

HOBLink JWT

Overview

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Product Manager, 9/25/03



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HOB – Short Introduction

Part of the Brandstätter Group



HOB Numbers

Revenue 2002: €15 Million

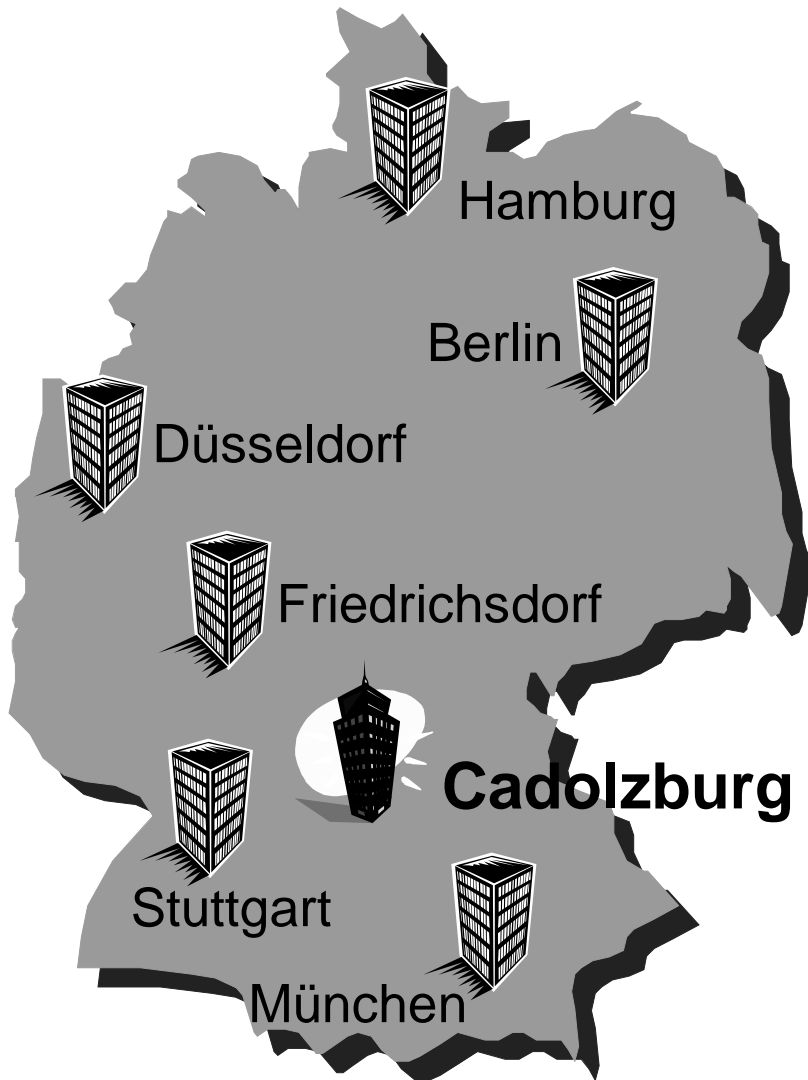
Employees 2002: 155

Customers 2002: ca. 2,700



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Branch offices in Germany



Headquarters

Development
Marketing
Management
Accounting
Call Dispatch
Hotline

Branch office




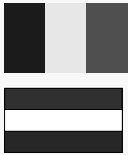


Accountant
System Engineer



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HOB international



 France	 Switzerland	
 Austria	 Benelux	 Malta
 USA		

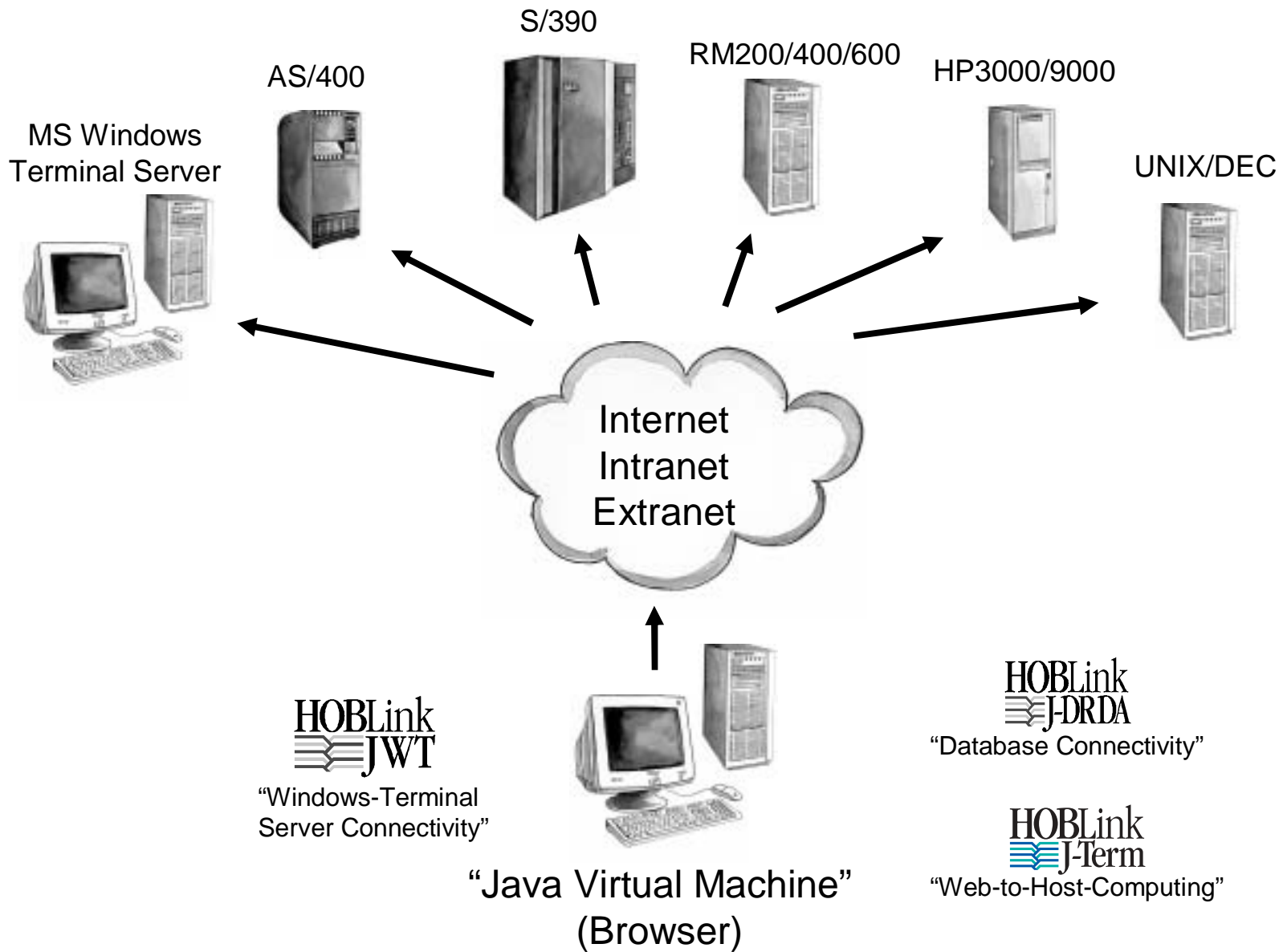
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HOB Software in Java

- HOB has been programming in Java since 1996.
- The Web-to-Host solution HOBLink J-Term was HOB's 99th software product to be certified 100% pure Java by SUN.
- HOB has over 20 years of experience developing software for Mainframes and brings this experience into its development work in the Windows Terminal Server area.



