IBM Integration Bus V9.0 delivers key enhancements to enable intelligent processing and operational management within an integration solution

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At a glance

IBM® Integration Bus V9.0, previously known as IBM WebSphere® Message Broker, delivers a comprehensive integration solution. In addition to connecting together a wide range of applications, services, and systems across heterogeneous IT environments, it provides the visibility and control capabilities needed to support critical business activities such as monitoring, auditing, process management, and analytics.

New enhancements allow clients to:

- Rapidly enable business insight to be applied to in-flight data
- Accelerate creation of integration services for business process management (BPM)
- Increase operational awareness and control over workload
- Gain visibility and insight of integration in application environments

The new capabilities naturally extend the powerful productivity features of IBM Integration Bus to develop and manage integration solution deployments, and extend its industry-leading performance and scalability.

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Overview

IBM Integration Bus provides the capabilities needed to build solutions addressing diverse integration requirements. A rich set of connectors provide broad connectivity to a wide range of data sources, including packaged applications, files, mobile devices, messaging systems, and databases.

A wide variety of data formats are supported, including standards-based formats (such as XML, DFDL, and JSON), industry formats (such as HL7), and custom formats. A comprehensive range of operations can be performed on data, including routing, filtering, enrichment, multicast for publish-subscribe, sequencing, and aggregation. These flexible integration capabilities are able to support your choice of solution architecture, including service-oriented, event-oriented, data-driven, and file-based (batch or real-time).

IBM Integration Bus V9.0 delivers key enhancements that enable greater visibility and insight of data as it flows through the bus. These facilitate more intelligent data processing and operational management of an integration solution and allow you to:

- Apply business insight to make near-real-time decisions to influence processing flow
- Rapidly create integration services to meet the needs of process designers
- Manage integration workload to prioritize resources and prevent outages
- Include application-to-application integration in centralized business activities
- Improve elasticity and response time by exploiting flexible caching capabilities
- Monitor and visualize performance statistics in real time
- Exploit new patterns to rapidly integrate Microsoft™ applications
- Flexibly provision solutions across a range of physical and cloud environments
- Import and convert existing integration assets from IBM WebSphere Enterprise Service Bus

Key prerequisites

Refer to the Hardware requirements and Software requirements sections.

Planned availability date

June 14, 2013:

- IBM Integration Bus V9.0 - Electronic distribution
- IBM Integration Bus Hypervisor Edition for IBM AIX® , V9.0 - Electronic distribution only
- IBM Integration Bus Hypervisor Edition for Red Hat Enterprise Linux™ Server for x86, V9.0 - Electronic distribution only

July 5, 2013:

- IBM Integration Bus V9.0 - Media pack

Description

The enhancements delivered in IBM Integration Bus, previously known as WebSphere Message Broker, are as follows:

Apply business insight to make near-real-time decisions to influence processing flow

Many organizations exploit business rules to improve the quality of transaction- and process-related decisions that are made repeatedly, determining the appropriate course of action for each customer, partner, and internal interaction. When business rules are combined with an integration solution, such decisions are able to influence data as it is being processed in near-real-time, helping to achieve an optimal business outcome.

IBM Integration Bus V9.0 provides built-in capabilities to invoke rules during processing in order to make intelligent routing, validation, and transformation decisions:

- Integration developers can get started quickly and easily using simple rules created using intuitive editors within the IBM Integration Bus tooling. Existing or more powerful rules may also be imported from IBM Operational Decision Manager tooling.

- Rules are packaged and deployed alongside the integration logic and executed in the same runtime container, minimizing the overhead associated with rule invocation.
- Business users have visibility to rules and the ability to govern and change the business logic without requiring rework or redeployment of the integration logic.
- IBM Decision Center may be used to manage rules running within IBM Integration Bus as part of a broader Decision Manager solution.

Existing clients transitioning to the built-in rules support from the "IAM9: WebSphere Decision Service Node" SupportPac will benefit from improvements in usability, installability, and deployment. For more information about licensing requirements, refer to the IBM Decision Server topic in the Terms and conditions section.

Rapidly create integration services to meet the needs of process designers

Business process management (BPM) enables organizations to automate, manage, measure, and continuously improve the processes that drive their business. For a given process, this involves choreographing a series of steps that may include human tasks, business rules, and integration services that trigger requests to underlying applications and systems.

IBM Integration Bus V9.0 simplifies and accelerates the creation of integration services in support of a BPM solution:

- A prebuilt development pattern allows integration developers to rapidly build a new integration service to the exact specification supplied by a process designer. Alternatively, existing integration logic can be easily encapsulated as an integration service for reuse by BPM.
- IBM BPM tooling allows process designers to discover an integration service implementation, select from the available operations, automatically map the input and output elements, and perform testing from within the BPM development environment.

