

IBM WebSphere Information Integrator Classic Federation and Classic Event Publisher Version 8.2

Highlights

- ***Connects mainframe data with the Internet, your client/server tools or applications***
- ***Extends the value of existing mainframe investments without requiring mainframe programming***
- ***Accelerates project time-to-value for enterprise integration, data warehousing and e-business***
- ***Minimizes dependence on scarce mainframe skills while leveraging ubiquitous SQL skills***

IBM WebSphere Information Integration

Organizations face an information challenge. Where is it? How do I get it when I need it in the form I need? What does it mean? What insight can I gain from it? Can I trust it? How do I control it? The list goes on, and the challenges grow unceasingly if businesses cannot ensure that they have access to authoritative, consistent, timely and complete information.

The IBM WebSphere® Information Integration platform integrates and transforms any data and content to deliver information you can trust for your critical business initiatives. It provides breakthrough productivity, flexibility and performance, so you and your customers and partners have the right information for running and growing your businesses. It helps you understand, cleanse and enhance information, while governing its quality to ultimately provide authoritative information. Integrated across the extended enterprise and delivered when you need it, this consistent, timely and complete information can enrich business processes, enable key contextual insights and inspire confident business decision-making.

Legacy asset integration— a critical component of your Integration infrastructure

The IBM WebSphere Information Integration platform provides critical components for your IBM z/OS® integration infrastructure. IBM WebSphere Information Integrator Classic Federation for z/OS provides standard structured query language (SQL) integration of mainframe data sources.

WebSphere Information Integration event publishing offerings use changed-data capture facilities that publish changes to IBM WebSphere MQ for use by applications, extract-transform-load (ETL) tools and message brokers. Together, these solutions deliver robust mainframe integration capabilities that address the needs of today's on demand environments.

WebSphere Information Integrator Classic Federation Architecture

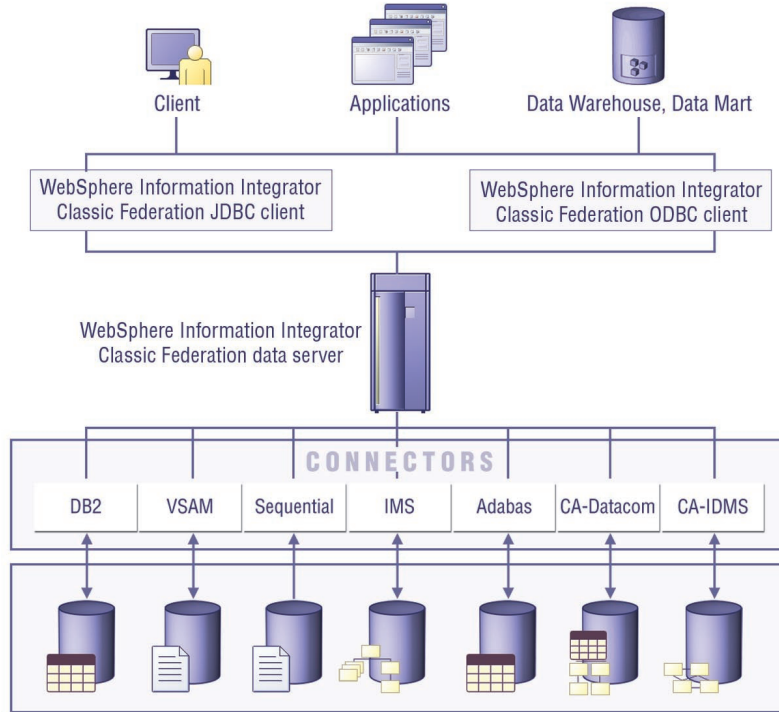


Figure 1. IBM WebSphere Information Integrator Classic Federation for z/OS provides SQL read/write integration of mainframe data sources

Robust, z/OS data integration leverages legacy assets and speeds time to market

WebSphere Information Integrator Classic Federation empowers real-time integration of your z/OS data with UNIX®, Microsoft® Windows® and Linux® platforms in Internet, client/server and desktop environments. It provides excellent read/write data access and federation with transaction speed and enterprise scale. Using a metadata-driven approach, it dynamically translates SQL select/insert/update/delete statements into native data access commands that are optimized for each data source. Results are reformatted into standard relational row-column answer sets. The result is seamless integration of mainframe data without specialized or proprietary programming.

Designed for enterprise workloads

Dynamic data integration is viable only if it handles your workload. WebSphere Information Integrator Classic Federation accesses mainframe data at transaction speed so that Web sites can service thousands of users and transactions/second. WebSphere Information Integrator Classic Federation has proven that it can handle large z/OS throughput requirements. Building applications using WebSphere Information Integrator Classic Federation requires no mainframe programming and no legacy database skills. SQL-literate application developers using their existing reporting, development and portal tools are productive immediately—building everything from a simple

read-oriented customer self-service Web site to a complex multi-database read/write e-commerce solution.

WebSphere Information Integrator Classic Federation is metadata driven. Tools and utilities automate the process of mapping legacy databases to logical relational tables and views using the physical definitions—IMS DBDs, CA-IDMS schemas and subschemas, Software AG Adabas Predict and COBOL Copybooks—that you already have. The power of SQL is then available for everything from a simple VSAM file to a complex IMS database.

