IBM WebSphere Application Server for Telecom V1.3 Delivers Enhanced Services for Enterprise Applications and Data

Overview
The WebSphere® Application Server for Telecom V1.3 and the IBM Telecom Toolkit for WebSphere Studio V1.3 help service providers and enterprises create and deploy a new class of e-business applications bridging voice and data applications, bringing together and integrating telecommunications networks with enterprise IT applications and data. The Telecom Server supports Public Switched Telephone Networks (PSTN), wireless, and IP data networks.

Traditionally, telecom service applications are custom-designed services executing on specific devices and proprietary software platforms. These services have been expensive to develop and slow to market and not portable to other hardware and software platforms. It also has been expensive to modify services to support new technologies or to address targeted niche markets.

Telecom services are now becoming more like other applications, merging with the information technology world. Services need to bridge across multiple networks, technologies, and business areas. New services can be created using Internet technologies, open standards and APIs, such as servlets, Enterprise JavaBeans, Third Generation Partnership Project (3GPP), Open Services Architecture (OSA), and Parlay. Parlay/OSA defines a set of APIs enabling IT software vendors to develop applications exploiting the current and emerging features of telecom networks. Telecom services providers and independent application service providers can deploy the applications within or outside of the telecom networks.

Building on the capabilities of the WebSphere Studio Application Developer, the Telecom Toolkit assists developers in easily creating value-add telecom services and e-business solutions using the open standard Parlay/OSA APIs to access telecom networks. The Parlay/OSA APIs include call control, messaging, charging, location, presence, and availability management. The Telecom Toolkit puts the functions of telephony into the hands of IT professionals and helps lower development costs and speed time to market for new services.

The Telecom Server extends the WebSphere Application Server, enabling a robust services execution platform for the delivery of new integrated e-business services that can access and utilize telecom networks. The Telecom Server uses open standards such as Java™ and Parlay/OSA to connect to the Parlay/OSA gateways.

The Telecom Server V1.3 has been pretested with Parlay/OSA gateways offered by Ericsson and AePONA proving the technology and helping save the Service Provider time in implementing/integrating the solution in the network.

For more product information, refer to: http://www.ibm.com/software/webservers/wtas/

Key Prerequisites

- WebSphere Studio Application Developer V4.0 for the development of applications using the toolkit
- WebSphere Application Server, Advanced Edition V4.0 for the deployment of applications using the server

Planned Availability Date

March 28, 2003

At a Glance

WebSphere Application Server for Telecom V1.3 and IBM Telecom Toolkit for WebSphere Studio V1.3, extensions to the WebSphere software application platform, allow e-business applications to leverage the capabilities of the telecom network.

- Server support for deployment and management of value-added telecom services using WebSphere Server Advanced Edition
- Toolkit support for creating and testing services using WebSphere Studio Application Developer
- Based on open programming and telecom standards, provides Java and Parlay/OSA protocol support
- Integration with multiple Parlay/OSA Gateways
- Emerging business models allow a collaborative system that provides a Parlay/OSA gateway from equipment providers or independent gateway providers, IBM Middleware, and applications from ISVs/business partners

For ordering, contact: Your IBM representative or the Americas Call Centers at 800-IBM-CALL

Reference: YE001

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.

IBM United States IBM is a registered trademark of International Business Machines Corporation.
platform. The Telecom Server can host applications in the application server portion of a services execution environment. It provides the Parlay/OSA gateways, the product delivers the Parlay/OSA interface. This new model for service creation and execution evolves from a highly specialized, platform-specific model to an open model that builds on proven technologies and a robust telecom foundation defined by Parlay/OSA. This new model for service creation and execution can reduce the dependency on advanced telecom equipment skills to create new services.

- Service creators can focus on new function and customization to address new market opportunities quickly.
- Service providers can easily integrate these new services into their back office infrastructure using standard administrative interfaces.

WebSphere Application Server for Telecom V1.3 and IBM Telecom Toolkit for WebSphere Studio V1.3 provide enablement technologies for four types of customers:

For the telecommunications equipment manufacturer who provides the Parlay/OSA gateways, the product delivers the application server portion of a services execution platform. The Telecom Server can host applications in an adjunct role to network elements.

For the service creator, the Telecom Toolkit delivers the service creation test and execution environments on rich foundations. The service creation tool set is an extension of the WebSphere Studio tool set. Provisioning interfaces are built using Java Server Pages with WebSphere Studio. Deployment packaging is provided directly from WebSphere Studio.