Manage integration workload to prioritize resources and prevent outages

The scope of integration solutions is broadening to extend beyond enterprise boundaries, enabling an explosion of new endpoints (such as mobile applications, cloud applications, and sensors) to have access to enterprise applications and services. This enables a broad spectrum of new opportunities from increasing productivity and responsiveness to deeper customer engagement and loyalty. With these opportunities come the challenges of maintaining availability of business-critical systems in the face of increasing demand or spikes in activity, and effectively managing resources to reflect workload priorities.

IBM Integration Bus V9.0 provides new capabilities that allow operational awareness and control over processing traffic:

- A policy-based approach to controlling the processing rate for integration flows. Policies are defined at design time and can be updated operationally.
- Individual policies that define thresholds (in messages per second) along with actions to be triggered in order to maintain a desired processing rate. For example, the breaching of a threshold can be configured to trigger subsequent workload to be delayed or rejected in order to protect downstream systems.
- The ability to send a notification to operational personnel as a threshold is breached.

Include application-to-application integration in centralized business activities

Application developers are increasingly required to connect applications they create with existing applications to deliver a new composite solution. To assist with this, they need a lightweight integration framework that allows them to quickly and easily enable applications for connectivity and configure common tasks without the need for deep integration skills.

IBM Integration Bus V9.0 and IBM WebSphere Application Server V8.5.5 deliver new capabilities and productivity aids that provide a simple way for an application developer to compose applications. Once in place, integration between applications can be instrumented, and events flowed to IBM Integration Bus for inclusion in centralized monitoring, audit, or analytics activities:

- Simple connectivity tasks for application developers (such as service versioning) are supported by drag-and-drop graphical data mapping and prebuilt developer patterns. This enables applications to connect to each other, as well as to external standard interfaces such as XML, REST, JSON, and web services.
- Integration logic developed in the Application Server environment can emit events that can be captured by IBM Integration Bus. This data can then be flowed to business activity monitoring (BAM) solutions, stored in a system of record for audit purposes, or sent to a data warehouse for processing by business analytics engines.

Improve elasticity and response times by exploiting flexible caching capabilities

Caching is a fundamental technology that facilitates the building of scalable infrastructure to support growth in the demand for services. For an integration solution, a distributed cache provides a repository for data reuse and sharing across the network. This creates an elastic processing network able to respond to a request from any available node, and minimizes the amount of data retrieved from back-end systems.

IBM Integration Bus V9.0 includes an embedded IBM WebSphere eXtreme Scale global cache, along with new options to connect securely to an external cache:

- Out-of-the-box capabilities to use embedded cache to store state for integrations and maintain a predictable response time even as the number of clients increases.
- Support for connecting securely over SSL to an external cache such as IBM WebSphere DataPower® XC10, enabling a single cache to be shared by multiple products.

Monitor and visualize performance statistics in real time

IBM Integration Bus V9.0 provides powerful new tools to graphically view operational performance statistics. This provides operational personnel with access to:

- Highly configurable views of integration throughput rates in a line chart or tabular form.
- The facility to drill down to an appropriate level of detail, scoping statistics to an execution group, a thread, or even an individual node.
- Foundational BAM capabilities such as the ability to assign and view the business context of particular data, for example its value.

Exploit new patterns to rapidly integrate Microsoft applications

IBM Integration Bus V9.0 delivers additional productivity aids enabling Microsoft applications to be rapidly integrated as part of a heterogeneous integration solution. Prebuilt patterns for Microsoft Dynamics CRM allow transformation and synchronization of client data with another CRM application. This facilitates sharing of the state of business relationships and transactions consistently across an organization, while preserving data quality:

- A prebuilt pattern assists with the integration of Microsoft Dynamics CRM with a SAP system. Updates to customer data from create, read, update, and delete operations via a SAP BAPI can be easily reflected in a matching Dynamics CRM Account Entity.
- A second prebuilt pattern builds upon the first by allowing Microsoft Dynamics CRM application to be updated using a variety of other mechanisms, including WebSphere MQ messages, HTTP, or flat files.

Flexibly provision solutions across a range of physical and cloud environments

IBM Integration Bus Hypervisor Edition offers flexible integration solution provisioning across a range of physical and cloud-based deployment options. Stable and tested configurations are available for use with IBM Workload Deployer and IBM PureApplication™ System. These offer particular benefits in deploying and managing an integration solution:

- Workload Deployer allows the rapid deployment and simplified management of a large-scale deployment of IBM Integration Bus across your existing hardware infrastructure. Demands for newly deployed systems can be quickly satisfied, hardware utilization optimized, and maintenance costs reduced.
- PureApplication System enables IBM Integration Bus to provide preconfigured integration capabilities as part of an optimized hardware and software private cloud platform. IBM Integration Bus provides the foundational integration capabilities with which PureApplication System patterns of expertise deliver complete software solutions.

Should your integration requirements develop or change, you have the freedom to nondisruptively transition between these options irrespective of the initial selection.

IBM Integration Bus Hypervisor Edition can serve as a basis for the provisioning of IBM Integration Bus on public cloud environments using bring-your-own licensing.

