IBM WebSphere® Data Interchange V3.3

WebSphere Data Interchange components

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This presentation will give an overview of the WebSphere Data Interchange Components.

Agenda

- Identify WebSphere Data Interchange components

- Describe the function of each component

- Explain the relationship between the components

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The presentation will identify WebSphere Data Interchange components, describe the function of each component, and explain the relationship between the components.

Section

Components

WebSphere Data Interchange components

This section will Identify the WebSphere Data Interchange Components.

Components

- WebSphere Data Interchange Client

- WebSphere Data Interchange Server
    - Send/receive translation process
    - Data transformation process

- WebSphere Data Interchange database

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The major WebSphere Data Interchange (WDI) components are the client, the server, and the database.

Components

- ## WebSphere Data Interchange Client

  - ▶ A Graphical User Interface (GUI) mapping tool to create the source to target data relationships for transformation

  - ▶ Supports EDI, application data format, and XML as source and target data types

  - ▶ Allows direct import of EDI standards definitions, application data structures, and industry-standard or user-defined XML DTDs.

The WebSphere Data Interchange Client provides a dedicated GUI mapping tool that is optimized to build the objects involved with data translation or transformation.

Your source or input data type may be EDI, XML, or from your application. And your target or output data type may be EDI, XML, or going to

your application. The source and target object definitions must be defined for the data translation or transformation. WebSphere Data Interchange Client allows direct import capabilities for EDI industry defined standards and XML DTDs and Schemas. Cobol copybooks may also be imported to define your application data format.

Components

- WebSphere Data Interchange Server
  - ▶ Send translation process
  - ▶ Receive translation process
  - ▶ Data transformation process

The WebSphere Data Interchange Server supports three types of data translation or transformation. The send translation process must have application data as the source or input data and the target or output data must be EDI. The receive translation process must have EDI as the source or input data and the target or output data must be application data. The Data Transformation process may have EDI, XML, or application data as the source or input data and the target or output data may be EDI, XML, or application data.

Components

- WebSphere Data Interchange database
  - ▸ WebSphere Data Interchange Client is designed to support any database with ODBC Version 2 drivers
  - ▸ A database is classified as either single-user or multi-user
  - ▸ Single-user
    - permits only one user access at a time
    - usually reside of each user's PC
  - ▸ Multi-user
    - typically resides on a server
    - provides multiple users shared access to a common database

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Many database packages developed by various vendors provide this level, or above, of ODBC support: each has its own database management system (DBMS). In WebSphere Data Interchange, a database is classified as either single-user or multi-user. A single-user DBMS is one that permits only one user access at a time. These usually reside on each user's PC. A multi-user DBMS, however, typically resides on a server and provides multiple users shared access to a common database. DB2 for z/OS is an example of a server-based multi-user database. Microsoft's SQL Server, and DB2 for AIX are examples of LAN server databases with ODBC support.

Components

- WebSphere Data Interchange database
  - WebSphere Data Interchange Client partitions its data into two databases. ODBC is used to access both:
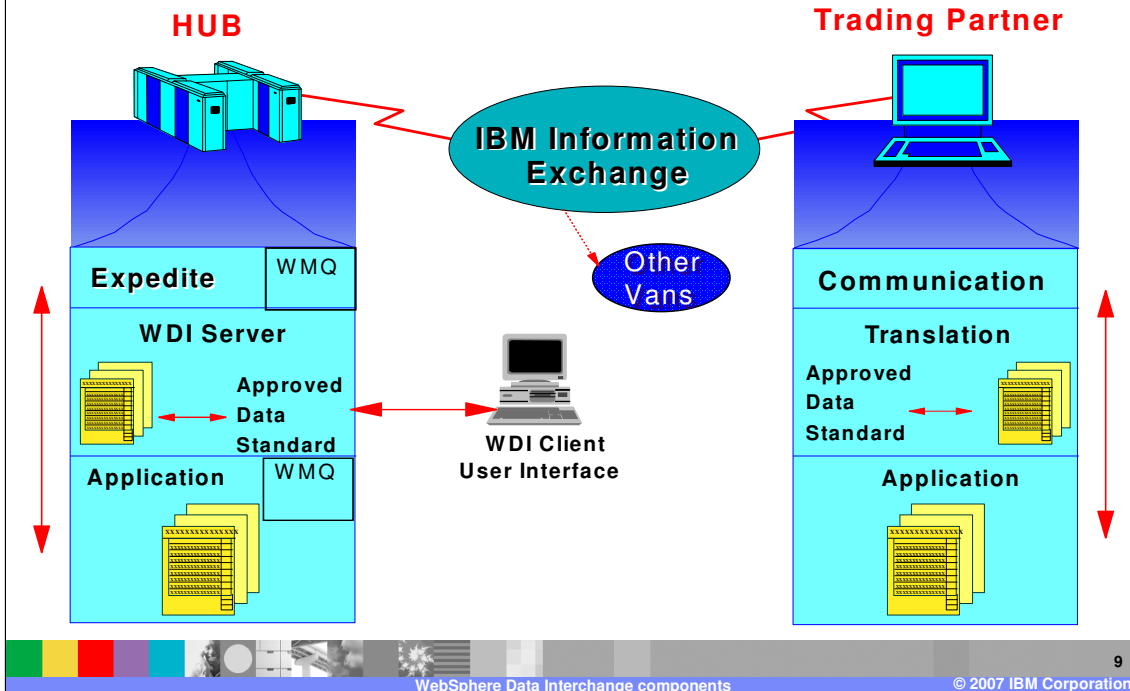   - Config
    - System

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WebSphere Data Interchange Client provides both the config and system databases as Microsoft Access single-user databases, supporting standalone operation. Since ODBC is a standard, you are not limited to using the provided Microsoft Access databases. And because each WebSphere Data Interchange Client database is independent, each can, theoretically, reside in a different database management system.

Config is a local configuration database that stores installation-wide data, such as the list of installed systems, queries, report definitions, and user preferences like the columns that appear in list windows.

The system database contains all the tables that hold customization time data and runtime data. Customization time data includes tables related to the definition of EDI standards, XML DTDs, data formats, and maps. Runtime data includes data that is required by the WebSphere Data Interchange Server to perform the translation or transformation, including the Document Store, and event logs.

Components

HUB

Trading Partner

IBM Information Exchange

Other Vans

Expedite   WMQ

WDI Server

Approved
Data
Standard

Application   WMQ

WDI Client User Interface

Communication

Translation

Approved
Data
Standard

Application

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WebSphere Data Interchange components

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Before you can use WebSphere Data Interchange to translate data, or to send or receive transactions, messages, or files, you must define certain information. This information describes how your system sends and receives data, how data is formatted in your application files and mapped to a standard, to whom you send data and from whom you receive data, and other pertinent information. WebSphere Data Interchange Client is a Graphical User Interface (GUI) mapping tool to allow you to define this information. The information is stored in the system database in the form of configuration and runtime data. The WebShpere Data Interchange Server retrieves the runtime data from the database to perform the translation or transformation. The Document Store and Event Log are the audit trail for the transformation results and are also stored in the runtime database.

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