

IBM WebSphere DataStage Packs: Connectivity for Enterprise Applications

Highlights

- ***Seamless connectivity between the most widely-used enterprise applications and the only complete data integration solution – the IBM WebSphere Data Integration Suite***
- ***Faster deployment time and reduced enterprise data integration costs through rapid, automated integration of enterprise data and meta data***
- ***Integration with the widest range of enterprise data sources from SAP, Siebel, PeopleSoft and Oracle Applications via the GUI-driven drag-and-drop design in IBM WebSphere DataStage***
- ***SAP Certified Integration and Siebel Validated integration***

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.

Leveraging the Value of Enterprise Applications Through Enterprise Integration

Competitive advantage in today's business environment means being able to take advantage of all your corporate information. It means being able to reconcile data from all available sources to make the smartest strategic and tactical decisions. While you've invested heavily in the applications that can help make this happen - market leaders like SAP, Oracle, Siebel and PeopleSoft - you also know from hard experience that there is incompatibility between them.

This limits your ability to drive success. It's an integration challenge of mammoth scale: source systems with different data structures, multiple source systems containing duplicate data, the daily changes in the volumes, structures and sources of data, no common definition of master data. The list of obstacles is unending.

IBM WebSphere DataStage Packs: Connectivity for Enterprise Applications

IBM WebSphere DataStage® connectivity for enterprise applications comprises a set of packs that provides seamless connectivity between the most widely-used enterprise applications and the only complete data integration solution – the WebSphere Data Integration Suite. This combination brings together disparate source systems, legacy systems, enterprise applications and BI/analytic tools – enhancing the speed and effectiveness of business analysis.

The WebSphere DataStage Packs enable enterprise applications to benefit from the robust capabilities of the WebSphere Data Integration Suite:

- **Extensive Support for Complex Transformations**
Integrate the widest range of enterprise data sources from enterprise applications via the GUI-driven drag-and-drop design in WebSphere DataStage. And extensive transformation capabilities support integration between heterogeneous environments. Now all information can be accessed, managed and viewed across the entire organization, regardless of its source.
- **Automated Data Profiling**
Accelerate the deployment of enterprise applications by automatically profiling the structure and content of source systems, and then generating an optimal plan for integration.

- **Best-in-Class Data Quality**
Industry-leading data quality solutions allow you to cleanse and standardize data prior to propagating it throughout the company through your enterprise application.
- **Total Integration Meta Data Management**
End-to-end meta data management provides a common understanding of the meaning and history of your data throughout the integration process.
- **Unlimited Integration Performance**
The underlying performance of the parallel-processing engine ensures that no matter how big the data or how complex the integration, the WebSphere Data Integration Suite delivers results at the speed of business.
- **Real-Time Integration Services**
Not only does data need to be extracted and loaded in batch, but also up-to-the-minute data feeds are required to support management decision-making in your “business time.”

Packs – Built to Meet Your Needs

Whatever approach you choose to manage your decision support or enterprise application initiative, the WebSphere DataStage Packs provide the solution you need. Whether you're creating a heterogeneous business intelligence environment with a variety of sources, or have plans to migrate to just one enterprise application, IBM

enables you to integrate your valuable corporate data quickly and efficiently.

IBM offers a variety of enterprise connectivity packs that are easily used with WebSphere DataStage:

- *WebSphere DataStage Pack for SAP BW*
- *WebSphere DataStage Pack for SAP R/3*
- *WebSphere DataStage Pack for Siebel*
- *WebSphere DataStage Pack for PeopleSoft Enterprise*
- *WebSphere DataStage Pack for PeopleSoft EnterpriseOne*
- *WebSphere DataStage Pack for Oracle Applications*

This family of WebSphere DataStage Packs provides the following key benefits:

- *Faster deployment time and reduced enterprise data integration costs*
- *Rapid, automated integration of enterprise data and meta data*
- *Aggregate view of the business for improved decision support*
- *Better return on investment from existing enterprise applications*
- *Improved reporting and analysis*

WebSphere DataStage Pack for SAP BW

The WebSphere DataStage Pack for SAP Business Information Warehouse (BW) enhances the openness of SAP NetWeaver BI by