Import and convert existing integration assets from WebSphere Enterprise Service Bus

IBM Integration Bus represents IBM's strategic Enterprise Service Bus (ESB) offering and is the successor product for existing clients of both WebSphere Message Broker and WebSphere ESB.

IBM Integration Bus provides tooling that facilitates the conversion of existing WebSphere Enterprise Service Bus assets so they can run on IBM Integration Bus. The tooling enables:

- WebSphere Enterprise Service Bus Project Interchange files to be imported and viewed
- Common flow primitives to be converted automatically whilst maintaining the flow structure
- An understanding of remaining manual tasks via a task list
- Resulting flows to be modified and deployed

The conversion tooling is built upon an extensible framework, enabling further enhancements that reduce the number of manual tasks required.

WebSphere MQ

WebSphere MQ V7.5 is provided with IBM Integration Bus. For more information, refer to the Terms and conditions section.

WebSphere Adapters

WebSphere Adapters V7.5 for SAP, Siebel, PeopleSoft, and JD Edwards are provided with IBM Integration Bus. The adapters enable connectivity to these commonly used package applications. These adapters are available for both development and production usage.

Modes of operation

IBM Integration Bus offers a number of modes of operation to licensed clients. The mode of operation may be selected at any time, subject to the purchase of license entitlement. Existing clients may select any mode of operation at deployment time and are not required to reinstall their existing IBM Integration Bus media.

- **Express® Edition** provides an entry-level starting point to deploy an integration solution with the option to grow to full function and performance. It has restricted features and is limited to one process.
- **Standard Edition** offers the choice of a full-feature mode of operation, which is limited to one process, or a restricted mode of operation without capacity restrictions. This intermediate edition offers the flexibility to fulfill either broad-capability or high-performance scenarios.
- **Advanced Edition** is the full-feature edition of IBM Integration Bus with no function or capability restrictions imposed. It is the default mode of operation.

Hypervisor Editions for Red Hat Enterprise Linux and IBM AIX

The Hypervisor Editions offer a combination of IBM Integration Bus, WebSphere MQ, and the operating system compatible with the supported hypervisor, optimized to run in server virtualization environments.

Remote Adapter Deployment (RAD) Edition

The RAD Edition enables deployment of adapters for connecting to applications and other data sources, including databases.

WebSphere Enterprise Service Bus Transfer License

The IBM Integration Bus WebSphere Enterprise Service Bus Transfer License provides comparable capabilities and performance to those available in WebSphere Enterprise Service Bus. It offers a restricted mode of operation without capacity restrictions.

For more details, refer to Software Announcement 212-522, dated December 11, 2012 .

Maximizing the value of your IBM software investment

IBM Software Subscription and Support is one of the most cost-effective ways for your business to ensure that your users have access to the latest technology. Whether you choose to upgrade and how you choose to upgrade are always up to you. You manage your upgrade cycles in the way that works best for your business. A comprehensive product upgrade and Technical Support solution, IBM Software Subscription and Support, available through IBM Passport Advantage® and Passport Advantage Express , delivers:

- Product upgrades
- New releases and new versions
- Phone and technical support

To download upgrades to your licensed IBM Software, sign in to Passport Advantage Online

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

For information on the benefits of migrating to IBM Integration Bus, visit

http://www.ibm.com/integration-bus

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

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

Section 508 of the US Rehabilitation Act

IBM Integration Bus V9.0, IBM Integration Bus Hypervisor Edition for IBM AIX , V9.0, and IBM Integration Bus Hypervisor Edition for Red Hat Enterprise Linux

Server for x86, V9.0 are capable, as of June 14, 2013, 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. A US 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

Product positioning

IBM Integration Bus, previously known as WebSphere Message Broker, makes
full use of the transport and connectivity options provided by WebSphere MQ. It
delivers additional routing and transformation capabilities, and other functionality to
implement or extend an integration solution.

For additional information about IBM Integration Bus, visit

http://www.ibm.com/integration-bus

Reference information

For information about IBM Integration Bus for z/OS® , refer to Software
Announcement 213-136, dated April 23, 2013 .

For information about WebSphere Enterprise Service Bus, refer to Software
Announcement 212-522, dated December 11, 2012 .

For information about IBM Operational Decision Manager V8.5, refer to Software
Announcement 213-125, dated April 23, 2013 .

For information about IBM Business Process Manager V8.5, refer to Software
Announcement 213-023, dated April 23, 2013 .