HOB - Server-based Computing



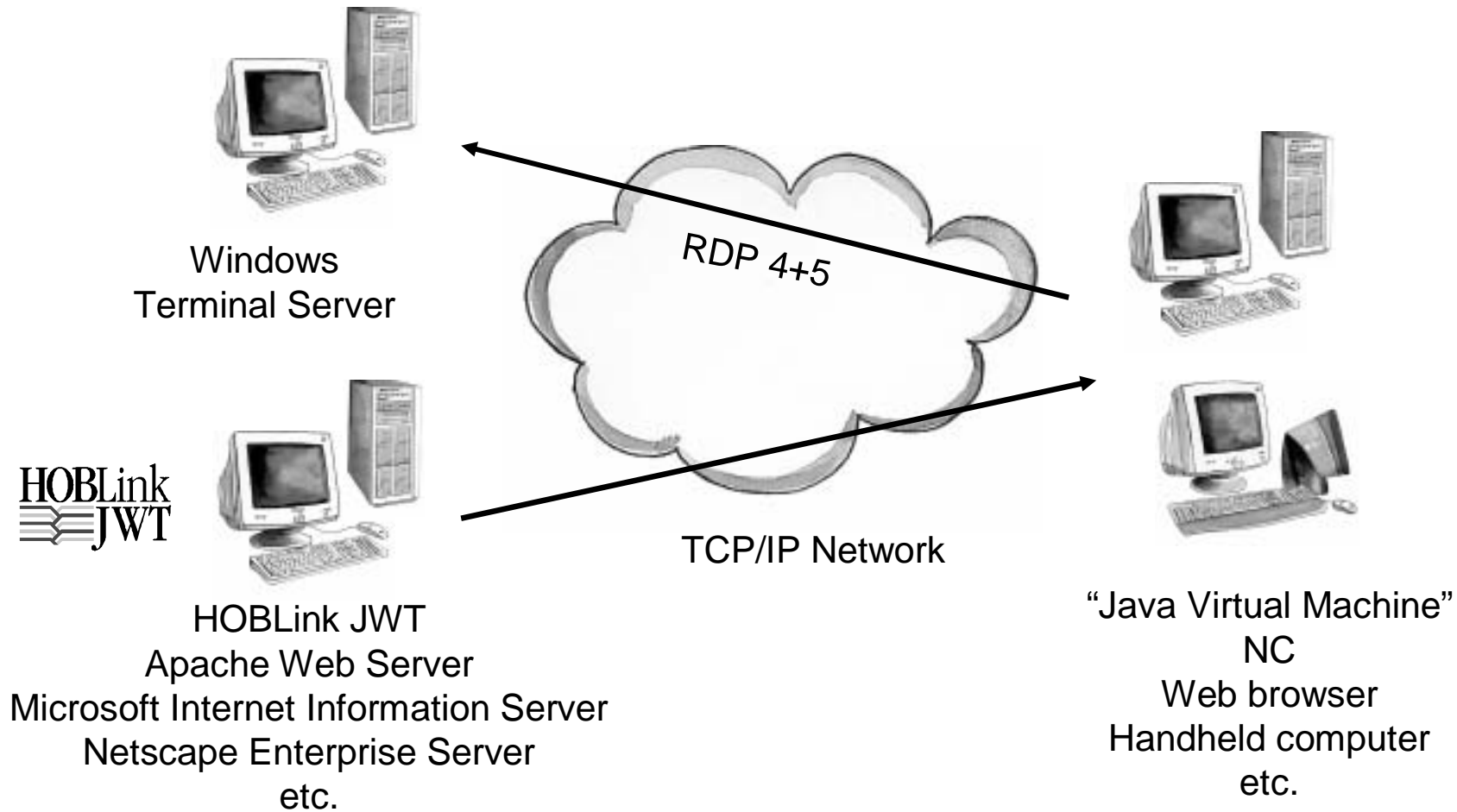
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HOBLink JWT: A Short Introduction

- HOBLink JWT = Java Windows Terminal
- Java client for
 - MS Windows NT 4.0 - Terminal Server Edition
 - MS Windows 2000 Server
 - MS Windows Server 2003
- Connects all clients (Windows, Macintosh, OS/2, UNIX, NCs, etc.)
- Basis: RDP Protocol



HOBLink JWT: How it Works



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HOBLink JWT – The Concept

- Fast and easy access to centrally stored Windows applications from any client, regardless of the operating system (Windows Anywhere).
 - Existing hardware can be used longer = investment protection
 - Most simple user management via central administration
 - Support-friendly due to central installation
 - Reduction of TCO via Web-based architecture



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Features

- Platform-independent client support
 - 32-bit Windows
 - Non-Windows Clients
 - Browser Clients
- Protocols
 - TCP/IP, RDP 4 + 5.x
- Network connection
 - LAN and WAN support
 - Dial-up, ISDN, xDSL, VPN



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Features

- Display Mode
 - Window
 - Full-Screen
 - Applet
- Color Depth
 - 8-bit
 - 15-, 16-, 24-bit *
- Audio *
- Port Mapping (Local ports) *

* Only with Windows Server 2003



Features

- Local Drive Mapping *
- Wheelmouse Support (Java 1.4)
- Remote Control
 - Client Support (Session Shadowing)
- SOCKS Proxy and HTTP Proxy Support
- Cut & Paste
 - Text between client and server
- Quick-start icons on the Windows Desktop or in the Windows start menu

* Only with Windows Server 2003 or for Windows 2000 Server with optional HOB Enhanced Local Drive Mapping



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Features

- **Hotkeys**
 - Hotkeys enable certain functionalities to be performed via key combinations, e.g. switching from one application to another within a Windows Terminal Server session.
 - Hotkey key combinations as with Microsoft WTS - No time lost through “adapting” to a new setup.

