ReProcess\_ASN\_INBOUND\_FILE\_FILTER (3.1.1)

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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 detailed design for Oracle fusion Cloud(OFC) to Oracle Commerce Cloud(OCC) ReProcess\_ASN\_INBOUND\_FILE\_TRANSFER(3.1.1) interface.

* Oracle Fusion Cloud application is used to getting Credit files from ERP and this data is interfaced to Oracle Commerce Cloud to upload credit limit for the customer. To achieve this, Integration needs to be established between ERP and Cloud Commerce for update the credit limit.
* This interface is used to updates the Credit limit for the Customer’s in OCC.

## 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

* + OCC – Oracle Commerce Cloud
  + OIC – Oracle Integration Cloud
  + OFC – Oracle Fusion Cloud

## 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

Commerce

Oracle

Integration

Cloud

Oracle

Fusion

Cloud

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.

# CONNECTIONS

# Query\_Part\_1

"SELECT DISTINCT PONumber,DOCUMENT\_STATUS,LINE\_NUM,VENDOR\_PRODUCT\_NUM,ITEM\_NUMBER,ITEM\_DESCRIPTION,UOM\_CODE,QUANTITY - SHIPPED\_QUANTITY NET\_QUANTITY,CHANGED\_PART\_NUMBER,PARTY\_NAME,BUYER FROM (SELECT PHA.SEGMENT1 PONumber,pha.DOCUMENT\_STATUS,PLA.LINE\_NUM,PLA.VENDOR\_PRODUCT\_NUM,(select ESIB.ITEM\_NUMBER from EGP\_SYSTEM\_ITEMS\_B ESIB where ESIB.INVENTORY\_ITEM\_ID=PLA.ITEM\_ID and PLLA.SHIP\_TO\_ORGANIZATION\_ID=ESIB.INVENTORY\_ORGANIZATION\_ID) ITEM\_NUMBER,PLA.ITEM\_DESCRIPTION,PLA.UOM\_CODE,PLA.QUANTITY,NVL((SELECT SUM(QUANTITY\_SHIPPED) FROM RCV\_SHIPMENT\_LINES WHERE PO\_LINE\_ID = RSL.PO\_LINE\_ID),0) SHIPPED\_QUANTITY,DECODE(PLA.ATTRIBUTE10, '', 'NULL', PLA.ATTRIBUTE10) CHANGED\_PART\_NUMBER,DECODE(RSH.WAYBILL\_AIRBILL\_NUM, '', 'NULL', RSH.WAYBILL\_AIRBILL\_NUM) WAYBILL\_AIRBILL\_NUM,HP.PARTY\_NAME,RSH.RECEIPT\_NUM,PPNF.FIRST\_NAME||' '||PPNF.LAST\_NAME BUYER from PO\_HEADERS\_ALL PHA,PO\_LINES\_ALL PLA,PO\_LINE\_LOCATIONS\_ALL PLLA,POZ\_SUPPLIER\_SITES\_ALL\_M PSS,RCV\_SHIPMENT\_HEADERS RSH,RCV\_SHIPMENT\_LINES RSL,POZ\_SUPPLIERS PS,HZ\_PARTIES HP,PER\_ALL\_PEOPLE\_F PAPF,PER\_PERSON\_NAMES\_F PPNF where PHA.PO\_HEADER\_ID=PLA.PO\_HEADER\_ID and PHA.PO\_HEADER\_ID=PLLA.PO\_HEADER\_ID and PLLA.PO\_LINE\_ID=PLA.PO\_LINE\_ID and PHA.VENDOR\_SITE\_ID=PSS.VENDOR\_SITE\_ID and RSH.SHIPMENT\_HEADER\_ID(+)=RSL.SHIPMENT\_HEADER\_ID and RSH.SHIP\_TO\_ORG\_ID(+)=PLLA.SHIP\_TO\_ORGANIZATION\_ID and RSL.PO\_HEADER\_ID(+)=PHA.PO\_HEADER\_ID and RSL.PO\_LINE\_ID(+)=PLA.PO\_LINE\_ID and PSS.B2B\_COMM\_METHOD\_CODE='CMK' and PS.VENDOR\_ID = PHA.VENDOR\_ID and PS.PARTY\_ID = HP.PARTY\_ID AND PHA.AGENT\_ID=PAPF.PERSON\_ID AND PAPF.PERSON\_ID=PPNF.PERSON\_ID AND PPNF.NAME\_TYPE='US' order by PHA.SEGMENT1,PLA.LINE\_NUM) WHERE PONumber = '"