For more information about WebSphere Adapters, refer to

- Software Announcement 212-233, dated June 12, 2012
- Software Announcement 211-092, dated April 05, 2011

Availability of national languages

Description	Availability date	Language
IBM Integration Bus V9.0 (electronic download)	June 14, 2013	Multilingual: Chinese Simplified Chinese Traditional English US French German Italian Japanese Korean Polish Portuguese Brazilian Russian Spanish Turkish
IBM Integration Bus, V9.0 (media pack)	July 5, 2013	Multilingual: Chinese Simplified Chinese Traditional English US

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                              French
                              German
                              Italian
                              Japanese
                              Korean
                              Polish
                              Portuguese Brazilian
                              Russian
                              Spanish
                              Turkish
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Program number

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Program name                                Program number

IBM Integration Bus V9.0                     5724-J05

IBM Integration Bus Hypervisor              5725-B71
 Edition for IBM AIX, V9.0

IBM Integration Bus Hypervisor              5725-B72
 Edition for Red Hat Enterprise
 Linux Server for x86, V9.0
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Education support

The core training offerings that were available for WebSphere Message Broker are updated for IBM Integration Bus V9. The updated courses are described below. Many countries will offer these courses in classroom, instructor-led online, and self-paced formats. Refer to your country's IBM education delivery organization for specific course codes and class schedules.

The skills learned in these courses are appropriate for both distributed platforms and z/OS . However, student labs will be performed on a distributed platform in most countries.

- **IBM Integration Bus System Administration**

  This course teaches students how to perform essential configuration and administrative tasks for the IBM Integration Bus environment. This includes installing and configuring the environment, creating and configuring a broker, ensuring efficient operation of a broker, backing up and restoring the environment, configuring security parameters, and using tracing and debugging tools for problem determination and resolution. Additional topics include product requirements planning and performance monitoring and tuning. Lab exercises also provide hands-on experience with the publish-subscribe message topology, web services and security, and extending the base functionality of IBM Integration Bus by implementing user-defined extensions and SupportPacs.

- **IBM Integration Bus Application Development I**

  This course provides intermediate-level skills in the use of IBM Integration Bus to develop, deploy, and support platform-independent message flow applications. These applications will use various messaging topologies to transport messages between service requestors and service providers, and also allow the messages to be routed, transformed, and enriched during processing. Students learn about the components of the IBM Integration Bus development and runtime environments. The course explores message flow problem determination, with an emphasis on identifying and recovering from errors in message flows. Students then learn how to construct message flows that use extended Structured Query Language (ESQL), Java™ , and PHP Hypertext Preprocessor (PHP) to transform messages.

  The course also explores how to control the flow of messages using various message processing nodes, and how to use databases and maps to transform and enrich messages during processing. Various messaging transports are

reviewed at a high level, so that students gain a basic understanding of how message flows can use web services, Java Message Service (JMS), and other transport mechanisms. In addition, students learn to write efficient message flows by applying the concepts of message parsing, serialization, and message modeling. Finally, students explore advanced topics, such as how to extend the functionality of IBM Integration Bus by using adapters and other WebSphere products.

- **IBM Integration Bus Application Development II**

  This course provides for a continuation of the topics that were introduced in IBM Integration Bus Application Development I. This course extends your knowledge of the IBM Integration Bus product, focusing on using IBM Integration Bus to develop, deploy, and support platform-independent message flow applications. Topics in this course include writing message flows that use web services, working with JMS transports, modeling and testing messages with the Data Format Description Language (DFDL), and aggregating messages from multiple sources.

  You also learn how to extend message flows to interact with FTP servers and other products, and how to use the publish-subscribe messaging topology as well as how to implement built-in patterns and develop, test, and deploy user-defined patterns. Finally you will learn how IBM Integration Bus interacts with other products, and how to use the record and replay facility to capture and view messages during processing. Extensive labs throughout the course enable you to practice your new skills.

For additional information, or to check for the latest updates, visit the IBM training web page at

   http://www.ibm.com/services/learning/

Select your country to view the available offerings. This site has links to descriptions for all classroom, instructor-led online, and self-study courses available in each country. The web page also contains information on course schedules and enrollment procedures.

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage website

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

Publications

A *Quick Start Guide* is shipped with this program.

Online product documentation is integrated within the product and is also supplied on the Quick Start CD-ROM.

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 US) 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

IBM Integration Bus V9.0

IBM AIX

64-bit IBM Power® systems only, capable of running the required level of a compatible operating system with enough storage to meet the requirements of IBM Integration Bus.

Any hardware capable of running other trademarked AIX systems from IBM or other vendors that have passed a set of certification tests for compliance with the IBM AIX application binary and programming interfaces.

HP-UX on Itanium™

Itanium systems: Any hardware that is explicitly compatible and fully capable of running the specified operating system, all the corresponding supporting software shown below, and any associated applications unmodified.

Linux on IBM Power

64-bit IBM Power processor-based systems only, capable of running the required level of a compatible operating system with enough storage to meet the requirements of IBM Integration Bus.

Linux on x86

x86 technology-compatible PC hardware, capable of running the required level of a compatible operating system with enough storage to meet the requirements of IBM Integration Bus.

Linux on x86-64

AMD64 and EM64T technology-compatible PC hardware, capable of running the required level of a compatible operating system with enough storage to meet the requirements of IBM Integration Bus.

