

Start simple – grow your e-business fast



# IBM WebSphere Host On-Demand

## Highlights

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

**Supports TN3270E, TN5250, VT52, VT100, VT220 and CICS Gateway for Java access in a single package**

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

**Provides secure access across the Internet with SSL-based technology**

**Installs on a server, simplifying maintenance, distribution and upgrades**

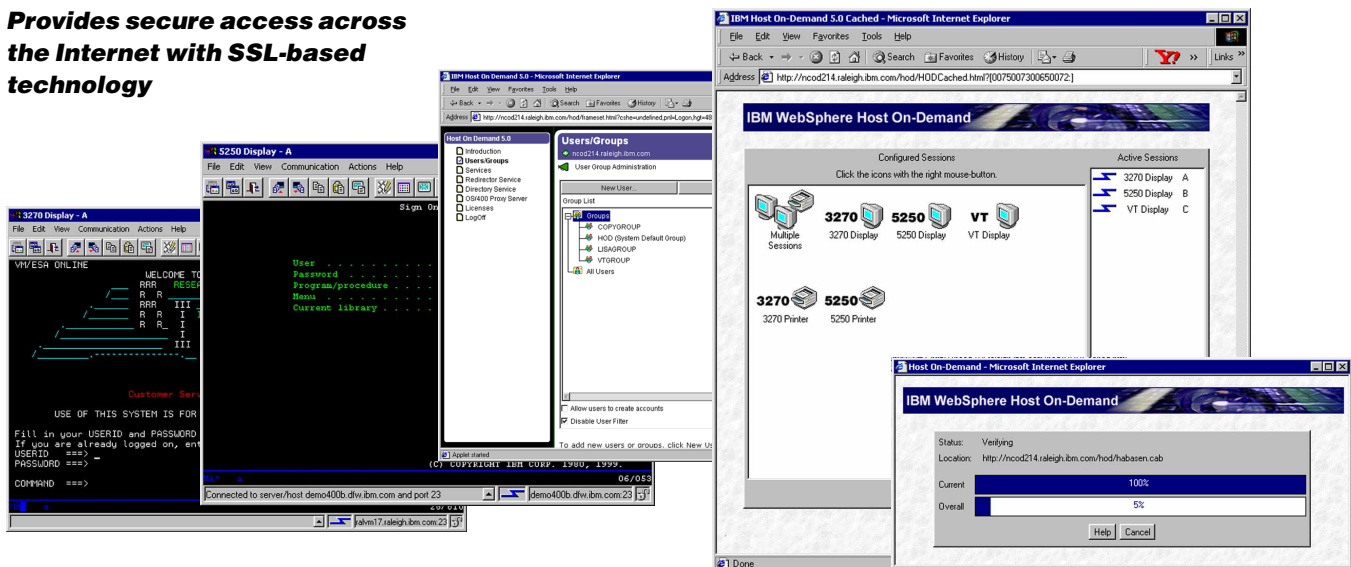
**Provides a default GUI for users unfamiliar with traditional host screens**

**Runs on any operating system that supports the Java Virtual Machine (JVM 1.1)**

**Supports AS/400 and S/390 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. IBM WebSphere Host On-Demand uses the power of Java™ technology to open the doors to your host data whenever you need it, wherever you need it, directly from your browser. Just click a hyperlink to launch IBM WebSphere Host On-Demand Java applet. This Web-to-host connectivity solution provides secure Web-browser access to host applications, so you can take existing host applications to the Web without programming.



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

## Leverage legacy data with new e-business applications

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

### A cost-effective approach

You can save money in product deployment and maintenance by installing IBM 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 AS/400® system or an IBM S/390® system, eliminating the need for extra hardware and software required by three-tier solutions. IBM WebSphere Host On-Demand can be installed on nearly any server platform, accommodating various size organizations and branch offices.

