A fast, cost-effective way to e-business

IBM

IBM Host On-Demand

Simplest way to reach host data
The browser-based access of IBM Host On-Demand gives users a simple way to reach critical host data, without requiring any software to be installed on the client. 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 the Host On-Demand Java applet. This Web-to-host connectivity solution provides secure Web-browser access to host applications through Java technology-based emulation, so you can take existing host applications to the Web without programming.

e-business
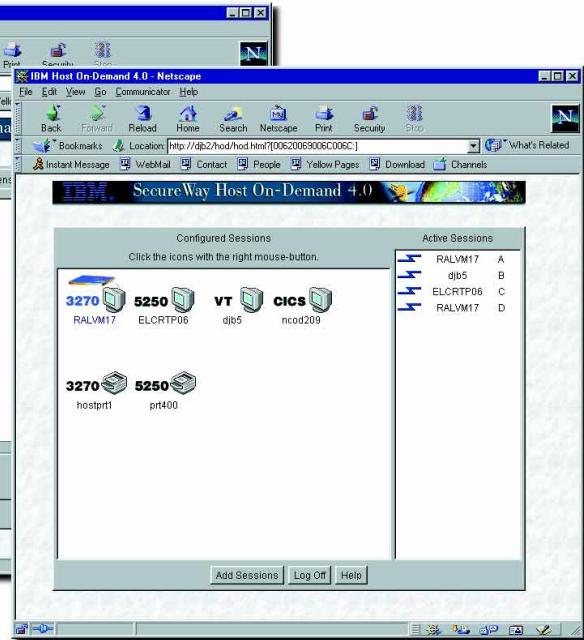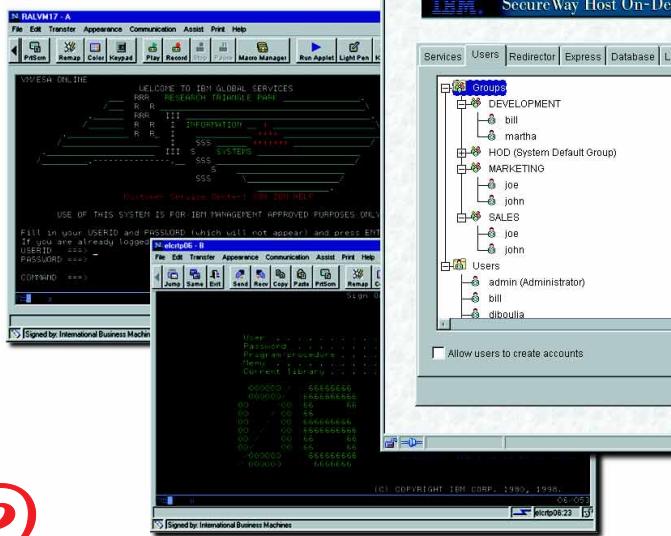
With Host On-Demand, you can easily access and manage your 3270 or 5250 host applications.

Quick, easy access to critical host data

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 Host On-Demand is Java technology-based, its interface has the same look and feel across various types of operating environments. Host On-Demand also provides a default graphical user interface (GUI) to 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 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. Host On-Demand can be installed on nearly any server platform, accommodating various size organizations and branch offices.

Host On-Demand uses a Java applet, which helps reduce your software maintenance costs. The latest version of the applet is downloaded each time a user accesses the software, eliminating the need to install code on client workstations. System administrators no longer have to schedule maintenance upgrades for clients. And server maintenance is less complex with Web-based remote configuration and administration.

Host On-Demand can be installed on 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 Host On-Demand, the emulation functionality is contained in the client applet. This eliminates the need for a middle-tier server — both 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. The Telnet connection can be changed as often as user requirements

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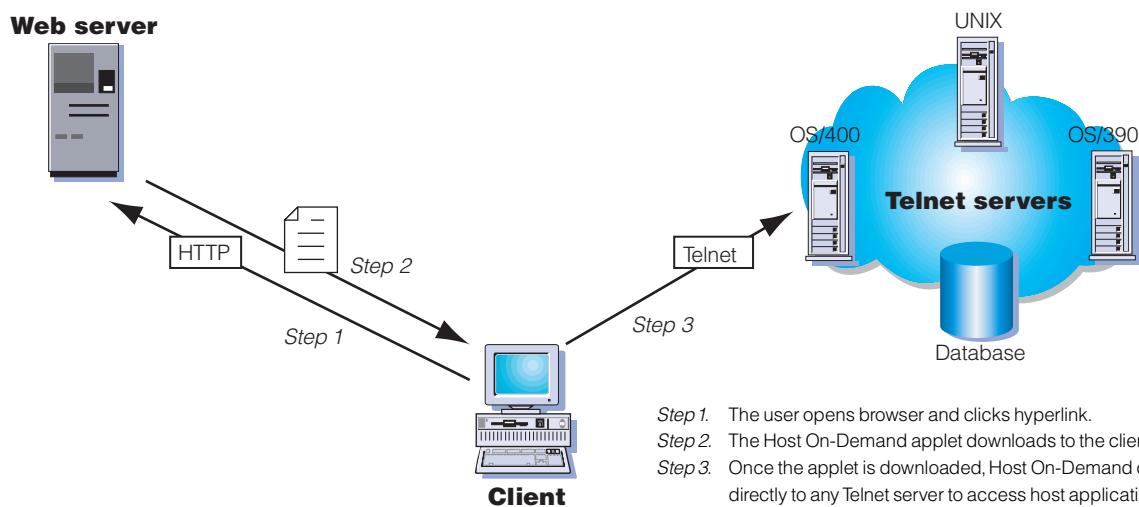
Host On-Demand is a two-tier solution which eliminates the need for a middle-tier server.

