IBVI- HD SUPPLY 997 INBOUND SALES ORDER

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# Document Control

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# Technical Overview

1. The purpose of this task is to assemble all the information that is required to describe the design of a software component into a complete Design Specification. This task is not a substitute for executing the individual design tasks. This specification work product can serve as a structure for completing the design for each component by providing pointers back into the Design Tasks:   
   - DS.040 Develop Design Architecture Description  
   - DS.080 Design Software Components  
   - DS.090 Design Data  
   - DS.100 Design Behavior  
   - DS.130 Design User Interface

This Design Specification documents the detailed design for HDSupply\_997\_Inbound(3.0.4). This specification, the design specifications for the other components that are part of this use-case package (package), along with the Analysis Specification for the package constitute the complete detailed design for this use case package.

## Building Blocks

1. The intent of this section is to list the building blocks that are required to design the designated component. This includes classes, objects, modules, etc. Reference the Module View of the Architecture Description (RD.130) and appropriate Software Component Design (DS.080) to derive the list of classes and their relationships.

Building Blocks



## Block Relationship Diagram

1. The intent of this section is to graphically depict how the component under consideration interfaces to related components, external systems, and other actors that interact with the use-case package. Reference the Conceptual View and Module View of the Architecture Description (RD.130) and the class diagram prepared in the Software Component Design (DS.080) and Component Behavior Design (DS.100).

The diagram below represents the base tables of each block or zone of the form (vertical) and tables referenced for validation or lookups (horizontal).

Oracle Cloud Fusion

Oracle Integration Cloud

SFTP

# ERP BI - Report Design

1. The intent of this section is to document the report format designs for the reports provided by the component. Reference or include the report specification from the User Interface Design (DS.130) for the component.

## Queries

**Query\_810\_Date\_1:**

"select distinct to\_char(dha.creation\_date,'mm/dd/yyyy') date\_of\_order\_creation, dha.order\_number oracle\_order\_number, dha.source\_order\_number, hp.party\_name customer\_name, rct.trx\_number, to\_char(rct.trx\_date, 'mm/dd/yyyy') date\_of\_invoice from doo\_headers\_all dha, ra\_customer\_trx\_all rct, hz\_parties hp, hz\_cust\_accounts hca where hp.party\_id = dha.sold\_to\_party\_id and rct.interface\_header\_attribute3 = dha.order\_number and hca.party\_id = hp.party\_id and dha.status\_code not in ('DOO\_DRAFT','DOO\_REFERENCE') and dha.order\_number in ('"

**Query\_810\_Date\_2:**

"') and to\_char(rct.trx\_date, 'yyyymmdd') in ('"

**Query\_810\_Date\_3:**

"')"

**Query\_810\_1:**

"select distinct to\_char(dha.creation\_date,'mm/dd/yyyy') date\_of\_order\_creation, dha.order\_number oracle\_order\_number, dha.source\_order\_number, hp.party\_name customer\_name, rct.trx\_number, to\_char(rct.trx\_date, 'mm/dd/yyyy') date\_of\_invoice from doo\_headers\_all dha, ra\_customer\_trx\_all rct, hz\_parties hp, hz\_cust\_accounts hca where hp.party\_id = dha.sold\_to\_party\_id and rct.interface\_header\_attribute3 = dha.order\_number and DHA.STATUS\_CODE NOT IN ('DOO\_REFERENCE','DOO\_DRAFT') and hca.party\_id = hp.party\_id and dha.order\_number in ('"

**Query\_810\_2:**

“)”

**Query\_856\_1:**

"select distinct to\_char(dha.creation\_date,'mm/dd/yyyy') date\_of\_order\_creation, dha.order\_number oracle\_order\_number, dha.source\_order\_number, hp.party\_name customer\_name, to\_char(wnd.actual\_ship\_date, 'mm/dd/yyyy') date\_of\_shipment, wnd.delivery\_id shipment\_number from doo\_headers\_all dha, doo\_fulfill\_lines\_all dfla, wsh\_new\_deliveries wnd, wsh\_delivery\_assignments wda, wsh\_delivery\_details wdd, hz\_parties hp, hz\_cust\_accounts hca where dha.header\_id = dfla.header\_id and dfla.fulfill\_line\_id = wdd.source\_shipment\_id and wdd.delivery\_detail\_id = wda.delivery\_detail\_id and wda.delivery\_id = wnd.delivery\_id and hp.party\_id = dha.sold\_to\_party\_id and DHA.STATUS\_CODE NOT IN ('DOO\_REFERENCE','DOO\_DRAFT') and hca.party\_id = hp.party\_id and dha.order\_number in ('"

**Query\_856\_2:**

"') and to\_char(wnd.actual\_ship\_date, 'yyyymmdd') in ('"

**Query\_856\_3:**

“)”

## ITEM Query

1. The intent of this section is to identify the table, columns, and source values that are required to support the above data elements. Refer to the Physical Database Design (IM.040), to identify the existing tables where the above attributes are located.
2. The intent of this section is to define the design considerations necessary to achieve the data retrieval and storage requirements for performance. Include performance requirements as specified in the Supplemental Requirements (RD.055) for service level requirements (i.e., 1-minute response time, etc.)
3. The intent of this section is to define the implementation strategy for each business rule within this component. Refer to the DS.110 Business Rules Design to capture the Business Rules for this component.

