



IBM WebSphere software delivers new and enhanced telecommunications service enablers supporting a flexible, modular services delivery platform

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At a glance

- WebSphere XML Document Management Server (XDMS) V6.2
- WebSphere IMS Connector V6.2
- WebSphere Presence Server V6.2
- WebSphere Telecom Web Services Server V6.2

Select WebSphere software leverages the principles of a service-oriented architecture (SOA), new and enhanced WebSphere software enables a flexible, modular execution platform for next-generation telecommunications services:

- WebSphere XDMS is a new enabler that supports network-based documents such as group lists, user profiles, contact information, authorization rules, and policy data that can be used across applications and services.
- WebSphere IMS Connector V6.2 extends Diameter support with the IMS reference point Ro, enhances security by adding Trust Association Interceptors (TAI), and bundles SNMP capabilities for support of performance statistics.
- WebSphere Presence Server V6.2 adds performance and functional enhancements, including standards-based authorization rules for privacy, features to minimize network traffic, and support for non-standard sources of presence.
- WebSphere Telecom Web Services Server V6.2 extends its broad portfolio of telecom Web services for current and next-generation IP Multimedia Subsystem (IMS) networks with new Parlay X 2.1 compliant implementations for MMS messaging and Address List Management, new implementation options for Parlay X 2.1 Location to support Open Mobile Alliance Mobile Location Protocol and a new Wireless Application Protocol (WAP) Push-based Web Service.

For ordering, contact:

Your IBM representative or the Americas Call Centers at

800-IBM-CALL Reference: YE001

Overview

Business and consumer markets alike are increasingly demanding more from communications service providers, such as:

- Incorporation of richer, multimedia-based content
- Seamless access to communication resources across both fixed and mobile devices

- Bundling of various services such as television, broadband access and voice telephony into single offerings

The proliferation of IP technologies such as Session Initiation Protocol (SIP) and the development of open standards, like the IMS™ framework and Parlay X Web services, deliver a means for communications service providers to answer these demands while overcoming challenges of inflexible legacy infrastructure. By leveraging these technologies, service providers can migrate towards a single platform to support all types of applications or communications traffic — voice, video or data — over both fixed and mobile networks.

New and enhanced telecom service enablers from WebSphere® software

Based upon the principles of a service-oriented architecture (SOA), WebSphere IP Multimedia Subsystem (IMS) Connector V6.2, WebSphere Presence Server V6.2, WebSphere Telecom Web Services Server V6.2, and WebSphere XML Document Management Server V6.2 deliver modular, IP-based service enablers. They can help minimize the cost and time to deliver rich, composite services to market:

- **WebSphere IMS Connector** can enable applications running on the WebSphere Application Server platform to interact with IMS core network elements for functions like call control, call charging and subscriber management.
- **WebSphere Presence Server** collects, manages, and distributes real-time information about access, availability, and willingness to communicate across applications.
- **WebSphere Telecom Web Services Server** delivers a standards-based gateway for providing and managing third-party access to Telecom network capabilities and information.
- **WebSphere XML Document Management Server (XDMS)** enables users and administrators to define and manage network-based documents such as group lists, user profiles, contact information, authorization rules, and policy data.

Key prerequisites

For details, refer to the Hardware requirements and Software requirements sections.

Planned availability dates

- October 31, 2007 (electronic software delivery)
- November 21, 2007 (media and documentation)

Description

WebSphere IMS Connector, WebSphere Presence Server, WebSphere Telecom Web Services Server, and WebSphere XDMS are high-performance service execution enablers that can help services providers to quickly and efficiently deliver rich, next-generation communications services to market.

WebSphere IMS Connector V6.2

WebSphere IMS Connector adds IMS-specific interfaces to the industry-leading WebSphere Application Server V6.1 platform to deliver a fully IMS standards-compliant SIP application server.

With support for IMS-ready HTTP and SIP applications on a single platform, WebSphere IMS Connector, together with WebSphere Application Server, can enable truly converged IMS applications to be built and deployed on a single service execution platform. This can help customers and business partners reduce the complexity and cost of their IMS solutions.