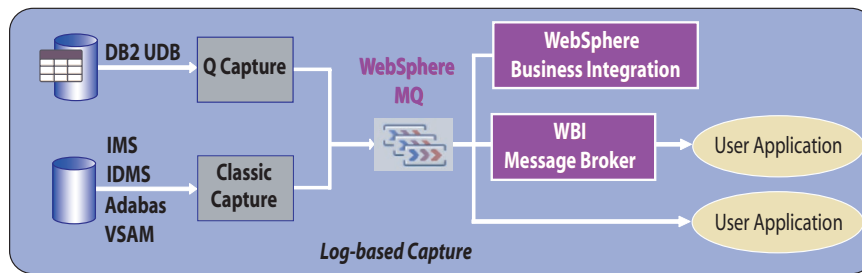


Figure 2. Event publishing captures changed-data events and publishes them as WebSphere MQ messages for other applications to use and drive subsequent processing

Data event publishing facilitates business and data integration

WebSphere Information Integration event publishing makes it easy to link data events with both business processes and data synchronization solutions. Available in four distinct IBM WebSphere Information Integrator Classic Event Publisher editions supporting IBM IMS™ (Information Management System), VSAM (Virtual Storage Access Method), Computer Associates Advantage CA-IDMS/DB, and Software AG Adabas, its capabilities are similar to those provided by WebSphere Information Integrator Event Publisher for IBM DB2® Universal Database™ (UDB) for z/OS.

Changed-data events accelerate data warehousing, enterprise integration

Event publishing provides efficient changed-data publishing environments for the following scenarios:

- *Provide application-to-application integration that makes it possible to push operational customer data to a packaged customer relationship management (CRM) application*

- *Initiate business processes, for example the addition of a customer record that could initiate a welcome e-mail, credit verification and updates to the CRM system*
- *Monitor critical data events, such as low inventory levels that drive a product restocking workflow*
- *Feed a data warehouse, data mart or operational data store by pushing changed data to an ETL product that then populates the data store*

Robust, real-time changed-data capture

WebSphere Information Integration event publishing captures data changes. These changes are then packaged into a consistent relational format before being published to IBM WebSphere MQ as self-describing XML messages. These changed-data “events” can then be used by WebSphere application and process integration middleware or by a JMS-aware application, tool or message broker to drive subsequent processing. This loosely coupled integration helps ensure that each application can be changed independently of every other application.

WebSphere Information Integrator Classic Federation has multiple uses:

- *Delivers operational data to customer self-service environments. For example, using ODBC SQL, an insurance company connects its policy holders, medical providers and agents with IMS, VSAM and DB2 accounting, policy and claims data through an interactive voice response (IVR) system and self-service Web sites.*
- *Connects e-commerce sites with current mainframe order-processing data. Using JDBC SQL with WebSphere Application Server, a catalog retailer connects its Web sales site with the mainframe Computer Associates CA-IDMS inventory data and critical shipping algorithms that also are used by its mainframe COBOL call-center order-processing applications.*
- *Integrates business intelligence systems with enterprise data. Using ODBC SQL, a leading motor craft manufacturer cut data mart development time in half while also empowering credit analysts to evaluate dealer credit requests based on up-to-the-second operational data.*



WebSphere Information Integrator Classic Event Publisher editions complement and extend your investments in service-oriented architecture, enterprise application integration and ETL infrastructure by:

- *Eliminating the hand coding typically required to detect data changes*
- *Removing data event capture overhead from the transaction path itself*
- *Providing a single integration point—the source data—for events that may be initiated by multiple applications, making the event capture independent of the applications and their evolution*
- *Making the data integration independent of the structure or processing flow of the applications involved*
- *Reducing latency for legacy data delivery through ETL tools*
- *Eliminating dependence on a batch “cycle” by continually pushing data updates to the data warehousing environment*
- *Providing change-only data delivery that greatly simplifies data synchronization and data warehousing updates*

Supported databases

WebSphere Information Integrator Classic Federation for z/OS supports the following host databases:

- *Software AG Adabas, Version 7.1*
- *CA-Datcom, Version 10*
- *Advantage CA-IDMS/DB for z/OS, Versions 14.1 and 15*
- *DB2 UDB for z/OS, Versions 6.1, 7.1 and 8.1*
- *IMS, Version 7.1*
- *VSAM for z/OS, Version 1.4*
- *Sequential files for z/OS, Version 1.4*

WebSphere Information Integrator Classic Event Publisher editions support the following host databases:

- *Software AG Adabas 7.1.3 or 7.4.3*
- *IMS, Version 7.1*
- *VSAM with CICS[®] for z/OS, Version 1.4*
- *Advantage CA-IDMS/DB for z/OS, Versions 14.1 and 15*
- *DB2 Universal Database for z/OS supported through IBM WebSphere Information Integrator Event Publisher for DB2 Universal Database for z/OS*

For more information

To learn more about the technologies behind these IBM WebSphere Information Integration products, contact your IBM marketing representative or IBM Business Partner, or visit: ibm.com/software/data/integration/iicfp or ibm.com/software/data/integration/iicf

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