

IBM Information Server: Connectivity for enterprise applications

Highlights

- ***Offers seamless connectivity between the most widely used enterprise applications and IBM Information Server, a complete data integration solution***
- ***Enables faster deployment time and helps reduce enterprise data integration costs through rapid, automated integration of enterprise data and metadata***
- ***Integrates a wide range of enterprise application data sources from SAP, Siebel, PeopleSoft, Oracle and Salesforce.com via the GUI-driven drag-and-drop design of IBM Information Server***

Unlock the value of enterprise data

An organization's ability to act swiftly and make sound business decisions is based on having access to complete and accurate views of enterprise data. Organizations recognize the value in leveraging all of their corporate information and the benefits of reconciling data into consolidated views, but the path to get there is difficult.

Critical information for a complete view of customer, product, service or partner information is often scattered throughout the enterprise—across multiple applications, departments and divisions. Each source system contains pieces of valuable information, but remains a distinct silo separated by a gulf of incompatibility. Each system calls for data in different formats and each system defines its data differently.

Managing information presents several challenges for a business. Where is it? How do I get it when I need it in the form I need it? 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 companies cannot ensure access to authoritative, consistent, timely and complete information.

IBM Information Server integration platform

The IBM® Information Server platform integrates and transforms data and content to deliver information you can trust, providing breakthrough productivity, flexibility and performance and helping ensure that organizations and their customers and partners have the right information for running and growing their businesses. It offers the ability to understand, cleanse and enhance information while governing its quality to ultimately provide authoritative information. Likewise, the IBM Information Server platform integrates information across the extended enterprise to enable consistent and complete information. Delivered when the business user needs it, this information can enrich business processes, enable key contextual insights and inspire confident business decision making.

Leveraging the value of enterprise applications through enterprise integration

The ability to take advantage of all your corporate information gives your company a competitive advantage in today's business environment. It requires reconciling data from all available sources to make the smartest strategic and tactical decisions. You may have invested heavily in applications that can help make this happen—such as SAP, Oracle, Siebel, PeopleSoft and Salesforce.com—but you also know from hard experience that they are not necessarily compatible.

Moreover, these applications can only deliver high value if the data they use is high quality. It is 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 and can limit your ability to drive success.

IBM Information Server: Connectivity for enterprise applications

IBM Information Server connectivity for enterprise applications comprises a set of packs that provides seamless connectivity between the most widely used enterprise applications and a complete data integration solution—the IBM Information Server integration platform. The combination brings together disparate source systems, legacy systems, enterprise applications and business intelligence (BI)/analytic tools to enhance the speed and effectiveness of business analysis.

IBM Information Server Packs enable enterprise applications to benefit from the robust capabilities of the IBM Information Server integration platform:

- ***Extensive support for complex transformations:*** *Integrate the widest range of enterprise application data sources via the GUI-driven drag-and-drop design incorporated within IBM Information Server. Extensive transformation capabilities support integration between heterogeneous environments. Now all information can be accessed, managed and viewed across the entire organization, regardless of 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 via your enterprise application.*
- ***Total integration metadata management:*** *End-to-end metadata 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 helps ensure that no matter how large the volume of data or how complex the integration, the IBM Information Server integration platform delivers results at the speed of business.*
- ***Real-time integration services:*** *Not only must data be extracted and loaded in batch, but up-to-the-minute data feeds are also required to support management decision making in “business time.”*

Information Server Connectivity Packs—built to meet your needs

Whatever approach you choose to manage your decision support or enterprise application initiative, IBM Information Server Connectivity Packs (see Figure 1) provide the solution you need. Whether you are creating a heterogeneous BI 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 IBM Information Server:

- *IBM Information Server Pack for SAP Business Information Warehouse (SAP BW)*
- *IBM Information Server Pack for SAP R/3*
- *IBM Information Server Pack for Siebel*
- *IBM Information Server Pack for PeopleSoft Enterprise*
- *IBM Information Server Pack for JD Edwards EnterpriseOne*
- *IBM Information Server Pack for Oracle Applications*
- *IBM Information Server Pack for Salesforce.com*

