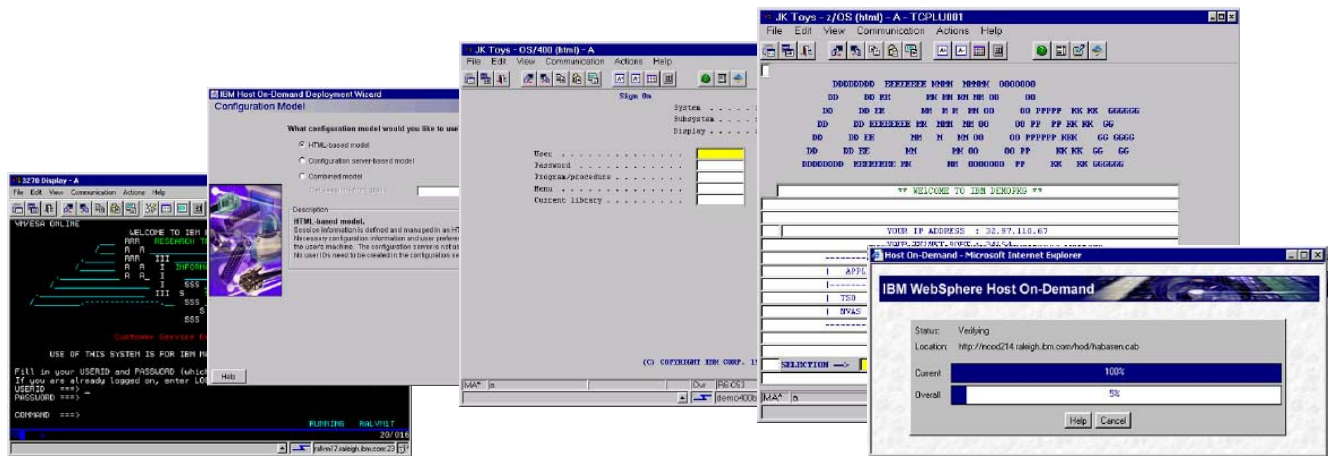**IBM**

IBM WebSphere Host On-Demand

With IBM WebSphere Host On-Demand, you can easily access and manage your 3270, 5250 or VT host applications.

Highlights

- *Extends the reach of your enterprise's host applications with Java technology-based host access*

- *Supports TN3270E, TN5250, VT52, VT100, VT220, VT320, VT420 and IBM CICS Gateway for Java access*

- *Lets you quickly create new e-business applications using Host Access Beans for Java, Host On-Demand Connector and reusable components*

- *Provides multiple security options for access across the Internet*

- *Installs on a Web server for centralized management and deployment*

- *Provides a default GUI for users unfamiliar with traditional host screens*

- *Supports IBM @server iSeries and IBM @server zSeries features, including 5250 and 3270E host print and file transfer*
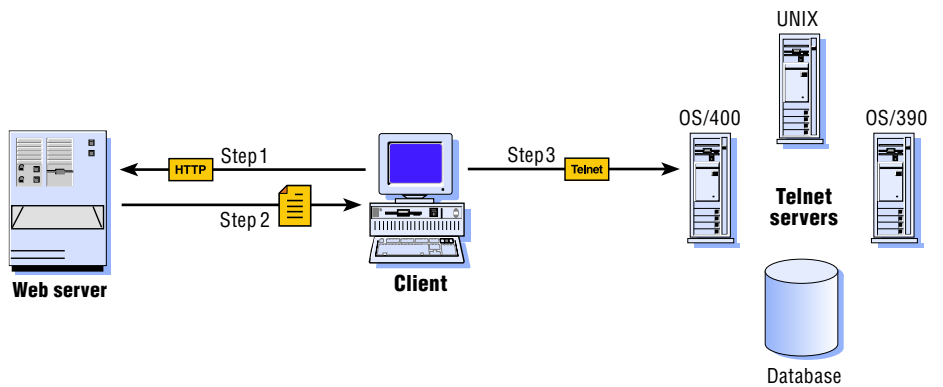
Quick, easy access to critical host data

The browser-based access of IBM WebSphere® Host On-Demand gives users a simple way to reach critical host data — without requiring any software to be installed on the client. WebSphere Host On-Demand uses the power of Java™ technology to help open the doors to your host data directly from your browser. Just click a hyperlink to launch IBM WebSphere Host On-Demand Java applet. This Web-to-host connectivity solution helps provide secure Web-browser access to host applications, so you can take existing host applications to the Web without programming.