Linux on System z®

Any server capable of running one of the Linux for System z releases listed in the Software requirements topic below.

Solaris x86-64

AMD64, EM64T, and compatible processors: Any hardware that is explicitly compatible and fully capable of running the specified operating system, all the corresponding supporting software shown below, and any associated applications unmodified.

Solaris SPARC

Sun Microsystems SPARC processor machines.

Microsoft Windows^{TM}

Windows x86 technology-compatible PC hardware, capable of running the required level of a compatible operating system with enough storage to meet the requirements of IBM Integration Bus.

IBM Integration Bus Hypervisor Edition for IBM AIX , V9.0

- Any hardware that is explicitly compatible and fully capable of running PowerVM® , IBM AIX , IBM Integration Bus V9.0, and all corresponding supporting software
- IBM Workload Deployer, with minimum firmware level V3.1

IBM Integration Bus Hypervisor Edition for Red Hat Enterprise Linux Server for x86, V9.0

- Any hardware that is explicitly compatible and fully capable of running Red Hat Enterprise Linux 5.5, IBM Integration Bus V9.0, and all corresponding supporting software
- IBM Workload Deployer, with minimum firmware level V3.1

For the latest information, visit

  http://www.ibm.com/integration-bus

Software requirements

IBM Integration Bus V9.0

IBM AIX

- IBM AIX 6.1 (Technology Level 5)
- IBM AIX 7.1
- WebSphere MQ V7.5

HP-UX on Itanium

- HP-UX 11i V3 (plus PHCO_38048, PHSS 42980, and PHSS 41496) for Itanium
- WebSphere MQ V7.5

Linux on IBM Power

- Red Hat Enterprise Linux AS V5.5
- Red Hat Enterprise Linux AS V6
- SUSE Linux Enterprise Server (SLES) 11
- WebSphere MQ V7.5

Linux on x86

- Red Hat Enterprise Linux AS V5.5
- Red Hat Enterprise Linux AS V6
- SUSE Linux Enterprise Server (SLES) 11
- Ubuntu 12.04
- WebSphere MQ V7.5

Linux on x86-64

- Red Hat Enterprise Linux AS V5.5
- Red Hat Enterprise Linux AS V6
- SUSE Linux Enterprise Server (SLES) 11

- Ubuntu 12.04
- WebSphere MQ V7.5

Linux on System z

- Red Hat Enterprise Linux AS V5.5
- Red Hat Enterprise Linux AS V6
- SUSE Linux Enterprise Server (SLES) 11
- WebSphere MQ V7.5

Solaris on SPARC

- Solaris 10
- Solaris 11
- WebSphere MQ V7.5

Solaris on x86-64

- Solaris 10
- Solaris 11
- WebSphere MQ V7.5

Microsoft Windows x86

- Windows Server 2008 Standard and Enterprise (32bit and 64bit) Edition
- Windows Server 2008 R2 Standard and Enterprise Edition
- Windows 7 Professional, Enterprise and Ultimate (32bit and 64bit) Edition
- Windows 8 Basic, Professional and Enterprise Editions
- Windows 2012, Standard Edition
- WebSphere MQ V7.5

Microsoft Windows x86-64

- Windows Server 2008 R2 Standard and Enterprise Edition
- Windows 7 Professional, Enterprise and Ultimate Edition
- Windows 8 Basic, Professional and Enterprise Editions
- Windows 2012, Standard Edition
- WebSphere MQ V7.5

IBM Integration Bus Hypervisor Edition for IBM AIX , V9.0

PowerVM must be installed on the system targeted for deployment of IBM
Integration Bus Hypervisor Edition V9.0 for IBM AIX .

Separate entitlement is required for any productive use of IBM AIX, for example
through entitlement for IBM PureApplication System on Power. All other required
software is provided with IBM Integration Bus Hypervisor Edition for IBM AIX , V9.0.

**IBM Integration Bus Hypervisor Edition for Red Hat Enterprise Linux Server
for x86, V9.0**

VMware ESX must be installed on the system targeted for deployment of IBM
Integration Bus Hypervisor Edition for Red Hat Enterprise Linux . All other required
software is provided with IBM Integration Bus Hypervisor Edition V9.0 for Red Hat
Enterprise Linux .

For detailed requirements for all editions of IBM Integration Bus, visit

http://www.ibm.com/integration-bus

Note: Before installing any new products, ensure that you review your current Preventative Service Planning (PSP) information.

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

Customer responsibilities

You must provide at least the minimum hardware and software environments in which the licensed programs operate.

Problem determination (PD) is a customer responsibility. PD is an assessment of whether a problem is caused by hardware or software. It is complete only when the cause of the problem is identified. This assessment includes examination of available symptoms using the PD procedures documented in the product.

Problem source identification (PSI) is a customer responsibility. PSI begins when software is determined to be the source of the problem. It includes tracing the source of the program to a host system control program (SCP), an application program, or another source. Assisting the client with PSI is an IBM service and support responsibility.