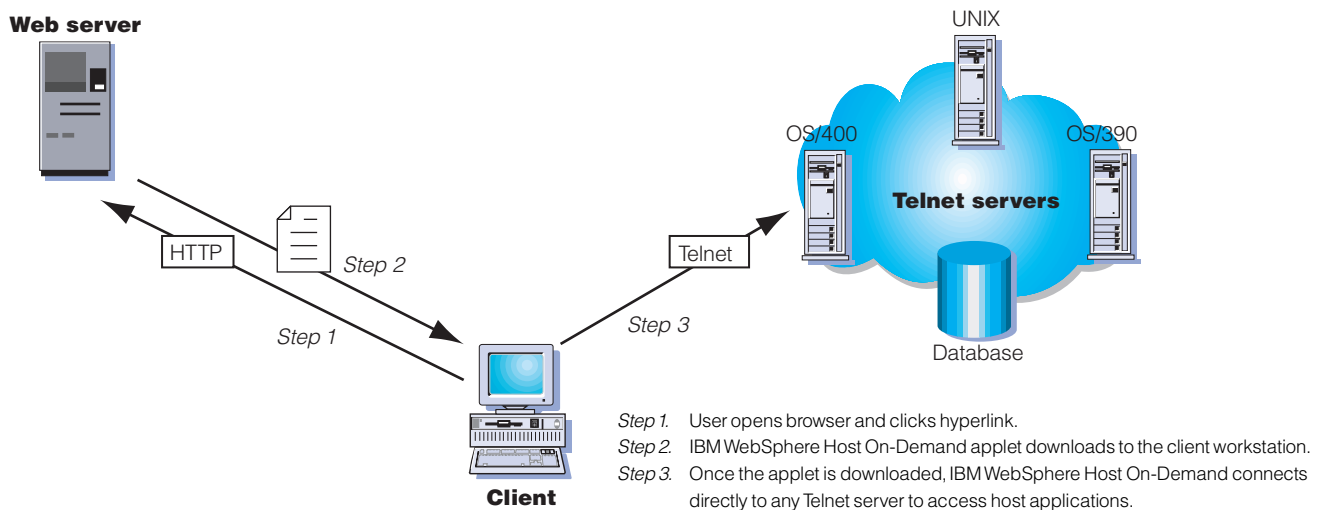
The latest version of IBM WebSphere Host On-Demand is downloaded each time a user accesses the software, eliminating the need to install code on client workstations. With the Cache Client feature and the new SmartCache in IBM WebSphere Host On-Demand, Version 5.0, users download once. Then subsequent uses originate from their hard drives, while

code updates are handled in the background through the Smart Cache. Users are always productive, and always have the latest version of code, with no distribution costs.

IBM WebSphere Host On-Demand can be installed on many platforms, including Microsoft® Windows NT®, IBM AIX® and Linux®, as well as AS/400 and S/390 enterprise servers.

### Connect directly to any Telnet server

With IBM WebSphere Host On-Demand, the emulation functionality is contained in the client applet. 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



*IBM WebSphere Host On-Demand is a two-tier solution which eliminates the need for a middle-tier server.*

directly to any standard Telnet server that provides the best access to the required data. The Telnet connection can be changed as often as user requirements for new data change. You can access an unlimited number of host sessions concurrently. Because no middle-tier server is required, you are not restricted by its capacity.

### **Simplify Web connectivity to the IBM AS/400 system**

For organizations with AS/400 servers, IBM WebSphere Host On-Demand is the first choice for providing users with connectivity back to the AS/400 system, with features that include:

- 5250 host printing
- 5250 device IDs
- 5250 file transfer
- Native system installation
- ENPTUI emulation support
- Database On-Demand

### **Create new e-business applications**

A rich Java tool set, including Host Access Beans for Java™, IBM Host Access ActiveX controls, 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 IBM 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, preserving your IBM WebSphere Host On-Demand investment and helping provide a quick start to the Web and e-business.

