IBM WebSphere Everyplace Server for Telecom V5.1 supports Telecom Web Services/Parlay X

Overview

The WebSphere® Everyplace™ Server for Telecom V5.1 and the included Telecom Toolkit and Telecom Web Services Toolkit for WebSphere Studio are extensions to the WebSphere software application platform. They help service providers and enterprises create and deploy a new class of e-business applications. They bridge voice and data applications, integrating telecommunications networks with enterprise IT applications and data. The Everyplace Server for Telecom 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. They were expensive to develop and modify, to support new technologies, or to address targeted niche markets. They were also slow to market and not portable to other hardware and software platforms.

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), Parlay, Parlay X Web services, and Open Mobile Alliance (OMA).

Parlay/OSA defines a set of APIs enabling IT software vendors to develop applications exploiting the current and emerging features of telecom networks. Industry-standard Parlay X specifications extend the Parlay interfaces to Web services and provide support for eight services focused on call control, messaging, location, presence, and charging and account management. Telecom services providers, enterprises, 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 and Telecom Web Services Toolkit assist developers in easily creating value-add telecom services and e-business solutions using the open standard Parlay/OSA APIs and Parlay X Web services APIs to access telecom networks.

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 Web Services Toolkit simplifies the building of applications further by adding Web services support and Parlay X interfaces into the WebSphere Studio integrated development environment. For more product information, refer to http://www.ibm.com/software/pervasive/ws_everyplace_server_telcom

Key prerequisites

- Be a Passport Advantage® customer
- WebSphere Studio Application Developer V5.1.2 for the development of applications using the toolkits

Planned availability dates

- December 17, 2004
  - Multilingual version (electronic software and documentation delivery)
  - U.S. English version (media and documentation)
- January 14, 2005, multilingual version (media and documentation)

At a glance

WebSphere Everyplace Server for Telecom V5.1 and the included Telecom Toolkit for WebSphere Studio allow e-business applications to leverage the capabilities of the telecom network and offer:

- Server support for deployment and management of value-added telecom services using WebSphere Application Server Network Deployment
- Toolkit support for creating and testing:
  - Parlay/OSA services using WebSphere Studio Application Developer
  - Telecom Web services for servers and client applications using WebSphere Studio Application Developer
- Support for Java™ and Parlay/OSA API technologies; based on open programming and telecom standards
- Implementation of Parlay X Web services specification versions 1 and 2
- Integration with multiple Parlay/OSA Gateways
- Support for emerging business models, which require a collaborative ecosystem made up of Parlay/OSA gateway from equipment providers or independent gateway providers, IBM middleware, and applications from ISVs/business partners
- National Language Version (NLV) support for selected languages

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.
WebSphere Everyplace Server for Telecom V5.1 and the included Telecom Toolkit and Web Services Toolkit for WebSphere Studio V5.1, a platform for value-added telecommunications services, delivers a standards-based service creation and execution 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. Everyplace Server for Telecom also offers industry-standard Web Services by supporting the ETSI/3GPP Parlay X specifications, integrating them with the Web Services standards supported by WebSphere Application Server. This combination offers the service provider with a consistent platform for telecom and non-telecom Web Services, with a rich infrastructure for both.

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 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 Everyplace Server for Telecom V5.1 and the included toolkits provide enablement technologies for four types of customers:

- The telecommunications equipment manufacturer who provides the Parlay/OSA gateways — WebSphere Everyplace Server for Telecom V5.1, and the Telecom Toolkit for WebSphere Studio V5.1, delivers 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, which 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, which 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 PartnerWorld®.

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 and data to deliver highly personalized services. Customers can use e-business technologies to customize these services.

WebSphere Everyplace Server for Telecom V5.1 enables e-business technology for the telecommunications industry.

What is WebSphere Everyplace Server for Telecom V5.1?

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 and Parlay X Web services 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 acts 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 client’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 applications do not require the extended function offered by the Telecom server and may be sensitive to the added network segments necessary to access the servers.