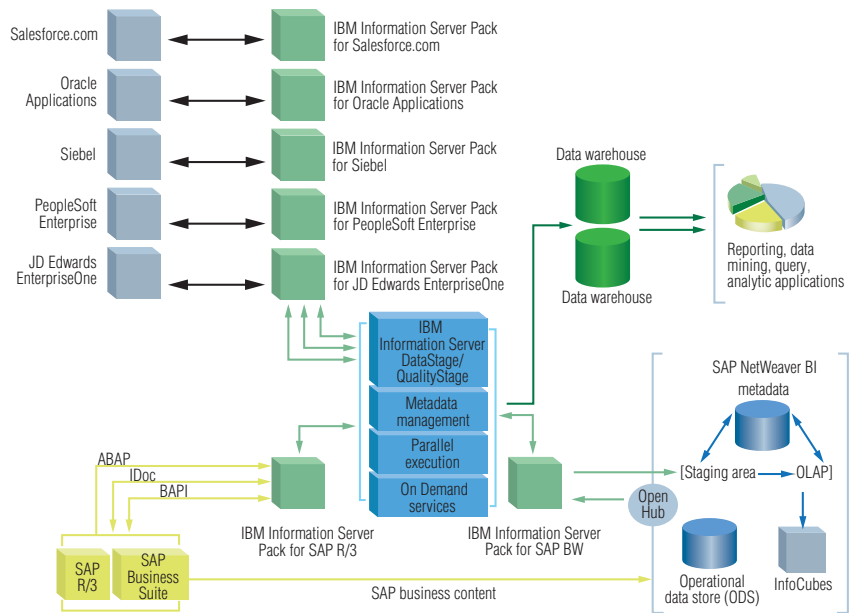


Figure 1. Architectural overview of IBM Information Server Connectivity Packs

The IBM Information Server Pack family can provide the following key benefits:

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

IBM Information Server Pack for SAP BW

IBM Information Server Pack for SAP BW helps enhance the openness of SAP NetWeaver Business Intelligence (BI) by 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 IBM Information Server Packs for Siebel, PeopleSoft and Oracle

Delivering information you can trust

Applications. Using the SAP standard BAPI programming interfaces, IBM Information Server Pack for SAP BW automates the process of connecting to and selecting source data through metadata integration, data mapping and direct data loading into SAP BW, which helps reduce project time and cost.

IBM Information Server Pack for SAP BW also supports extracting information from SAP BW for use in other datamarts, data warehouses, reporting applications and other targets. Using SAP BW Open Hub services, the extract capability lets users graphically browse and select Open Hub targets. The Open Hub extract capability is the only extraction method supported by SAP and provides a seamless and efficient way to further leverage your SAP BW data in downstream targets.

Advantages of IBM Information Server Pack for SAP BW include:

- *SAP Certified Integration for both loading and extracting data, including Unicode*
- *Direct access to and creation of SAP BW metadata within the IBM WebSphere® DataStage® user interface. Users can browse, select,*

create and change SAP BW metadata objects—Source Systems, InfoSources, InfoObjects, InfoCatalogs,

InfoPackages—using complete metadata integration capabilities

- *Helps reduce the amount of manual, custom development necessary to deploy SAP BW with non-SAP data*
- *Provides administrator flexibility by enabling administrators to schedule, run and monitor jobs from the WebSphere DataStage or SAP BW Monitor interface; all connections to SAP BW and SAP R/3 can be managed from a single administrator console*
- *Rapidly loads SAP BW for improved performance, including streaming data directly from non-SAP sources into SAP BW without landing the data to an interim file or database, processing multiple data loads in parallel via Remote Function Call (RFC) server multithreading and supporting SAP load balancing*

The IBM Information Server Pack also has a highly efficient ETL (extract, transform, load) job design, which allows administrators to:

- *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 WebSphere DataStage*
- *Define source data filter parameters in SAP BW and transfer original source data extraction process in WebSphere DataStage*
- *Use a point-and-click solution for complex transformations*
- *Facilitate extracting SAP BW data for use in another datamart, 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 metadata*
- *Extract data from relational database table results after Process Chain execution*
- *Use Unicode and National Language Support*

IBM Information Server Pack for SAP R/3

IBM Information Server Pack for SAP R/3 can enhance the performance, scalability and security of trusted data solutions for SAP—existing integration scenarios can be made better and new integration scenarios can be made possible.

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

IBM Information Server Pack for SAP R/3 supports three separate SAP interfaces—ABAP, IDocs (intermediate documents) and BAPI. The interfaces provide maximum flexibility and choice for extracting or loading data and using the correct method to handle the volume of data you must manage.

The Pack features an ability to generate native SAP ABAP code that eliminates manual coding and helps to speed deployment. The ABAP interface uses a parallel extract-RFC data transfer method that supports a secure network communications (SNC) security option.

Another key function is the ability to capture incremental changes and produce event-triggered updates with SAP IDoc functionality. The IDoc extract interface in the Pack retrieves IDoc metadata and automatically translates the segment fields into WebSphere DataStage for real-time SAP data integration. The IDoc load interface enables users to load quality data into SAP R/3, SAP ERP and SAP Business Suite by using the built-in validations inherent in SAP IDoc processing. The IDoc interface allows for “offline” processing and configurable IDoc extract batch size and IDoc-driven execution of WebSphere DataStage jobs. The IDoc interface also provides ability to exchange IDocs with SAP NetWeaver Process Integration (previously known as SAP NetWeaver Exchange Infrastructure).

Finally, the BAPI interface lets users work with a “business view,” eliminating the need to have complex SAP application module knowledge to move data in and out of SAP.