WebSphere IMS Connector adds two key IMS-compliant interface elements, as defined by the 3rd Generation Partnership Project (3GPP) and Internet Engineering Task Force (IETF) to the WebSphere Application Server platform:

- **IMS Session Control (ISC) interface** that enables standards-based connectivity to Call/Session Control Functions (CSCF) in the IMS control plane
- **Diameter stack and interfaces** that support subscriber management and charging functions

in accordance with IMS standards for reference points Sh, Ro, and Rf.

The **ISC interface** in WebSphere IMS Connector can enable session control, supporting communications between the applications running on WebSphere Application Server and the different CSCFs of the IMS control plane. It allows SIP parameters, including the IMS specific private headers, to be presented to the applications.

The bi-directional ISC interface support in WebSphere IMS Connector can also help maximize application flexibility by allowing for applications to be deployed in the roles of originating, terminating, and back-to-back user agents.

The **Diameter stack and interfaces** in WebSphere IMS Connector provide easy-to-use connectivity to subscriber management and billing systems. They include support for standard Sh reference point for subscriber profile management, support for standard Ro reference point for online charging and support for standard Rf reference point for offline charging, as defined by 3GPP standards.

- Through support of the Sh reference point, IMS service plane applications can reliably manage, with security, subscriber profiles from and to the Home Subscriber Server (HSS) in the service provider environment. With the support for asynchronous notifications, the application can react to real time subscriber profile changes.
- Through support of the Rf offline charging reference point, IMS service plane applications can reliably support post-paid business models for service usage with enhanced security.
- Through support of the Ro online charging reference point, IMS service plane applications can reliably support pre-paid (credit-based) business models for service usage with enhanced security.

As a binary protocol, the standardized Diameter protocol and interfaces are complex. WebSphere IMS Connector can help reduce this complexity and simplify the job of an IMS application developer by providing easy-to-use Web services APIs for the Diameter functions. These simple Web services abstractions hide the complexities of interfacing with the Diameter elements and can also act as component APIs for service orchestration and choreography in a SOA deployment. Additional flexibility is built in to customize the Ro and Rf framing allowing the service developer the ability to address changes in specifications and implementations of the Diameter reference points. This enhances the ability of the Diameter stack to easily plug in to existing charging systems.

Security is enhanced with the introduction of the IMS Security Trust Association Interceptor (TAI). The TAI provides an efficient mechanism to take advantage of the authentications previously performed at the boundaries of the SIP and HTTP networks.

Release 6.2 also supports the management of IMS statistical performance information through the Netcool /SSM 4.0 SNMP agent and subagent support for WebSphere 6.1.

IBM actively engages with Network Equipment Providers (NEPs) around interoperability of the WebSphere IMS Connector with IMS core network elements provided by the NEPs. IBM also helps to enable Business Partner applications from NEPs and independent software vendors on the flexible WebSphere software based IMS application platform. In addition, IBM helps accelerate the development of IMS applications with SIP servlet and WebSphere Telecom Toolkit available at no charge.

WebSphere Presence Server V6.2

WebSphere Presence Server is a stand-alone, carrier-grade, IMS-compliant server that collects, manages, and distributes real-time information regarding the access, availability, and willingness to communicate of users. It enables the extension of various service provider applications and services to include collaboration information about how to best reach people.

WebSphere Presence Server provides carrier grade capabilities, standards compliance, and service provider extensions that can be integrated across wireline and wireless networks. Leveraging experience from proven IBM-presence technologies, WebSphere Presence Server consolidates presence information across disparate devices, applications, and network elements. WebSphere Presence Server can enhance and increase their service offerings because it supports legacy and next-generation networks, allowing a seamless transition regardless of the network as service providers.

WebSphere Presence Server can help enable service providers to:

- Increase the intelligence and capabilities of applications, thereby increasing the value to you and revenue opportunity for service providers

- Improve efficiency and speed time to market for new services by providing independent presence and group lists servers that can span all applications and services
- Enhance productivity offerings through the integration of presence information with applications such as address books and conferencing
- Simplify the management of and reduce the cost of aggregating presence information across disparate devices, applications, and network elements

WebSphere Presence Server is application and service independent. It can enable the integration of presence information from both client and external presence providers, such as external registrars, location servers, and calendar systems. It supports standard presence information data format (PIDF) and standardized extensions such as the rich presence information data (RPID). WebSphere Presence Server is also flexible to support new application or user defined attributes or information without any change to the Presence Server. This can include information for emerging services such as video conferencing, IPTV, or social networking.