Creating Telecom Web services

Until now, 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

• 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 Everyplace Server for Telecom V5.1 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

• Support for the Parlay X standards for Telecom Web Services

• 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

• Simulators from Lucent Milife ISG SDL 3.0 or Open API Solutions Application Test Suite 1.1 can be used with the Telecom Toolkit to develop and test applications

The Everyplace Server for Telecom 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 Everyplace Server for Telecom uses open standards such as Java and Parlay/OSA to connect to the Parlay/OSA gateways.

The Everyplace Server for Telecom is pre-tested with a variety of Parlay/OSA gateways, including those offered by Ericsson and AePONA, proving the technology and helping the service provider save time in implementing and integrating the solution in the network. For more product information, visit

http://www.ibm.com/software/pervasive/ws_everyplace_server_telcom

Section 508 of the U.S. Rehabilitation Act

WebSphere Everyplace Server for Telecom is capable as of December 17, 2004, when used in accordance with IBM’s associated 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.

Trademarks

Everyplace is a trademark of International Business Machines Corporation in the United States or other countries or both.

WebSphere, Passport Advantage, 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 via the Offering Information Web site

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

Also, visit the Passport Advantage® Web site

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

Publications

No hardcopy publications are shipped with this product.

The IBM Publications Center

http://www.ibm.com/shop/publications/order

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the U.S.) or customer number for 50 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries free of charge.

The IBM Publications Notification System (PNS)

http://service5.boulder.ibm.com/pnsregenafs/messages/welcome

PNS enables subscribers to set up profiles of interest by order number/product number. PNS subscribers automatically receive e-mail notifications of all new publications defined in their profiles. These may then be ordered/downloaded from the Publications Center.

The PNS site is available in English and Canadian French.

Technical information

Hardware requirements

Server hardware requirements

Refer to the WebSphere® Everyplace™ Server for Telecom V5.1 documentation for the latest installation requirements.

AIX® systems:

- An RS/6000® system that supports the AIX V5.2, or later
- Minimum of 1 GB memory, 4 GB recommended
- Minimum CPU speed of 1 GHz, 2 GHz, or greater, recommended
- Multiprocessor system recommended

Supported network interface card (NIC)

1024 x 768, or larger, color display with a minimum color depth of 16 bits

Linux™ systems:

- A system that supports one of the following:
  - Red Hat Enterprise Linux ES 3.0 Update 1
  - SUSE LINUX Enterprise Server (SLES) 8
- Minimum of 1 GB memory, 1.5 GB, or greater, recommended
- Multiprocessor system recommended
- Supported NIC
- 1024 x 768, or larger, color display with a minimum color depth of 16 bits

Solaris systems:

- A Sun Sparc system that supports the Solaris 2.9, or later
- Minimum of 1 GB memory, 4 GB recommended
- Multiprocessor system recommended
- Supported NIC
- 1024 x 768, or larger, color display with a minimum color depth of 16 bits

Toolkit hardware requirements

For Microsoft™ Windows™ or Linux systems

The development environment typically includes the following minimum hardware:

- A system capable of running one of the following:
  - Microsoft Windows 2000 Professional SP2, or later
  - Microsoft Windows XP Professional SP1, or later
  - Red Hat Linux 8.0 x86
  - SUSE LINUX, V8.1
- Minimum of 512 MB memory, 1024 MB RAM, or greater, recommended
- Minimum CPU speed of 800 MHz, 1.8 GHz, or greater, recommended
- Supported NIC
- 1280 x 1024, or larger, color display with a minimum color depth of 16 bits

Software requirements

Server software requirements

Refer to the WebSphere Everyplace Server for Telecom V5.1 documentation for the latest installation requirements.
AIX systems:
- AIX V5.2, or later
- One of the following:
  - DB2® V8.1 with Fixpack 6 (included in this offering)
  - Oracle 9i Standard/Enterprise Release 2 — 9.2.0.4
- You must have WebSphere Application Server V5.1 with Fixpack 1 (included in this offering)

Linux systems:
- A system that supports one of the following:
  - Red Hat Linux 3.0 EL
  - SLES 8
  - Plus one of the following:
    - DB2 V8.1 with Fixpack 6 (included in this offering)
    - Oracle 9i Standard/Enterprise Release 2 — 9.2.0.4
- You must have WebSphere Application Server V5.1 with Fixpack 1 (included in this offering)

