IBM Integration Bus Healthcare Pack V4.0 delivers improved interoperability of healthcare systems through support for additional standards and IHE profiles

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At a glance

IBM® Integration Bus Healthcare Pack V4.0

- Delivers enhanced connectivity and configuration options for Integration Bus in a healthcare environment.
- Adds direct support for healthcare messaging standards that include Fast Health Interoperability Resources (FHIR).
- Provides patterns to speed integrations that conform to Integrating the Healthcare Enterprise (IHE) profiles.

Overview

Integration Bus Healthcare Pack V4.0 improves usability for novice users and adds many significant new features that include:

- Enhanced support for HL7 2.x standards and support for the FHIR messaging standard
- Resources to speed the building of integrations that conform to profiles for IHE, Patient Identifier Cross Reference Manager (PIX), Patient Demographic Query (PDQ), and Cross-Enterprise Document Sharing (XDS)
- Enhanced integration patterns to simplify the creation and mapping of custom Health Level 7 (HL7) models to reduce the time to develop and debug HL7 integrations

The new capabilities augment the existing capabilities of the Integration Bus Healthcare Pack. 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 that are based on HL7 v2.x
- Direct connectivity to bedside medical equipment that includes patient monitors, infusion pumps, and more
- Connectivity and integration patterns that support medical imaging systems and picture archiving and communications system (PACS) that utilize Digital Imaging and Communications in Medicine (DICOM), the digital medical imaging standard
• Analysis and filtering tooling that supports easy extraction of meaningful information from clinical documents that include Clinical Document Architecture (CDA) and Continuity of Care Documents (CCD)
• HL7 data models that support HL7 v2.3 through to HL7 v2.7 to enable the integration of clinical systems
• Support for the creation of Remote Patient Monitoring solutions that utilize standards to connect to applications and devices, such as standards defined by the Continua Health Alliance organization
• 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 Integration Bus Healthcare Pack is an add-on pack to Integration Bus, which must be purchased separately¹.

**Note:** Due to regulatory considerations, the Integration Bus Healthcare Pack 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/

¹Integration Bus Healthcare Pack V4.0 supports Integration Bus V10.0 and later releases. For details, refer to


**Key prerequisites**

Supported environments include:

• IBM Integration Bus V10.0 and later
• IBM WebSphere® MQ V 7.1 and later

**Planned availability date**

June 25, 2015: Electronic distribution

Refer to the Availability of national languages section for national language availability.

**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 electronic medical records (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 in-house clinicians, this may include clinical portals for a single view of patient data, but for community physicians it may be the ability to order and view laboratory tests or medical imaging.

For the patients themselves, these services present 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.

The Integration Bus Healthcare Pack 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. The pack contains schemas for the complete range of HL7 v2.x chapters. For FHIR-based applications, the pack provides FHIR schemas and a reusable pattern that maps from the XML version of FHIR to the JSON version.

For HIPAA claims messages, Integration Bus Healthcare Pack provides a pattern to easily convert HIPAA messages to XML, supporting all 13 mandated transaction sets. Integration Bus works in conjunction with IBM Standards Processing Engine for validation and aggregation/de-aggregation of HIPAA messages.

Through forums and events, such as the Connectathons, Integrating the Healthcare Enterprise (IHE) defines a technical framework for implementing messaging standards. Connectathon events encourage participants to develop solutions and engage in rigorous testing to meet the technical requirements. Healthcare Pack supports integrations for the following profiles:

- Audit Trail and Node Authentication (ATNA) profile to assist the implementation of confidentiality policies through user authentication and tracking.
- Patient Identifier Cross-reference (PIX) profile to support the cross-referencing of patient identifiers from multiple Patient Identifier Domains (for example, hospitals, clinics, and physician offices). These cross-referenced patient identifiers are used by identity consumer systems to relate patient information from sources that know a given patient by different identifiers.
- Patient Demographics Query (PDQ) profile to support queries for lists of patients (based on user-defined search criteria) and to support retrieval of patient demographic data into a consuming application.
• Cross Enterprise Document Sharing (XDS) to register and share electronic health record documents between healthcare enterprises, ranging from physician offices to clinics to acute care in-patient facilities.

Integration Bus Healthcare Pack V4.0 enables direct support for the Digital Imaging and Communications in Medicine (DICOM) messaging standard. This provides connectors and supporting patterns that 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 as part of a wider solution, not retrospectively as before, but based upon real-time data as it flows between health systems.

