IBM WebSphere Application Server for Telecom V1.3.1 Helps Service Providers and Enterprises

Overview
The WebSphere® Application Server for Telecom V1.3.1 and the IBM Telecom Toolkit for WebSphere Studio V1.3.1 help service providers and enterprises create and deploy a new class of e-business applications. Bridge 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 were custom-designed services executing on specific devices and proprietary software platforms. These services were expensive to develop, slow to market, and not portable to other hardware and software platforms. It was also expensive to modify services to support new technologies or to address targeted niche markets.

Telecom services are now more like other applications. 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 services 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 is pre-tested 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

At a Glance

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<th>WebSphere Application Server for Telecom V1.3.1 and IBM Telecom Toolkit for WebSphere Studio V1.3.1 are extensions to the WebSphere software application platform. They allow e-business applications to leverage the capabilities of the telecom network:</th>
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<tr>
<td>• Provide server support for deployment and management of value-added telecom services using WebSphere Server Advanced Edition</td>
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<tr>
<td>• Contain Toolkit support for creating and testing services using WebSphere Studio Application Developer</td>
</tr>
<tr>
<td>• Are based on open programming and telecom standards; support Java and Parlay/OSA APIs technologies</td>
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<tr>
<td>• Support integration with multiple Parlay/OSA Gateways</td>
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<tr>
<td>• Enable emerging business models that 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</td>
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<td>• Provide NLV support for certain languages</td>
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Planned Availability Date
June 27, 2003

For ordering, contact:
Your IBM representative or the Americas Call Centers at 800-IBM-CALL
Reference: YE001

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Independent software vendors (ISVs), the Telecom

The service creator, the Telecom Toolkit, who delivers

The telecommunications equipment manufacturer who

IBM Telecom Toolkit for WebSphere Studio V1.3.1 provide

WebSphere Application Server for Telecom V1.3.1 and

The telecom communications equipment manufacturer who

WebSphere Application Server for Telecom V1.3.1 and IBM

The service creator, the Telecom Toolkit, who delivers

The service creation tool set is an extension of the

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

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 a developer’s 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 V1.3.1 is the glue that binds the telecom and e-business technologies.

What is WebSphere Application Server for Telecom V1.3.1?

What it is:

• An 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

Until today, building applications and services that access or extend the telecommunication networks was very difficult. It requires a select set of skills, and knowledge of various 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 an 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

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| WebSphere Application Server for Telecom V1.3.1 and IBM Telecom Toolkit for WebSphere Studio V1.3.1, a platform for value-added telecommunications services, delivers a standards-based service creation environment based on the WebSphere middleware platform. It helps service providers and application developers make the transition from proprietary solutions based on network elements operating within the Public Switched Telephone Networks (PSTN) to those based on open programming standards. By supporting the execution of services that interoperate with existing and new networks through an industry-standard Parlay/OSA interface, service providers can deploy services that span networks. Developers can build new services using WebSphere Studio Application Developer and deploy them with WebSphere Application Server. Service creation and execution evolves from a highly specialized, platform-specific model to an open model that builds on proven technologies and products and a robust telecom foundation defined by Parlay/OSA. This new model for service creation and execution can reduce the dependency on advanced telecommunication 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 V1.3.1 and IBM Telecom Toolkit for WebSphere Studio V1.3.1 provide enablership technologies for four types of customers:

• The telecommunications equipment manufacturer who provides the Parlay/OSA gateways, WebSphere Application Server for Telecom V1.3.1 and IBM Telecom Toolkit for WebSphere Studio V1.3.1 deliver the application server portion of a services execution platform. The Telecom Server can host applications in an adjunct role to network elements.

• The service creator, the Telecom Toolkit, who delivers the service creation test and execution environments. 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.

• The telecom service provider, the Telecom Server, who delivers a rich deployment platform that integrates telecom function with e-business application middleware to create high-level services. Service providers can also use the Telecom Toolkit to create customized services for targeted customers or market segments, increasing the return on investment.

