IBM WebSphere Telecom Application Server and Toolkit V1.2 Delivers Enhanced Services for Enterprise Applications and Data

Overview
WebSphere Telecom Application Server helps lower the cost of developing and deploying new intelligent applications while reducing the time to market for telecom and other service providers. Telecom service providers can protect their investment in legacy Public Switched Telephone Networks (PSTN) while bridging to next-generation IP networks of wireless, cable, and broadband.

WebSphere Telecom Application Server can help you create and deploy a new class of e-business applications that bridge voice and data applications, bringing together and integrating telecommunications networks with enterprise IT applications and data.

Used in conjunction with WebSphere Studio Application Developer, the toolkit helps you easily create value-add telecom services and e-business solutions that make use of the open standard Parlay APIs to access telecom networks.

The application server extends WebSphere Application Server, enabling a robust services platform for the delivery of new integrated e-business services that can access and use telecom networks.

The server uses open standards such as Java and Parlay/OSA to connect to the Ericsson Jambala Service Capability Server Gateway for connectivity to the PSTN (CSI+) and wireless (CAPv2, GSM) networks.

For more product information, visit:

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
October 11, 2002

At a Glance
WebSphere Telecom Application Server and Toolkit V1.2 delivers:

- Server support for deployment of new intelligent services using WebSphere Server Advanced Edition
- Toolkit support for creating services using WebSphere Studio Application Developer
- Java and Parlay/OSA V2.1 protocol support
- Services may be made available based on your needs and the availability of skills to:
  - Extend the server by adding new protocols
  - Integrate applications with existing systems or develop new systems

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Reference: YE001

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WebSphere Telecom Application Server and Toolkit V1.2 is the glue that binds the telecom and e-business technologies.

What Is WebSphere Telecom Application Server and Toolkit V1.2?

What it is:
- Application server that hosts enhanced services, managing their run-time execution
- An IP-based server, deployed within a service provider network
- A server based on Parlay telecom standard
- An interface to standards-based Internet platforms implementing application server components such as servlets, JSPs, and Enterprise JavaBeans (EJBs)
- 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 server serves as a host for enhanced services; for example, it can host applications 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 such as 800-number (free) phone translation or critical, five-nines services such as 911 (emergency) calls. These types of applications do not require the extended function offered by the application server and toolkit, 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 TAPI and TSAPI.

To make the creation and execution of telecom services 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 creation
- An environment available to developers within the telecom industry and to enterprise and independent developers
- A deployment infrastructure based on open standards that enables a robust, managed environment supported across a variety of platforms
- Integration services for service providers and enterprises to use in rapidly building, installing, and deploying new services

WebSphere Telecom Application Server and Toolkit V1.2 provides enablement technologies for four types of customers:
- For the telecommunications equipment manufacturer, it delivers the application server portion of an execution platform. It can host applications in an adjunct role to network elements.
- For the application creator, it delivers creation and execution environments on rich foundations. The application creation tool set is an extension of the WebSphere Studio tool set. Provisioning interfaces are built using JavaServer Pages (JSPs) with WebSphere Studio. Deployment packaging is provided directly from WebSphere Studio.
- For the telecom service provider, it delivers a rich deployment platform that integrates telecom function with IT middleware to create high-value applications. The service provider can purchase applications off the shelf from third-party vendors building to an industry-standard platform. Application providers use the same tool set as the application vendor to create customized versions of services for individual customers.
- For independent software vendors (ISVs), it offers new ways to extend existing applications to take advantage of the telecom network. 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 benefit available in selected IBM Solution Partnership Centers.

The next generation of enhanced services combines the routing knowledge and connection capabilities of the telecom network with personal and corporate knowledge to deliver highly personalized services. You can use e-business technologies to customize these applications.
• Customization of services for developers with programming skills and telecom service knowledge, but without telecom network equipment or SS7 skills
• High-value application customization through the integration of telecom capabilities with service provider, enterprise, and individual customer data

WebSphere Telecom Application Server and Toolkit V1.2 addresses these areas with:
• Support for the Parlay/OSA standards defined by a large cross-section of telecom industry manufacturers, service providers, and software providers
• Industry-leading Java Virtual Machines with a focus on reliability and performance to ensure Java-based solutions are deployable for real world use by service providers and enterprises
• WebSphere Studio Application Developer programming tool set, widely recognized for its high-productivity programming environment, including source code management, rapid development, testing, and debugging
• WebSphere Application Server, a market leader in the delivery of Java server technologies including servlets, JSPs, and EJBs, widely used across many industries for mission critical e-business applications
• Availability of telecom services specialists through IBM Global Services and business partners in the telecom industry ready to integrate the server and toolkit in existing networks and to create new services for service provider and enterprises
• Industry-standard tools, manufacturers, service providers, ISVs, ASPs, and enterprises that extend and customize services to create new value-added services

WebSphere Telecom Application Server and Toolkit V1.2 is built on the experience and knowledge of telecom industry-standards organizations and experience.