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business

With support for TN3270E, TN5250, VT52, VT100, VT220, VT320, VT420 and IBM CICS® Java Gateway access, users can have a single interface to their key host data. Because WebSphere Host On-Demand is Java technology-based, its interface has the same look and feel across various types of operating environments. It also provides a default graphical user interface (GUI) to help simplify the experience for users unfamiliar with traditional *green screens*.

*IBM WebSphere Host On-Demand is a two-tier solution which eliminates the need for a middle-tier server. **Step 1**. The user opens a browser and clicks a hyperlink. **Step 2**. IBM WebSphere Host On-Demand applet downloads to the client workstation. **Step 3**. When the applet is downloaded, IBM WebSphere Host On-Demand connects directly to any Telnet server to access host applications.*

A cost-effective approach

You can save money in product deployment and maintenance by installing WebSphere Host On-Demand on a Web server, eliminating the need to manage individual user desktops. Users can connect directly to a host system, such as an IBM @server iSeries™ system or an IBM @server zSeries™ system, helping to minimize the extra hardware and software required by three-tier solutions. You can install WebSphere Host On-Demand on nearly any server platform, accommodating various size organizations and branch offices.

As software updates occur, the latest version of WebSphere Host On-Demand is downloaded each time a user accesses the software, helping eliminate the need to install code on client workstations. With the cached client feature, users download only once. Subsequent uses then originate from user hard drives, while code updates are handled in the background through the cached client. Users can be productive and have the latest version of code, with low distribution costs for your business.

You can install WebSphere Host On-Demand on many platforms, including Microsoft® Windows® 2000, Windows NT®, IBM AIX® and Linux®, as well as iSeries and zSeries enterprise servers.

Connect directly to any Telnet server

With WebSphere Host On-Demand, the client applet contains the emulation functionality. This eliminates the need for a middle-tier server — a performance and security issue. Once the applet is served to the client, it's easy to connect directly to any standard Telnet server that provides the best access to the required data. You can change the Telnet connection as often as user requirements for new data change. You can access many host sessions concurrently. WebSphere Host On-Demand minimizes capacity restrictions by eliminatating the need for a middle-tier server.

Create new e-business applications

A rich Java tool set, including Host Access Beans for Java and IBM Host Access Class Library application programming interface (API), help enable customers to rapidly create custom e-business applications to achieve competitive advantage. Because WebSphere Host On-Demand is part of the WebSphere product family, applications developed using the tool set can be incorporated as part of other WebSphere software projects, helping preserve your WebSphere Host On-Demand investment and providing a quick start to the Web and e-business.

The Host Access Class Library API provides access to 3270, 5250 and VT data streams. This class library allows you to use mission-critical information in new ways, such as integrating data from one application with another.

Host Access Beans for Java provide host connectivity and emulator functions through simple, component-based development tools, like IBM VisualAge® for Java. Use Host Access Beans to rapidly create custom applications to deliver the specific functions you want to include in your host access applications. These object-oriented beans help minimize your development efforts through software reuse.

Security enhanced access across the global Internet

Using Secure Sockets Layer (SSL), Version 3.0, WebSphere Host On-Demand extends host data access across intranets, extranets and the Internet with added security. Mobile workers can establish security-enhanced communication with an enterprise host. With client and server certificate support, WebSphere Host On-Demand can present a digital certificate (X.509, Version 3) to the Telnet server — such as IBM Communications Server for OS/390 — for authentication. Certificates can be kept in the client's browser, a dedicated security device, such as a Smart Card, or in a local or network-accessed file in PKCS12 or PFX format, which is protected by a password.

Deployment options

WebSphere Host On-Demand provides access to host applications from a Web browser. The browser downloads the WebSphere Host On-Demand Java applet from the Web server and then connects to most standard Telnet servers to access host applications. The configuration server is part of the Web server. The WebSphere Host On-Demand applet needs configuration information to determine which host to connect to and to identify other host session properties. This configuration information can be provided to the WebSphere Host On-Demand applet from an HTML file or by using the WebSphere Host On-Demand configuration server.