IBM WebSphere DataStage Packs – Architectural Overview

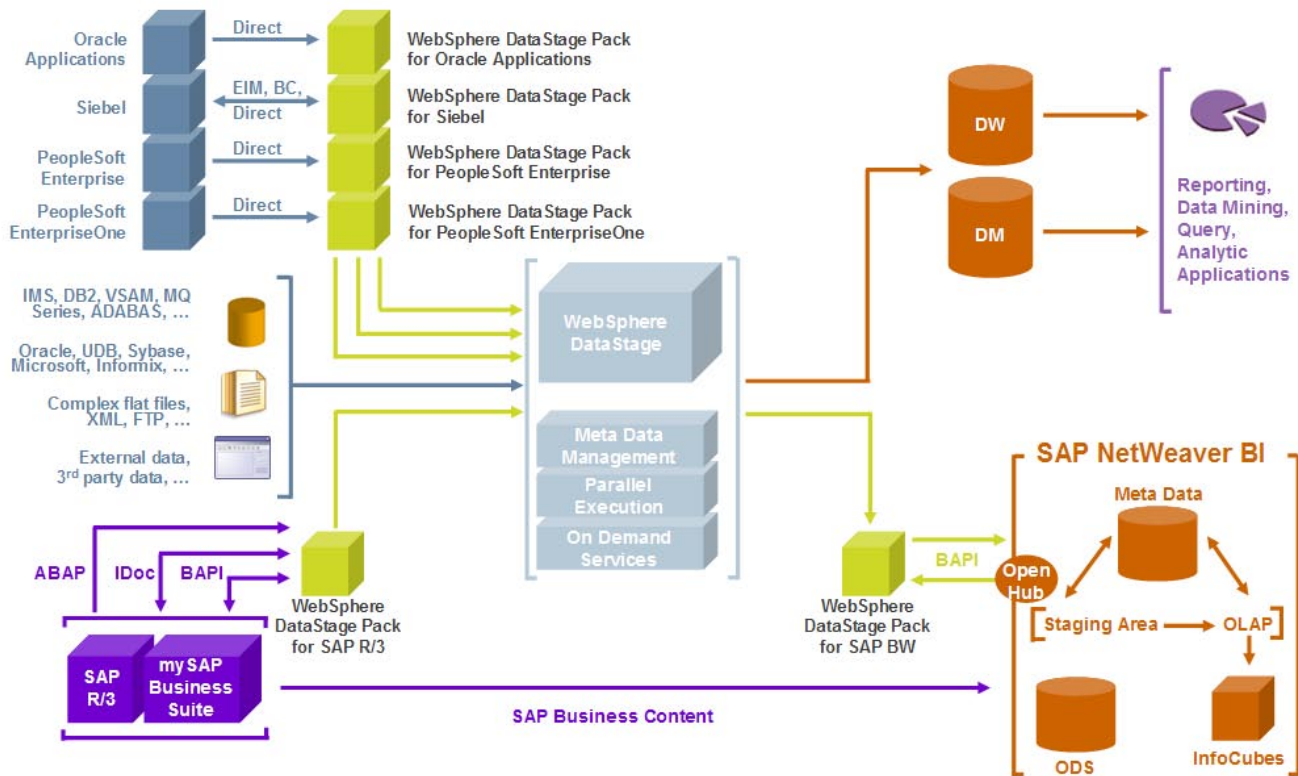


Figure 1: Architectural Overview of WebSphere DataStage Packs

rapidly integrating non-SAP data into SAP BW. It populates SAP BW with heterogeneous data from any source system – not only from complex flat files, mainframe databases and legacy systems, but also from other enterprise applications, via the WebSphere DataStage Packs for Siebel, PeopleSoft and Oracle Applications. Using SAP’s standard Business Application Programming Interfaces (BAPIs), the WebSphere DataStage Pack for SAP BW automates the process of connecting

to and selecting source data through meta data integration, data mapping, and direct data load into SAP BW, reducing project time and cost.