User Agents and applications can interface via standards-based SIP requests as defined by the IETF: Publish, Subscribe, and Notify. WebSphere Presence Server supports group list and presence authorization rules through standards-based XML Configuration Access Protocol (XCAP) and SIP.

WebSphere Telecom Web Services Server V6.2

The changing telecommunications market is driving service providers to look for new revenue-generating services to meet market demands for more content-rich and customized services. Their business is rapidly changing from providing customers a relatively small number of hosted services to a Web 2.0 model of offering services from many third parties that utilize easy-to-use telecom services exposed by the service provider to create new innovative and highly personalized services.

WebSphere Telecom Web Services Server (TWSS) is a SOA-based platform for third-party, standards-based access to telecom network capabilities, helping enable service providers to:

- Retain high-value customers by offering them the new services they demand by tapping into the innovation and creativity of third-party developers
- Offer new revenue generating services and implement new business models to more effectively compete against emerging communications alternatives
- Protect underlying network resources from unauthorized access and overload with security-rich, policy-based access and effective service level agreement (SLA) enforcement capabilities

WebSphere Telecom Web Services Server enables service providers to provide third-party application developers a single, common entry point for Web services access to network services. It provides service providers a control point for network access authorization and enforcement of SLAs, enabling them to offer differentiated services while protecting their network assets.

WebSphere Telecom Web Services Server provides a broad portfolio of telecom Web services leveraging a range of network connectivity options. WebSphere Telecom Web Services Server V6.2 expands its existing portfolio of Telecom Web service implementations with new Parlay X 2.1-based Web services for MMS Messaging and Address List Management, a new Wireless Application Protocol (WAP) Push Web Service, and new implementation options for terminal location services through direct connect to service provider network infrastructures supporting the Open Mobile Alliance Mobile Location Protocol (OMA MLP). These new services complement existing presence, call control, payment, terminal location and SMS messaging related services supporting a variety of network connection options for current and next-generation IMS/SIP networks.

Extending telecom network service capabilities to third parties expands service innovation by enabling service providers to take advantage of a broad third-party developer community, while at the same time extending the value of both existing and new next generation telecom network investments. WebSphere Telecom Web Services Server enables service providers to deliver third parties controlled, reliable access to telecom network capabilities. Third-party application developers can enhance consumer and enterprise applications by using valuable service provider network services such as location, messaging and presence through standards-based Parlay X Web services.

To help ensure service quality as the number of third-party applications grow, WebSphere

Telecom Web Services Server provides a common control point for service providers to define, manage, and enforce policies and SLAs for third-party services and subscribers. The service provider controls which applications and which users have access to which network services and under what conditions.

WebSphere Telecom Web Services Server is comprised of three major components:

- Front-end telecom Web services access gateway
- Service Policy Manager
- Back-end service implementations

The **telecom Web services access gateway** provides policy-driven service authorization, SLA management, and traffic management capabilities. These are enforced for each Web service request based on the requestor, target service, and invoked operation.

The access gateway is built upon WebSphere Enterprise Service Bus (ESB), which provides the flexibility to tailor Web service messages processing in accordance with the telecom service provider network policies. The access gateway delivers pluggable ESB components, each designed to serve a specific purpose, including:

- Policy retrieval — Retrieves subscriber and service policy data, which is used by downstream ESB components and back-end service implementations for policy-based decision making during service execution
- Service authorization — Authorizes requests based on policy information retrieved by examining the requestor, service requested, and operation
- SLA enforcement — Measures system use by requestor and service to enforce policy-driven service level agreements and manage admission control
- Group resolution — Enables Web services that accept group universal resource identifiers (URIs) within a list of targets for a given operation and ensures the number of targets is accounted for in SLA enforcement and traffic management
- Network statistics — Records Web service message statistics in a database that can be used by network operations to construct service traffic reports for network analysis and capacity planning

The service policy manager provides an extensible repository for service and requestor policies enabling highly scalable granular policy enforcement at the requestor, service or operation level. The hierarchical service policy structure allows service providers simplified policy administration of services and requestors by groups or sub-groups while also enabling granular policy administration at the individual service, operation or request level to provide highly personalized services. In WebSphere Telecom Web Services Server V6.2, a new user interface is available as an additional alternative to the existing Web service interface for administering policies.