The HTML-based model

Companies that don't want to manage WebSphere Host On-Demand users can use the deployment wizard to create HTML files which contain configuration information for host sessions. That means you are not required to use the WebSphere Host On-Demand configuration server to specify sessions. If you allow users to save changes to host session configuration information, the changes are stored on the local file system where the browser is running.

The configuration server-based model

For companies that need to manage WebSphere Host On-Demand users, host session information is maintained on the configuration server using the administration utility, and the information is defined using a user and group structure. The configuration server normally stores its data locally on the WebSphere Host On-Demand server, though it can be configured to use Lightweight Directory Access Protocol (LDAP) instead. Users access their configurations using either custom HTML files created in the deployment wizard or by using one of several HTML files that are provided as part of WebSphere Host On-Demand.

Each user has a unique user ID defined in the configuration server, and, in most cases, the user needs to log on to the WebSphere Host On-Demand server before viewing sessions. If administrators allow users to save changes, WebSphere Host On-Demand stores user preferences based on user ID in the configuration server.

IBM Screen Customizer

IBM Screen Customizer automatically converts each host screen to a graphical presentation that is easily customizable without any programming. Designed with patented screen recognition, you can use IBM Screen Customizer with WebSphere Host On-Demand. There is no risk to the host application, and minimal impact on the host workload. After users install and implement IBM Screen Customizer, they never need to see green screens again.

International language support

WebSphere Host On-Demand is multilingual and available in 22 languages, including double-byte character set (DBCS) languages. Support for the Euro[1], as well as keyboard and code-page support for many more languages, is also provided. All language versions are available on the same media, and you can access multiple language versions concurrently, making it a truly international product.

Packaging

WebSphere Host On-Demand is available only by purchasing Host Access Client Package or WebSphere Host Integration Solution. Within these packages, WebSphere Host On-Demand is provided on four CD-ROMs:

- *For multiple platforms, including Windows, IBM OS/2® and Novell*
- *For AIX and other UNIX® platforms, like HP-UX, Linux and Sun Solaris™*
- *For IBM OS/400®*
- *For the Host Access toolkit*

For IBM z/OS,™ WebSphere Host On-Demand is provided on three media types: 6250 tape, 3480 cartridge and 4-millimeter cartridge.

For more information

To learn more about IBM WebSphere Host On-Demand, visit: **ibm.com**/software/webservers/hostondemand

IBM WebSphere Host On-Demand, Version 6.0 at a glance

Hardware requirements

Disk space must be available on the server to support applet files, the WebSphere Host On-Demand redirector function and WebSphere Host On-Demand service manager. These requirements are based on a typical installation and are only estimates. Sizes can vary by operating system and the languages installed.

Server space per additional user
- For Windows NT and Windows 2000, 174MB disk space (English only. Add 4MB–8MB of disk space for each additional language)
- For AIX (installation image), 124MB of disk space (English only. Add 4MB–8MB of disk space for each additional language. Includes the additional security files)
- For UNIX (Sun Solaris operating environment, Linux or HP-UX), 110MB of disk space (English only. Add 4MB–8MB of disk space for each additional language)
- iSeries, 230MB of DASD
- OS/2® and Novell, 230MB of disk space

Software requirements

Can be installed on the following servers, which must have Java Virtual Machine (JVM) 1.1.8 or JVM 1.3 installed:
- Windows NT 4.0 with Service Pack 5 (SP5) or higher
- Windows 2000 (Professional, Server and Advanced Server)
- AIX, Version 4.3.3, Version 4.3.4 and Version 5.1
- IBM OS/2 WARP® Server, Version 4 and IBM OS/2 Warp Server for e-business, Version 4.5
- Novell NetWare, Version 4, Version 5 and Version 6
- Sun Solaris operating environment, Release 2.6, Release 7 and Release 8
- IBM OS/400, Version 4 Release 4, Version 4 Release 5 and Version 5 Release 1
- IBM OS/390®, Version 2 Release 5, Version 2 Release 6, Version 2 Release 7, Version 2 Release 8, Version 2 Release 9, Version 2 Release 10 (requires an update to JVM 1.1.8 with PTF 6)
- IBM z/OS, Version 1 Release 1 and Version 1 Release 2
- HP-UX 10.20 and 11.00
- Red Hat Linux 6.2, 7.0 and 7.1
- SuSE Linux 6.4, 7.0 and 7.1
- Caldera Open Linux, Version 2.3
- TurboLinux, Version 6.0 and Version 6.1
- UnixWare, Version 7
- Linux on zSeries™

