

WebSphere® software

IBM WebSphere Everyplace Connection Manager, Version 5.1

Highlights

- **Protection of sensitive information when transmitted over wireless networks**
- **Seamless network roaming, which allows mobile users to maintain session persistence when the mobile device changes network connections**
- **Support for a comprehensive spectrum of communication protocols for both Internet Protocol (IP) and non-IP networks, and a wide selection of wireless and wired network connectivity choices**
- **Reduction of mobile transmission costs and lower connection fees through data optimization functionality**

Higher standard for seamless roaming

As wireless broadband services and cellular data services grow in popularity, IBM is making it easier for mobile workers to securely access important information across multiple wireless and wired networks—without interruption—so they can do business at anytime from virtually anyplace.

IBM WebSphere® Everyplace Connection Manager, V5.1, has set the bar higher for secure, seamless roaming across multiple types of wireless and wired networks. This software provides mobile workers with the highest level of secure access to enterprise information over wireless networks and from the growing number of wireless hot-spots, such as airports, truck stops, coffee shops and hotels.

Enhanced capabilities

WebSphere Everyplace Connection Manager V5.1 provides a standard TCP/IP communications interface to a variety of wireless, dial-up and local-area networks (LANs) with data optimization and security. The components that make up WebSphere Everyplace Connection Manager are designed to run on multi-vendor hardware and operating system platforms. The three major components include:

- *Connection Manager—supports a comprehensive spectrum of communication protocols for both IP and non-IP networks. Administrator can create and optimize connections to multiple networks by configuring WebSphere Everyplace Connection Manager's Mobile Network Connection (MNC) profiles for many combinations of public or private physical networks. Each MNC can be tuned for optimal performance, compensating for latency, link speed and other characteristics that vary across different communications technologies.*



- *Distributed Administration/ Gatekeeper—provides a Java® technology-based administrator console to WebSphere Everyplace Connection Manager and to wireless resources. Administration of WebSphere Everyplace Connection Manager is simplified with Gatekeeper and optional user administration portlets using the IBM WebSphere Portal Server or IBM WebSphere Everyplace Access.*
- *Mobility Client software—runs locally on user devices and provides full-function interface to communicate with the Connection Manager. Once Mobility Client authenticates to WebSphere Everyplace Connection Manager, a Virtual Private Network (VPN) is established and the device securely joins the enterprise intranet.*

WebSphere Everyplace Connection Manager supports standard IP routing—even over non-IP wireless bearer networks—to help ensure unbroken, end-to-end TCP sessions between mobile devices and application servers. Mobility Client also includes a toolkit and application program interfaces to create network-aware applications.

Benefits for enterprises and mobile employees

WebSphere Everyplace Connection Manager V5.1 provides many benefits for enterprises, including:

Increased mobile workforce productivity through reliable and optimized connectivity

Mobile workers can now benefit from a new customized network roaming feature, which enables users to customize the software to prioritize the network they prefer to access data from based on important business priorities. For example, they can determine the most cost-effective network that offers the highest-speed access to data or provides the most bandwidth available to wirelessly download a particular kind of data type.

Reduced data transmission costs through advanced data compression optimization technologies

WebSphere Everyplace Connection Manager utilizes new advanced data compression optimization technologies to reduce costs associated with data transmission, by reducing the amount of data being transmitted wirelessly. This speeds up the transmission of data across a network or multiple networks, resulting in lower connection fees for enterprises.

Increased security through compliance with the highest industry standard for security certification

WebSphere Everyplace Connection Manager was awarded the Federal Information Processing Standard (FIPS) 140-2 level of certification on AIX® 5.2, Trusted Solaris and all Windows® clients—widely viewed as the most stringent security standard internationally. FIPS 140-2, developed by U.S. and Canadian governments, is becoming a sought-after indicator throughout federal, provincial, state and local governments as well as security-insistent enterprises to validate the degree of security robustness of enterprise networking products.

WebSphere Everyplace Connection Manger: Supported networks		
Network connections		
Cellular Networks: CDMA TDMA GSM CSD, SMS PCS 1900 PDC (Japan) PHS (Japan) CDMA2000, 1XRTT, eVDx GPRS (GSM) EDGE Nextel Wireless Broadband (802.20) UMTS PDC-P (Japan) iDEN CDPD and CS-CDPD AMPS & N-AMPS SMS-C Connections: SMPP SMTP SNPP UCP	W-LAN, W-PAN: 802.11b 802.11a 802.11g Bluetooth LAN Connections: Ethernet Token Ring Internet Connections: Cable Modem ADSL/DSL ISDN ISP Dial Connections: DIAL/TCP ISDN PPP PSTN (POTS)	Public Non-IP Radio Networks: DataTAC 4000 (US) DataTAC/IP DataTAC 5000 (Europe) Modacom (Germany) DataTAC 6000 (Asia) DataTAC/IP Mobitex (Worldwide) Mobitex/IP (US) Private Packet-Radio Networks: Dataradio Motorola Private Radio (DataTAC) Satellite Networks: Norcom Wireless Matrix

Major functional enhancements

WebSphere Everyplace Connection Manager V5.1 offers the following enhancements:

Dynamic Session Profiles allows recognition of the network type that the user is connecting over and automatic application of tuning parameters to achieve optimal performance. This feature simplifies the client configuration and enhances the seamless roaming capability by automatically switching network specific performance settings when roaming occurs.