The WebSphere DataStage Pack for SAP BW also supports extracting information from SAP BW for use in other data marts, data warehouses, reporting applications and other targets. Using SAP BW OpenHub Services, the extract capability of the Pack lets users graphically browse and select OpenHub targets. The

OpenHub extract capability is the only method supported by SAP and provides the most seamless and efficient way on the market for further leveraging your SAP BW data in downstream targets.

Pack Advantage:

- *SAP Certified Integration – for both loading and extracting data.*
 - *Direct access to, and creation of, SAP BW meta data within the WebSphere DataStage user interface. Users can browse, select, create and change SAP BW meta data objects – Source Systems, InfoSources, InfoObjects, InfoCatalogs, InfoPackages – using complete meta data integration capabilities.*
 - *Greatly reduces the manual, custom development necessary to deploy SAP BW with non-SAP data.*
 - *Administrative flexibility. The WebSphere DataStage Pack for SAP BW allows administrators to schedule, run and monitor jobs from WebSphere DataStage or the SAP BW Monitor interface. Additionally, all connections to SAP BW and SAP R/3 can be managed from a single administrator console.*
 - *Rapidly loads SAP BW for improved performance:*
 - *Stream data directly from non-SAP sources into SAP BW, without landing the data to an interim file or database*
 - *Process multiple data loads in parallel via Remote Function Call (RFC) server multi-threading*
 - *Supports SAP load balancing*
- *Highly efficient ETL (extract, transform, load) job design:*
 - *Define WebSphere DataStage parameters and values from the SAP BW InfoPackage via pull-down selection lists.*
 - *Define source data filter parameters in SAP BW and transfer original source data extraction process in DataStage.*
 - *Define source data filter parameters in SAP BW and transfer original source data extraction process in DataStage.*
 - *Point-and-click solution for complex transformations.*
 - *Facilitates extracting SAP BW data for use in other data mart, data warehouse or operational application.*
 - *Browse and select SAP BW Process Chains and InfoSpokes from WebSphere DataStage.*
 - *Initiate Process Chain execution from WebSphere DataStage, retrieve InfoSpoke meta data.*
 - *Extract data from relational database table results after InfoSpoke execution.*
 - *Unicode and National Language Support*

WebSphere DataStage Pack for SAP R/3

The WebSphere DataStage Pack for SAP R/3 enables users to both extract from, and load data to, SAP R/3, mySAP ERP and all mySAP Business Suite application modules. This ensures data can be used across the entire organization, maximizing the full potential of SAP. Once extracted, WebSphere DataStage can enrich SAP data by mapping, aggregating and reformatting it for use in other applications.

The WebSphere DataStage Pack for SAP R/3 supports three separate SAP interfaces – ABAP (Advanced Business Application Programming), IDoc (Intermediate Document) and BAPI. These interfaces provide maximum flexibility and choice for extracting or loading data and using the correct method to handle the volume of data you need to manage.

Features of the Pack include an ability to generate native SAP ABAP code that eliminates manual coding while speeding deployment. Another key function is the ability to capture incremental changes and produce event-triggered updates with SAP's IDoc functionality. The Pack's IDoc extract interface retrieves IDoc meta data and automatically translates the segment fields into WebSphere DataStage for real-time SAP data integration. The IDoc load interface

allows users to load quality data into SAP R/3, mySAP ERP and the mySAP Business Suite, using the built-in validations inherent in SAP IDoc processing. Finally, the BAPI interface lets users work with a “business view,” thereby eliminating any requirement of having complex SAP application module knowledge to move data in and out of SAP.

WebSphere DataStage Pack for Siebel

The WebSphere DataStage Pack for Siebel enables organizations to not only rapidly extract data from Siebel for use in other target environments, but also load data into Siebel applications, making it possible to leverage Customer Relationship Management (CRM) information throughout the enterprise. The WebSphere DataStage Pack for Siebel includes interfaces to Siebel’s enterprise information management (EIM) and Business Component layer. These two options allow users to define their data integration in familiar business views without having to understand underlying base tables, thereby greatly simplifying ETL job development for exporting Siebel data into target data warehouses and data marts, and loading non-Siebel data into Siebel for a more complete CRM implementation.