Who Uses WebSphere Telecom Application Server and Toolkit V1.2?

• Service creation developer:

  Designs and implements services using the toolkit and Parlay protocol APIs

• Web provisioning interface developer:

  Designs and creates the Web-based provisioning interface for the service (if it has one)

• Server administrator:

  Installs and maintains the application server including the addition of new services and removal of old services; also manages Web application servers that might host provisioning applications

These roles can be carried out by separate people or by the same person, depending on the organization.

One or two developers can assume the three primary roles, and develop and deploy in a local configuration. For example, a service creation developer might have a development workstation and server, and a Web provisioning interface developer might have a workstation and share the service creation developer’s server. The server would host both the Parlay and Web application servers, and the two people would likely share the administration duties.

Summary

WebSphere Telecom Application Server and Toolkit V1.2 is the next stage in the evolution of enhanced services hosting. It delivers not only a new platform, but also a new concept of what enhanced services can do.

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Offering Information

Product information is available through Offering Information (OITOOL) at:

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

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 (LI).

Technical Information

Hardware Requirements

For the toolkit:
IBM, or equivalent, PC with Intel® Pentium® III/AMD processor at 500 MHz, or higher, with a minimum of:
- 512 MB memory
- 30 MB free disk space after software prerequisites are installed
- CD-ROM
- Video card
- Display capable of 1024 x 768 x 16, or higher
- Keyboard
- Mouse

For the server:
IBM @server pSeries™, Intel, or Sun Sparc systems (recommended configuration for deployment is at least two systems — one for backup purposes) with a minimum of:
- 300 MHz processor server
- 1 GB memory on each server
- 20 MB free disk space after software prerequisites are installed
- Network adapter such as an Ethernet card
- CD-ROM
- Monitor display
- Graphics adapter
- Keyboard
- Mouse

Software Requirements

For the toolkit:
- Windows NT® Workstation 4.0 Service Pack 6, or higher, or Windows® 2000 Service Pack 1 or Linux Red Hat 7.2
- WebSphere® Studio Application Developer V4.0
- DB2 Universal Database® (UDB) Enterprise Edition V7.2
- Ericsson OSA/Jambala Simulator (for predeployment testing of service)

For the server:
- AIX® V4.3.3, AIX V5.1, Sun Solaris V2.8, or Linux Red Hat 7.2
- DB2 UDB Enterprise Edition V7.2
- WebSphere Application Server Enterprise Edition V4.0

In the Public Switched Telecom Network: Ericsson Jambala Service Capability Server V1.0 Parlay Gateway

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 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 Telecom Application Server and Toolkit V1.2 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

- The WebSphere Telecom Application Server V1.2 charge unit is per processor.
- The WebSphere Telecom Application Toolkit V1.2 charge unit is per user.
WebSphere Telecom Application Server

**Part Description Number**
- WebSphere Telecom Application Server — D51M9LL Lic/SW Maintenance 1 Anniv
- WebSphere Telecom Application Server — D51MALL Lic/SW Maintenance 2 Anniv
- WebSphere Telecom Application Server — E007LL SW Maintenance Rnwl 1 Anniv
- WebSphere Telecom Application Server — D51MBLL SW Maintenance After License 1 Anniv
- WebSphere Telecom Application Server Toolkit — D51MCLL Lic/SW Maintenance 1 Anniv
- WebSphere Telecom Application Server Toolkit — D51MCLL Lic/SW Maintenance 2 Anniv
- WebSphere Telecom Application Server Toolkit — E007LL SW Maintenance Rnwl 1 Anniv
- WebSphere Telecom Application Server Toolkit — D51MELL SW Maintenance After License 1 Anniv

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Note: Shipments will begin after the planned availability date.

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