Packaging

IBM Integration Bus V9.0

IBM Integration Bus is available via electronic download or as a media pack. The IBM Integration Bus package contains:

- IBM Integration Bus CD-ROMs for IBM AIX , Solaris on SPARC, Solaris on x86-64, Linux on System z , and Linux on Power
- IBM Integration Bus DVDs for HP-UX on Itanium , Microsoft Windows on x86, Microsoft Windows on x86-64, Linux on x86, and Linux on x86-64
- WebSphere MQ V7.5 DVDs
- IBM Integration Bus V9.0 Quick Start CD-ROM
- IBM Integration Bus V9.0 Quick Start Guide (printed in English, French, and Japanese)

IBM Integration Bus Hypervisor Editions

The IBM Integration Bus V9.0 Hypervisor Editions are available for electronic download only. The download packages contain:

- **IBM Integration Bus Hypervisor Edition for IBM AIX , V9.0**
  - IBM Integration Bus Hypervisor Edition V9.0 Quick Start Guide
  - IBM Integration Bus Hypervisor Edition for IBM AIX , V9.0 (multiple files)
  - IBM Integration Bus V9.0 for multiplatforms (multiple files)
- **IBM Integration Bus Hypervisor Edition for Red Hat Enterprise Linux Server for x86, V9.0**
  - IBM Integration Bus Hypervisor Edition V9.0 Quick Start Guide
  - IBM Integration Bus Hypervisor Edition for Red Hat Enterprise Linux Server for x86, V9.0 (multiple files)
  - IBM Integration Bus V9.0 for multiplatforms (multiple files)

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, which will be presented for

acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

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 extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

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

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

Ordering information

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

This product may only be sold directly by IBM or by authorized IBM Business Partners for Software Value Plus.

For more information about IBM Software Value Plus, visit

   http://www.ibm.com/partnerworld/page/svp_authorized_portfolio

To locate IBM Business Partners for Software Value Plus in your geography for a specific Software Value Plus portfolio, visit

   http://www.ibm.com/partnerworld/wps/bplocator/

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Product group: WebSphere

Product Identifier Description (PID)

IBM Integration Bus V9.0                     5724-J05

IBM Integration Bus                          5725-B71
 Hypervisor Edition V9.0 for IBM AIX

IBM Integration Bus                          5725-B72
 Hypervisor Edition V9.0 for Red
 Hat Enterprise Linux Server for x86

Product category: Application Integration Middleware Other

Product description                 Product ID

IBM Integration Bus V9.0            5724-J05

IBM Integration Bus Broker Hypervisor    5725-B71
 Edition for IBM AIX, V9.0

IBM Integration Bus Broker Hypervisor    5725-B72
 Edition for Red Hat Enterprise
 Linux Server for x86, V9.0
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Passport Advantage

Here is the list of part numbers for IBM Integration Bus V9.0 (5724-J05).

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Description                               Part number

IBM Integration Bus

  Per Processor Value Unit
    License + Software S&S 12 months        D56P3LL
    Annual Software S&S Renewal 12 months   E02AULL
    Software S&S Reinstatement 12 months    D56P4LL

IBM Integration Bus Idle Standby

  Per Processor Value Unit
    License + Software S&S 12 months        D0GH4LL
    Annual Software S&S Renewal 12 months   E0AM0LL
    Software S&S Reinstatement 12 months    D0GH5LL

IBM Integration Bus Standard Edition

  Per Processor Value Unit
    License + Software S&S 12 months        D03S0LL
    Annual Software S&S Renewal 12 months   E04NRLL
    Software S&S Reinstatement 12 months    D03S1LL

IBM Integration Bus Standard Edition Idle Standby

  Per Processor Value Unit
    License + Software S&S 12 months        D0GG5LL
    Annual Software S&S Renewal 12 months   E0ALMLL
    Software S&S Reinstatement 12 months    D0GG6LL

IBM Integration Bus Remote Adapter Deployment

  Per Processor Value Unit
    License + Software S&S 12 months        D03S2LL
    Annual Software S&S Renewal 12 months   E04NSLL
    Software S&S Reinstatement 12 months    D03S3LL

IBM Integration Bus Remote Adapter
 Deployment Idle Standby

  Per Processor Value Unit
    License + Software S&S 12 months        D0GHWLL
    Annual Software S&S Renewal 12 months   E0AMGLL
    Software S&S Reinstatement 12 months    D0GHXLL

IBM Integration Bus Express Edition

  Per Processor Value Unit
    License + Software S&S 12 months        D0L5KLL
    Annual Software S&S Renewal 12 months   E0CR5LL
    Software S&S Reinstatement 12 months    D0L5LLL

IBM Integration Bus WebSphere
 Enterprise Service Bus Transfer License

  Per Processor Value Unit (PVU)
    License + Software S&S 12 mo            D0WE0LL
    Annual Software S&S Renewal             E0FXVLL
    Software S&S reinstatement 12 mo        D0WE1LL

IBM Integration Bus WebSphere
 Enterprise Service Bus Transfer License
 Idle Standby

  Per Processor Value Unit
    License + Software S&S 12 mo            D0WG4LL
    Annual Software S&S Renewal             E0FZBLL
```

```
                 Software S&S reinstatement 12 mo          D0WG5LL
```

Here is the list of part numbers for IBM Integration Bus Hypervisor Edition for IBM AIX , V9.0 (5725-B71).

