

Oracle Adapter for Files

ORACLE ADAPTERS

KEY FEATURES

- Bi-directional integration
 - File Read
 - File Write

- Standards based support
 - JCA 1.5
 - XML
 - WSDL
 - WSIF

- Easy-to-use, Rich Design-Time
 - Comprehensive data format support
 - Sampling data and dynamic metadata generation

- Robust Proven Technology
 - Guaranteed exactly once message delivery
 - Scalable and highly available

A significant number of enterprise data in use today are distributed in flat files and the Adapter for Files rapidly integrates information stored in a variety of formats to promote global view of the business and to increase operational efficiency.

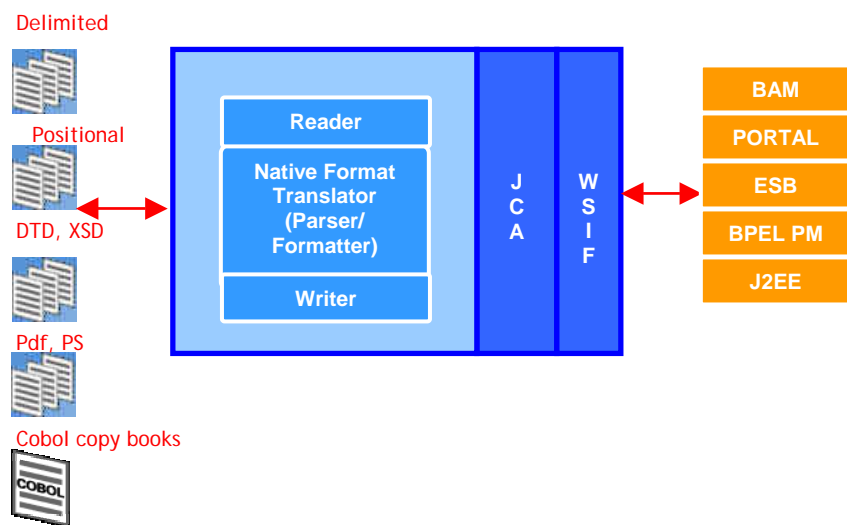


Figure 1: File Adapter Architecture Diagram

Read and Publish Files

The Adapter is capable of polling local versus remote directories for input files, parse, translate and publish the file contents as XML. The Adapter is also capable of receiving a synchronous request for polling of a particular file and returns the parsed contents of the file as a XML message.

Format and Write Files

The Adapter is also capable of receiving, translating and formatting XML content into output files of different data formats. high availability and scalability.

KEY BENEFITS:

- Exposes information stored in file systems to the entire enterprise and enables real-time processing of data.
- Reduces implementation costs and enables rapid integration by sampling files and dynamically generating standards based schema.
- Rich support for enterprise data including support for both structured and unstructured data.
- Delivers superior performance and scalability as a result of proven batching, multi-threaded support and fan-out capabilities

RELATED PRODUCT AND SERVICES

The OracleAS 10g Adapter is part of the OracleAS 10g product family. Related products include:

- Oracle AS Integration BPM
- Oracle AS Integration InterConnect
- Oracle AS Portal

GETTING STARTED

For additional information on Oracle AS 10g Integration, please visit www.oracle.com

- You can download OracleAS 10g Enterprise Edition at: <http://otn.oracle.com>

Comprehensive Data format support

The Adapter can process various enterprise data formats and can handle binary as well as text formats. The Adapter is capable of handling positional, delimited, binary, EBCDIC, COBOL copy books and XML (both DTD and XSD based) files. Oracle has partnership with ItemField to handle unstructured data like Microsoft Excel, pdf and ps files.

Rich Format Builder

The File Adapter design-time wizard launches a sophisticated Format Builder wizard for sampling data and dynamically generating XSD schemas for different native formats. At run-time the adapter uses the above schema to parse and format native data to XML and back. The translation logic to convert from non-XML enterprise data to standard XML is a point and click operation leading to rapid development and increase in productivity.

Standards Support and integration with Oracle AS product components

The Adapter supports open standards such as JCA, XML, Web Services (WSDL) and Web Service Invocation Framework (WSIF) and is truly portable across J2EE platforms.

The Adapter seamlessly integrates with all Oracle Application Server product components and access to flat files can be web-enabled, exposed as portlets or integrated with a business process without any coding effort.

Robust and Comprehensive File Handling capabilities

- The Adapter can handle fixed-length as well as variable length files.
- The Adapter supports batching and debatching and can process the entire file as a single record or split a single file into multiple records or batches.
- The Adapter supports sophisticated pattern matching and enables specification of both inclusion and exclusion patterns.
- The Adapter supports extensive post processing options for both Read and Write operations.
- The Adapter is capable of recovering from system crashes and ensures guaranteed delivery of messages.
- The Adapter supports extensive error handling and repair capabilities including setting up a business process for handling correction of data errors.
- The Adapters support Header elements that can be manipulated from within a business process and is used to perform conditional processing within a business process as well as to dynamically specify the output file name for a Write operation.
- The Adapter SDK exposes performance metrics to provide visibility into the time spent on each processing step within the Adapter. The performance metrics can be monitored using the Oracle Enterprise Manager.

- The Adapter can be tuned to enable concurrent parallel executions to support processing of large number of files.
- The Adapter is capable of fanning out to improve scalability and a single Adapter endpoint can publish messages to a cluster of BPEL processes

Summary

Oracle Adapter for Files offers the most complete standards based connectivity solution for accessing file systems distributed throughout the enterprise.