The **Web service implementations** component in WebSphere Telecom Web Services Server delivers Web service interfaces compliant with Parlay X 2.1 Web Services standards for accessing service provider network functions. The WebSphere Telecom Web Services Server V6.2 portfolio of Parlay X Web Services include implementations that use a Parlay standard-compliant gateway from major Telecom Network Equipment providers and implementations connecting directly to telecom network elements. The new Parlay X 2.1 Web Services include:

- Terminal location supporting connection via OMA MLP
- Terminal status Web service supporting connection via the Parlay Gateway Mobility API
- Address list management via XCAP

These new Parlay X 2.1 Web Services complement existing IMS and SIP infrastructure-supporting service implementations in WebSphere Telecom Web Services Server including:

- Third-party call supporting the IMS Session Control (IMS ISC) interface through WebSphere IMS Connector
- Call notification supporting the IMS ISC interface through WebSphere IMS Connector
- Presence for WebSphere Presence Server

- Terminal status for WebSphere Presence Server
- Terminal location supporting connection via the Parlay Gateway Mobility API
- SMS supporting connection via the Parlay Gateway Multimedia Messaging API
- SMS supporting network connection via SMPP 3.4

The WebSphere Telecom Web Services Server Parlay X Web services also use a set of common functions built into the service implementations to deliver service providers additional network protection and operational support. These common functions include platform admission control, traffic shaping to downstream network elements, Parlay X notification delivery, faults and alarms, service usage records, and privacy enforcement.

Building on the capabilities of the IBM Rational® Application Developer, IBM also delivers a Telecom Web Services Toolkit to assist developers in easily creating value-add telecom services and e-business solutions using the open-standard Parlay X Web services to access telecom networks. The Telecom Web Services Toolkit helps simplify the building of applications by adding Web services snippets, sample applications and simulators into the IBM Rational Application Developer integrated development environment. It puts telephony functions into the hands of IT professionals and helps lower development costs and speed time to market for new services.

WebSphere XDMS V6.2

WebSphere XDMS offers an application- and service-independent way to manage XML documents of any type, including group lists, user profiles, contact information, authorization rules, and policy data. It is built on the highly reliable, highly available WebSphere platform and it complies with support for telecommunications standards and next-generation frameworks.

WebSphere XDMS is application and service independent. Unlike offerings that only use group-list or profile information within siloed applications, WebSphere XDMS helps service providers integrate XML-based information across applications and services. It supports the integration of XML-based information to and from any standards-based client, application, or external provider, such as address books, call routing servers, and instant messaging clients.

WebSphere XDMS complies with Internet Engineering Task Force (IETF), Open Mobile Alliance (OMA), European Telecommunications Standards Institute (ETSI) and 3GPP standards. As a result, it helps companies achieve widespread integration between multivendor applications, devices, and network infrastructure.

Service providers can use WebSphere XDMS to share XML documents across any standards-based application. For example, group information from one instant messaging application vendor can be displayed and manipulated in another contact book application vendor. This degree of flexibility supports efforts to simplify and improve the customer experience for end users. And service providers can facilitate integration of new applications and services without recreating common information.

WebSphere XDMS can store and manage any XML document. Examples of XML documents commonly used for services are:

- Group lists
- User profiles
- Contact information
- Authorization rules
- Policy data

Service providers and vendors can expand the capabilities by adding additional document types. For example, a service provider could enable its applications to utilize common network address book documents. WebSphere XDMS also includes pre-built document enablers based on OMA standards, including shared list, resource list, and presence rules, as well as an OMA-compliant Aggregation Proxy.

WebSphere XDMS implements standards-based XCAP (HTTP) for document creation, management and retrieval. WebSphere XDMS utilizes SIP for subscriptions and notifications about document changes.

WebSphere XDMS can also be extended to support Web service interfaces through an external enabler. WebSphere Telecom Web Services Server can interoperate with WebSphere XDMS to provide Parlay X 2.1 Web services for Address List Management. WebSphere Telecom Web

Services Server enables you to provide third-party application developers with Web services access to network services via a single, common entry point.

To facilitate efficient management and help protect the private data that can be part of the XML documents you manage, WebSphere XDMS provides detailed privacy controls. Advanced tiered authorization can be specified at domain, directory, or document levels. WebSphere XDMS also allows for detailed customization on the type of access allowed for individual users or administrators. For example, a user may have the right to fully administer one document but only view another. The authorization policy documents are created and managed through the standard XCAP interface for easy programmatic management of the access control lists.

