IBM WebSphere DataStage MVS Edition Version 7.5.2

Highlights

■ *An accelerator for organizations that are building a data warehouse on the mainframe and need access to mainframe data sources*

■ *A powerful graphical user interface to design ETL processes that run natively on the mainframe*

■ *Generation of COBOL programs and JCL that are easily extended*

■ *Access to mainframe flat files, IBM IMS, VSAM, IBM DB2, and Teradata files*

■ *End-to- end metadata management*

Enterprise Data Integration

Mainframe computers continue to play a key role in many enterprises. They can process huge volumes of data and are simply the most reliable platform to run corporate applications for day-to-day business functions. But integrating information from multiple sources with different formats on a mainframe environment to create a data warehouse is difficult. Hand coding programs to integrate the data is expensive and requires too many resources to maintain. In this situation, having a data integration platform that has the ability to deal with data in its native form, that provides valuable enrichment of raw data, and processes the data on the mainframe where it resides is crucial to linking the business systems to a data warehouse.

IBM WebSphere Information Integration

Today's organizations face a formidable information challenge. Where is my data and content? 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 if organizations cannot ensure they have access to authoritative, consistent, timely and complete information.

The WebSphere® Information Integration platform integrates and transforms any data and content to deliver information clients can trust for their critical business initiatives. It provides breakthrough productivity, flexibility and performance, so clients and their customers and partners have the right information for running and growing their businesses.

It helps clients understand, cleanse and enhance information, while governing its quality to ultimately provide authoritative information. Integrated across the extended enterprise and delivered when the client needs it, this consistent, timely and complete information can enrich business processes, enable key contextual insights and inspire confident business decision-making.
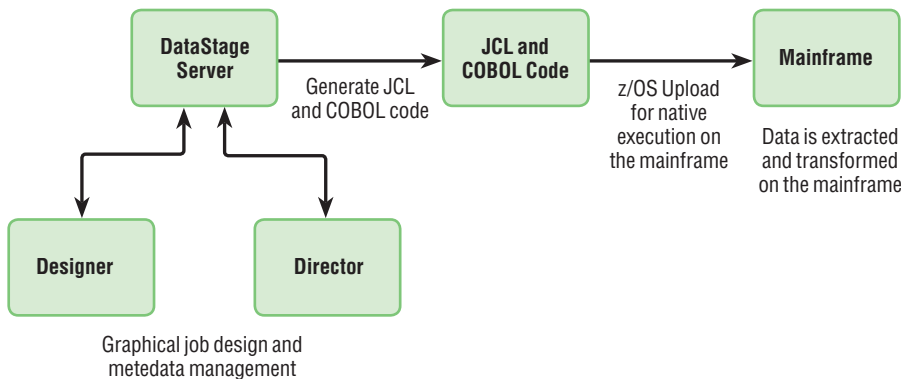

Figure 1: WebSphere DataStage MVS Edition Architecture

An Integration Solution for z/OS

Within this information integration environment, IBM WebSphere® DataStage® MVS Edition is specifically designed to integrate mainframe data to create a centralized data store for business intelligence on the mainframe. It also can be used to integrate and stage mainframe data so that it can be moved to a distributed platform and integrated with other enterprise data.

WebSphere DataStage MVS Edition includes:

- *Native COBOL support*
- *Support for complex data structures*
- *Multiple sources and targets*
- *Codeless development*
- *Job versioning*
- *End-to-end metadata management*

WebSphere DataStage MVS Edition complements customers' existing infrastructure and skill sets because there is no need to hire and train new personnel. By processing data directly on the mainframe, and utilizing the sophisticated security, access, and management capabilities that already exists there, customers are able to continue to rely on the mainframe as the production environment for critical enterprise information. The ability to use existing mainframes for data warehousing helps protect the investment customers have made in this platform. It also avoids the costs that moving to new systems would introduce and ensures security while reducing the possibility of errors associated with additional data handling.

Native COBOL Support

The WebSphere DataStage MVS Edition provides a high productivity design and development process. The intuitive graphical design interface requires no hand coding. The WebSphere DataStage MVS Edition generates COBOL programs and their accompanying JCL scripts. After the COBOL and JCL are generated, it uploads the files to the mainframe for compilation and execution. The COBOL programs are easily extended with customized programs, and once a job executes, the operational metadata is sent back to the WebSphere DataStage repository.

Connectivity to Relational and Hierarchical Data Structures

WebSphere DataStage MVS Edition provides mainframe connectivity to IBM DB2, IMS, VSAM, QSAM, ISAM, and flat files as well as for Teradata on Windows or MP-RAS systems. This edition has support for Teradata FastLoad, Multi-Load, TPump, and FastExport. It also has a relational stage for custom SQL.

A sophisticated editor is also provided for hierarchical and multi-format files, which are common to mainframe environments. For IMS data it includes a graphical editor to specify details about the IMS database, views, segments, fields and it generates DLI and BMP programs.

Metadata Management

WebSphere DataStage MVS Edition includes metadata management functions for:

- *COBOL file descriptions*
- *DB2 table definitions*
- *IMS database and program specification blocks*
- *PL/1 file descriptions*
- *Assembler DSECT import*
- *Metadata from any WebSphere MetaBroker*

Operational metadata to describe an integration process include:

- *Project and job names*
- *Job start and finish times*
- *Job status*
- *Job parameter names and values*
- *Dataset names for flat file stages*
- *Number of records read*
- *Number of records passed to a stage*
- *Number of records written to target*
- *Routine names for external sources*

For more information

To learn more about this product, about WebSphere DataStage for z/OS, or about other IBM WebSphere Information Integration offerings for the mainframe or other enterprise platforms, contact your IBM marketing representative or IBM Business Partner, or visit:
ibm.com/software/data/integration

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