Solaris systems:
- Solaris V2.9, or later (refer to the requirements for WebSphere Application Server)
- DB2 V8.1 with Fixpack 6, or later (included in this offering), or Oracle 9i Standard/Enterprise Release 2 — 9.2.0.4
- You must have WebSphere Application Server V5.1 with Fixpack 1 (included in this offering)

Note: Examples of database usage in the documentation assume DB2

Toolkit software requirements
For development systems, the following software is required:
- WebSphere Studio Application Developer V5.1.2
  - Note: WSAD V5.1.2 must be operating in a WAS V5.1.1 environment

One of the following:
- Windows 2000 Professional SP2, or later
- Windows XP Professional SP1, or later
- Red Hat Linux, V8.0
- SUSE LINUX, V8.1
  - Note: Limited to SUSE LINUX operating in single byte character set (SBCS) mode

One of the following:
- DB2 Universal Database® V8.1, Fixpack 6
- Oracle 9i Standard/Enterprise Release 2 — 9.2.0.4
- Cloudscape V5.1

For the latest installation requirements, refer to the WebSphere Studio Application Developer README.html.

Server Gateway requirements
The following are the Gateway requirements:
- Parlay Simulators
  - Lucent MiLife ISG SDK V3.0 and V4.0
- Open API Solutions Application Test Suite V1.1
- Ericsson NRG 3.0
- Parlay Gateways
  - AePONA Causeway Parlay Gateway, V2.1
  - Alcatel 8601 Parlay/OSA Gateway
  - Ericsson NRG 3.0
  - Herit Open Service Platform, Parlay Gateway
  - INEx Parlay Gateway V2.1
  - Lucent MiLife ISG V3.0 and V4.0
  - Open API Solutions Framework V1.1
  - Telcordia Open Services Platform

Limitations: The Toolkit is not supported when using SUSE LINUX in a double byte character set (DBCS) mode.

Both WebSphere Application Server and DB2 are provided on a restricted-use basis. To review a copy of the license for WebSphere Everyplace Server for Telecom V5.1, visit

http://www.ibm.com/softwaresla

Performance considerations: Refer to the IBM Telecom Toolkit for WebSphere Studio performance tuning guide.

Planning information
Customer responsibilities: It is strongly recommended that each customer develop an integration plan for WebSphere Everyplace Server for Telecom V5.1, including an appropriate integration services agreement with IBM Global Services or other capable integration service provider.

Contact your Pervasive Computing Division representative or IBM Global Services representative for more help with determining the best solution for your specific environment.

Everyplace professional services: To get the most from IBM Everyplace products, we recommend employing skilled services personnel. Call your IBM software sales specialist today to find out more about installation and integration services available from IBM and from IBM Everyplace-skilled Business Partners.

Packaging: WebSphere Everyplace Server for Telecom V5.1 is distributed electronically and on a CD-ROM. The CD-ROM packaging includes:
- Softcopy License Information and International Program License Agreement
- Product code for:
  - WebSphere Everyplace Server for Telecom V5.1
  - Telecom Toolkit for WebSphere Studio V5.1
  - Telecom Web Services Toolkit for WebSphere Studio V5.1
  - WebSphere Application Server Network Deployment V5.1.1 (refer to Note #1)
  - DB2 V8.1 Fixpack 6 (refer to Note #1)
- Product publications in softcopy (refer to the Publications section)

Note 1: Both WebSphere Application Server and DB2 are provided on a restricted-use basis. To review a copy of the license for WebSphere Everyplace Server for Telecom V5.1, visit

http://www.ibm.com/softwaresla
For electronic distribution, 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 V5.1, the IBM Telecom Toolkit for WebSphere Studio V5.1, and the IBM Telecom Web Services Toolkit for WebSphere Studio V5.1 use 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 information**

<table>
<thead>
<tr>
<th>Licensed function title</th>
<th>Product group</th>
<th>Product category</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebSphere Everyplace Server for Telecom</td>
<td>IBM Pervasive Computing Division</td>
<td>WebSphere Everyplace Service Delivery</td>
</tr>
</tbody>
</table>

