrate all user and configuration data. The users can be displayed in a group and tree structure, which greatly simplifies administrative tasks, especially for installations with a great many users. Via the LDAP interface, HOB Enterprise Access supports the most important directory services, for example, Microsoft Active Directory.

■ True Windows

“True Windows” allows you to completely integrate remote applications in your local desktop. The user notices no difference whatsoever between locally installed and WTS applications. Even application-specific tray icons are displayed on the client. To save resources, session sharing is supported, i.e., several WTS applications on a single server all belong to a single session. With the true Windows application manager, all applications used in the WTS farm can be displayed and, if desired, immediately terminated, just as with the Windows Task Manager.

True Windows Agent

When the True Windows Agent is installed locally on the client and Local Drive Mapping is available, then by double-clicking a file the corresponding application on the WTS will be started (if so configured). The file is then made available without any other user action.

True Windows Application Manager

This enables users to start or terminate any application (for which they are authorized) on the WTS server, just as with a local Task Manager.

■ Flexible Print Functions via Universal Printer Support from Local Print to Easy Print

The flexible print functions of Universal Printer Support in HOBLink JWT offer you a wide range of printing options for printing on local or network printers.

- Local Print (printing to local or network printers via a driver on the WTS)
- Easy Print (printing to locally available printers with a local driver)
- LPR/LPD Print
- IP Print (printing to an IP port of the network printer)
- Under Windows: Automatic printer mapping

The “Easy Print” function enables you to edit print data on the WTS in PCL format and then to print them on a local or network printer. The advantage: On the WTS you no longer have to install all the printer drivers used on the client side, but only, at the most, two.

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■ Load Balancing – Enhanced Load Balancing

With the “Load Balancing” component included in the scope of delivery, you can distribute the load within a server farm to all computers, so that the existing hardware is optimally used. The client sends a request to each participating Windows Terminal Server and, depending on the configuration, the client will be connected with the Windows Terminal Server with the lowest load. Alternatively, you can also have a list of all responding servers displayed for the client, from which the user then selects the server he or she wants. With the optional “Enhanced Load Balancing” component, the administrator can even more finely distribute the load. With this component, the administrator can define numerous criteria for measuring the load, e.g., CPU load, swap activity, memory utilization, number of active sessions, network load, etc.

■ Security

HOBLink JWT has numerous methods to encrypt data traffic and thus provides the security required by today’s enterprises.

Standard WTS Encryption

- “Low” Encryption of the data from the client to the server, 40- or 56-bit, RC4.
- “Medium” Bidirectional, 40- or 56-bit, RC4
- “High” Bidirectional, 128-bit, RC4

SSL/TLS Encryption

Additionally, HOBLink JWT can encrypt the connection to the Terminal Server (when using Windows Server 2003 or newer) with SSL (Secure

Socket Layer) or TLS (Transport Layer Security) .

Proxy Server

HOBLink JWT can detect a SOCKS or HTTP proxy configured in the system and can thus be used for communication over these proxy servers.

Supports Tokens for Authentication

Authentication systems using so-called tokens can provide additional security. HOBLink JWT supports all systems with RADIUS interfaces, e.g., RSA SecurID, SafeWord PremierAccess and Vasco Digipass (when using the optional HOB Web-SecureProxy, a component of HOB RD VPN).

■ Eclipse Plugin

HOBLink JWT can also be embedded in Rich Client environments as an Eclipse Plugin.

■ Re-establishing Disconnected Sessions

Client sessions that have been disconnected, e.g., by the user or due to network problems, can be re-established. This can also be done when accessing a server farm. The user can continue working at the place where the session was disconnected.

■ TWAIN Support

Under Windows, scanners locally connected to the client can be operated over a TWAIN interface. To obtain this functionality, the optional server component HOB Enhanced Terminal Services is required.

■ Enhanced Local Drive Mapping

HOBLink JWT guarantees access to local drives, e.g., CD-ROM, USB sticks, or hard disks, through the “Enhanced Local Drive Mapping” feature. This is possible for the Windows 2000 Server and Windows Server 2003/2008 R2.

Virus Protection

Data being copied from a local drive to the Terminal Server with HOB Enhanced Local Drive Mapping can be inspected automatically with a virus scanner, safeguarding against virus infections.

Configurable Access Rights

HOB Local Drive Mapping enables you to configure access to local drives. You can, for example, limit the access to only specific local drives, only specific file types or directories, or configure read-only access.

Byte-Pattern Inspection

Transferred files can be inspected for specified Byte patterns they may contain. If a suspect Byte pattern is discovered, the transfer will be denied.

■ 64-Bit Windows Support

Windows Server 2003/2008 versions for 64-bit Windows are supported. Parallel operation of 32- and 64-bit applications on the WTS, also when using True Windows, is possible.

■ Virtual Channel Support

Virtual channel support enables third party applications to communicate with the WTS over the RDP connection. Additionally, specified channels can be prioritized.