IBM Information Server Pack for Siebel

IBM Information Server Pack for Siebel enables organizations to rapidly extract data from Siebel for use in other target environments as well as load data into Siebel applications, making it possible to leverage customer relationship management (CRM) information throughout the enterprise. IBM Information Server Pack for Siebel includes interfaces to Siebel enterprise information management (EIM), Business Component and database layers. The three interfaces enable users to define data integration in familiar business views without having to understand underlying base tables, which can help simplify ETL job development for exporting Siebel data into target data warehouses and datamarts and loading non-Siebel data into Siebel applications.

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, 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 metadata 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.

IBM Information Server Pack for PeopleSoft Enterprise

IBM Information Server 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, IBM Information Server Pack for PeopleSoft Enterprise helps an organization build BI infrastructures to support analysis and business decisions based on its investment in PeopleSoft data. The metadata importer function facilitates selection and importing of PeopleSoft metadata into WebSphere DataStage, where it can be managed alongside other enterprise information.

IBM Information Server Pack for Oracle Applications

IBM Information Server Pack for Oracle Applications allows data extraction and loading from the entire Oracle E-Business Suite, including Oracle Financials, Manufacturing, CRM and others. The Pack facilitates selection and importing of Oracle Applications metadata into WebSphere DataStage so it can be managed alongside other enterprise information. Like the other IBM Information Server Packs, IBM Information Server Pack for Oracle Applications makes it easy to use your Oracle Applications data and metadata in the diverse target environments supported by WebSphere DataStage.

IBM Information Server Pack for JD Edwards EnterpriseOne

Organizations implementing JD Edwards EnterpriseOne can take advantage of the data extraction and loading capabilities of IBM Information Server Pack for JD Edwards EnterpriseOne. The Pack can speed integration from EnterpriseOne applications by using standard Open Database Connectivity (ODBC) calls

to extract data. It can also extract business views—the prejoined database tables constructed with user-defined metadata—and supports delta processing to capture incremental changes. IBM Information Server Pack for JD Edwards EnterpriseOne enables an organization to quickly and easily leverage the full value of JD Edwards EnterpriseOne by allowing its data to be used in other applications.

IBM Information Server Pack for Salesforce.com

IBM Information Server Pack for Salesforce.com enables no-programming, metadata-based, fully configurable and high-performance data integration between Salesforce.com and other enterprise data repositories via the highly scalable IBM Information Server platform. Organizations can use the Pack to extract, load, cleanse and synchronize front-office data hosted in Salesforce.com applications with other business data stored in on-premises back-office enterprise resource planning (ERP) applications, data warehouses and analytic applications.

IBM Information Server Pack for Salesforce.com is AppExchange certified and includes:

- *Secure connectivity to Salesforce.com from IBM Information Server via the Internet*
- *Easy user interface–based, application-level access to Salesforce.com metadata via the Force.com application programming interface (API)*
- *Automatic generation of Salesforce Object Query Language (SOQL) syntax and ability to use custom SOQL*
- *Discover, load and extract Salesforce.com business objects from IBM Information Server*

Business benefits include:

- *Helps reduce costs and increase productivity of ETL development teams by eliminating the need to learn Salesforce.com APIs*
- *Helps enhance the ROI benefits of hosted Salesforce.com CRM and sales force automation (SFA) deployments*

- *Helps clean and transform Salesforce.com data and integrate it with on-premises applications, including ERP and master data management (MDM)*
- *Makes critical back-office data visible to customer-facing employees, enabling them to make better customer decisions*

IBM puts data to work

Whatever approach you choose to manage your organization's infrastructure, IBM Information Server Packs—in conjunction with WebSphere DataStage and WebSphere QualityStage™—can provide the enterprise data integration solution to put your ERP, CRM, supplier relationship management (SRM), decision support or strategic enterprise application initiatives to work for you—the way they are supposed to work.

System requirements

IBM Information Server Packs run as applications on the IBM Information Server platform and thus must meet or exceed the hardware requirements of the base product including operating system platforms such as Microsoft® Windows®, UNIX® and Linux® operating systems.

The versions of enterprise applications supported are:

- **IBM Information Server Pack for SAP BW:** SAP BW 3.5, SAP NetWeaver 2004s or SAP NetWeaver BI 7.0
- **IBM Information Server Pack for SAP R/3:** SAP R/3 4.6C, 4.7 and SAP ERP/ECC Business Suite 5.0, 6.0
- **IBM Information Server Pack for Siebel:** Siebel 7.7, 7.8 and 8.0
- **IBM Information Server Pack for Oracle Applications:** Oracle Applications 11.5.x and 12
- **IBM Information Server Pack for PeopleSoft Enterprise:** Enterprise 8.9 and 9.0
- **IBM Information Server Pack for JD Edwards EnterpriseOne:** EnterpriseOne 8.9, 8.10, 8.11 and 8.12

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



For more information

To learn more about IBM Information Server and information integration technologies and products, please contact your IBM marketing representative or IBM Business Partner, call 1-800-SHOP-IBM within the U.S. or visit ibm.com/software/data/ips

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