# Interface Design

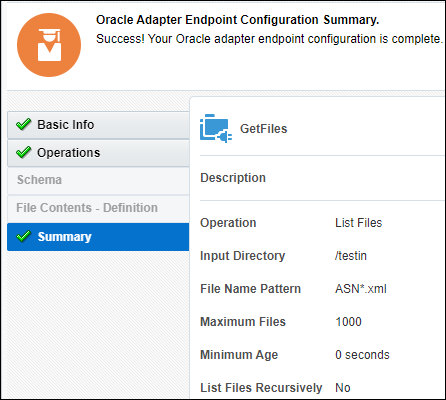
1. The intent of this section is to design the services between the components and the interfaces with external systems for each Use Case. Refer to DS.080 Software Component Design and focus on calling arguments (i.e., service signature) and logic definition.

Overview description: Interface is Scheduled based interface.

Step1: The XML files are expected to be placed at the ‘**/out/856/ARCHIVE/REPROCESSED\_ARCHIVE/testArchive**’ by using FTP adapter and

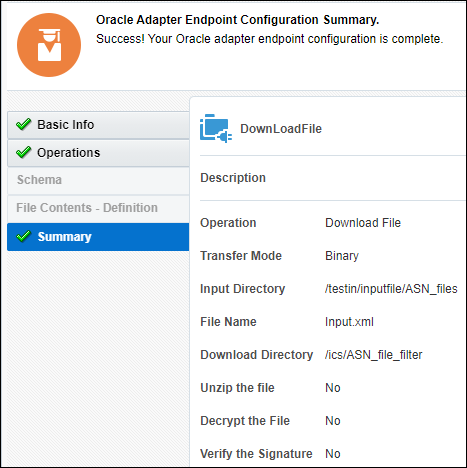
configure as below.

* Enter the name 🡪 Getfiles.
* Basic Info 🡪 Enter endpoint name.

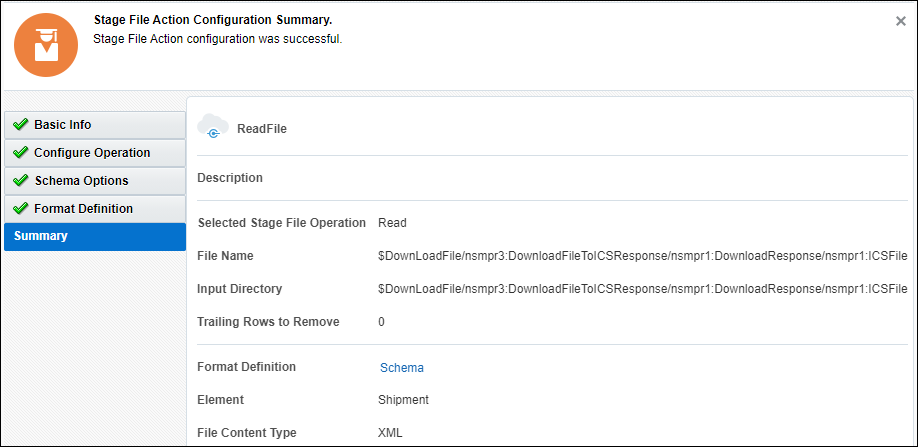


Step2: For each file, Scope of the items(File\_scope)

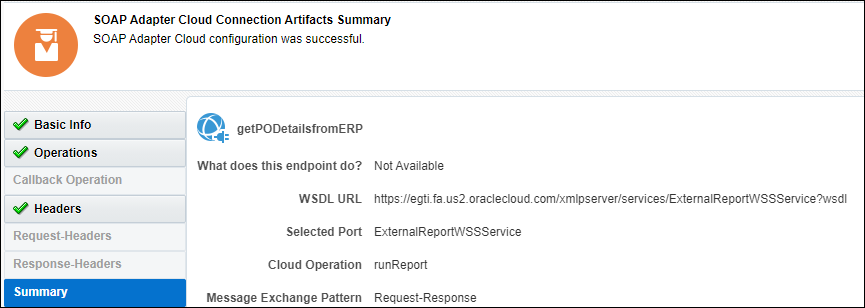
1. Download files by using FTP adapter.



