IBM WebSphere Message Broker Connectivity Pack for Healthcare V8.0 delivers support for medical imaging and clinical document analytics across the healthcare environment

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At a glance

IBM® WebSphere® Message Broker Connectivity Pack for Healthcare V8.0

- Delivers enhanced connectivity and configuration options for WebSphere Message Broker in a healthcare environment.
- Adds direct support for the Digital Imaging and Communications in Medicine (DICOM) medical image transmission standard.
- Provides tooling to quickly and easily extract meaningful information from clinical documents (CDA/CCD).

Overview

WebSphere Message Broker Connectivity Pack for Healthcare V8.0 adds many significant new features.

- DICOM, the digital medical imaging standard, is now natively supported. It enables the integration of image archive systems (PACS) and imaging applications and also enables a broad range of high-value integration use cases to support clinicians and other medical staff in the improved quality and responsiveness of clinical decisions. These scenarios include:
  - Clinical portal
  - Pre-fetch on admission
  - Route to external expert for second opinion

- Analytics, the ability to glean clinical insight, is now made easy with integrated tooling that quickly and easily extracts meaningful information from a range of medical sources. These include clinical documents that conform to Clinical Document Architecture (CDA) and Continuity of Care Documents (CCD), DICOM images, and HL7 v2 messages. Meaningful data from these sources can be filtered, captured and fed directly into downstream applications and data warehouses for healthcare intelligence applications. The increased relevance and timeliness of this data supports both new and better decision making and increased insight by a range of diverse participants in the clinical environment.

- Health Level Seven (HL7) Data models, that use the industry standard Data Format Description Language (DFDL), are included in support of the HL7 messaging standard. HL7 v2.3 through to the most recently approved HL7 v2.7 are provided in the pack as standard to enable the full breadth of HL7 systems
to be integrated in clinical processing scenarios. The graphical modeling tools bring a modern feel to HL7 data processing, provide excellent performance characteristics, and allow healthcare integrators to customize and develop healthcare integrations quickly and easily. These are also effective when deployed into operational healthcare systems.

- The ability to send Integrating the Healthcare Enterprise (IHE) compatible Audit Trail and Node Authentication (ATNA) messages to an audit repository enables and simplifies the logging and audit of events across healthcare networks.

The new capabilities augment the existing capabilities of the WebSphere Message Broker Connectivity Pack for Healthcare. This simplifies the process of integrating healthcare IT systems by providing:

- Ready-to-use connectivity and time saving patterns for healthcare providers who seek to integrate clinical applications based on HL7 v2.x
- Direct connectivity to bedside medical equipment that includes patient monitors, infusion pumps, and more
- Pattern-based healthcare focused development tooling - Rapid integration without detailed knowledge of integration engines or enterprise service bus (ESB) technologies
- Healthcare-oriented, operational views for connected clinical applications and devices

The WebSphere Message Broker Connectivity Pack for Healthcare V8.0 is an add-on pack to WebSphere Message Broker which must be purchased separately (1).

**Note:** Due to regulatory considerations, the WebSphere Message Broker Connectivity Pack for Healthcare and the medical device connectivity is subject to usage restrictions and restricted country availability. For more details, visit [http://www-01.ibm.com/software/integration/wbimessagebroker/healthcare/license/](http://www-01.ibm.com/software/integration/wbimessagebroker/healthcare/license/)

1 WebSphere Message Broker Connectivity Pack for Healthcare V8.0 supports WebSphere Message Broker V8.0 and later releases as follows:


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

**Key prerequisites**

Supported environments include WebSphere Message Broker V8.0, and later.

**Planned availability date**

- March 28, 2013: Electronic distribution
- April 1, 2013: Media pack

**Description**

The healthcare industry worldwide is undergoing significant change. As healthcare providers look to find efficiencies and improve care, leaders focus on ever more innovative ways of handling patient care across the spectrum that include inpatient and ambulatory scenarios. Driven by government mandates, such as *Meaningful Use* in the US, and a fundamental shift in payment models from fee-for-service models, to more accountable care organizations, and hospital-physician bundling, the need for integration is never greater.
For many, this means unlocking the value of existing clinical applications and data held in disparate Electronic Health Record (EHR) systems, while overcoming IT resource constraints. With existing resources often tied up in lengthy and complex EMR or clinical application implementations, an imperative across all new IT projects is the provision of easy-to-deploy systems that deliver immediate value, often through a staged approach. The rewards for success, however, can be significant in improving the quality of patient care and in delivering services which differentiate the service provided to patients and referring physicians.

A key first step, which many organizations are undertaking is the integration of their EMR system with existing clinical applications to ensure that data is captured and stored within the patient records both for immediate observation and later review and analysis. Combining this with data captured at source from bedside medical devices ensures the EMR is accurate and treatment is based upon the most current observations and test results. Directly integrating such applications and devices removes a significant burden on clinicians of re-keying data between systems, reduces the opportunity for errors, ensures data integrity, and removes duplication of pharmacy orders and lab tests.

Looking more broadly, the range of new services which can be realized and supported by a robust and scalable integration backbone is significant. For inhouse clinicians, this may include clinical portals for a single view of patient data, whilst for community physicians it may be the ability to order and view laboratory tests or medical imaging.

For the patient themselves, this presents a new ability to view and take an active role in their care. It can range from patient portals for streamlined hospital admissions and access to medical records through to in-home tertiary care through the provision of mobile telehealth services.

WebSphere Message Broker Connectivity Pack for Healthcare provides ready-to-use support to simplify integration across a range of clinical applications, medical devices, and clinical imaging systems. With a pattern-based development approach, the pack ensures a consistent and repeatable development experience and significantly reduces the time and effort required in creating integrations between such systems.