An easy-to-use graphical interface lets users define the data extraction and perform complex transformations with drag-and-drop operations. In WebSphere DataStage, users can customize extractions and automatically create and validate EIM configuration files and launch EIM, and use Business Components to easily map business objects from Siebel for use in other applications. The corresponding Siebel data and meta data is easily extracted and loaded to a target such as SAP BW or any open environment. This, in turn, facilitates enterprise decision support and enables timely CRM insight.

WebSphere DataStage Pack for PeopleSoft Enterprise

The WebSphere DataStage Pack for PeopleSoft Enterprise enables organizations to rapidly extract vast amounts of data from PeopleSoft application tables and trees. By making it fast and easy to access the data, the WebSphere DataStage Pack for PeopleSoft Enterprise allows organizations to build business intelligence infrastructures that support analysis and business decisions based on their investment in PeopleSoft data. The Pack facilitates selecting and importing the PeopleSoft meta data into WebSphere DataStage where it can be managed alongside other enterprise information.

WebSphere DataStage Pack for Oracle Applications

The WebSphere DataStage Pack for Oracle Applications allows data extraction from the entire Oracle E-Business Suite of applications, including Oracle Financials, Manufacturing, CRM and others. Like the other WebSphere DataStage Packs, the WebSphere DataStage Pack for Oracle Applications makes it easy for you to use your Oracle Applications data in the diverse target environments supported by WebSphere DataStage.

WebSphere DataStage Pack for PeopleSoft EnterpriseOne

Organizations implementing PeopleSoft EnterpriseOne can now take advantage of the data extraction and loading capabilities of the WebSphere DataStage Pack for PeopleSoft EnterpriseOne. This Pack speeds integration from EnterpriseOne applications by using standard ODBC calls to extract and load data. The WebSphere DataStage Pack for PeopleSoft EnterpriseOne extracts business views – the pre-joined database tables constructed with user-defined meta data.

The WebSphere DataStage Pack for PeopleSoft EnterpriseOne enables an organization to quickly and easily leverage the full value of PeopleSoft EnterpriseOne by allowing its data to be used in other applications, as well as loading it with important legacy, flat and other source data.

We Put Your Data to Work

Whatever approach you choose to manage your organization's infrastructure, WebSphere DataStage Packs, in conjunction with WebSphere DataStage, provide the enterprise data integration solution to put your ERP (Enterprise Resource Planning), CRM, SRM (Supplier Relationship Management), decision support or strategic enterprise application initiative to work for you – the way they are supposed to work.

System Requirements:

IBM WebSphere DataStage Packs:

Connectivity for Enterprise Applications

WebSphere DataStage Packs are available on supported versions of WebSphere DataStage that support the following operating systems: Microsoft Windows NT® and Windows 2000 clients on Intel; and Windows NT, Windows 2000/2003, HP-UX, IBM AIX®, Sun Solaris and Linux® servers.

- *WebSphere DataStage Pack for SAP BW supports SAP BW 3.0B through 3.5 and SAP OpenHub 3.5*
- *WebSphere DataStage Pack for SAP R/3 supports R/3 4.6C, 4.7 and mySAP Business Suite (ECC 5.0)*
- *WebSphere DataStage Pack for Siebel supports Siebel 2000, 7.0, 7.5, 7.7 and 7.8*
- *WebSphere DataStage Pack for Oracle Applications supports Oracle 11.5.5, 11.5.9, and 11.5.10*
- *WebSphere DataStage Pack for PeopleSoft Enterprise supports Enterprise 7.x and 8.x*
- *WebSphere DataStage Pack for PeopleSoft EnterpriseOne supports EnterpriseOne 7.3.3.3, 8.9, 8.10 and 8.11*

For current, detailed hardware and software system requirements for these and other WebSphere Information Integration products, visit ibm.com/software/data/integration.

For More Information

For more information about connectivity with enterprise applications, please refer to the companion data sheet entitled IBM WebSphere Data Integration Suite Adapters: Connectivity to Enterprise Resources (GC-18-9720-00)

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



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