

Delivering information you can trust

IBM **Information Management** software



A summary of IBM InfoSphere Data Event Publisher capabilities

Highlights

- *Leverage changed-data events to drive business integration*
- *Deliver more current data to data warehouses for tactical decision making*
- *Provide changed-data feeds to IBM® WebSphere® DataStage® and other extract, transform and load solutions for change-only updating of operational data stores and more*
- *Extend the value of enterprise application integration solutions like IBM WebSphere MQ and IBM WebSphere Message Broker*

Data events drive business integration and data warehousing

IBM InfoSphere Data Event Publishers make it easy to link changed-data events with business processes and related data stores. InfoSphere Data Event Publishers capture data changes as they are made, using various database and system-logging mechanisms. These changes are then packaged into a consistent, relational format before being published to IBM WebSphere MQ in either a self-describing XML or a delimited values format.

These changed-data “events” can then be used by InfoSphere DataStage, WebSphere MQ middleware or any WebSphere MQ–enabled or Java™ Message Service (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.

Changed-data event publishing is ideally suited to:

- **Application-to-application integration**—*Changed-data event publishing pushes operational customer data to a packaged customer relationship management (CRM) application.*
- **Business process initiation**—*Changed-data event publishing enables a customer record to initiate a welcome e-mail, credit verification and an update to the CRM system.*
- **Critical data event monitoring**—*Changed-data event monitoring enables events like low inventory levels to trigger a process, such as a product restocking workflow.*
- **Data population**—*Changed-data event publishing feeds a data warehouse, datamart or operational data store by pushing changed data to an extract, transform and load (ETL) product like InfoSphere DataStage, which then populates the target data store(s).*

IBM addresses these and other business requirements with several offerings for event publishing:

- *IBM InfoSphere Data Event Publisher*
- *IBM InfoSphere Data Event Publisher for z/OS®*
- *IBM InfoSphere Classic Data Event Publisher for z/OS®*

InfoSphere Data Event Publishers complement and extend client investments in Service Oriented Architecture (SOA), enterprise application integration (EAI) 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 data events that may be initiated by multiple applications, making the data-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*

Two architectures, one model

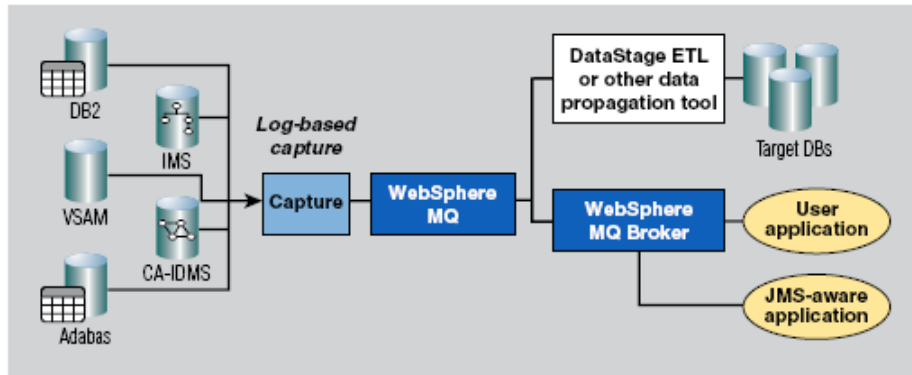
The two InfoSphere Data Event Publisher architectures include one for relational data sources and one for “classic” or legacy z/OS data sources. InfoSphere Data Event Publisher and InfoSphere Data Event Publisher for z/OS support relational database events.

InfoSphere Classic Data Event Publisher for z/OS supports data events for VSAM files as well as IBM IMS™, CA-IDMS and Software AG Adabas databases.

InfoSphere Data Event Publisher and its z/OS counterpart, InfoSphere Data Event Publisher for z/OS, use relational database logs and logging mechanisms as the source for their changed-data capture processing. Once captured, the relational data is transformed into an XML message format before being published to WebSphere MQ for use by other applications and tools.

InfoSphere Classic Data Event Publisher uses database- and file-specific logging mechanisms for its changed-data capture processing; for example, the IMS logger and IMS logs for IMS and CA-IDMS journaling and journals for CA-IDMS. Adabas uses a custom Adabas exit routine. VSAM changes can be captured in multiple ways using IBM MVS™ Forward Recovery logs, the IBM CICS® Autojournal or a native VSAM file agent.

Regardless of the source, captured data is transformed into a relational format consistent with that used by InfoSphere Data Event Publisher before being published to WebSphere MQ in either an XML message format or a delimited values format. This consistency of data formatting makes it easy to integrate all of the data event publishing solutions with ETL tools like InfoSphere DataStage, EAI tools like IBM WebSphere MQ Broker and hundreds of other IBM and third-party tools.



Supported databases

- InfoSphere Data Event Publisher supports IBM DB2® for Linux®, UNIX® and Microsoft® Windows®
- InfoSphere Data Event Publisher for z/OS supports DB2 for z/OS
- InfoSphere Classic Data Event Publisher for z/OS supports the following host databases:
 - Software AG Adabas
 - Advantage CA-IDMS/DB for z/OS
 - IMS, Version
 - VSAM for z/OS

For detailed information on the specific versions of each of the above data sources supported, please visit ibm.com/software/data/integration/classic_data_event_publisher_z/

ibm.com/software/data/integration/data_event_publisher_z/

ibm.com/software/data/integration/data_event_publisher/

IBM InfoSphere Information Server

InfoSphere Data Event Publisher offerings are companion products to IBM InfoSphere Information Server, an innovative new software platform that helps you derive more value from the complex, heterogeneous information spread across your systems. It enables your organization to integrate disparate data and deliver trusted information whenever and wherever needed, in line and in context, to specific people, applications and processes.

IBM InfoSphere Information Server helps business and IT personnel collaborate to understand the meaning, structure and content of any type of information across any sources. It also provides breakthrough productivity for cleansing, transforming and moving this information consistently and securely throughout the enterprise, so it can be accessed and used in new ways to drive innovation, help increase operational efficiency and lower risk.

For more information

To learn more about IBM InfoSphere Information Server, contact your IBM marketing representative or IBM Business Partner, or visit ibm.com/software/data/integration

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IBM Software Group
Route 100
Somers, NY 10589