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, Host On-Demand is your 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

Create new e-business applications

Host On-Demand provides a rich tool set to deliver custom e-business applications that meet your specific business needs. These tools include the Host Access Class Library API, Host Access Beans for Java and ActiveX controls.

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.

Secure access across the global Internet

Using Secure Sockets Layer (SSL), Version 3.0, Host On-Demand extends secure host data access across intranets, extranets and the Internet. Mobile workers access a secure Web site, receive authentication and establish communication with a secure enterprise host. With client and server certificate support,

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. Host On-Demand can also integrate the SSL client authentication with IBM Vault Registry. This allows enterprises to benefit from industry-standard public key infrastructure (PKI) methods. Users request a certificate from Vault Registry, which manages, maintains and ensures certificate validity.

Manage large numbers of users

With 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 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 Host On-Demand users and groups, allowing all user and group information to be displayed on one screen.

As an alternative to the built-in Host On-Demand configuration server, you can use an LDAP server to store 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 Host On-Demand profiles.

Manage with IBM On-Demand Server

For even greater enterprise management, IBM On-Demand Server provides advanced services for Host On-Demand, Version 4 *Specially Developed for On-Demand Server* and other Web applications. It enables delivery of Host On-Demand with user- and policy-based administration and better access control. Users and administrators also benefit from:

• Extending management capabilities by enabling administrators to manage multiple servers and Web applications

• Importing user definitions from existing operating systems for user and group management

• Providing a level of security for user authentication through a single logon, allowing users to access Host On-Demand or any other Web application

• Extending Tivoli® systems management to your Web applications, including Host On-Demand

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, Screen Customizer can be purchased for Host On-Demand and 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 Screen Customizer, they never have to see a green screen again.

International language support

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

For more information

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

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 — 160MB of disk space
- For AIX — 202MB of disk space (includes the additional security files)
- For all other operating systems — 192MB of disk space

Client:
- A PC or workstation computer with sufficient processor speed, memory and disk to run a complex browser or Java environment

Software requirements

Can be installed on the following servers, which must have Java Virtual Machine (JVM) 1.1:
- Windows NT 4.0 with SP3
- Windows® 2000
- AIX, Version 4.2 or Version 4.3
- IBM OS/2 WARP®, Version 4 and Warp Server
- Novell NetWare, Version 5 with JVM 1.17b
- Sun Solaris™ Release 2.6
- IBM OS/400®, Version 4 Release 2, Version 4 Release 3 or Version 4 Release 4
- HP-UX 10.20, 11.0
- Red Hat Linux 5.2, 6.0 or 6.1
- Caldera OpenLinux 2.2
- Pacific HiTec TurboLinux 3.6
- SuSE Linux 6.1
- IBM OS/390, Version 2 Release 5, Version 2 Release 6, Version 2 Release 7 or Version 2 Release 8

Supported on the following desktop operating environments when downloaded from a server: Windows 95[2]; Windows 98[2]; Windows NT 4.0 with SP3[2]; Windows 2000[2]; AIX, Version 4.2, or higher; OS/2 WARP, Version 4; HP-UX 10.20; Solaris 2.5.1, or higher; Red Hat Linux, Version 5.2, 6.0 or 6.1; Caldera OpenLinux 2.2; Pacific HiTec TurboLinux 3.6; and SuSE Linux 6.1 (SBCS only)

Browser requirements

Browser with JVM 1.1

Tested browsers for applet download (remote server access) include:
- Netscape Navigator 4.08, 4.5, 4.6 or 4.7 (Windows 95, Windows 98, Windows NT, UNIX®)[3]
- Netscape Navigator 4.04 or 4.6.1 IBM (OS/2®) (remote server only)
- Microsoft Internet Explorer 4.01 with IBM SP1® or 5.0 (Windows 95, Windows 98, Windows NT)[3]

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

IBM Host On-Demand, Version 4, Specially Developed for On-Demand Server

Requirements

On-Demand Server must be installed on your operating system before you install Host On-Demand, Version 4 *Specially Developed for On-Demand Server*. The only other requirement to run Host On-Demand, Version 4 *Specially Developed for On-Demand Server* is an additional 150MB of server disk space. There are no additional hardware or software requirements.

IBM Host On-Demand, Version 4 features at a glance

Feature	Function
Host access	• 3270 emulation 3279, 3278 mod 2, 3, 4 and 5; TN3270E • 5250 emulation • VT52, VT100, VT220 and NVT transport • Connects directly to any 3270, 5250 or VT Telnet server, including any IBM Communications Server • AS/400 Workstation ID • Extended attribute support • OIA-Operator Information Area display • 132-column display
File transfer and print functions	• IND$File file transfer • IFS file transfer (AS/400) • 3287 Type LU1 and LU3 printing (transparent print support) • Screen print • 5250 host (HPT) printing
Security	• 40-bit and 128-bit data encryption (RC/2, RC/4, DES, Triple DES) • SSL 3.0 support (X.509 certificate) • Client/server authentication through SSL
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
Management	• Web-based remote administration • LDAP support for storing user profiles • IBM License Use Management support • User and group management • AS/400 RSTLICPGM installation • S/390 SMP/E installation from tape • Service Location Protocol (SLP) load-balancing support • On-Demand Server integration
Application development	• Host Access Class Library API for Java • Host Access Beans for Java, including Terminal, Session, File Transfer, Macro and other beans • Host Access ActiveX Controls