The Host Access Class Library API provides access to 3270, 5250 and VT data streams. These class libraries allow 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 Visual Age® for Java. You can use these beans to rapidly create custom applications that allow you 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. Application developers who are familiar with ActiveX tools can use IBM Host Access Controls—a set of ActiveX controls used to provide the functionality found in Host Access Beans for Java.

### **Security enhanced access across the global Internet**

Using Secure Sockets Layer (SSL), Version 3.0, IBM 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, IBM WebSphere Host On-Demand can present a digital certificate (X.509, Version 3) to the Telnet server—such as IBM Communication Server for OS/390®—for authentication. Extending this support to certificate authorities, including Tivoli® SecureWay® Trust Authority, allows enterprises to benefit from industry standard public key infrastructure (PKI) methods.

**Manage large numbers of users**

With IBM WebSphere Host On-Demand, administrators can permit users to create their own IDs, so large numbers of users can manage themselves. By employing a combination of features— configuration migration from IBM Personal Communications and import and export from IBM WebSphere Host On-Demand— configurations can be shared, managed and distributed easily among groups defined by administrators. The administrator panel provides a familiar tree view, providing easy management for IBM WebSphere Host On-Demand users and groups, allowing all user and group information to be displayed on one screen.

For even greater enterprise management, IBM WebSphere Host On-Demand can utilize an LDAP server to store IBM WebSphere Host On-Demand configuration information. This includes LDAP

storage of all user, group and session-configuration information, such as keyboard mappings, macro definitions, session parameters and a migration facility for existing IBM WebSphere Host On-Demand profiles.

**IBM Screen Customizer**

IBM Screen Customizer automatically converts host screens into a graphical presentation that is easily customizable without any programming. Designed with patented screen recognition, IBM Screen Customizer can be used with both IBM WebSphere Host On-Demand and IBM Personal Communications. There is no risk to the host application, and no impact on the host workload. Users can simultaneously access multiple hosts with multiple sessions running, without any degradation in host response time. After users install IBM Screen Customizer, they never have to see a *green screen* again.

**International language support**

IBM WebSphere Host On-Demand is multilingual and is available in 21 languages, including double-byte character set languages. Support for the European currency symbol<sup>1</sup>, 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 multiple language versions can be accessed concurrently, making it a truly international product.

**For more information**

To learn more about IBM WebSphere Host On-Demand, visit:

**ibm.com**/software/webservers/  
hostondemand

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## **IBM WebSphere Host On-Demand, Version 5.0 at a glance**

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### **Hardware requirements**

Disk space must be available on the server to support applet files, the Host On-Demand redirector function and Host On-Demand Express Server.

- Server*
- For Windows NT and Windows® 2000 — 104MB of disk space for one user interface language + 7MB of disk space per additional user interface language
  - For AIX — 120MB of disk space (includes English as a user interface language and the additional security files) + 7MB of disk space per additional user interface language
  - For Sun Solaris™, Linux, HP-UX, UnixWare — 109MB of disk space (includes English as a user interface language) + 7MB of disk space per additional user interface language
  - All others — 251MB of disk space (all languages installed)
- Client*
- A PC or workstation computer with sufficient processor speed, memory and disk to run a Web browser and a Java environment
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### **Software requirements**

Can be installed on the following servers, which must have Java Virtual Machine (JVM) 1.1 installed:

- Windows NT 4.0 with SP5®
- Windows 2000
- AIX, Version 4.2.x, Version 4.3.3 and Version 4.3.4
- IBM OS/2 WARP® Server, Version 4 and IBM OS/2 WARP Server for e-business, Version 4.5
- Novell NetWare, Version 4 and Version 5
- Sun Solaris, Release 2.6 and Release 7
- IBM OS/400®, Version 4 Release 3, Version 4 Release 4 and Version 4 Release 5
- OS/390, Version 2 Release 5, Version 2 Release 6, Version 2 Release 7, Version 2 Release 8, Version 2 Release 9 and Version 2 Release 10
- HP-UX 10.20
- Red Hat Linux 6.2
- SuSE Linux 6.4
- Caldera Open Linux, Version 2.3
- TurboLinux, Version 6.0
- UnixWare, Version 7