Supported on the following desktop operating environments when downloaded from a server:
- Windows 95 (local client option)[2]
- Windows 98 (local client option)[2]
- Windows Millennium Edition (Windows Me) (local client option)
- Windows NT 4.0 with Service Pack 5 (SP5)[2] or higher(local client option)
- Windows 2000[2] Professional (local client option)
- AIX, Version 4.3.3, Version 4.3.4 and Version 5.1
- OS/2 WARP, Version 4
- Sun Solaris operating environment, Release 2.6, Release 7 and Release 8
- HP-UX 10.20 and 11.00
- Red Hat Linux, 6.2, 7.0 and 7.1
- SuSE Linux 6.4, 7.0 and 7.1
- Caldera Open Linux, Version 2.3
- TurboLinux, Version 6.0 and Version 6.1
- Windows Terminal Server, Version 4
- Windows 2000 Terminal Services
- IBM Netstation, Version 2 Release 1 Modification 0

Supported browsers

The following browsers are supported for download of the WebSphere Host On-Demand clients from a remote WebSphere Host On-Demand server, or to run WebSphere Host On-Demand on a locally installed client:
- Netscape Navigator 4.6, 4.7 and 6.0 (Windows 95, Windows 98, Windows NT, UNIX)[3]
- Netscape Navigator 4.6.1 (IBM OS/2) and IBM Mozilla Web Browser for OS/2
- Microsoft Internet Explorer 4.01 with IBM SP1®, 5.0, 5.1, 5.5 and 6.0
- Other browsers that support the Java Runtime Environment (JRE) 1.3 plug-in

Browsers are dynamic. For the most up-to-date information, visit : **ibm.com** */software/webservers/hostondemand.*

IBM WebSphere Host On-Demand, Version 6.0 features at a glance

Feature	Function
Host access	• 3270 emulation 3279, 3278 modifications 2, 3, 4 and 5; and TN3270E • 5250 emulation • VT52, VT100, VT220, VT320, VT420 and NVT transport • Connects directly to any 3270, 5250 or VT Telnet server, including any IBM Communications Server • iSeries Workstation ID • Extended attribute support • Operator Information Area (OIA) display • 132-column display • ENPTUI emulation support
File transfer and print functions	• Native Windows print support • IND$File file transfer • IFS file transfer (iSeries) • 3287 Type LU1 and LU3 printing (transparent print support) • Screen print • 5250 host (HPT) printing • FTP • iSeries file upload
Security	• 40-bit, 56-bit, 128-bit and 168-bit data encryption (RC/2, RC/4, DES and Triple DES) • SSL 3.0 support (X.509 certificate) • Client/server authentication through SSL • Configuration servlet • Native authentication • Smart Card support
Ease of use	• Full color remapping • Full keyboard remapping, including mapping host keys to PC keyboards • Copy, cut and paste • Default GUI • Dynamic font sizing • Light pen support • 3270 vector graphics • Deployment wizard • Express logon • Customizable toolbar
Management	• Windows NT and Windows 2000 Domain Single Sign-On • Web-based remote administration • LDAP support for storing user profiles • IBM License Use Management support • User and group management • iSeries RSTLICPGM installation • zSeries System Modification Program Extended (SMP/E) installation from tape • Service Location Protocol (SLP) load-balancing support • Capability to update individual functions • SmartCache • Policy management and feature disable • User ID population tool • Multiuser cached clients
Application development	• Host Access Class Library API for Java • Host Access Beans for Java, including terminal, session, file transfer, macro and other beans

IBM®

[1] EuroReady means that the IBM product, when used
in accordance with IBM-associated documentation,
is capable of correctly processing monetary data
in the euro denomination and of respecting euro
currency formatting conventions (including the euro
sign), provided that all other products (for example,
hardware, software and firmware) used with the IBM
product are also EuroReady.

[2] Windows 32-bit operating systems are also
supported for local client installations.

[3] These browsers have been tested on locally installed
clients as well.

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