```
Description                                   Part number

IBM Integration Bus Hypervisor Edition
 for IBM AIX

  Per Processor Value Unit
    License + Software S&S 12 months          D0LESLL
    Annual Software S&S Renewal 12 months     E0CUULL
    Software S&S Reinstatement 12 months      D0LETLL
```

Here is the list of part numbers for IBM Integration Bus Hypervisor Edition for Red Hat Enterprise Linux Server for x86, V9.0 (5725-B72).

```
Description                                   Part number

IBM Integration Bus Hypervisor Edition
 for Red Hat Enterprise Linux Server for x86

  Per Processor Value Unit
    License + Software S&S 12 months          D0GECLL
    Annual Software S&S Renewal 12 months     E0AKXLL
    Software S&S Reinstatement 12 months      D0GEDLL
```

Passport Advantage trade-up

You must have previously acquired licenses for the following precursor products to be eligible to acquire equivalent licenses of the trade-up products.

Precursor product	Trade-up product	Trade-up part number
IBM Integration Bus Standard Edition PVU	IBM Integration Bus Trade-up PVU License + SW S&S 12 Months	D03PWLL
IBM Integration Bus Standard Edition for zEnterprise BladeCenter® Extension Linux on System z	IBM Integration Bus for zEnterprise® BladeCenter Extension Linux on System z Trade-up PVU License + SW S&S 12 Months	D03PVLL
Qualified Competitor for zEnterprise BladeCenter Extension Linux on System z	IBM Integration Bus for zEnterprise BladeCenter Extension Linux on System z Trade-up PVU License + SW S&S 12 Months	D61T5LL
Qualified Competitor PVU	IBM Integration Bus Trade-up PVU License + SW S&S 12 Months	D61T4LL
IBM Integration Bus Standard Edition Idle Standby PVU	IBM Integration Bus Idle Standby Trade-up PVU License + SW S&S 12 Months	D0GH6LL
IBM Integration Bus Standard Edition Idle Standby PVU for Linux on System z	IBM Integration Bus Idle Standby for Linux on System z Trade-up PVU License + SW S&S 12 Months	D0GH3LL
IBM Integration Bus	IBM Integration Bus Hypervisor Edition for Red Hat Enterprise Linux Server for x86 Trade-up PVU License + SW S&S 12 Months	D0GEELL

```
IBM Integration Bus              IBM Integration Bus         D0LEULL
                                  Hypervisor Edition for
                                  IBM AIX
                                  Trade-up PVU License +
                                  SW S&S 12 Months

IBM Integration Bus              IBM Integration Bus         D0WGGLL
 WebSphere Enterprise             PVU Lic + SW S&S
 Service Bus Transfer             12 Month
 License

IBM Integration Bus              IBM Integration Bus         D0WGHLL
 WebSphere Enterprise             PVU Linux on System z
 Service Bus Transfer             Lic + SW S&S 12 Month
 License for Linux on
 System z

IBM Integration Bus              IBM Integration Bus         D0WGILL
 WebSphere Enterprise             Idle Standby PVU
 Service Bus Transfer             Lic + SW S&S 12 Month
 License Idle Standby

IBM Integration Bus              IBM Integration Bus         D0WGJLL
 WebSphere Enterprise             Idle Standby PVU
 Service Bus Transfer             Linux on System z
 License Idle Standby             Lic + SW S&S 12 Month
 Linux on System z
```

Consult your IBM representative or authorized IBM Business Partner if you have any questions.

Clients with active maintenance or subscription for IBM Integration Bus are entitled to receive the IBM Integration Bus media pack.

```
Entitled maintenance offerings
description                                      Part number

IBM Integration Bus V9.0                         BA167ML
 Multiplatform Multilingual Media Pack
```

Cross-platform product for use on System z Integrated Facility for Linux (IFL) engines and/or zEnterprise BladeCenter Extension

Order the part numbers that follow when the product is intended to run on zEnterprise BladeCenter Extension or the Linux operating system on System z IFL engines. If the product is not intended to run in these environments, order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement.