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■ Java Web Start

HOBLink JWT supports Sun's Java Web Start technology. This means that the HOBLink JWT applet is only loaded from the Web server once, the first time it is started; in all subsequent starts it is loaded from the local cache, if no newer version is available from the Web server.

■ Application Serving

This function automatically starts a specific application when logging on to a Terminal Server, so that the user is not granted access to the entire Windows desktop.

■ Application Publishing

This optional function is used to "publish" individual applications, i.e., make them available to all users. Hereby, the individual Windows Terminal Servers within a server farm can have different configurations.

■ The Most Important Features at a Glance

- Central installation on a Web server with browser as client, or local installation
- Supports Windows and non-Windows platforms
- Central administration via HOB Enterprise Access
- No installation on the WTS is required for communication (in the basic configuration)
- Dual monitor support
- Supports protocols RDP 4 to RDP 6
- Flexible print functions for local and network printers
- Wheel mouse support (for non-Windows clients, a JVM 1.4 is the minimum requirement)
- Supports client connections over LAN, WAN, dial-up lines, ISDN, xDSL, UMTS, VPN
- "Copy & Paste" of text between client and server
- Automatic reconnection to a disconnected session
- Keypad for the definition of Windows hotkeys
- Application Serving: direct connection to an application
- Automatic version control (Smart Update)
- Full screen mode
- Session Shadowing: Administrator can monitor all current client sessions
- SmartCard redirection supports the login process on the WTS
- Clients can be pre-configured with IP addresses, server names and other connection settings
- Configurable RAM- and hard-disk-cache
- XML-based storage of configuration data

The following features are only available when HOBLink JWT is deployed as a client in HOB RD VPN:

- SSL-encryption, up to 256-bit key lengths, via HOBLink Secure
- Simultaneous use of SSL-encryption and Load Balancing via HOB Web-SecureProxy

Features available in connection with the optional "Enhanced Terminal Services" on the terminal server:

- Access to local drives via "Enhanced Local Drive Mapping"
- Application Publishing
- True Windows
- Enhanced Load Balancing
- TWAIN Support

Features available for use with Microsoft Windows Server 2003/2008 R2:

- Configurable color depth: 8-, 15-, 16-, 24- or 32-bit or automatic
- Audio transmission (server to client)
- Local Port Mapping: local COM and LPT ports
- Local Drive Mapping on Windows 2003/2008 R2 Servers



HOBLink JWT – the Java client for Windows Terminal Servers – here on a Mac OS X desktop.

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For Sure: The Better WTS Client

■ HOBLink JWT - Advantages

- Connection of all clients, e.g., Windows, Linux, Unix, Apple Macintosh, OS/2, NC's, etc.
- Windows applications can be used on any platform
- No software has to be installed on the clients
- Scalable solution for central installation and administration
- Can use any type of hardware, operating system and network
- No add. server components necessary (in the basic configuration)
- Optimum use of networks with low bandwidths via compression of all communication data (MPPC protocol)
- Access to local drives via Enhanced Local Drive Mapping
- Browser-based access to Windows applications
- Flexible print functions for printing on all network printers and locally connected printers
- True Windows for seamless integration of published applications

■ Available With or Without HOB Enterprise Access

There are two variants of HOBLink JWT:

HOBLink JWT Enterprise Access

This variant provides you with all the advantages of HOB Enterprise Access, such as central administration, and easy access to all enterprise servers.

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This "thin" variant is designed for customers who do not need central user administration.

■ Access to Mac and Linux/Unix Desktops

The HOB MacGate provides secure remote access to Mac machines running Mac OS X. The HOB X11 Gate, used together with HOBLink JWT can also access graphical Unix/Linux interfaces. Both components are available as options for HOBLink JWT.

■ Keyboard Layouts

In addition to the US English keyboard support, many other keyboard formats are supported (for example, German, French, Dutch, Spanish, Portuguese, etc.).

■ System Requirements

Windows Terminal Server

HOBLink JWT is compatible with:

- Microsoft Windows NT Server 4.0 Terminal Server Edition
- Microsoft Windows 2000 Server, Advanced Server and Datacenter Server with integrated Windows Terminal Services
- MS Windows Server 2003
- MS Windows Server 2008 R2
- MS Windows XP Professional
- MS Windows Vista / 7

Web Server

HOBLink JWT can be installed on any Web server, regardless of the operating system.

Client Platforms

HOBLink JWT supports all Java-capable platforms as of JRE 1.3. A requirement for the client is that it have a JVM (Java virtual machine). These can be easily installed as plugins on all browsers (Microsoft Internet Explorer, Netscape, Mozilla Firefox,

Safari, etc.). The following hardware equipment is recommended for the client:

- Minimum RAM: 256 MB
- Minimum processor: Pentium with at least 1GHz.

■ Further Information

You can find more information on the properties of the optional HOB Software products for supplementing HOBLink JWT in the following product data sheets:

- HOB RD VPN
- HOB Enterprise Access

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