Ability to export/import client configuration files to facilitate deployment of client configuration changes over the air. This capability gives an administrator the ability to set or change client parameter options, and then distribute the new configuration to the client. The client will be able to import the new configuration and accept the changes.

Application Check/Autostart. The mobility client can now be configured to check that certain programs are running like antivirus and/or personal firewall software before allowing the connection to start.

Improved installation with Quickstart Mobile VPN, with the use of the VPN Wizard. The VPN Wizard will configure with common parameters that will enable you to get up and running quicker.

Expanded support for wireless networks, including CDMA1xrtt, CDMA1xevdo, CDMA1xevdv, EDGE, Nextel Wireless Broadband (802.20).

Mobile Office Entry Jumpstart

WebSphere Everyplace Connection Manager V5.1 can be purchased as an individual product or as part of the IBM Mobile Office Entry Jumpstart solution. In addition to WebSphere Everyplace Connection Manager software, the Mobile Office Entry Jumpstart solution includes IBM WebSphere Everyplace Access software, IBM @server servers and IBM services to help enterprises in numerous industries pilot and test run the software with Palm Tungsten handheld computers supporting up to 50 clients.

WebSphere Everyplace Access provides the integrated client-server environment and application development tools to extend business applications and data to mobile users. It enables deployment of data and application services on mobile devices and provides a common back-end integration framework, administration and management services.

IBM: End to end custom solutions

IBM offers pre-packaged and custom solutions to enable workforce mobility applications. Solutions include flexible infrastructure, services, hardware and software, including Lotus products. We offer workforce mobility solutions compatible with most major platforms.

With WebSphere Everyplace Connection Manager, we have created a platform that can enable you to easily extend e-business to mobile users over wired and wireless networks.

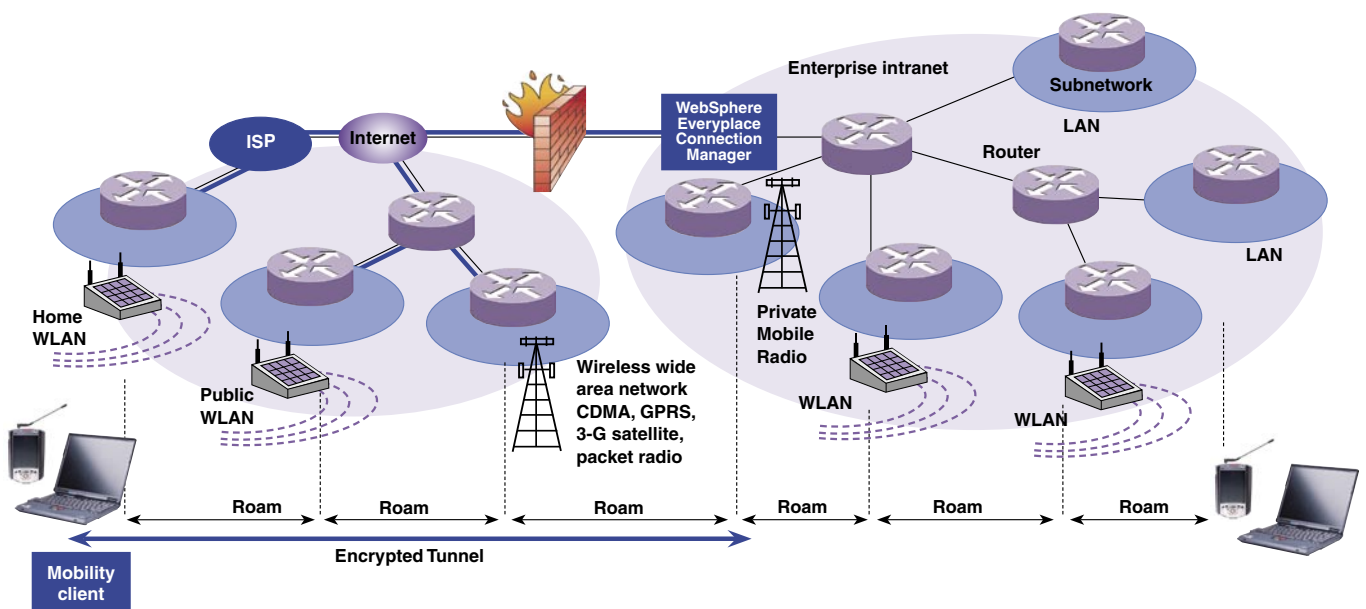
With dedicated workforce mobility service professionals worldwide, we can assist you in virtually any location, with wireless strategy, technology, systems integration and deployment. Whatever your objectives, we can bring together all of the right components, tailored to your needs—and do it quickly.