Key combination	MS Standard	Function
HOBLink JWT ALT+PAGE UP	local ALT+TAB	Program switching from left to right
ALT+HOME CTRL+ALT+NUM-	CTRL+ESC PRINT	Start menu display Makes a screenshot of the whole session



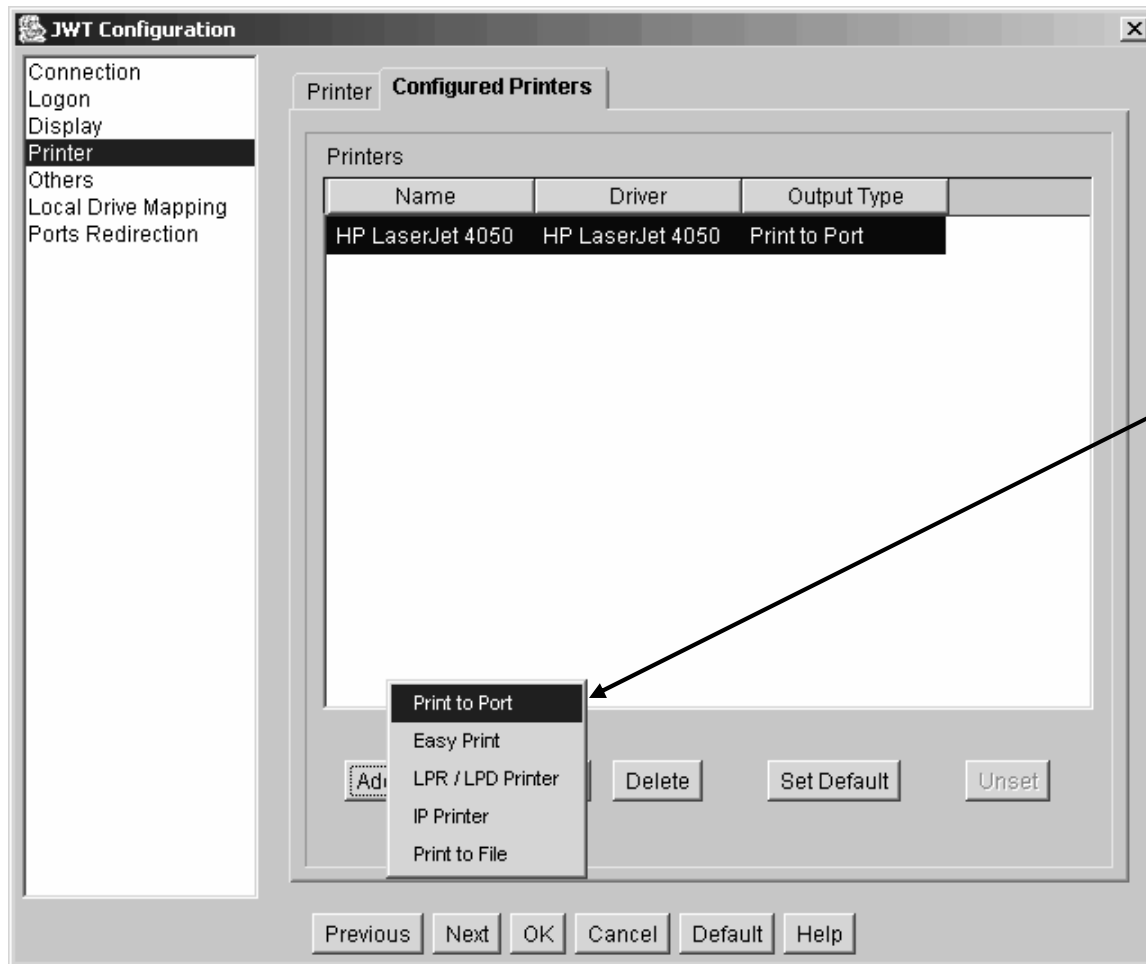
Features

- Smart-Update / Open Software Distribution
 - Automatic client-update of the connection software
- Bitmap-Caching
 - Separately configurable for memory and disk caches
 - Network space-saving caching of images
- Compression
 - Performance-raising Microsoft Point-to-Point Compression (MPPC)



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Universal Printer Support



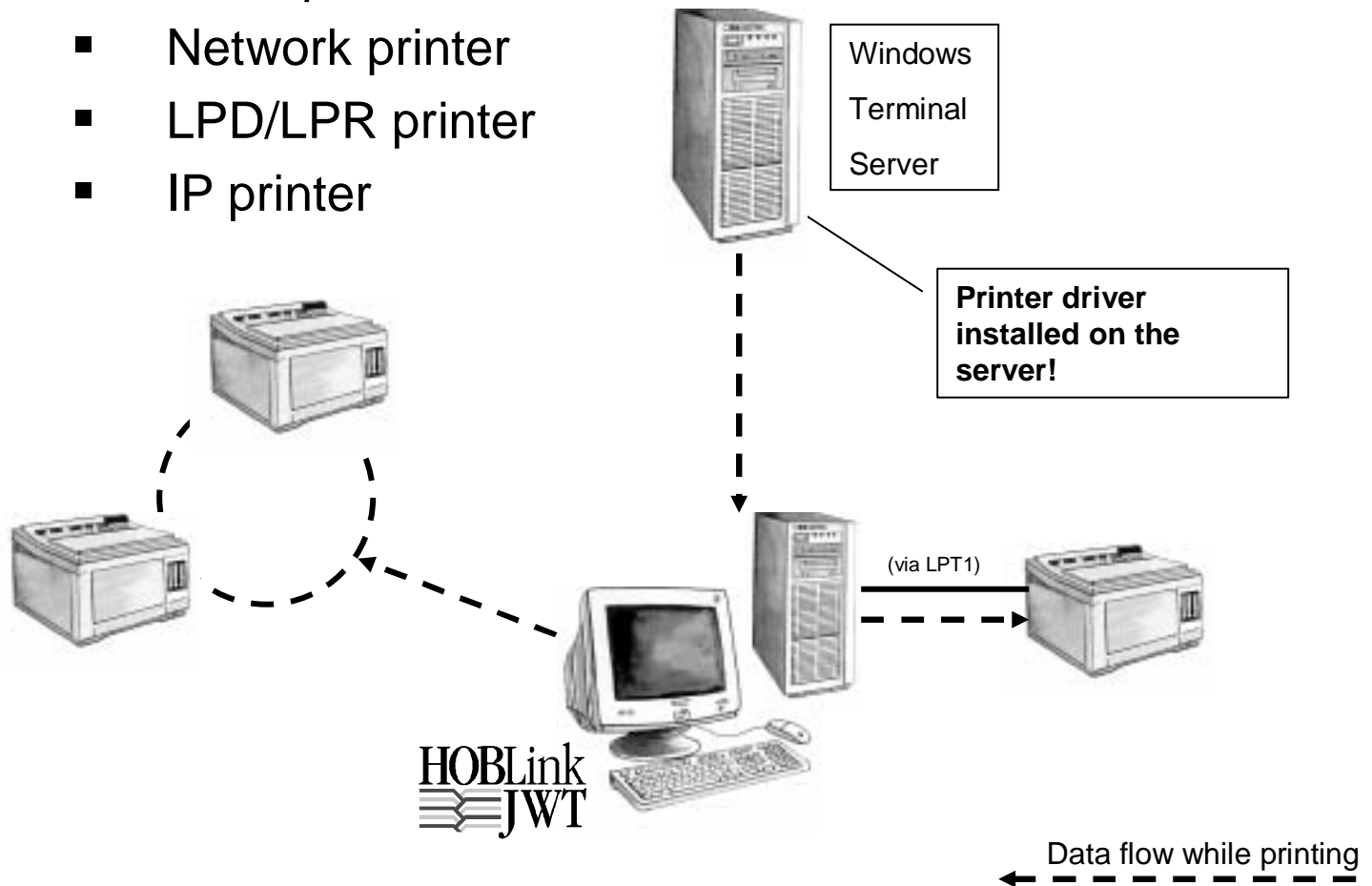
Selection of the available print types during printer configuration.