Integration Bus Healthcare Pack V4.0 provides 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 Healthcare Information Technology Standards Panel (HITSP), users are able to easily define data elements of interest within a clinical document, in meaningful terms that are based upon Logical Observation Identifiers Names and Codes (LOINC).

This non-disruptive intelligent filtering supports a wide range of scenarios. Integration Bus 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.

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 IBM Business Partner.

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

Beyond the hospital walls

Globally, the healthcare industry is beginning a seismic shift in care delivery. Faced with growing and aging populations and the resulting rise in chronic conditions, care providers, payers, and governments must find new ways of cutting the cost of care. Many are looking to new ways of monitoring and delivering treatment outside of the hospital and clinic environment with an emphasis on promoting wellness to reduce the need for episodic in-patient care. The ubiquity of new smart phones and mobile devices has greatly improved the affordability and options for health providers. This coupled with established standards, such as the standard defined by the Continua Health Alliance organization, is driving a growth in adoption of applications to allow patients to monitor their own health and interact with their care provider for ongoing treatment and advice using commonly available devices, such as blood glucometers in their own homes.

The Integration Bus Healthcare Pack provides support for the creation of Remote Patient Monitoring solutions utilizing devices or processing data from applications...
using the standard defined by the Continua Health Alliance organization. This enables developers building remote patient monitoring solutions to utilize Integration Bus to act as a wide area network receiver, handling inbound patient observation data from remote. When coupled with a suitable mobile health application which acts as the gateway in the patient home, the wide area network receiver accepts and routes data to caregivers’ systems and databases for storage and analysis.

**Accessibility by people with disabilities**

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


**Product positioning**

Healthcare Pack V4.0 is an add-on pack to Integration Bus that provides clinical application and device integration for more connected healthcare systems. Healthcare Pack V4.0 builds on the functions offered by Integration Bus and adds content to provide faster integration between a range of clinical systems. These include HL7- and FHIR-based clinical applications, electronic medical systems, medical imaging and PACS, and medical devices, both inside and outside the hospital. The pack provides development tooling which speeds the process of integration for a range of common scenarios, and tooling that simplifies the processing of clinical documents such as CDA and CCD.

The capabilities of the pack can be extended to provide routing of patient data using IBM Initiate Master Data Service® which provides Enterprise Master Patient Index (EMPI) and offers a number of pre-built tools for patients and providers. The Integration Bus suite components are designed to manage communication to and from source systems and the Master Data Engine.

For payers, HIPAA transformation and validation is provided by IBM Standards Processing Engine, which may be used in conjunction with Integration Bus. Ready-to-execute template definitions and compliance validation checking for the complete ASC X12N HIPAA standard as well as 4010 and 5010 flat file formats for Professional and Institutional Claims and Coordination of Benefits are provided.

For additional information about Integration Bus, including information on Healthcare Pack V4.0, visit


Building on the foundation of Health Integration, IBM has a range of analytics offerings to help you make informed and optimized decisions, to improve outcomes, and control risk. For more information, visit

http://www-01.ibm.com/software/analytics/support/avp/avp_offerings.html

**Reference information**

For information on Integration Bus V10.0, refer to Software Announcement ZP15-0093, dated February 17, 2015.
Availability of national languages

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Education support

IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training website  
http://www.ibm.com/services/learning/

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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

Online product documentation is integrated within the product.

For complete documentation, including installation instructions, refer to the Integration Bus Healthcare Pack section in the Integration Bus information center.

The Integration Bus V10.0 IBM Knowledge Center is available from the following Integration Bus library page:  

The IBM Publications Center portal is located at  
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. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.
Services

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.

Technical information

Specified operating environment

Hardware requirements

For requirements for Integration Bus V10.0, refer to Software Announcement ZP15-0093, dated February 17, 2015.

Software requirements

Software required for Integration Bus Healthcare Pack V4.0 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

This offering is delivered through the Internet. There is no physical media.

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Ordering information

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

http://www.ibm.com/software/support/pa.html

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http://www.ibm.com/partnerworld/wps/bplocator/
Product Group: WebSphere

Product: IBM Integration Bus Healthcare Pack (5725-C18)

Product Category: Application Integration Middleware Other

Passport Advantage

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Passport Advantage customer: Media pack entitlement details

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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.

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Yes
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No

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- Use in any active monitoring that depends on the timeliness of data transmission; or
- Use where Integration Bus Healthcare Pack is depended on for immediate clinical action.

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System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

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

For current prices, visit

http://www.ibm.com/support

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