Supported on the following desktop operating environments when downloaded from a server: Windows 95<sup>2</sup>; Windows 98<sup>2</sup>; Windows NT 4.0 with SP5<sup>2</sup>; Windows 2000<sup>2</sup>; AIX, Version 4.2.x, Version 4.3.3 and Version 4.3.4; OS/2 WARP, Version 4; Sun Solaris Release 2.6 and Release 7; Red Hat Linux, Version 6.2; SuSE Linux 6.4; Caldera Open Linux, Version 2.3; TurboLinux, Version 6.0 and IBM Netstation, Version 2, Release 1, Mod. 0

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### **Browser requirements**

Browser with JVM 1.1

Tested browsers for applet download (remote server access) include:

- Netscape Navigator 4.6 or 4.7 (Windows 95, Windows 98, Windows NT, UNIX®)<sup>3</sup>
- Netscape Navigator 4.6.1 (IBM OS/2®) (remote server only)
- Microsoft Internet Explorer with IBM SP1® 5.0 and 5.1 (Windows 95, Windows 98 and Windows NT)<sup>3</sup>

Can be used as a Java client to the CICS Java Gateway, Version 1.1.3

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## IBM WebSphere Host On-Demand, Version 5.0 features at a glance



Feature	Function
<b>Host access</b>	<ul style="list-style-type: none"><li>• 3270 emulation 3279, 3278 mod 2, 3, 4 and 5; and TN3270E</li><li>• 5250 emulation</li><li>• VT52, VT100, VT220 and NVT transport</li><li>• Connects directly to any 3270, 5250 or VT Telnet server, including any IBM Communications Server</li><li>• AS/400 Workstation ID</li><li>• Extended attribute support</li><li>• OIA-Operator Information Area display</li><li>• 132-column display</li><li>• ENPTUI emulation support</li></ul>
<b>File transfer and print functions</b>	<ul style="list-style-type: none"><li>• IND\$File file transfer</li><li>• IFS file transfer (AS/400)</li><li>• 3287 Type LU1 and LU3 printing (transparent print support)</li><li>• Screen print</li><li>• 5250 host (HPT) printing</li></ul>
<b>Security</b>	<ul style="list-style-type: none"><li>• 40-bit and 128-bit data encryption (RC/2, RC/4, DES and Triple DES)</li><li>• SSL 3.0 support (X.509 certificate)</li><li>• Client/server authentication through SSL</li><li>• Configuration servlet</li><li>• Native authentication</li></ul>
<b>Ease of use</b>	<ul style="list-style-type: none"><li>• Full color remapping</li><li>• Full keyboard remapping, including mapping host keys to PC keyboards</li><li>• Copy, cut and paste</li><li>• Default GUI</li><li>• Dynamic font sizing</li><li>• Light pen support</li><li>• 3270 vector graphics</li><li>• Deployment wizard</li><li>• Express logon</li></ul>
<b>Management</b>	<ul style="list-style-type: none"><li>• Web-based remote administration</li><li>• LDAP support for storing user profiles</li><li>• IBM License Use Management support</li><li>• User and group management</li><li>• AS/400 RSTLICPGM installation</li><li>• S/390 SMP/E installation from tape</li><li>• Service Location Protocol (SLP) load balancing support</li><li>• On-Demand Server integration</li><li>• Componentization</li><li>• Smart Cache</li><li>• Policy management and feature disable</li></ul>
<b>Application development</b>	<ul style="list-style-type: none"><li>• Host Access Class Library API for Java</li><li>• Host Access Beans for Java, including Terminal, Session, File Transfer, Macro and other beans</li><li>• Host Access ActiveX Controls</li></ul>

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<sup>1</sup>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.

<sup>2</sup>Windows 32-bit operating systems are also supported for local client installations.

<sup>3</sup>These browsers have been tested on locally installed clients as well.



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