Universal Printer Support

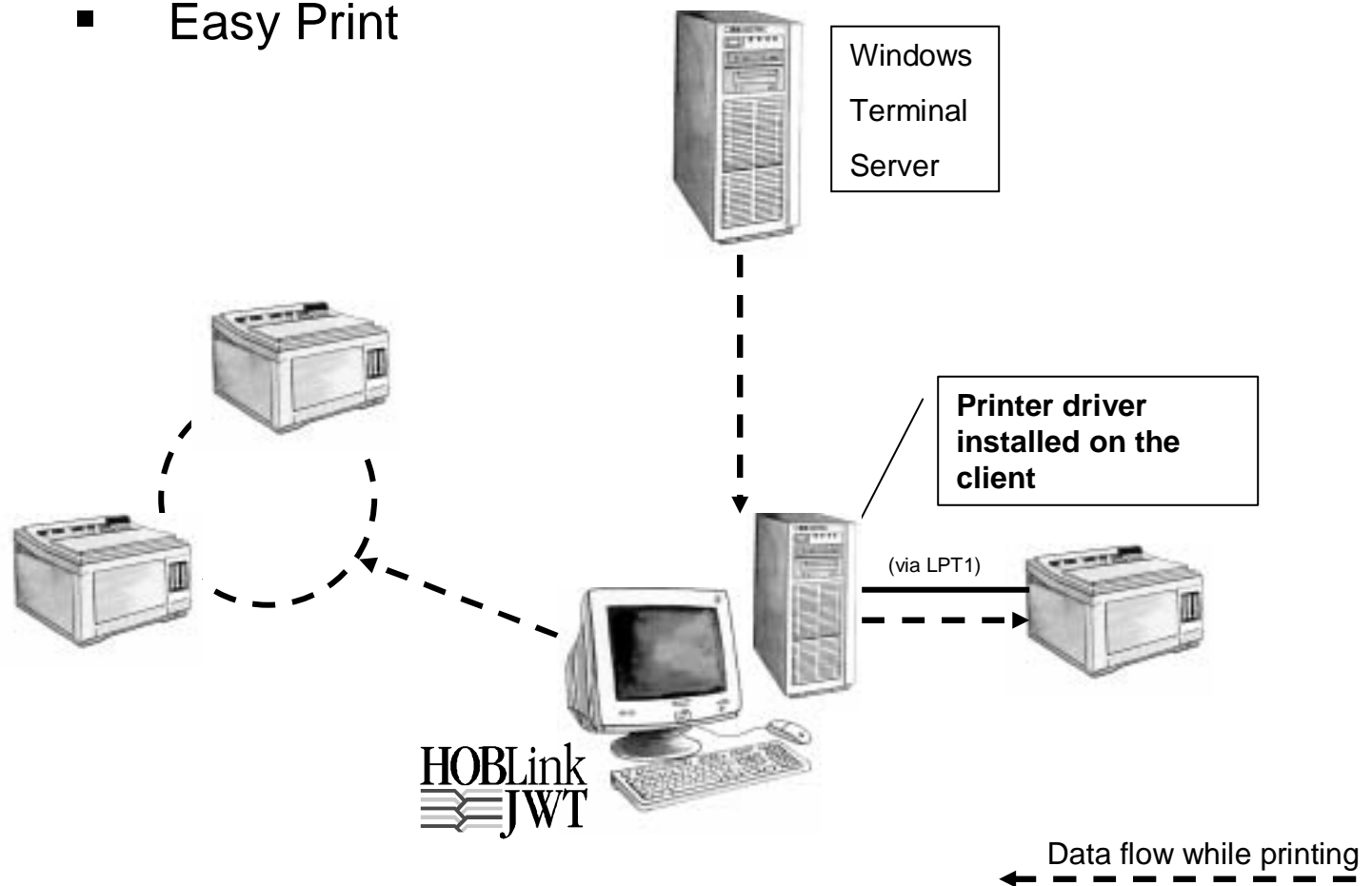


- Local printer
- Network printer
- LPD/LPR printer
- IP printer



Universal Printer Support

- Easy Print

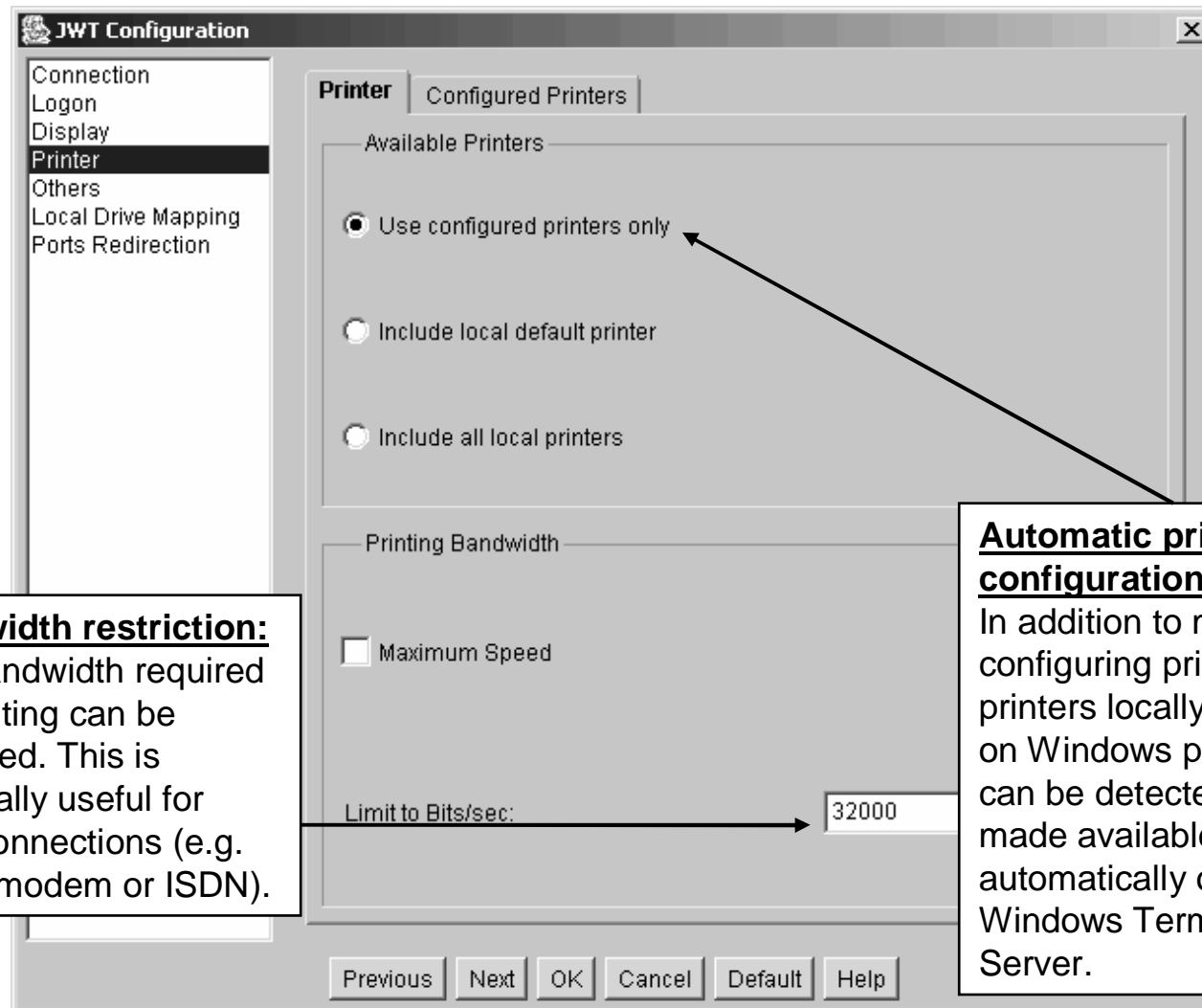


Easy Print: Advantages

- No more than two printer drivers have to be installed on the WTS.
(Usually pre-installed on the Windows 2000 Server)
 - HP LaserJet Series II (for black/white printing)
 - HP DeskJet 500 C (for color printing)
- The printer drivers installed on the clients no longer have to be installed on the Windows Terminal Server as well.
 - Very little time and expense for administration
 - No more danger of a server crashing because of a faulty driver



Printer Support



Bandwidth restriction:

The bandwidth required for printing can be restricted. This is especially useful for slow connections (e.g. with a modem or ISDN).

Automatic printer configuration:

In addition to manually configuring printers, printers locally installed on Windows platforms can be detected and made available automatically on the Windows Terminal Server.



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Load Balancing

- Why Load Balancing?
 - Enables the use of server farms
 - Distributes server load
 - Performance enhancement
 - Failsafe functionality
 - Advantageous for maintenance/administrative work



Load Balancing

Choice of either
"Broadcast" or
"Server List"

JWT Configuration

Connection | List of Servers | Startup | Options

HOB Enhanced Terminal Services

☒ Enable

Port: 4095 Default

Connection Type

☐ Direct

☐ Broadcast

☒ List of Servers

☐ HOB Web Secure Proxy (WSP)

☐ Use SOCKS Proxy

Server

☐ Choose Terminal Server at runtime

Terminal Server

Port: 3389

Security

☐ Use SSL/TLS Security

Previous Next OK Cancel Default Help



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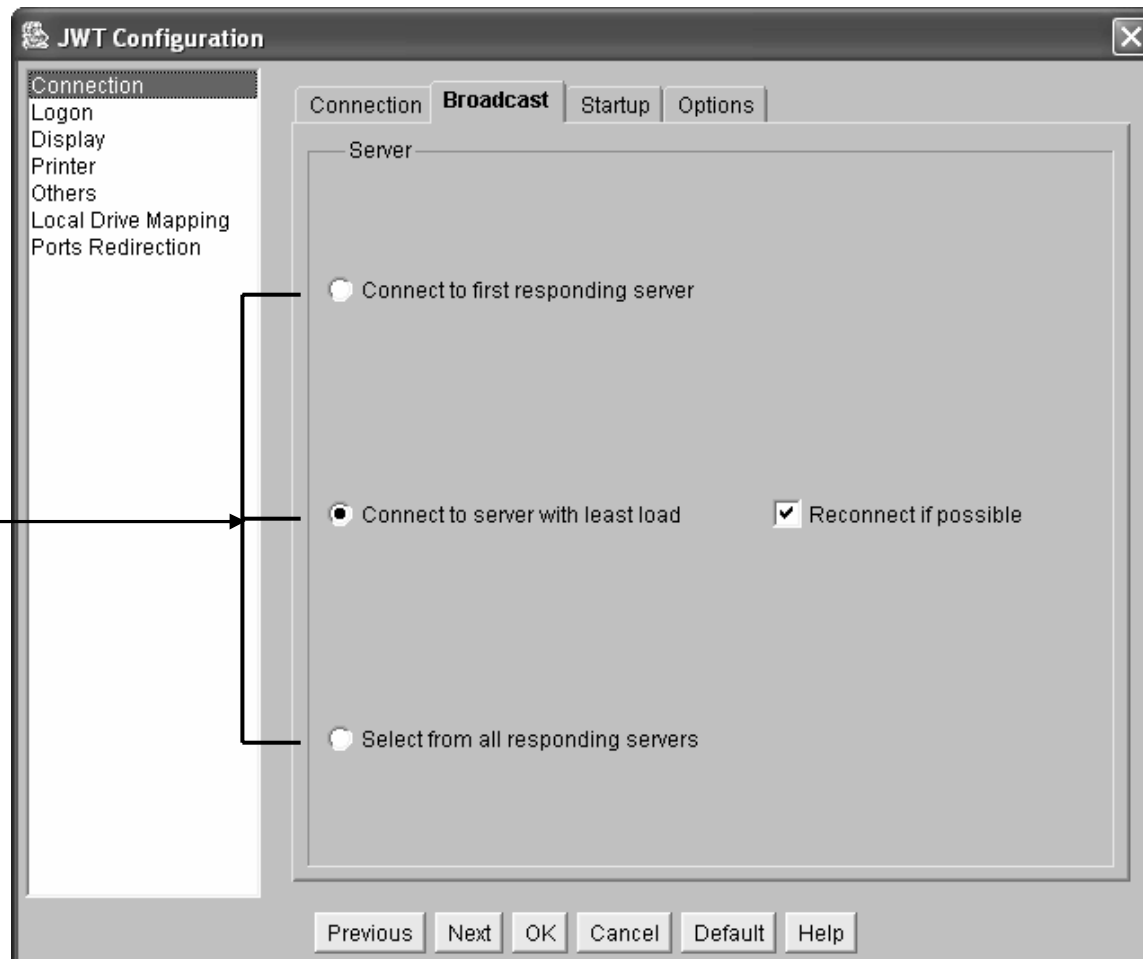
Load Balancing