Building on converged J2EE/SIP application server

WebSphere IMS Connector, WebSphere Presence Server, WebSphere Telecom Web Services Server, and WebSphere XDMS all build upon WebSphere Application Server V6.1. WebSphere Application Server is an industry-leading J2EE application server with open standards based extensions including portlets (JSR-168), Service Data Objects (SDOs), Java™ Server Faces (JSF), Asynchronous Beans, caching support, and many other APIs. It also includes industry-leading IBM Web services support.

WebSphere Application Server V6.1 integrates SIP functionality into its foundation, providing industry-leading converged SIP-HTTP application support. Through an implementation of JSR-116, WebSphere Application Server V6.1 delivers a platform for developing and delivering SIP-based applications that can receive, process, and send SIP messages, in addition to its market-leading HTTP and Portlet support.

Traditionally, HTTP Servlets would be run in the Web Container and SIP Servlets would be run in the SIP Container. In WebSphere Application Server V6.1, the Web Container and SIP Container are converged and share session management, security, and other attributes.

In this model, an application which includes SIP Servlets, HTTP Servlets, and/or portlets is able to seamlessly interact regardless of the protocol. Also, the converged proxy server in WebSphere Application Server V6.1 handles both HTTP and SIP messages, enabling shared session management and a protocol agnostic application session failover. In this manner, session failover is also done with affinity to the application, meaning that the sessions will be tied together in a failover scenario automatically without having to use a database for session information.

For more information about WebSphere Application Server V6.1, refer to

<http://www.ibm.com/software/webservers/appserv/was/>

IBM also delivers tightly-integrated converged SIP-HTTP tooling, available in the WebSphere Application Server Toolkit (AST) that comes free with WebSphere Application Server V6.1 and IBM Rational Application Developer V7.0. A free, downloadable SIP servlet toolkit that runs on the open-source-based Eclipse platform is also available. This easy-to-use SIP tooling can enable application developers to develop SIP applications in the same manner and same model-driven development environment as Web applications, helping maximize skills reuse and development efficiency.

Accessibility by people with disabilities

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) can be requested via the IBM Web site at

http://www-3.ibm.com/able/product_accessibility/index.html

Section 508 of the U.S. Rehabilitation Act

WebSphere Telecom Offerings is capable as of November 21, 2007, 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. A U.S. Section 508 Voluntary Product Accessibility Template (VPAT), containing details on the products accessibility compliance, can be requested at

http://www.ibm.com/able/product_accessibility/index.html

IPLA and Subscription and Support considerations

IPLA licenses can be transferred from one machine to another within, but not limited to an enterprise. You may aggregate the capacity for all the processors the product is operated on to

achieve a more economic price. This will result in a single Proof of Entitlement (PoE). It is your responsibility to manage the distribution of Value Units within the limits of the entitlement of the product license.

Subscription and Support must cover the same capacity as the product license entitlement. Subscription and Support will be available in the country in which the agreement is made.

Product positioning

WebSphere IMS Connector, WebSphere Presence Server, WebSphere Telecom Web Services Server, and WebSphere XDMS deliver stand-alone, modular next-generation service enablers to support the delivery of rich composite services. In combination with the WebSphere Application server platform, the IBM next-generation service enablers can deliver a flexible services plane execution environment enabling Web functions and real-time voice/multimedia elements to be deployed, run and managed from a single application platform.

To complement this flexible execution environment, the IBM Rational Unified Service Creation Environment provides role-based tools to manage the service creation life cycle, from requirements definition to development, to testing, and deployment. Including converged SIP-HTTP tooling, the IBM Rational Unified Service Creation Environment helps service providers maximize service creation speed and development efficiency.

In addition, IBM Tivoli® Netcool service management capabilities, obtained through the acquisition of Micromuse, enable end-to-end service management. With IBM Tivoli service management capabilities, service operators can monitor and manage their entire service delivery environment — from network infrastructure to applications to business processes, and from the core network to the customer premise.

With IBM Rational, WebSphere and IBM Tivoli software, IBM delivers a breadth of capabilities supporting the service delivery life cycle — from the creation to deployment to management of next-generation services.