# Interface Design

1. The intent of this section is to design the services between the components and the interfaces with external systems for each Use Case. Refer to DS.080 Software Component Design and focus on calling arguments (i.e., service signature) and logic definition.

**Overview description:**

1. The inbound 997 files from HD Supply are expected to be placed in </home/hdsupply/in/HDSupply997\_Inbound/> folder on SFTP
2. The OIC Interface is scheduled to run at predefined intervals.
3. Given input files are in x12 format, so covert the inputs files into xml format.
4. The OIC interface when started will pick up all the .xml files from the above SFTP location.
5. Verifies the file count and if at least 1 exists, Assign the sequence number. For each file, the below steps are executed in sequential order. Otherwise go to step 16.
6. Download the input files into the local OIC by using FTP adapter.
7. By using stage file read the files and Assign variable for email.
8. For each AK403 Assign EmailUpdate to the variables and close the table tag update by assigning an email variable .
9. Check if AK403 !=”” and AK502 != 0.0,
   1. Again, check if AK201= “810”, then Scope of the items(**Scope\_810**).
      1. Assign variables Query\_810\_Date\_1, Query\_810\_Date\_2, Query\_810\_Date\_3, Error810Position.
      2. Get810Date by using SOAP adapter.
      3. Check 3 conditions,
         * Check if [reportBytes = "REFURV9PRl9PUkRFUl9DUkVBVElPTixPUkFDTEVfT1JERVJfTlVNQkVSLFNPVVJDRV9PUkRFUl9O VU1CRVIsQ1VTVE9NRVJfTkFNRSxUUlhfTlVNQkVSLERBVEVfT0ZfSU5WT0lDRQo="](https://ibvi-oic-ibvioic.integration.ocp.oraclecloud.com/ic/integration/home/faces/link?page=integration&code=HDSUPPLY_997_INBOUND&version=03.00.0004&mode=VIEW_MODE&consumer_url=https://ibvi-oic-ibvioic.integration.ocp.oraclecloud.com/ic/home?root=integrations&oj_Router=1N4IgDghg5gpiBcoBuMBOBnAlgewHYJAAYBmAOkMPIoBYQAaEAY2wBM54QAJAEQGUBVAAqCAMgE0A+gE4pAdgkBJAHIAhAPL8l3eiAC2rdiABqCgKIB1CQFk13Uzv2MA1lYMJcAVwA2XhmC8eUJi4RmhYeO7eXgC+0UA) , then assign Query\_810\_1, Query\_810\_2 and retrieve 810 information by using SOAP adapter.
10. Check 3 conditions, check if [reportBytes = "REFURV9PRl9PUkRFUl9DUkVBVElPTixPUkFDTEVfT1JERVJfTlVNQkVSLFNPVVJDRV9PUkRFUl9O VU1CRVIsQ1VTVE9NRVJfTkFNRSxUUlhfTlVNQkVSLERBVEVfT0ZfSU5WT0lDRQo="](https://ibvi-oic-ibvioic.integration.ocp.oraclecloud.com/ic/integration/home/faces/link?page=integration&code=HDSUPPLY_997_INBOUND&version=03.00.0004&mode=VIEW_MODE&consumer_url=https://ibvi-oic-ibvioic.integration.ocp.oraclecloud.com/ic/home?root=integrations&oj_Router=1N4IgDghg5gpiBcoBuMBOBnAlgewHYJAAYBmAOkMPIoBYQAaEAY2wBM54QAJAEQGUBVAAqCAMgE0A+gE4pAdgkBJAHIAhAPL8l3eiAC2rdiABqCgKIB1CQFk13Uzv2MA1lYMJcAVwA2XhmC8eUJi4RmhYeO7eXgC+0UA) and write file using FTP adapter to send Error message as “No data found in ERP for PO”.
11. Check if 1.0 != 1.0, then send 810 error notification and terminate the job.
12. Otherwise, write output query by using stage file.
13. Read output query by using stage file.
14. For each 810 error, write error using FTP adapter.
15. Assign a variable to update 810 error position by adding 1 number to it. For loop ends and go to next step.
    * + - If 1.0 != 1.0, then send notification Query810Error and go to next step.
        - Otherwise, repeat the step 9.1.3. c.
      1. Archive 810 files by using FTP adapter in the location <"/home/hdsupply/in/archive/Processed\_997\_Inbound\_XML">.
    1. Check if AK201=”856”, then Scope of the items(Scope\_856).
       1. Repeat the steps 9.1.1. , 9.1.2, 9.1.3, 9.1.4 for 856 and go to next step.
    2. Otherwise, send notification as “No 810 or 856”.
    3. Archive non 810 and 856 files in the location <"/home/hdsupply/in/archive/Processed\_997\_Inbound\_XML"> and go to next step.
    4. Send the notification for acknowledgement of 997 files.
16. Otherwise, send notification as “No errors”.
    1. Archive the files to the location <"/home/hdsupply/in/archive/Processed\_997\_Inbound\_XML">. For loop ends(In Step 5 for loop started) terminate the job.
17. Otherwise(In step5 checked for file exists or not), send notification as “No file exits” to the OIC team, then terminate the job.