Broadcast:

The client sends queries to all Windows Terminal Servers in the network

Action

Configurable action after broadcast



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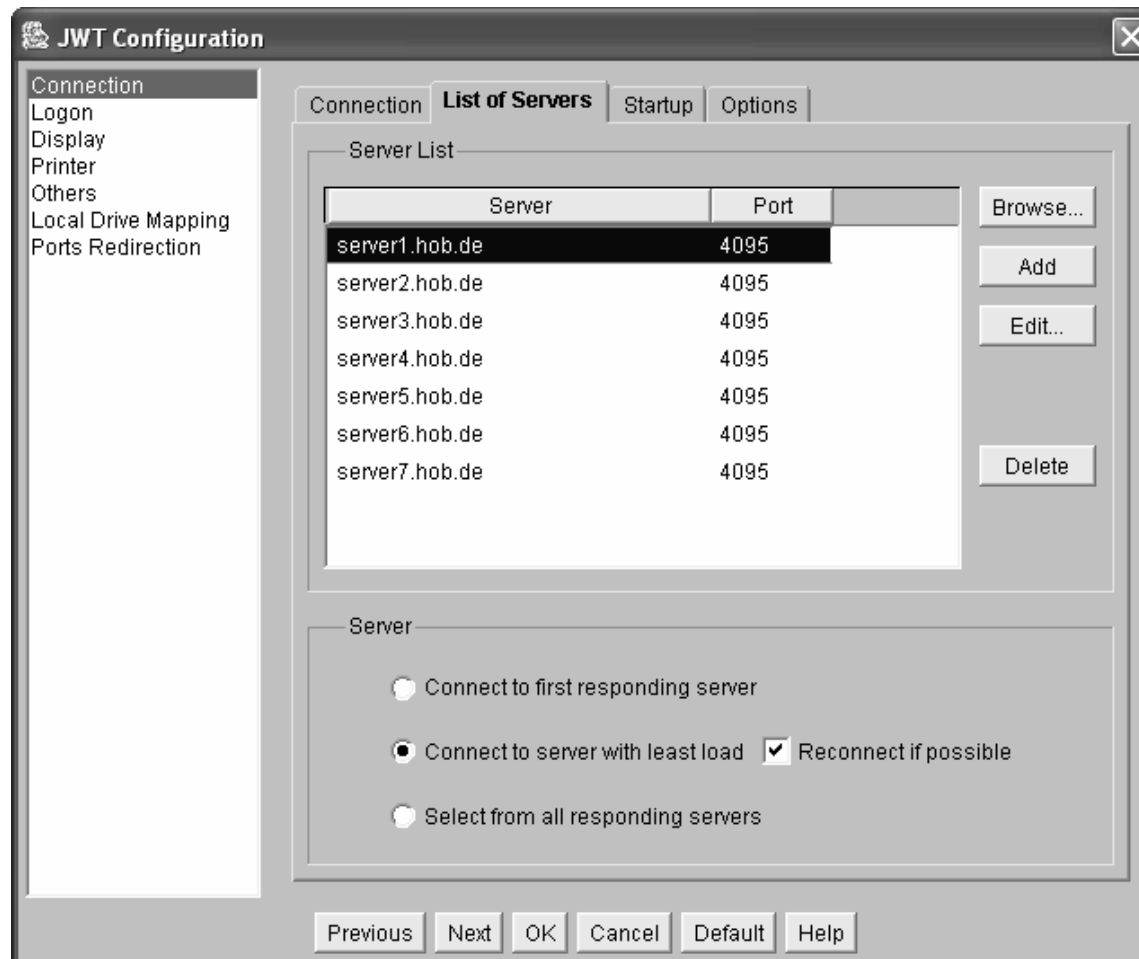
Load Balancing

Server List:

Configuration of specified Windows Terminal Servers, e.g., for various user groups is saved in a list.

Action

Configurable action after server listing



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Load Balancing: Advantages

- Standard Load Balancing included in scope of delivery
- True load balancing for both client and server
 - Measures processor load
- Enhanced Load Balancing measures up to 13 parameters (optional)
 - Optimum adaptation
- Windows Terminal Servers don't have to be configured identically



Load Balancing: Advantages

- Sign-on security within a server farm if one WTS goes down
- No “master browser” required
- Unproblematic reconnect of disconnected sessions
- Load Balancing when applications are accessed (see Web Secure Proxy)



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Reconnected Session

The screenshot displays the HOBLink JWT - Terminal Services Manager interface. The 'Sessions' tab is active, showing a table of sessions. The 'administrator' session is in a 'Disconnected' state. A 'LoadBalancing' dialog box is open, showing user information and a proxy port of 4095.

User	Session	ID	State	Idle Time	Logon Time
administrator	Disconnected	2	Disco...	5	
testuser	RDP-Tcp#16	4	Active		10/26/2001 4

HOBLink JWT - LoadBalancing

User Information

Enter your User name (and optionally your Domain name)

User name:

Password:

Domain:

Proxy port:

OK Cancel

With disconnected sessions (not logoff), the same session can be restarted at the same point from any client.