Trademarks

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

WebSphere, Rational, and Tivoli 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 publications are shipped with this product.

WebSphere® IP Multimedia Subsystem Connector, WebSphere Presence Server, WebSphere Telecom Web Services Server, and WebSphere XML Document Management Server information and publications are available from the Web page of each product:

- **WebSphere IP Multimedia Subsystem Connector**
<http://www.ibm.com/software/pervasive/multisubcon/>
- **WebSphere Presence Server**

<http://www.ibm.com/software/pervasive/presenceserver/>

- **WebSphere Telecom Web Services Server**

<http://www.ibm.com/software/pervasive/serviceserver/>

- **WebSphere XML Document Management Server**

<http://www.ibm.com/software/pervasive/xdms/>

Technical documentation will be available at

<http://publib.boulder.ibm.com/infocenter/wtelecom/v6r2m0/>

Quick Start and Infocenter documentation for WebSphere IP Multimedia Subsystem Connector, WebSphere Presence Server, WebSphere Telecom Web Services Server, and WebSphere XDMS will also be shipped with the respective products.

WebSphere IP Multimedia Subsystem Connector, WebSphere Presence Server, and WebSphere Telecom Web Services Server documentation is provided only in English.

IBM Redbooks™

<http://www.redbooks.ibm.com/>

Relevant titles include Developing SIP and IP Multimedia Subsystem (IMS™) Applications.

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 20 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.

Technical information

Hardware requirements: For details on hardware and software requirements for WebSphere IMS Connector, visit

<http://www.ibm.com/software/pervasive/multisubcon/sysreqs>

For details on hardware and software requirements for WebSphere Presence Server, visit

<http://www.ibm.com/software/pervasive/presenceserver/sysreqs>

For details on hardware and software requirements for WebSphere Telecom Web Services Server, visit

<http://www.ibm.com/software/pervasive/serviceserver/sysreqs>

For details on hardware and software requirements for WebSphere XML Document Management Server, visit

<http://www.ibm.com/software/pervasive/xdms/reqs>

Software requirements: WebSphere IP Multimedia Subsystem Connector V6.2, WebSphere Presence Server V6.2, WebSphere Telecom Web Services Server V6.2, and WebSphere XDMS V6.2 all require IBM WebSphere Application Server V6.1.

For details on software requirements for WebSphere IMS Connector, visit

<http://www.ibm.com/software/pervasive/multisubcon/sysreqs/>

For details on software requirements for WebSphere Presence Server, visit

<http://www.ibm.com/software/pervasive/presenceserver/sysreqs/>

For details on software requirements for WebSphere Telecom Web Services Server, visit

<http://www.ibm.com/software/pervasive/serviceserver/sysreqs/>

For details on software requirements for WebSphere XML Document Management Server, visit

<http://www.ibm.com/software/pervasive/xdms/reqs/>

Planning information

For planning information, refer to the WebSphere IMS Connector, WebSphere Presence Server, WebSphere Telecom Web Services Server, and WebSphere XDMS installation documentation at

<http://publib.boulder.ibm.com/infocenter/wtelecom/v6r2m0/>

Customers should contact their IBM sales representatives for questions and additional assistance. Software Maintenance, previously referred to as Software Subscription and Technical Support, is included in the Passport Advantage Agreement. Installation and technical support is provided by the Software Maintenance offering of the IBM International Passport Advantage Agreement. This fee service enhances customer productivity, with voice and electronic access into IBM support organizations. For technical support and assistance, visit

<http://www.ibm.com/software/support>

You will also find a product information disk bundled with each offering. The disk contains Quick Start instructions and the Infocenter.

Customer responsibilities: Software Maintenance is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and technical support are provided by the Software Maintenance offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software and technical support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Maintenance with each program license acquired. The initial period of Software Maintenance can be extended by the purchase of a renewal option, if available.

Packaging: WebSphere IP Multimedia Subsystem Connector V6.2, WebSphere Presence Server V6.2, WebSphere Telecom Web Services Server V6.2, and WebSphere XDMS V6.2 are all Passport Advantage offerings. All four offerings are distributed via electronic download and each offering has a single physical media pack. The four offerings include support for specified operating systems.