## Service Design

1. The intent of this section is to document the services that are provided by this component, for each Use Case. Refer to the Services Design (DS.120).

HDSUPPLY\_997\_Inbound ( 3.0.4 )

<Service Name> is published for this component with the following arguments:

| Argument | Prompt | Value Set | Default Value |
| --- | --- | --- | --- |
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HDSUPPLY\_997\_Inbound ( 3.0.4 )

HDSUPPLY\_997\_Inbound (3.0.4) is published for this component with the following arguments:

| Argument | Prompt | Value Set | Default Value |
| --- | --- | --- | --- |
| ORG\_ID | Organization id | Generic | :$PROFILE$.hds\_organization\_id |
| USER\_ID | Application User ID | Generic | :$PROFILE$.user\_id |
| DATE | Selection Date | FND\_Date4\_required | :$$DATE$$ |

## External Interface Design

1. The intent of this section is to document the External interface messages (i.e., name, arguments etc.) that are sent or received by this component for all external systems for each Use Case.

CreateServiceOrder

<Message Name> is sent or received by this component with the following arguments:

| Argument | Prompt | Value Set | Default Value |
| --- | --- | --- | --- |
| ORG\_ID | Organization id | Generic | :$PROFILE$.hds\_organization\_id |
| USER\_ID | Application User ID | Generic | :$PROFILE$.user\_id |
| DATE | Selection Date | FND\_Date4\_required | :$$DATE$$ |

LocationService

<Message Name> is sent or received by this component with the following arguments:

| Argument | Prompt | Value Set | Default Value |
| --- | --- | --- | --- |
| ORG\_ID | Organization id | Generic | :$PROFILE$.hds\_organization\_id |
| USER\_ID | Application User ID | Generic | :$PROFILE$.user\_id |
| DATE | Selection Date | FND\_Date4\_required | :$$DATE$$ |

1. The intent of this section is to define the design considerations necessary to achieve the performance requirements for each interface. Include performance supplemental requirements as specified in the Supplemental Requirements (RD.055) work product for service level requirements include the Software Component Design (DS.080) with focus on the interface performance Design.

OrganizationService

<Message Name> is sent or received by this component with the following arguments:

| Argument | Prompt | Value Set | Default Value |
| --- | --- | --- | --- |
| ORG\_ID | Organization id | Generic | :$PROFILE$.hds\_organization\_id |
| USER\_ID | Application User ID | Generic | :$PROFILE$.user\_id |
| DATE | Selection Date | FND\_Date4\_required | :$$DATE$$ |

CustomerAccountService

<Message Name> is sent or received by this component with the following arguments:

| Argument | Prompt | Value Set | Default Value |
| --- | --- | --- | --- |
| ORG\_ID | Organization id | Generic | :$PROFILE$.hds\_organization\_id |
| USER\_ID | Application User ID | Generic | :$PROFILE$.user\_id |
| DATE | Selection Date | FND\_Date4\_required | :$$DATE$$ |

1. The intent of this section is to define the design considerations necessary to achieve the performance requirements for each interface. Include performance supplemental requirements as specified in the Supplemental Requirements (RD.055) work product for service level requirements include the Software Component Design (DS.080) with focus on the interface performance Design.
2. The intent of this section is to document the design changes necessary to provide archiving required to support this component. Refer to the Logical Database Design (DS.150).

# Misc

## SFTP folder structure

Incoming files : /home/hdsupply/in/unprocessed/

Archived files : /home/hdsupply/in/archive/

Unprocessed files : /home/hdsupply/in/unprocessed/

## Sample Input file



## OIC LookUp DVM details

EDI\_850\_LOOKUP

|  |  |  |
| --- | --- | --- |
| DVM EDI\_850\_LOOKUP | | |
| Input\_Type | Input\_File\_Directory | File\_Extn |
| HDS\_ARCHIVE | /home/hdsupply/in/archive/Processed\_997\_Inbound\_XML |  |
| HDS\_UNPROCESSED | /home/hdsupply/in/unprocessed/ | \*.xml |
| HDS\_REJECT\_REPORT | /home/hdsupply/in/report/ | Rejection\_Report\_%yyyyMMdd%.csv |
| HDS\_997 | /home/hdsupply/out/ |  |

# Open and Closed Issues

1. Add open issues that you identify while writing or reviewing this document to the open issues section. As you resolve issues, move them to the closed issues section and keep the issue ID the same. Include an explanation of the resolution.  
     
   When this work product is complete, any open issues should be transferred to the project- or process-level Issue Log (Manage focus area) and managed using a project level Issue Form (Manage focus area). In addition, the open items should remain in the open issues section of this work product, but flagged in the resolution column as being transferred.

## Open Issues

| ID | Issue | Resolution | Responsibility | Target Date | Impact Date |
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## Closed Issues

| ID | Issue | Resolution | Responsibility | Target Date | Impact Date |
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