IBM WebSphere Telecom Web Services Server V7.1 enables third-party access to network capabilities to drive new service revenue and innovation

**At a glance**

IBM® WebSphere® Telecom Web Services Server V7.1 for Communications Service Providers (CSPs):

- Enables a flexible, modular execution platform for next-generation communications services
- Delivers a standards-based gateway for third-party access to telecom network elements and information
- Extends the Parlay X and GSMA OneAPI RESTful Web API industry standards to enable security-rich, policy-managed access to network capabilities

**Overview**

Communications Service Providers (CSPs) have an evolving opportunity to create new services to help improve how people live, work, shop and socialize. The nature of communications is changing and expanding from point-to-point, two-way conversations, to many-to-many, collaborative communications. This expansion is fundamentally changing the way people and businesses around the world communicate, share information, and drive progress.

IBM WebSphere Telecom Web Services Server can help CSPs seize new opportunities and reduce the risk of new investments needed to evolve to next-generation operations. With WebSphere Telecom Web Services Server, CSPs can accelerate the delivery of new value-added services, support evolving business models with partners, and integrate the management of services with their business process.

Based upon the principles of a service-oriented architecture (SOA), WebSphere Telecom Web Services Server V7.1 is designed to deliver a standards-based gateway for third-party access to telecom network elements and information. It extends the Parlay X and GSMA OneAPI RESTful Web API industry standards to enable security-rich, policy-managed access to network capabilities.

**Key prerequisites**

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

May 7, 2010: Electronic availability
June 4, 2010: Media availability

Description

**IBM WebSphere Telecom Web Services Server V7.1** is a standards-based gateway for providing and managing third-party access to telecom network capabilities and information that can help Communications Service Providers (CSPs) to quickly and efficiently deliver rich, next-generation communications services to market.

The changing telecommunications market is driving CSPs 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 party developers that utilize easy-to-use telecom services exposed by CSPs to create new, innovative, and highly personalized services.

WebSphere Telecom Web Services Server is a service-oriented architecture (SOA)-based platform for standards-based access to telecom network capabilities, that can help enable CSPs to:

- Reduce the cost and time to market for new revenue generating services
- Tap into the innovation and creativity of third-party developers enabling them to develop value-add services that help retain high-value subscribers
- Ease Web 2.0 integration with core network capabilities through RESTful Web APIs including variants that adhere to emerging GSMA OneAPI standard
- 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 can enable CSPs to provide third-party application developers a single, common entry point for Web services access to network services. It also provides CSPs 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 V7.1 expands its existing portfolio of Telecom Web service implementations with additional Parlay X 2.1-based Web services and RESTful Web APIs. These new services complement existing presence, call control, payment, terminal location, and SMS messaging related services, and support a variety of network connection options for current and next-generation IMS/SIP networks.

Extending telecom network service capabilities to third parties can expand 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 can enable 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 and RESTful Web APIs.
To help ensure service quality as the number of third-party applications grow, WebSphere Telecom Web Services Server provides a common control point for CSPs to define, manage, and enforce policies and SLAs for third-party services and subscribers. The CSP 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

**Telecom Web Services Access Gateway** provides a unified SOAP-based Web services gateway as well as a RESTful Web API gateway. Additionally, it offers features such as 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 for downstream ESB components and back-end service implementations to make policy-based decision during service execution.
- Service authorization - Authorizes requests based on policy information retrieved by examining the requestor, operation, and service requested.
- 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 helps ensure 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.

**Service Policy Manager** provides an extendable 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 CSPs 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.

**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 CSP network functions. The WebSphere Telecom Web Services Server V7.1 portfolio of Parlay X Web Services includes implementations connecting directly to telecom network elements.

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.

Finally, you get a Telecom Web Services Toolkit to assist developers in easily creating value-add telecom services using the open standard Parlay X Web services to access telecom networks. Building on the capabilities of the Rational® Application Developer, 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 speeds time to market for new services.

**Building on converged J2EE and SIP application server**

WebSphere Telecom Web Services Server is built on IBM WebSphere Application Server V7.0.

**Accessibility by people with disabilities**

A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested via IBM's Web site at


**Product positioning**

IBM WebSphere Telecom Web Services Server delivers modular next-generation service enablers to support the delivery of rich composite services. These service enablers leverage proven capabilities of WebSphere Application Server V7.0, which provide a single platform supporting SIP, HTTP, and portal-dependent applications.

In combination with the WebSphere Application server platform, the IBM communication service enablers can deliver a flexible services plane execution environment enabling Web functions and real-time voice and multimedia elements to be deployed, run, and managed from a single application platform.

**Program number**

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<td>IBM WebSphere Telecom Offerings</td>
</tr>
</tbody>
</table>

**Offering Information**

Product information is available via the Offering Information Web site


Also, visit the Passport Advantage® Web site


**Publications**

No publications are shipped with this product.

WebSphere Telecom Web Services Server information and publications are available from


Technical documentation will be available at

[http://publib.boulder.ibm.com/infocenter/wtelecom/v7r1m0/](http://publib.boulder.ibm.com/infocenter/wtelecom/v7r1m0/)

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

Specified operating environment

Hardware requirements

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

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

Software requirements

WebSphere Telecom Web Services Server V7.1 requires IBM WebSphere Application Server V7.0 or IBM WebSphere Application Server V6.1.

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


The program’s specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Planning information

For planning information, refer to the WebSphere Presence Server, WebSphere Telecom Web Services Server, and WebSphere XML Document Management Server installation documentation at

http://publib.boulder.ibm.com/infocenter/wtelecom/v7r1m0/

Customers should contact their IBM 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 the Infocenter.