For the telecom service provider, the Telecom Server delivers a rich deployment platform that integrates telecom function with e-business application middleware to create high-level services. The service provider can purchase services from third-party vendors building to an industry-standard platform. Service providers can also use the Telecom Toolkit to create customized services for targeted customers or market segments, increasing the return on investment.

For independent software vendors (ISVs), the Telecom Toolkit offers new ways to extend existing applications with more advanced telecommunication features. ISVs can learn more about the server and toolkit and get technical support for enabling their applications by participating in the Development Center for Telecom for e-business, a PartnerWorld® for developers program in selected locations.

### Deploying Telecom Services

The next generation of enhanced services combines the routing knowledge and connection capabilities of the telecom network with personal and corporate knowledge/data to deliver highly personalized services. Customers can use e-business technologies to customize these services.

WebSphere Application Server for Telecom V1.3 is the glue that binds the telecom and e-business technologies.

**What is WebSphere Application Server for Telecom V1.3?**

**What it is:**
- Application server that hosts services, managing their run-time execution
- An IP-based server, deployed within or outside a service provider network
- A server based on Parlay/OSA telecom standards
- An interface to Internet standards-based platforms implementing application server components such as servlets, Java Server Pages (JSP), and Enterprise JavaBeans (EJB)
- An interface to enterprise platforms that implements application resources such as SQL databases, messaging, and transaction systems

**What it is not:**
- Soft switch, call agent, Parlay gateway, or SS7 gateway
- Service control point, intelligent peripheral, or service node
- Media gateway

The Telecom Server serves as a host for services; for example, it can host services that integrate call forwarding with corporate calendaring software to provide forwarding based on a user’s calendar entries. It is not suited for hosting high-transaction, low-latency services like 800 number translation or critical, five-nines services such as 911. These types of applications do not require the extended function offered by the Telecom server and might be sensitive to the added network segments necessary to access the servers.

### Creating Telecom Services

Today, building applications and services that access or extend the telecommunication networks is a very difficult task. It requires a select set of skills and knowledge of individual pieces of equipment and a variety of telecom protocols. Few ISVs provide telecom services; customer applications that leverage telecom facilities are limited to simple phone functions provided by APIs such as Telephony Application Programming Interface (TAPI) and Telephony Services API (TSAPI).

To make telecom services creation and execution widely accessible and deployable, you need a new approach that addresses the following areas:

- A development environment for new services based on open standards, modern development tools, and ease of service creation
- An environment available to developers within the telecom industry and to independent and enterprise-oriented developers
- A deployment infrastructure based on open standards that enables a robust, managed environment supported across a variety of platforms
• Service development and test capabilities for developers with programming skills and telecom service knowledge, but without access to telecom networks or equipment

• High-value service customization through the integration of telecom capabilities with service provider, enterprise, and individual customer data

The WebSphere Application Server for Telecom V1.3 addresses these concerns with:

• Support for the Parlay/OSA standards defined by a large cross section of telecom industry manufacturers, service providers, and software providers

• WebSphere Studio Application Developer programming tool set, widely recognized for its high-productivity programming environment, including source code management, rapid development, integrated test, and debugging

• Compatibility with a Parlay/OSA test tools provided by Open API Solutions, Application Test Suite V1.1

Section 508 of the U.S. Rehabilitation Act

WebSphere Application Server for Telecom V1.3 and IBM Telecom Toolkit for WebSphere Studio V1.3 are capable, as of September 13, 2002, when used in accordance with associated IBM documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperate with it.

Trademarks

WebSphere and PartnerWorld are registered trademarks of International Business Machines Corporation in the United States or other countries or both.
Java is a trademark of Sun Microsystems, Inc.
Other company, product, and service names may be trademarks or service marks of others.
Offering Information

Product information is available through the Offering Information tool at:

http://www.ibm.com/common/ssi

and through the Passport Advantage Web site at:

http://www.ibm.com/software/passportadvantage

Publications

No printed publications are shipped with this program.

Documentation is provided as a part of the program software and can be reviewed online and printed. This includes a guide for getting started, implementation, configuration, help screens, and license information.