```
                                                   Part
Program name/Description                           number

IBM Integration Bus

  Per Processor Value Unit
   for zEnterprise BladeCenter Extension and
    Linux on System z License + Software S&S 12 mo   D56MWLL
   for zEnterprise BladeCenter Extension and
    Linux on System z Annual Software S&S Renewal 12 mo   E02AGLL
   for zEnterprise BladeCenter Extension and
    Linux on System z Software S&S reinstatement 12 mo   D56MXLL

IBM Integration Bus Idle Standby

  Per Processor Value Unit
    Linux on System z License + Software S&S 12 mo   D0GH1LL
    Linux on System z Annual Software S&S Renewal 12 mo   E0ALZLL
    Linux on System z Software S&S reinstatement 12 mo   D0GH2LL

IBM Integration Bus Standard Edition
```

```
         Per Processor Value Unit
          for zEnterprise BladeCenter Extension and
           Linux on System z License + Software S&S 12 mo       D03S4LL
          for zEnterprise BladeCenter Extension and
           Linux on System z Annual Software S&S Renewal 12 mo   E04NTLL
          for zEnterprise BladeCenter Extension and
           Linux on System z Software S&S reinstatement 12 mo    D03S5LL

     IBM Integration Bus Standard Edition Idle Standby

         Per Processor Value Unit
           Linux on System z License + Software S&S 12 mo        D0GG3LL
           Linux on System z Annual Software S&S Renewal 12 mo   E0ALLLL
           Linux on System z Software S&S reinstatement 12 mo    D0GG4LL

     IBM Integration Bus Remote Adapter Deployment

         Per Processor Value Unit
          for zEnterprise BladeCenter Extension and
           Linux on System z License + Software S&S 12 mo        D0BLZLL
          for zEnterprise BladeCenter Extension and
           Linux on System z Annual Software S&S Renewal 12 mo   E084WLL
          for zEnterprise BladeCenter Extension and
           Linux on System z Software S&S reinstatement 12 mo    D0BM0LL

     IBM Integration Bus Remote Adapter Deployment Idle Standby

         Per Processor Value Unit
           Linux on System z License + Software S&S 12 mo        D0GHSLL
           Linux on System z Annual Software S&S Renewal 12 mo   E0AMDLL
           Linux on System z Software S&S reinstatement 12 mo    D0GHTLL

     IBM Integration Bus Express Edition

         Per Processor Value Unit
           Linux on System z License + Software S&S 12 mo        D0L63LL
           Linux on System z Annual Software S&S Renewal 12 mo   E0CR9LL
           Linux on System z Software S&S reinstatement 12 mo    D0L64LL

     IBM Integration Bus WebSphere Enterprise Service Bus
      Transfer License

         Per Processor Value Unit
           Linux on System z License + Software S&S 12 mo        D0WG2LL
           Linux on System z Annual Software S&S Renewal          E0FZALL
           Linux on System z Software S&S reinstatement 12 mo    D0WG3LL

         Idle Standby per Processor Value Unit
           Linux on System z License + Software S&S 12 mo        D0WG6LL
           Linux on System z Annual Software S&S Renewal          E0FZCLL
           Linux on System z Software S&S reinstatement 12 mo    D0WG7LL
```

On/Off Capacity on Demand (CoD)

```
Part
number      Description

ASQW1LL     IBM Integration Bus per processor day On/Off CoD
            temporary use charge
```

Charge metric

Program name	PID number	Charge unit description
IBM Integration Bus V9.0	5724-J05	Processor Value Unit
IBM Integration Bus Hypervisor Edition for IBM AIX, V9.0	5725-B71	Processor Value Unit
IBM Integration Bus Hypervisor Edition for Red Hat Enterprise	5725-B72	Processor Value Unit

Processor Value Unit (PVU)

PVU is a unit of measure by which the program can be licensed. The number of PVU entitlements required is based on the processor technology (defined within the PVU table by processor value, brand, type, and model number at the website below) and the number of processors made available to the program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip. A dual-core processor chip, for example, has two processor cores. The PVU table can be found at

> http://www.ibm.com/software/lotus/passportadvantage/
> pvu_licensing_for_customers.html

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> http://www.ibm.com/software/lotus/passportadvantage/
> Counting_Software_licenses_using_sp ecific_virtualization_technologies.html

* An activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

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License Information number

```
Program name                        LI number

IBM Integration Bus V9.0            L-ACRR-942EDF

IBM Integration Bus Hypervisor      L-ACRR-8YBKZ9
 Edition for IBM AIX, V9.0

IBM Integration Bus Hypervisor      L-ACRR-8YBL7Z
 Edition for Red Hat Enterprise
 Linux Server for x86, V9.0
```

The program's License Information will be available for review on the IBM Software License Agreement website

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No

Passport Advantage applies

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For usage beyond development and functional test, you must purchase a separate license entitlement for either IBM Decision Server or IBM Decision Server Rules Edition for Integration Bus. For more details about these products, including

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

IBM Operational Support Services - SoftwareXcel

No

Other support

Passport Advantage

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable

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To be eligible for On/Off CoD pricing, you 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.

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Reference: YE001

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Corrections

(Corrected on May 21, 2013)
The "Software requirements" section was revised.