**Customer responsibilities**

Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express®. Product upgrades and technical support are provided by the Software Subscription and Support (also referred to as 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 Subscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available.

**Packaging**

WebSphere Telecom Web Services Server V7.1 is a Passport Advantage offering. This offering is distributed via electronic download and has a single physical media pack. The offering includes support for specified operating systems.

The WebSphere Telecom Web Services Server V7.1 media pack contains the following items:

- Product information CD-ROM, including Quick Starts and Infocenter
- WebSphere Telecom Web Services Server V7.1 CD-ROM
- WebSphere IP Multimedia Subsystem Connector V6.2 CD-ROM

**Security, auditability, and control**

WebSphere Telecom Web Services Server uses 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.

**Global Technology Services**

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

**Ordering information**

For ordering information, consult your IBM representative or authorized IBM Business Partner, or visit


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

**Product information**

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Charge metrics definitions

Processor Value Unit (PVU)

PVU is a unit of measure by which this software product can be licensed. PVU entitlements are based on processor technology (defined within the PVU table* by processor vendor, brand, type and model number). IBM continues to define a processor, for purposes of PVU-based licensing, to be each processor core on a chip. Each software product has a unique price per PVU. To determine the total cost of deploying an individual software product in a specific hardware environment, you must take the following steps:

1. For each processor core in the hardware environment on which the software product is to be licensed, determine the PVU requirement based on its processor technology per the PVU table*.
2. Add the PVU requirements for all processor cores in the hardware environment.
3. Multiply the software product's price per PVU by the total number of PVUs required as determined in step 2 above.

PVU entitlements are specific to a software product and may not be exchanged, interchanged, or aggregated with PVU entitlements of another software product.

Unless you have deployed eligible sub-capacity products according to the sub-capacity* terms, you must obtain PVU Proof of Entitlements (PoEs) for the maximum number of activated** physical processor cores in the hardware environment made available to or managed by the software product. This is also referred to as full capacity licensing.

* For information regarding PVU and sub-capacity licensing, including the latest PVU table, visit


** Activated processor cores are physical processor cores that are available for use in a server. They include processor cores:

- That are activated (available for use) when the server is shipped by the manufacturer
- That are activated subsequently through activation codes purchased from the server manufacturer by the customer
- Whose capacity can be limited by the customer through virtualization technologies, operating system commands and BIOS settings

Passport Advantage program licenses

IBM WebSphere Telecom Offerings

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SW S&S 12 Mo
IBM WebSphere Telecom Web Services Svr Value Unit SW D59GULL
S&S Reinstall 12 Mo

Passport Advantage supply

Program name/description Part number

WbSp Telecom Web Svcs Svr V7.1.0
IBM WebSphere Telecom Web Services Server Media Pack BA0YQEN

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.

WbSp Telecom Web Svcs Svr V7.1.0

Entitled maintenance offerings description Media packs description Part number
IBM WebSphere Telecom Web Services Server per Processor for Linux® IBM WebSphere Telecom Web Services Server Media Pack V7.1.0 BA0YQEN

On/Off CoD

IBM WebSphere Telecom Web Services Server

Part description Part number

WbSpH Telecom Web Svcs Svr Proc Day Per Use-DAY, On Off Capacity on demand D59BBLL

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Licensing

IBM International Program License Agreement including the License Information document and PoE govern your use of the program. PoEs 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 Subscription and Support (also referred to as Software Maintenance).

License Information form number

Program name Program number Form number
IBM WebSphere Telecom Offerings 5724-O05 L-HSBA-83M5CU

The program’s License Information will be available for review on the IBM Software License Agreement Web site.
Limited warranty applies
Yes

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IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the Program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all Program defects. You are responsible for the results obtained from the use of the Program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

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

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Technical support of a program product will be available for a minimum of five years from the general availability date, as long as your Software Maintenance is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Maintenance also provides you with access to updates, releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

Money-back guarantee
For clarification, note that 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.

For clarification, note that for programs acquired under the IBM International Passport Advantage Agreement, this term applies only to your first acquisition of the program.

For clarification, note that for programs acquired under any of IBM's On/Off CoD software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Authorization for use on home/portable computer
The program may be stored on the primary machine and another machine, provided that the program is not in active use on both machines at the same time. You may not copy and use this program on another computer without paying additional license fees.

IBM WebSphere Telecom Offerings: No

Volume orders (IVO)
No
Passport Advantage applies

Yes, and through the Passport Advantage Web site at

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

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

Usage restriction

Yes

For additional information refer to the License Information Document that is available on the IBM Software License Agreement website:


International Passport Agreement

Software Subscription and Support (Software Maintenance)

Yes. Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and technical support are provided by the Software Subscription and Support (also referred to as 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 Subscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available.

While your Software Subscription and Support (also referred to as 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, to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, consult your IBM Software Support Handbook at

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

Software Subscription and Support (also referred to as Software Maintenance) does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under the applicable agreements.

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, visit the Passport Advantage Web site at

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

Other terms

System i Software Maintenance applies

No
**Educational allowance available**

Education allowance does not apply.

Education software allowance does not apply.

Special education prices are available for qualified customers through Passport Advantage.

**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 - Z125-6907, Amendment for iSeries® and pSeries® Temporary Capacity On Demand - Software - must be signed prior to use.

**Prices**

**Passport Advantage**

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https://www.ibm.com/software/howtobuy/passportadvantage/paoreseller/emea/channelannouncement

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 Announcement countries

All European, Middle Eastern and African countries.

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