For more information

To learn how your company can benefit from WebSphere Everyplace Connection Manager, contact a local IBM representative or visit our Web site at:

ibm.com/pervasive

WebSphere Everyplace Connection Manager provides end-to-end security, data optimization and encryption



Hardware Requirements:

The following are minimum configurations for WebSphere Everyplace Connection Manager V5.1:

IBM AIX operating environment

- IBM @server pSeries 615 with 64-bit POWER 4+ processor at 1.2GHz
- 1GB memory
- 75MB disk space plus additional 1GB for logging

Sun Solaris operating environment:

- Sun Blade 150 with UltraSPARC Ili at 550MHz
- 1GB memory
- 75MB disk space plus additional 1GB for logging

Linux operating environment:

- IBM @server xSeries® 205VL or compatible with Intel® Pentium®, AMD K6, or compatible processor at 400MHz
- 256MB memory
- 75MB disk space plus additional 1GB for logging

The following is required to use the Gatekeeper component:

IBM AIX operating environment

- IBM @server pSeries® 615 with 64-bit POWER 4+ processor at 1.2GHz
- 1GB memory
- 75MB disk space

Sun Solaris operating environment:

- Sun Blade 150 with UltraSPARC Ili at 550 MHz
- 1GB memory
- 100MB disk space

Linux operating environment:

- IBM @server xSeries 205VL or compatible with Intel Pentium, AMD K6, or compatible processor at 400MHz
- 256MB memory
- 75MB disk space

Microsoft® Windows® operating environment:

- IBM @server xSeries 205VL or compatible with Intel Pentium, AMD K6, or compatible processor at 400MH
- 256MB memory
- 75MB disk space

A Mobility Client requires:

- Connection Manager configured for mobile access services
- A mobile computer with sufficient resources (processor speed, hard drive and memory) to run the operating system, manage modem communications, and run your other applications
- A modem or interface adapter for your network provider

Mobility Client disk space requirements to install the full Mobility Client image:

- On Windows 2000 or Windows XP: 5MB
 - On Windows CE: 5MB (the final image on the Windows CE device is smaller)
 - On Palm OS: 11MB (the final image on the Palm device is 4-8MB)
 - On Symbian OS: 500KB
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Software Requirements:

The following system software is required to use WebSphere Everyplace Connection Manager:

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| Operating System | <ul style="list-style-type: none"> • AIX Version 5.1 • AIX Version 5.2 • Sun Solaris 8 • Sun Trusted Solaris 8 • Sun Solaris 9 • SuSE 8.1 or later • SuSE 9.0 • RedHat Enterprise Linux 3.0 ES/AS • SuSE Linux Enterprise Server 8 |
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| Directory Server | <ul style="list-style-type: none"> • IBM Tivoli® Directory Server 4.1 or later • IBM Tivoli Directory Server 5.1 or later • IBM Tivoli Directory Server 5.2 • Netscape Directory 4.1 • Sun ONE Directory Server 5.x • OpenLDAP 2.0.27, 2.1 or later |
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| Access to a Relational Database | <ul style="list-style-type: none"> • IBM DB2® 7.2 (any edition) • IBM DB2 8.1 FixPak 3 or later (any edition) • Oracle 8.1.6 or 8.1.7 with Merant DataDirect Connect ODBC Driver Version 4.2 • Oracle 9.0.1, 9.2.0.1, or 9.2.0.2 with Merant DataDirect Connect ODBC Driver Version 4.2 |
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| X.25 Adapter Support (Optional) | <ul style="list-style-type: none"> • AIXLink 1.1.5.0 or later • X.25 StreamSuite from Gcom, Inc. |
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The following is required to use the Gatekeeper component:

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| Operating System | <ul style="list-style-type: none"> • AIX Version 5.1 • AIX Version 5.2 • Sun Solaris 8 • Sun Trusted Solaris 8 • Sun Solaris 9 • RedHat Enterprise Linux 3.0 WS/ES/AS • SuSE Linux Enterprise Server 8 • SuSE Linux Desktop 8 • SuSE 8.1 or later • SuSE 9.0 • Microsoft Windows 2000 • Microsoft Windows XP |
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The following is required to use the Mobility Client:

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| Operating System | <ul style="list-style-type: none"> • Microsoft Windows 2000 • Microsoft Windows XP (Professional, Tablet PC) • Pocket PC 2002 • Pocket PC 2002 Phone Edition • Windows Mobile 2003 Pocket PC • Windows Mobile 2003 Pocket PC Phone Edition • Tungsten C (Palm OS 5.2.1) • Tungsten W (Palm OS 4.1.2) • Treo 600 (Palm OS 5.2.1) • SuSE 8.1 or later • SuSE 9.0 • RedHat Enterprise Linux 3.0 WS • SuSE Linux Enterprise Desktop 8 • Sharp Zaurus SL-6000 • SonyEricsson P900 • Nokia 9500 |
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