**Passport Advantage program licenses**

**WebSphere Everyplace Server for Telecom**

<table>
<thead>
<tr>
<th>Part description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEST Per Processor SW Maintenance Annual Renewal</td>
<td>E01GNLL</td>
</tr>
<tr>
<td>WEST Per Processor License &amp; SW Maintenance 12 Months</td>
<td>D548VLL</td>
</tr>
<tr>
<td>WEST Per Processor SW Maintenance Reinstatement 12 Months</td>
<td>D548WLL</td>
</tr>
</tbody>
</table>

**Passport Advantage supply**

**WES-T V5.1 V5.1.0**

<table>
<thead>
<tr>
<th>Part description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media Pack English U.S. Solaris (SUN Microsystems), AIX V5.x, Linux for x86Series Intel-based servers CD-ROM Digital Disk — ISO 9660 Standard V5.1.0</td>
<td>BK06WNA</td>
</tr>
<tr>
<td>Media Pack Multilingual (French, Korean, Chinese — Simplified, Spanish, Brazilian Portuguese, German, Japanese, Chinese — Traditional, English U.S., Italian) Solaris (SUN Microsystems), AIX V5.x, Linux for x86Series Intel-based servers CD-ROM Digital Disk — ISO 9660 Standard V5.1.0</td>
<td>BK06XML</td>
</tr>
</tbody>
</table>

**Passport Advantage customer: Media pack entitlement details**

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

**WES-T V5.1 V5.1.0**

<table>
<thead>
<tr>
<th>Entitled maintenance offerings description</th>
<th>Media packs description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebSphere Everyplace Server for Telecom Processor</td>
<td>WebSphere</td>
<td>BK06WNA</td>
</tr>
<tr>
<td></td>
<td>U.S. Solaris (SUN Microsystems), AIX V5.x, Linux for x86Series Intel-based servers CD-ROM Digital Disk — ISO 9660 Standard</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WebSphere</td>
<td>BK06XML</td>
</tr>
<tr>
<td></td>
<td>Multilingual (French, Korean, Chinese — Simplified, Spanish, Brazilian Portuguese, German, Japanese, Chinese — Traditional, English U.S., Italian) Solaris (SUN Microsystems), AIX V5.x, Linux for x86Series Intel-based servers CD-ROM Digital Disk — ISO 9660 Standard</td>
<td></td>
</tr>
</tbody>
</table>

**On/Off Capacity on Demand**

**WebSphere Everyplace Server for Telecom**

<table>
<thead>
<tr>
<th>Part description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEST Processor Day Per Use-DAY, On Off Capacity on demand Temporary Use</td>
<td>D54JALL</td>
</tr>
</tbody>
</table>

**Terms and conditions**

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

**Licensing:** IBM International Program License Agreement. 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.

**License information form number**

<table>
<thead>
<tr>
<th>Program name</th>
<th>Program number</th>
<th>Form number</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebSphere Everyplace Server for Telecom</td>
<td>5724-J02</td>
<td>L-DCHN-634KRH</td>
</tr>
</tbody>
</table>

**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 and through the Passport Advantage Web site at
http://www.ibm.com/software/passportadvantage

Usage restriction: Yes

Refer to the following Web site to review a copy of the license for WebSphere Everyplace Server for Telecom V5.1
http://www.ibm.com/software/sla

IBM Operational Support Services — Support line: No

iSeries™ software subscription applies: No

On/Off capacity on demand

To be eligible for On/Off Capacity on Demand pricing, customers must be enabled for temporary capacity on the corresponding hardware, and the required contract — Z125-6907, Amendment for iSeries and pSeries® Temporary Capacity On Demand — Software — must be signed prior to use.

Prices

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner. Additional information is also available at
http://www.ibm.com/software/passportadvantage

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

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

Trademarks

Everyplace and iSeries are trademarks of International Business Machines Corporation in the United States or other countries or both.

Passport Advantage, WebSphere, AIX, RS/6000, DB2, DB2 Universal Database, and pSeries are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

Intel is a trademark of Intel Corporation.

Microsoft and Windows are trademarks of Microsoft Corporation.

Linux is a trademark of Linus Torvalds in the United States, other countries or both.

Other company, product, and service names may be trademarks or service marks of others.