For HL7-based applications, the pack provides a reusable pattern which handles the integration of HL7 v2.x applications, the transfer of data such as patient admissions, discharges, and transfers (ADT), taking and recording observations (ORU), and making orders for prescriptions (ORM). The pattern creates the integration which by designing and handling these flows between applications in a consistent way, can reduce errors due to re-keying and greatly reduce delays in information flow around the hospital.

Medical device connectivity is enabled through a series of additional connectors provided within the pack. These provide direct connectivity to a range of medical devices with simple configuration tooling to simplify deployment of many device connections within the hospital environment. The connectors are supported by development patterns which provide rapid integration of the device data with the EMR. This includes master patient index lookups to ensure that the data is routed to the correct physician, application, or medical record.

For the current range of supported devices, visit


However, new devices may be added. For more details or to discuss the provision of additional device support, contact your IBM representative or business partner.

License entitlement for use of the device capability must be acquired separately. Contact your IBM representative or your IBM Business Partner for more details.

WebSphere Message Broker Connectivity Pack for Healthcare V8 adds direct support for the DICOM messaging standard.
patterns which facilitate the creation of integrations between medical imaging systems and image archives.

The healthcare sector is one of the biggest generators of Big Data across both clinical and payer scenarios. Historically, the challenge of analyzing this data was identifying the data of interest in vast data warehouses. Integration of the systems using HL7 CDA and related standards for handling patient data provides a new opportunity to gain insight, not retrospectively as before, but based upon the in-flight data as it flows between health systems.

WebSphere Message Broker Connectivity Pack for Healthcare V8 provides new tooling to quickly and easily extract a subset of information from CDA clinical documents. With support for a variety of templates which include CDA, C-CDA, CCD, and HITSP, users are able to easily define data elements of interest within a clinical document, in meaningful terms based upon LOINC codes.

This non-disruptive intelligent filtering supports a wide range of scenarios. WebSphere Message Broker can apply this filter to all messages flowing across the integration backbone, selecting and routing a copy of any matches to the destination application of choice. This might include shredding data into clinical data warehouses, applications, or interested third parties such as government agencies or research establishments.

**Accessibility by people with disabilities**

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


**Section 508 of the US Rehabilitation Act**

WebSphere Message Broker Connectivity Pack For Healthcare V8.0 is capable, as of April 1, 2013, 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


**Product positioning**

The WebSphere family includes software products to meet diverse integration needs as they span varying programming models, qualities of service, and multiple data types. Whether you are looking to exchange a limited amount of data between applications, services and systems, or implement an enterprise-wide SOA, you can meet current and future needs with WebSphere.

WebSphere Message Broker makes full use of the transport and connectivity options provided by WebSphere MQ, by delivering additional routing and transformation capabilities, as well as other functionality to implement or extend an ESB.

WebSphere Message Broker Connectivity Pack for Healthcare builds on the functions offered by WebSphere Message Broker and adds content to provide faster integration between HL7-based, clinical applications.

For additional information about WebSphere Message Broker, including information on WebSphere Message Broker Connectivity Pack for Healthcare, visit:

http://www.ibm.com/software/integration/wbimessagebroker
**Reference information**

For information on WebSphere Message Broker V8.0, refer to Software Announcement 211-391, dated October 4, 2011.

**Program number**

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**Offering Information**

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Also, visit the Passport Advantage® website


**Publications**

Online product documentation is integrated within the product.

For complete documentation, including installation instructions, see the IBM WebSphere Message Broker Connectivity Pack for Healthcare section in the WebSphere Message Broker information center.

The WebSphere Message Broker information center is available from the WebSphere Message Broker library page at:


The IBM Publications Center


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**

For requirements for WebSphere Message Broker V8, refer to Software Announcement 211-391, dated October 4, 2011.

**Software requirements**

Software required for WebSphere Message Broker Connectivity Pack for Healthcare is provided.

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

**Packaging**

WebSphere Message Broker Connectivity Pack for Healthcare ships on a media pack.

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Product group: WebSphere

Product Identifier Description (PID)
IBM WebSphere Message Broker 5725-C18
Connectivity Pack for Healthcare

Product category: Application Integration Middleware Other

Charge metric

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Install

Install is a unit of measure by which the program can be licensed. An install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. Licensee must obtain an entitlement for each install of the program.

Product description

IBM WebSphere Message Broker Connectivity Pack for Healthcare

Passport Advantage

Here is the complete listing of part numbers for WebSphere Message Broker Connectivity Pack for Healthcare (5725-C18).

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<th>Description</th>
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Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

Entitled maintenance offerings

description  Part number

IBM WebSphere Message Broker Connectivity Pack for Healthcare V8.0 Multiplatform Multilingual Media Pack BA161ML

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**License Information form number**

IBM WebSphere Message Broker Connectivity Pack for Healthcare V8.0: L-ACRR-8URF2L

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


**Limited warranty applies**

Yes

**Limited warranty**

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.

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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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**Volume orders (IVO)**

No

**Passport Advantage applies**

Yes, and through the Passport Advantage website at

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- Use for active patient monitoring or decision support;
- Use in any active monitoring that depends on the timeliness of data transmission; or
- Use where WebSphere Message Broker Connectivity Pack for Healthcare is depended on for immediate clinical action.

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Due to regulatory considerations, the WebSphere Message Broker Connectivity Pack for Healthcare and the medical device connectivity is subject to usage restrictions and restricted country availability. For more details, visit

http://www-01.ibm.com/software/integration/wbimessagebroker/healthcare/license/

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WebSphere Message Broker Connectivity Pack for Healthcare includes software developed by Health Level Seven, which comes with the following disclaimer:

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**Variable charges apply**

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**Educational allowance available**

Not applicable.
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