



Oracle Integrations

FBDI Main Integration

I have developed an inbound integration to load suppliers' data from fbdi to fusion

Here source is ebs and target is fusion

Connections are atp, ftp, & ERP

- ❖ Create a Scheduled Integration and then I
- ❖ Used the FTP connection with the "List File" operation to retrieve files from the SFTP folder.
- ❖ Use a Switch action for conditional logic. Check for item count. if item count is 0 then send an email notification stating sftp is not loaded with proper file.
- ❖ If item count is greater than 0 then Implement a For Each action to process each file individually.
- ❖ Use the FTP Download action to download files into OIC from FTP and unzip them.
- ❖ Establish an ATP connection to insert non-FBDI data into custom ATP tables using a PL/SQL procedure and transform the data into FBDI format.
- ❖ Extract the FBDI data into OIC using a Run SQL Statement action.
- ❖ Use the Stage File - Write action to create a properties file containing:
 - Job Name
 - Job Definition Name
 - Zip File Prefix
 - Job Parameters
- ❖ Utilize the Stage File - Zip operation to compress the FBDI file and properties file.
- ❖ Send the ZIP file to an FTP location for future reference.
- ❖ Establish an ERP connection.
- ❖ Select the FBDI Bulk Import option.
- ❖ Choose the appropriate Job Name.
- ❖ Enable the Callback Option.
- ❖ Develop a callback integration to receive:
 - Output files
 - Log files
 - Status updates

ERRORS: -



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1. File Not Found in SFTP Location

Issue: Scheduled integration failed because the source file wasn't available in SFTP.

Cause: The source system didn't place the file on time.

Fix:

"I added a conditional check using the Switch action. If the item count was zero, I sent an email notification to the business team and logged it in the tracking instance, so they could re-trigger the file generation."

♦ 2. Invalid File Format or Header Mismatch

Issue: Integration failed while reading file data (stage file read error).

Cause: Extra column or mismatch between file header and expected schema.

Fix:

"I validated the file structure in the ATP table, corrected the mapping, and enhanced the logic with schema validation before transformation to prevent future failures."

♦ 3. FBDI Import Job Failed in ERP

Issue: ERP adapter call succeeded, but FBDI job failed.

Cause: Data validation error (like invalid supplier name or missing ledger).

Fix:

"I checked the ESS log and output report in Fusion, identified the invalid data, corrected it in the ATP table, and re-triggered the integration. Later, I added validation checks in OIC before calling the ERP adapter."

♦ 4. Timeout or Connection Error

Issue: ERP connection timed out during FBDI import.

Cause: Network latency or large file size.

Fix:

"I implemented a retry policy in the ERP invoke and added logic to split large files into smaller batches to avoid timeout issues."

Callback Integration Process

- ❖ Create a new integration using the Application Style.
- ❖ Select the ERP Trigger Connection.
- ❖ Choose the Callback Option.
- ❖ Specify the Job Name.



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- ❖ Use an FTP connection to send log files to a designated folder.
- ❖ Implement status validation as needed.
- ❖ Use the FTP connection again to move files from the Input Directory to the Archive Directory.



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Invoking BIP in Oracle OIC

Connections Required

- ❖ SOAP Connection – External Report Web Service (WSS)
- ❖ FTP Connection
- ❖ ATP Connection

Process Flow

- ❖ Creating Integration for BIP Report Invocation
- ❖ Create an Integration using Scheduled Orchestration
- ❖ Use the SOAP Connection to connect with the External Report WSS Service
- ❖ Select the "Run Report" operation.
- ❖ Configuring the Mapper
- ❖ Attribute Format: Defines the output format of the report.
- ❖ Flatten XML: Used if the report output is in XML format.
- ❖ Size of Data Chunk Download: Set to `-1` to retrieve the complete report data.
- ❖ Report Absolute Path: Provide the exact path of the report along with the `.xdo` extension.
- ❖ Passing Parameters
- ❖ Parameter Name & Values:
- ❖ Item Name: Must match the parameter name in the BIP report.
- ❖ Values: Provide corresponding parameter values.
- ❖ Report Validation & Data Handling



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- ❖ **Validate the configuration before proceeding.**
- ❖ **The report output will be received in Base64 format.**
- ❖ **To convert Base64 output, use the decodeBase64ToReference function.**



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FTP Integration Process

- ❖ Establish an FTP connection.
- ❖ Use the "Write File" operation.
- ❖ Specify the file name pattern and directory for storage.
- ❖ Convert the report output using:
 - ❖ plaintext
 - ❖ decodeBase64ToReference (report Bytes)
- ❖ Save the decoded file in the FTP location.

ATP Integration Process

- ❖ Steps to Store Data in ATP Database
- ❖ Follow the same SOAP connection steps as above to retrieve the report.
- ❖ Select the "Stage File" action to convert Base64 data into the required format.
- ❖ Use the "Read File" operation and select report Bytes as input for the ``decodeBase64ToReference`` function.
- ❖ Connect to ATP (Autonomous Transaction Processing).
- ❖ Choose the "Perform Operation on a Table" action.
- ❖ Select the schema table & primary key.
- ❖ In the Mapper, map the source columns to the target table columns.



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HDL FTP Connection Process

Process Flow

- ❖ Preparing and uploading the HDL File
- ❖ Prepare the HDL (HCM Data Loader) file.
- ❖ Upload the file to the SFTP folder.
- ❖ Building the Integration
- ❖ Create a Scheduled Orchestration Integration in Oracle OIC.
- ❖ Configure an FTP Connection.
- ❖ Use the List Files operation to retrieve files from the FTP server.
- ❖ Processing Each File
- ❖ Implement a For Each action to process files individually.
- ❖ Add a Switch condition for decision-making:
 - If the file count from the "List File" operation is greater than zero, proceed with processing.
 - Otherwise, send an email notification.
- ❖ Downloading and Importing Data into HCM
- ❖ Use the FTP Download action to fetch files from the FTP server.
- ❖ Configure an HCM Connection in OIC.



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- ❖ Select the "Import Bulk Data using HCM Data Loader (HDL)" option.
- ❖ Choose the "Submit HDL Job" operation.
- ❖ Mapping and Job Execution



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- ❖ In the Mapper, map the File Reference and File Name fields correctly.
- ❖ Add a Wait Action (3 minutes) to allow time for job execution.
- ❖ Querying Job Status
- ❖ Use the HCM Connection again.
- ❖ Select the "Query HDL Job Status" operation to check the status of the submitted job.