• 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 a developer’s program in selected locations. |
- 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 V1.3.1 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 V1.3.1 and IBM Telecom Toolkit for WebSphere Studio V1.3.1 is capable, 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 interoperates with it.

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Offering Information

Product information is available through:

- The Offering Information Web site:
  http://www.ibm.com/common/ssi
- 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 V1.3.1

AIX® systems

- An RS/6000® system that supports the AIX 4.3.3, or higher, 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 systems

- A Sun Sparc system that supports the Solaris 2.8, or higher, 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 V1.3.1:

- Minimum of 512 MB memory, 1024 MB RAM, or higher, recommended
- Minimum CPU speed of 800 MHz, 1.8 GHz, or higher, recommended
- Supported NIC
- 1280 x 1024, or larger, color display with a minimum of color depth of 16 bits

Software Requirements

WebSphere Application Server for Telecom V1.3.1

AIX systems

- AIX V4.3.3, or higher.
- 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 higher (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 higher (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.

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 V1.3.1: A system capable of running either:

- Windows NT® V4 or Windows® 2000
- Red Hat Linux 7.1 X86, or later

Gateway requirements

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

Performance Considerations: This announcement satisfies or partially satisfies requirements from one or more of the worldwide user group communities. Groups include Australasian SHARE/GUIDE (ASG), COMMON, COMMON Europe, GUIDE International, G.U.I.D.E. Europe, Japan GUIDE/SHARE (JGS), Guide Latin American (LAG), SHARE EUROPE, and SHARE Incorporated. Requirements satisfied include National Language support for the following countries:

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Planning Information

Customer Responsibilities: WebSphere Application Server for Telecom V1.3.1 and IBM Telecom Toolkit for WebSphere Studio V1.3.1 are now available in English, Japanese, Traditional Chinese, and Simplified Chinese. The language selection is made during the install procedure and requires no special steps on the part of the customer.

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. This program when downloaded from a Web site, contains the applicable IBM license agreement, and 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 V1.3.1 and IBM Telecom Toolkit for WebSphere Studio V1.3.1 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

This product is only available via Passport Advantage. It is not available as shrinkwrap.

Product Group: WebSphere Application Server: Product Identifier Description (PID) WAST V1.3.1 (5724-D50)

Product Category: WebSphere Products

The WebSphere Application Server for Telecom V1.3.1 charge unit is per processor.

The IBM Telecom Toolkit for WebSphere Studio V1.3.1 charge unit is per user.

WebSphere Application Server for Telecom V1.3.1

Passport Advantage

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<td>WebSphere Application Server for Telecom Processor Lic/SW Maintenance 12 month</td>
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<td>WebSphere Application Server for Telecom Processor Annual SW Maint RNWL</td>
<td>E00I7LL</td>
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<td>WebSphere Application Server for Telecom Processor SW Maintenance Reinstate 12 month</td>
<td>D51MBLL</td>
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<tr>
<td>Telecom Toolkit for WebSphere Studio User Lic/SW Maintenance 12 month</td>
<td>D51MCCL</td>
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<td>Telecom Toolkit for WebSphere Studio User Annual SW Maint RNWL</td>
<td>E00I8LL</td>
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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.

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Withdrawal of Previous Passport Advantage Part Numbers: The following International Programming License Agreement (IPLA) software part numbers are being replaced or obsoleted by this announcement. The effective withdrawal date is September 30, 2003.

Orders for these part numbers will not be accepted after the stated effective date of withdrawal, nor will normal marketing activities or educational support be available unless previous agreement exists between the customer and IBM.

Withdraw from Marketing Information

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<td>WebSphere Application Server for Telecom Version 1.3</td>
<td>BA0AHNA</td>
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<td>Telecom Toolkit for WebSphere Studio V1.3</td>
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New Release Information

The following Passport Advantage part numbers are new and are used to order Passport Advantage.

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Terms and Conditions

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**Licensing:** IPLA. Proofs of Entitlement (PoE) 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.

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

**Limited Warranty Applies:** Yes

**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, refer to the Passport Advantage Web site:

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 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 duration 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 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:

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

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Prices

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