Technical Information

Hardware Requirements

WebSphere® Application Server for Telecom V1.3

AIX® Systems

- An RS/6000® system that supports the AIX 4.3.3, or later, operating system
- 1 GB memory, 4 GB recommended
- Multiprocessor system recommended
- 1024 x 768 or larger color display with a minimum of color depth of 16 bits

Solaris Test Systems

- A Sun Sparc system that supports the Solaris 2.8, or later, operating system
- 1 GB memory, 4 GB recommended
- Multiprocessor system recommended
- Supported network interface card (NIC)
- 1024 x 768 or larger color display with a minimum of color depth of 16 bits

IBM Telecom Toolkit for WebSphere Studio V1.3

- A system capable of running either:
  - Windows NT® V4 or Windows® 2000
  - Red Hat Linux 7.1 X86, or later
- Minimum of 512 MB memory, 1024 MB RAM, or greater, recommended
- Minimum CPU speed of 800 MHz, 1.8 GHz, or greater, recommended
- Supported Network Interface Card (NIC)
- 1280 x 1024 or larger color display with a minimum of color depth of 16 bits

Software Requirements

WebSphere Application Server for Telecom V1.3

AIX Systems

- AIX V4.3.3, or later.
- DB2® V7.1 with Fixpack 5, or later.
- WebSphere Application Server V4.0 with Fixpack 2 installed. The WebSphere Application Server documentation has information about hardware requirements.

Linux Systems

- Red Hat Linux 7.1, or later (refer to the requirements for WebSphere Application Server).
- DB2 V7.1 with Fixpack 5, or later.
- You must have WebSphere Application Server V4.0 with Fixpack 2 installed. The WebSphere Application Server documentation has information about hardware requirements.

Solaris Systems

- Solaris V2.8, or later (refer to the requirements for WebSphere Application Server).
- DB2 V7.1 with Fixpack 5, or later.
- You must have WebSphere Application Server V4.0 with Fixpack 2 installed. The WebSphere Application Server documentation has information about hardware requirements.

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.
Parlay/OSA 3.1 Gateways

- AePONA Causeway Parlay/OSA Gateway V2.0
- Ericsson JAMBALA Service Capability Server (SCS) Release 2.0

IBM Telecom Toolkit for WebSphere Studio V1.3

Gateway Requirements

- Simulators
  - Open API Solutions Application Test Suite, V1.1

Planning Information

Packaging: All programs and manuals must be electronically downloaded from the Internet. This program, when downloaded from a Web site, contains the applicable IBM license agreement, and License Information (LI), if appropriate and will be presented for acceptance at the time of installation of the program. The license and LI will be stored in a directory such as LICENSE.TXT for future reference.

Security, Auditability, and Control

WebSphere Application Server for Telecom V1.3 and IBM Telecom Toolkit for WebSphere Studio V1.3 uses the security and auditability features of the host hardware and software.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering Information

- Product Group: WebSphere Application Server
- Product Identifier Description: WAST V1.3 (5724-D50)
- Product Category: WebSphere Products

The WebSphere Application Server for Telecom V1.3 charge unit is per processor.

The IBM Telecom Toolkit for WebSphere Studio V1.3 charge unit is per user.

WebSphere Application Server for Telecom V1.3

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebSphere Application Server for Telecom — SW Maintenance 1 Anniv</td>
<td>D51MBLL</td>
</tr>
<tr>
<td>WebSphere Application Server for Telecom — Lic/SW Maintenance 2 Anniv</td>
<td>D51MCLL</td>
</tr>
<tr>
<td>WebSphere Application Server for Telecom — Lic/SW Maintenance 1 Anniv</td>
<td>D51MDLL</td>
</tr>
<tr>
<td>WebSphere Application Server for Telecom — SW Maintenance Anniv</td>
<td>E0018LL</td>
</tr>
</tbody>
</table>

Passport Advantage Customer: Media Pack Entitlement Details

Customers with active maintenance or subscription for the products listed below are entitled to receive the corresponding media pack.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebSphere Application Server for Telecom</td>
<td>BA0AHNA</td>
</tr>
<tr>
<td>Telecom Toolkit for WebSphere Studio</td>
<td>BA0AINA</td>
</tr>
</tbody>
</table>

Terms and Conditions

Licensing: IBM International Program License Agreement. Proofs of Entitlement are required for all authorized use. Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

This software license includes Software Maintenance, previously referred to as Software Subscription and Technical Support.

LI Form Number: There is no form number for this LI document.

Limited Warranty Applies: Yes

Program Services: Available until March 31, 2005

Money-Back Guarantee: If for any reason you are dissatisfied with the program, return it within 30 days from the invoice date, to the party (either IBM or its reseller) from whom you acquired it, for a refund. This applies only to your first acquisition of the program.