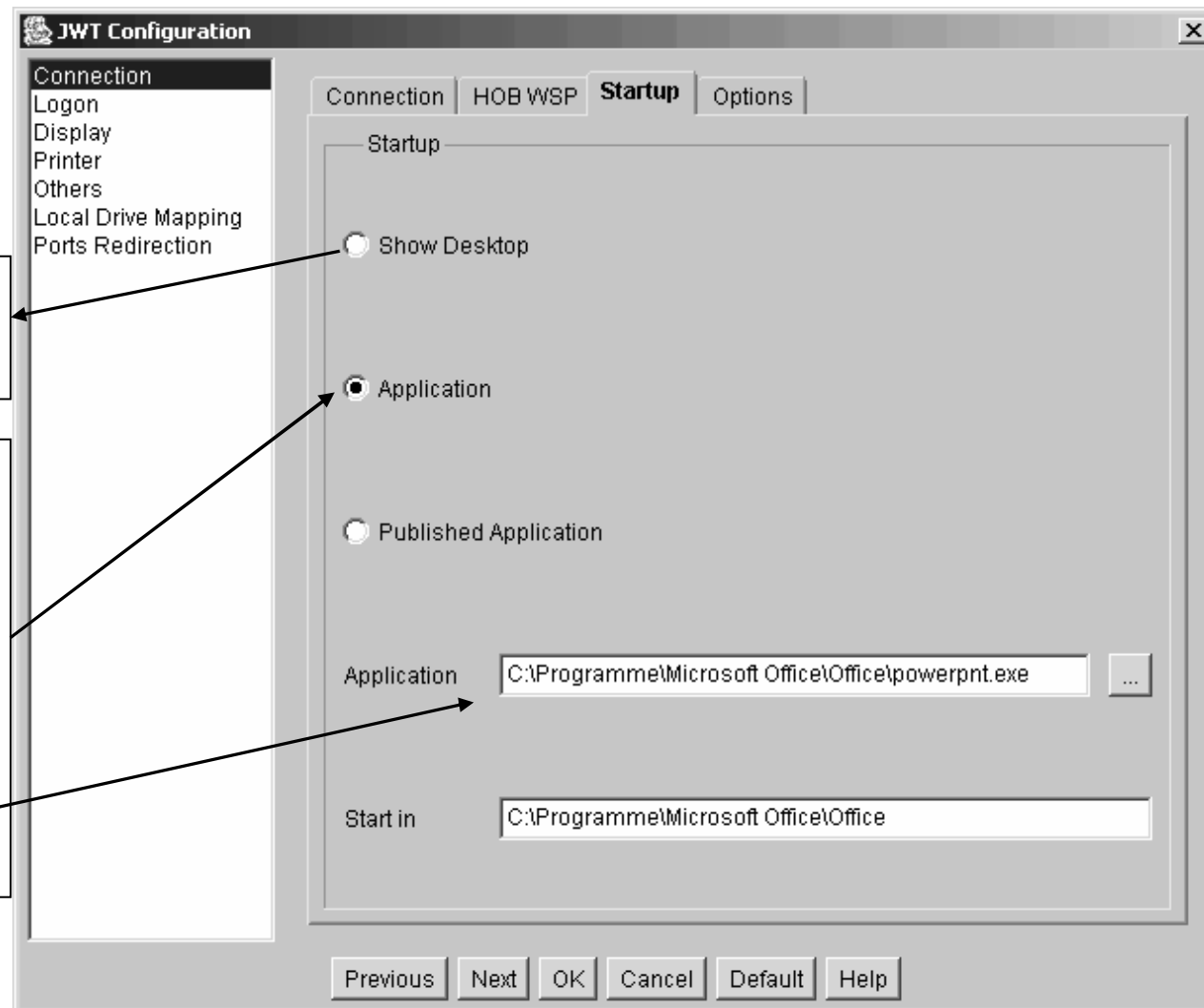


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Application Serving

Starts the client session with the Desktop

Alternative: "Application Serving," i.e., at logon, a specific application is started for the corresponding client. (In the figure to the right: Microsoft PowerPoint with the accompanying macros).



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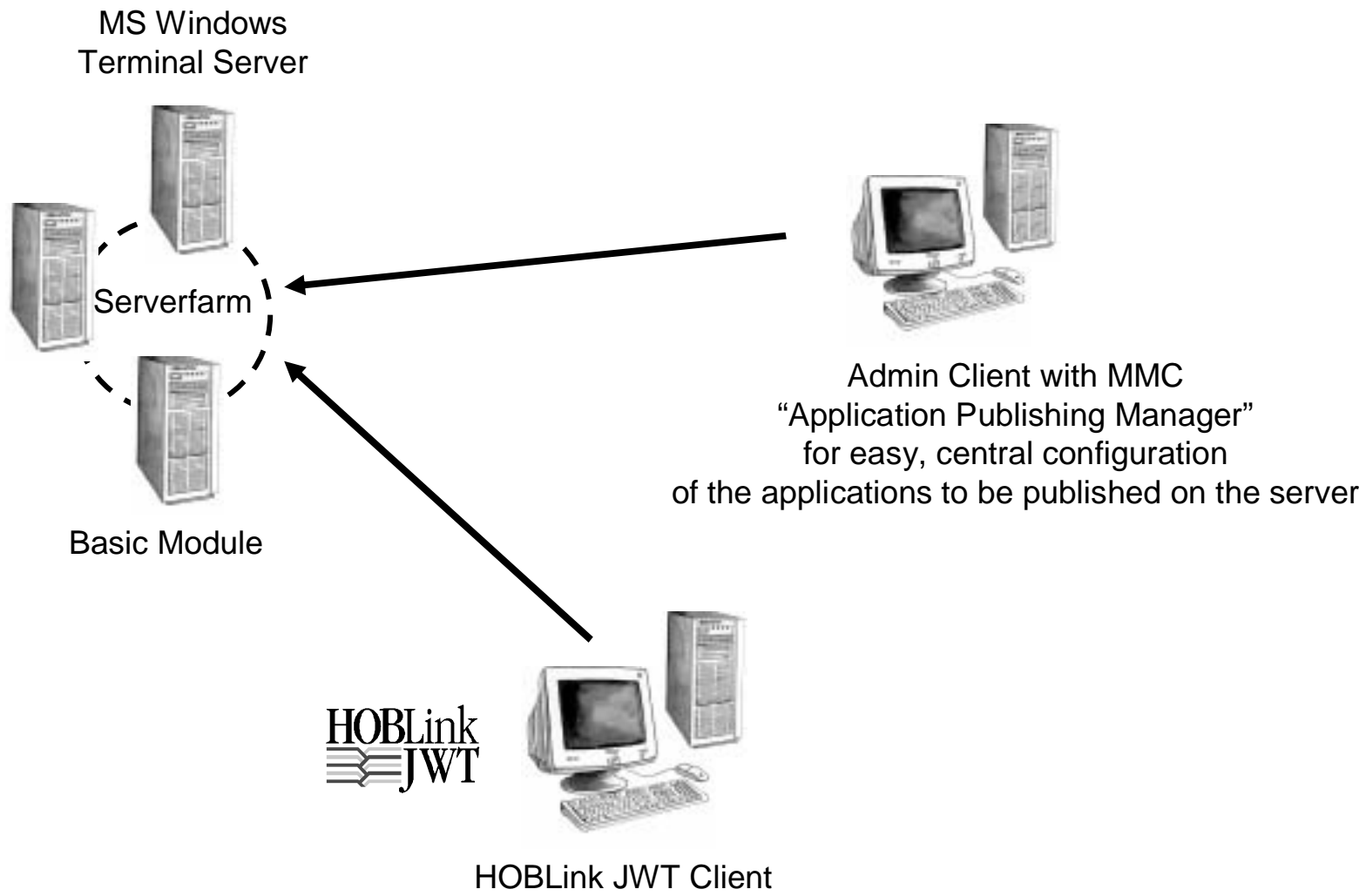
Application Publishing: Advantages