The WebSphere IP Multimedia Subsystem Connector V6.2 media pack contains the following items:

- Product information CD-ROM, including Quick Starts and Infocenter
- WebSphere IP Multimedia Subsystem Connector V6.2 CD-ROM

The WebSphere Presence Server V6.2 media pack contains the following items:

- Product information CD-ROM, including Quick Starts and Infocenter
- WebSphere Presence Server V6.2 CD-ROM
- WebSphere IP Multimedia Subsystem Connector V6.2 CD-ROM

The WebSphere Telecom Web Services Server V6.2 media pack contains the following items:

- Product information CD-ROM, including Quick Starts and Infocenter

- WebSphere Telecom Web Services Server V6.2 CD-ROM
- WebSphere IP Multimedia Subsystem Connector V6.2 CD-ROM

The WebSphere XDMS V6.2 media pack contains the following items:

- Product information CD-ROM, including Quick Starts and Infocenter
- WebSphere XML Document Management Server V6.2 CD-ROM
- WebSphere IP Multimedia Subsystem Connector V6.2 CD-ROM

Security, auditability, and control

WebSphere IMS Connector, WebSphere Presence Server, WebSphere Telecom Web Services Server, and WebSphere XDMS all use the security and auditability features of the respective operating systems.

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

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

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an unmatched portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support any critical business need.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

To locate an IBM Business Partner, visit

<http://www.ibm.com/software/solutions/isv>

Ordering information

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

Product information

Licensed function title	Product group	Product category
WebSphere IP Multimedia SubSystem Connector	IBM Application Integration Middleware Other	App Integration Middleware Other
WebSphere Presence Server	IBM Application Integration Middleware Other	App Integration Middleware Other
WebSphere Telecom Web Services Server	IBM Application Integration Middleware Other	App Integration Middleware Other

WebSphere XML Document Management Server	IBM Application Integration Middleware Other	WebSphere
Program name	PID number	Charge unit description
WebSphere IP Multimedia SubSystem Connector	5724-005	Processor Value Unit (PVU)
WebSphere IP Multimedia SubSystem Connector	5724-005	Processor Day
WebSphere Presence Server	5724-005	PVU
WebSphere Presence Server	5724-005	Processor Day
WebSphere Telecom Web Services Server	5724-005	Processor Day
WebSphere Telecom Web Services Server	5724-005	PVU
WebSphere XML Document Management Server	5724-005	PVU
WebSphere XML Document Management Server	5724-005	Processor Day

Charge metrics definitions

Value Unit

A Value Unit is a pricing charge metric for program license entitlements which is based upon the quantity of a specific designated measurement used for a given program. Each program has a designated measurement. The most commonly used designated measurement is a processor core. However, for select programs, there are other designated measurements such as users, client devices, and messages. The number of Value Unit entitlements required for a program depends on how the program is deployed in your environment and must be obtained from a Value Unit table. You must obtain a PoE for the calculated number of Value Unit entitlements for your implementation. The Value Unit entitlements are specific to a program and may not be exchanged, interchanged, or aggregated with Value Unit entitlements of another program.

Processor (Value Unit)

A processor core is a functional unit within a computing device that interprets and executes instructions. A processor core consists of at least an instruction control unit and one or more arithmetic or logic unit. With multicore technology, each core is considered a processor. Not all processor cores require the same number of Value Unit entitlements. To calculate the number of Value Unit entitlements required, refer to the value unit table on the following Web site

http://www-142.ibm.com/software/sw-lotus/services/cwepassport.nsf/wdocs/pvu_table_for_customers

With full capacity licensing, a PoE must be acquired for the appropriate number of value units based on all activated processor cores available for use on the server.

Passport Advantage program licenses

WebSphere Telecom Offerings

Part description	Part number
WebSphere Presence Server	
WebSphere Presence Svr Value Unit License & SW Maintenance 12 Months	D59GPLL
WebSphere Presence Svr Value Unit SW Maintenance Annual Renewal	E02ZILL
WebSphere Presence Svr Value Unit SW Maintenance Reinstatement 12 Mont	D59GTLL

WebSphere Telecom Offerings

Part description	Part number
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WebSphere IP Multimedia SubSystem Connector	
WebSphere IMS Connector Value Unit License & SW Maintenance 12 Months	D59GNLL
WebSphere IMS Connector Value Unit SW Maintenance Annual Renewal	E02ZHLL
WebSphere IMS Connector Value Unit SW Maintenance Reinstatement 12 Months	D59GSSL