Copy and Use on Home/Portable Computer: No

Volume Orders (IVO): No

Passport Advantage Applies: Yes, and through the Passport Advantage Web site at:

http://www.ibm.com/software/passportadvantage

Software Maintenance Applies: Yes

Software Maintenance, previously referred to as Subscription and Technical Support, is now included in the Passport Advantage Agreement. Installation and technical support for the products announced in this letter is provided by the Software Maintenance offering of the IBM International Passport Advantage Agreement. This
fee service enhances customer productivity by providing voice and/or electronic access into the IBM support organizations.

IBM includes Software Maintenance with each program acquired during the coverage period. The coverage period means the period commencing on the date you acquire the program up to the first or second anniversary date, depending on whether you acquired coverage for one or two anniversaries. The coverage period for Software Maintenance acquired in the two months preceding an anniversary date will be extended to the next applicable anniversary date.

While your Software Maintenance is in effect, IBM provides you assistance for your routine, short installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. This assistance is not available to your end users. IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, consult your IBM Software Support Guide at:

http://techsupport.services.ibm.com/guides/handbook.html

Software Maintenance does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under this agreement.

For more information, about the Passport Advantage Agreement, refer to the IBM International Passport Advantage Agreement Software Announcement 201-202, dated July 10, 2001, or visit the Passport Advantage Web site at:

http://www.ibm.com/software/passportadvantage

**Other Support:** Passport Advantage

**AIX/UNIX® Upgrade Protection Applies:** No

**Entitled Upgrade for Current AIX/UNIX Upgrade Protection Licensees:** No

**iSeries™ Software Subscription Applies:** No

**Variable Charges Apply:** No

**IBM Electronic Services**

IBM Global Services has transformed its delivery of hardware and software support services to put you on the road to higher systems availability. IBM Electronic Services is a Web-enabled solution that provides you with an exclusive, no-additional-charge enhancement to the service and support on the IBM eServer™. You should benefit from greater system availability due to faster problem resolution and preemptive monitoring. IBM Electronic Services comprises two separate but complementary elements: IBM Electronic Services news page and IBM Electronic Service Agent™.

IBM Electronic Services news page provides you with a single Internet entry point that replaces the multiple entry points traditionally used by customers to access IBM Internet services and support. By using the news page, it enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The IBM Electronic Service Agent is a no-additional charge software that resides on your IBM eServer system that is designed to proactively monitor events and transmit system inventory information to IBM on a periodic customer-defined timetable. The IBM Electronic Service Agent tracks system inventory, hardware error logs and performance information. If the server is under a current IBM maintenance service agreement or within the IBM Warranty period, the Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to provide proactive service that maintains higher system availability and performance. In addition, information collected through the Service Agent will be made available to IBM service support representatives when they are helping answer your questions or diagnosing problems.

To learn how IBM Electronic Services can work for you, visit:

http://www.ibm.com/support/electronic

**Prices**

**Passport Advantage:** For Passport Advantage and charges, contact your authorized Lotus® Business Partner. Additional information is also available on the Passport Advantage Web site:

http://www.ibm.com/software/passportadvantage

**Global Financing**

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Our offerings include financing for IT acquisition, including hardware, software, and services, both from IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit the Web at:

http://www.ibm.com/financing

**Order Now**

To order, contact the Americas Call Centers or your local IBM representative.

To identify your local IBM representative, call 800-IBM-4YOU (426-4968).

**Phone:** 800-IBM-CALL (426-2255)

**Fax:** 800-IBM-FACT (242-6329)

**Internet:** ibm_direct@vnet.ibm.com

**Mail:**

The Americas Call Centers

Dept. YE001

P.O. Box 2690

Atlanta, GA 30301-2690

**Reference:** YE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

**Note:** Shipments will begin after the planned availability date.
Trademark

iSeries, IBM eServer, and Electronic Service Agent are trademarks of International Business Machines Corporation in the United States or other countries or both.
WebSphere, AIX, RS/6000, and DB2 are registered trademarks of International Business Machines Corporation in the United States or other countries or both.
Windows and Windows NT are registered trademarks of Microsoft Corporation.
UNIX is a registered trademark of the Open Company in the United States and other countries.
Lotus is a registered trademark of Lotus Development Corporation and/or IBM Corporation.
Other company, product, and service names may be trademarks or service marks of others.