- Central configuration of the published applications over one or more server farms
- Windows Terminal Servers don't have to be configured identically
- Load Balancing also possible with Windows Terminal Servers having different configurations
- When used with HOB Enterprise Access, various applications can be made available to individual users or to entire groups - simply and easily



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Application Publishing Manager



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Application Publishing: Advantages

- Easiest access to various applications per “mouse-click” - for example, entry over a central Website



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Enhanced Local Drive Mapping

- What is Enhanced Local Drive Mapping?
 - Client drives are made available on Windows Terminal Servers (from Windows 2000 Server up)
- Which drives are these?
 - Local drives or partitions
 - Local CD-ROM, DVD-ROM, etc.
 - Mobile data carriers, as long as they are recognized as drives by the client OS
 - Directories within a drive
 - Basically, anything that has a drive letter (e.g. network drives)



Enhanced Local Drive Mapping

- Features of HOB Local Drive Mapping
 - Drive mapping with Windows 2000 Server
 - Supports assignment of read and write authorization to specific drives.
 - Folders (directories) within a drive can be mapped to the Terminal Server.
 - Supports Windows, Linux, Mac OS, etc.



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Authentication

- Interface to:



* In combination with Web Secure Proxy



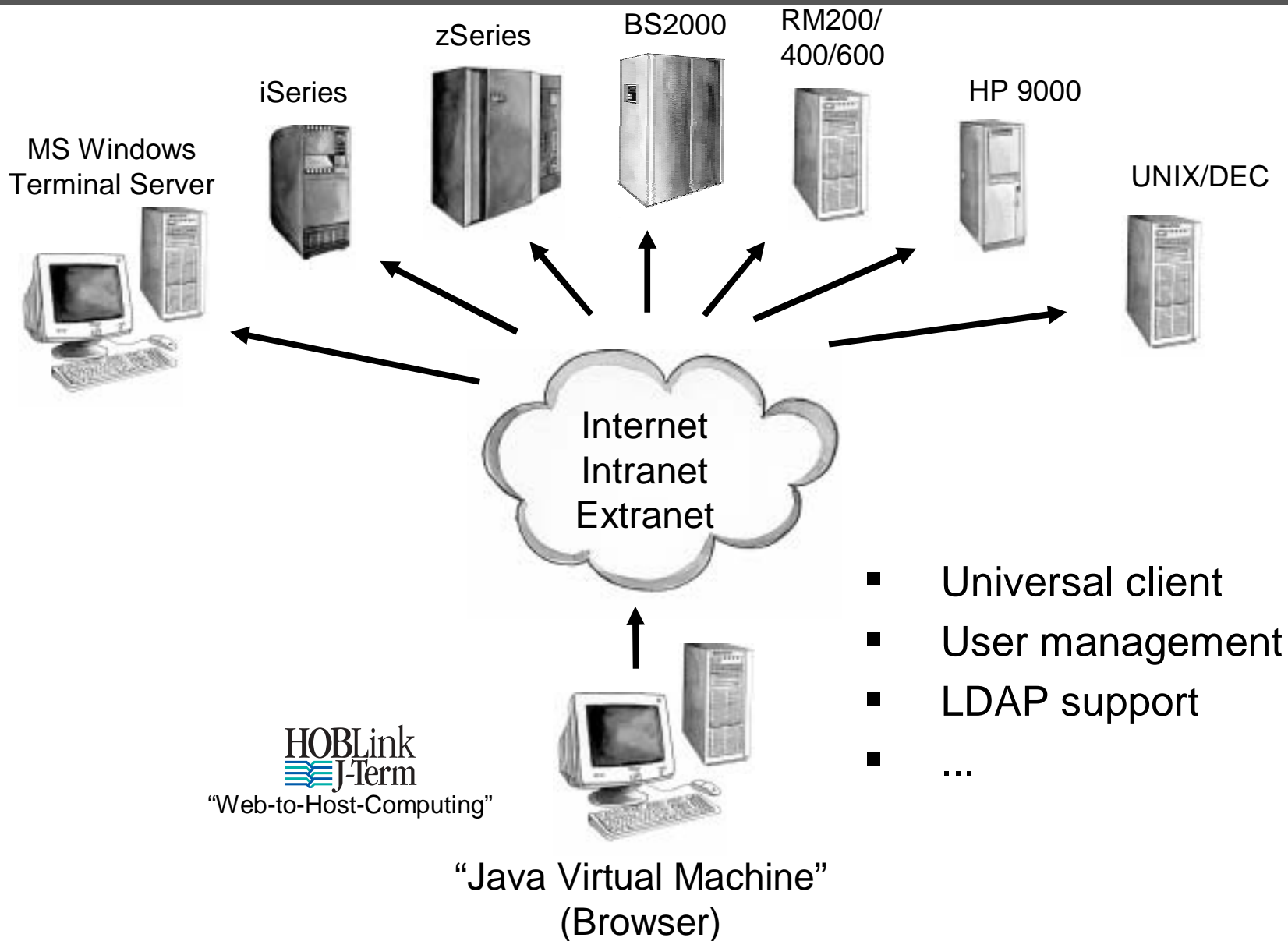
Encryption with HOBLink Secure

- HOBLink Secure
 - Optional HOB product for strongest encryption
 - Strong Encryption for PC-to-any-Host-Connectivity
 - Basis: SSL V. 3.0 (Secure Socket Layer)
 - Software Components
 - SSL Client (or Server) for 32-bit Win and Java
 - Web Secure Proxy for SUN Solaris, HP-UX, Open UNIX, AIX, Windows
 - Security Manager to create your own PKI
 - Optional HOBLink Certificate Generator



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And the big solution ...



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- For more information, please visit us at:
 - www.hobsoft.com/www_us/home.htm or
 - www.hob.de

Thank you for your attention!



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