WebSphere Telecom Offerings

Part description	Part number
WebSphere Telecom Web Services Server	
IBM WbSph Telec Web Svcs Svr Value Unit License & SW Maintenance 12 Months	D59GQLL
IBM WbSph Telec Web Svcs Svr Value Unit SW Maintenance Annual Renewal	E02ZJLL
IBM WbSph Telec Web Svcs Svr Value Unit SW Maintenance Reinstatement 12 Mo	D59GULL

WebSphere Telecom Offerings

Part description	Part number
WebSphere XML Document Management Server	
WebSphere XML Document Management Svr Value Unit Lic & SW Maint 12 Mos	D619FLL
WebSphere XML Document Mgmt Svr Value Unit SW Maint Annual Renewal	E03XBLL
WebSphere XML Document Svr Value Unit SW Maint Reinstatement 12 Mos	D619GLL

Passport Advantage supply

Program name/description	Part number
WbSp Telecom Web Svcs Svr V6.2.0	
WbSp Telecom Web Svcs Svr Linux(TM) for System p(TM) UNIX(R) Servers (incl Intellista	BAOKPEN
WbSp XML Doc Management Svr V6.2.0	
WbSp XML Doc Management Svr SUSE Linux Standard Server, Red Hat Desktop, AIX®	BAOKQEN
WebSphere IMS Connector V6.2.0	
WebSphere IMS Connector (SLES), AIX 5L(TM), V5, Red Hat Enterprise Linux AS	BAOKMEN
WebSphere Presence Server V6.2.0	
WebSphere Presence Server SUSE Linux Enterprise Server (SLES), AIX 5L, V5, R	BAOKNEN

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.

WebSphere IMS Connector V6.2.0

Entitled maintenance offerings description	Media packs description	Part number
WebSphere IP Multimedia Subsys	WebSphere IMS Connector (SLES), AIX 5L, V5, Red	BAOKMEN

WebSphere Presence Server V6.2.0

Entitled maintenance offerings description	Media packs description	Part number
WebSphere Presence Server Processor Linux	WebSphere Presence Server SUSE Linux Enterprise Server (SLES), AIX 5L, V5, R	BAOKNEN

WbSp Telecom Web Svcs Svr V6.2.0

Entitled maintenance offerings description	Media packs description	Part number
WebSphere Telecom Services Server Processor Linux	WbSp Telecom Web Svcs Svr Linux for System p UNIX Servers (incl Intellista	BAOKPEN

WbSp XML Doc Management Svr V6.2.0

Entitled maintenance offerings description	Media packs description	Part number
WebSphere XML Document Management Server per Value Unit	WbSp XML Doc Management Svr SUSE Linux Standard Server, Red Hat Desktop, AIX	BAOKQEN

On/Off Capacity on Demand (CoD)**WebSphere IP Multimedia SubSystem Connector**

Part description	Part number
WebSph IMS Connector Proc Day Per Use-DAY, On Off Capacity on demand	D59B9LL

WebSphere Presence Server

Part description	Part number
WbSph Presence Server Proc Day Per Use-DAY, On Off Capacity on demand	D59BALL

WebSphere Telecom Web Services Server

Part description	Part number
WbSph Telecom Web Svcs Svr Proc Day Per Use-DAY, On Off Capacity on demand	D59BLL

WebSphere XML Document Management Server

Part description	Part number
WbSph XML Doc Mgmt Svr Proc Day Per Use-DAY, On Off Capacity on demand	D61BFL

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

License Information form number

Program name	Program number	Form number
WebSphere Telecom Offerings	5724-005	L-DCHN-6SZ4QD

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<http://www.ibm.com/software/sla/slabd.nsf>

Limited warranty applies: Yes

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<http://www.ibm.com/software/support>

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Money-back guarantee: If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

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Product name

WebSphere Telecom Offerings No

Usage restriction: Yes

For additional information, refer to the License Information Document that is available on the IBM Software License Agreement Web site

<http://www.ibm.com/software/sla/slabd.nsf>

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

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

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Volume orders (IVO): No

System i™ Software Maintenance applies: No

Educational allowance available: Not applicable

On/Off CoD

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

Prices

Passport Advantage

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