

# IBM InfoSphere Data Event Publisher offerings, Version 9.5: Publishing changed data

## 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® InfoSphere® DataStage® and other extract, transform and load solutions for change-only updating of a dynamic data warehouse, operational data stores and more**
- **Extend the value of enterprise application integration solutions like IBM InfoSphere MQ and IBM InfoSphere Message Broker, using data events to drive business processes**

## 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 InfoSphere MQ in either a self-describing XML or a delimited values format.

These changed-data “events” can then be used by InfoSphere DataStage, InfoSphere MQ middleware or any InfoSphere 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:

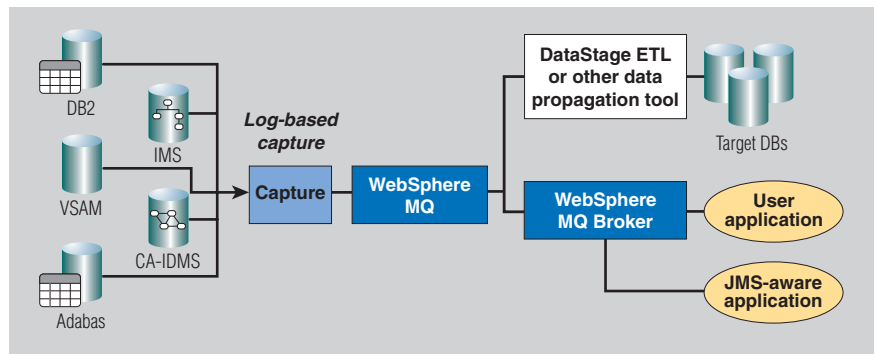
- *IBM InfoSphere Data Event Publisher, Version 9.5*
- *IBM InfoSphere Data Event Publisher for z/OS®, Version 9.5*
- *IBM InfoSphere Classic Data Event Publisher for z/OS, Version 9.5*

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 a delimited or XML message format before being published to WebSphere MQ for use by other applications and tools. Browser-based health monitoring is provided through IBM's Data Studio web console.

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 CDC, 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 embedded in the VSAM I/O process. The goal is to enable low latency capture regardless of the type of application or tool that is changing the source database or file.

InfoSphere Classic Data Event Publisher packages captured data into a variety of formats for delivery. XML format provides a self-describing publication. A delimited values format provides a more concise publication. And a native record format specifically designed for integration with IBM InfoSphere DataStage, eliminates all reformatting. Once the captured data is formatted, it is published to WebSphere MQ for use by an ETL tool like InfoSphere DataStage, an EAI tool like IBM WebSphere MQ Broker and hundreds of other IBM and third-party tools capable of interacting with a WebSphere MQ queue. Optionally, data that is to be delivered to InfoSphere DataStage can be published to a file for later use. This enables change-only updating of the target database by InfoSphere DataStage for the non-MQ user.

### **Supported databases**

InfoSphere Data Event Publisher supports IBM *DB2® for Linux®, UNIX® and Microsoft® Windows® Versions 8.2, 9.1 and 9.5.*

InfoSphere Data Event Publisher for z/OS supports *DB2 for z/OS, Versions 7.1 8.1, and 9.1.*

InfoSphere Classic Data Event Publisher for z/OS supports the following host databases:

- *Software AG Adabas, Version 71*
- *Advantage CA-IDMS/DB for z/OS, Versions 14.1 and 15*
- *IMS, Version 71*
- *VSAM for z/OS, Version 14*

### **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.

Together, these products empower low latency delivery of changed data throughout the enterprise.



## 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](http://ibm.com/software/data/integration)

Specific information about these products can be found at [ibm.com/software/data/integration/classic\\_data\\_event\\_publisher\\_z/](http://ibm.com/software/data/integration/classic_data_event_publisher_z/)

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