1. Read files by using Stage file.

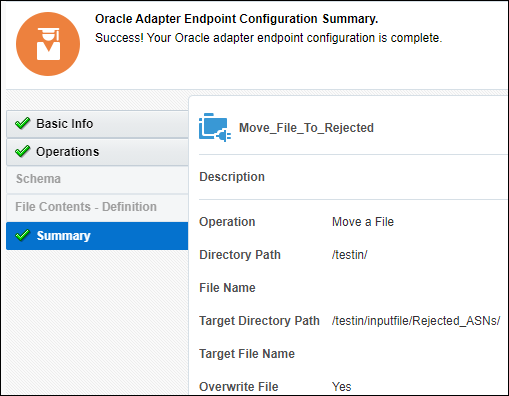


1. Assign variables Query\_Part\_1, Query\_Part\_2.
2. Get PO Details from ERP by using SOAP adapter.

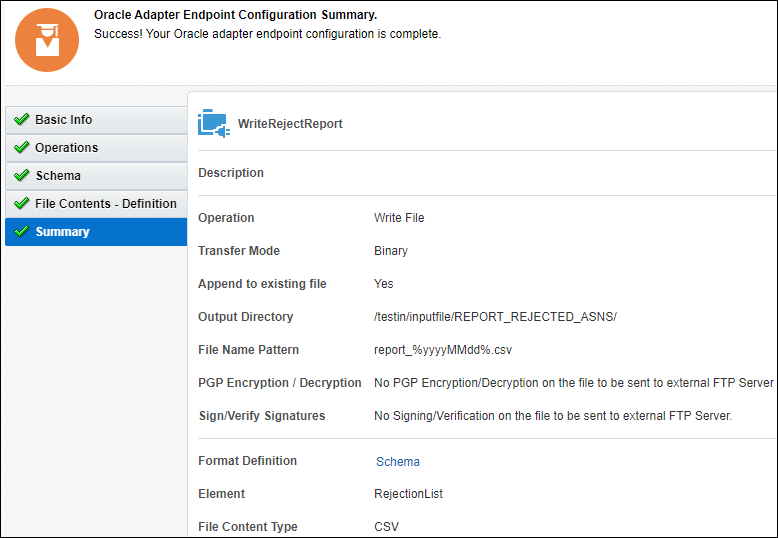


1. Check 2 conditions.
   1. Check if,

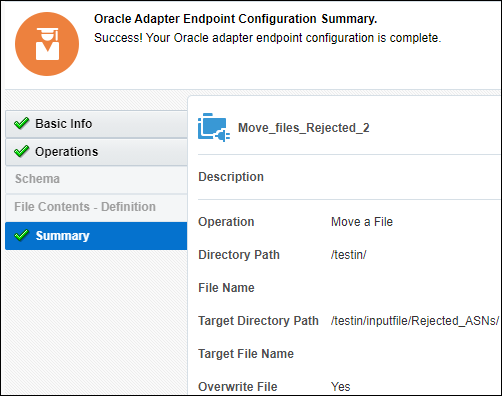
* (No data found) [reportBytes = "UE9OVU1CRVIsRE9DVU1FTlRfU1RBVFVTLExJTkVfTlVNLFZFTkRPUl9QUk9EVUNUX05VTSxJVEVN X05VTUJFUixJVEVNX0RFU0NSSVBUSU9OLFVPTV9DT0RFLE5FVF9RVUFOVElUWSxDSEFOR0VEX1BB](https://ibvi-oic-ibvioic.integration.ocp.oraclecloud.com/ic/integration/home/faces/link?page=integration&code=REPROC_ASN_INBOUN_FILE_FILTER&version=03.01.0001&mode=VIEW_MODE&consumer_url=https://ibvi-oic-ibvioic.integration.ocp.oraclecloud.com/ic/home?root=integrations&oj_Router=1N4IgDghg5gpiBcoBuMBOBnAlgewHYJAAYBmAOkIEZzDKQAaEAY2wBM54QAlAUQAVOA8gGEA+gEEAygDkRASSkAhAQFUZAMVkAZbiI2aAKt070QAW1bsQANVncA6iICyAgCLcT5xgGtHFhLgBXABsghjAggKhMXCs0LDx-YKCAX2SgA), then move file rejected directory ‘**/out/856/ARCHIVE/REPROCESSED\_ARCHIVE/testArchive/ReRejected**’ by using FTP adapter.



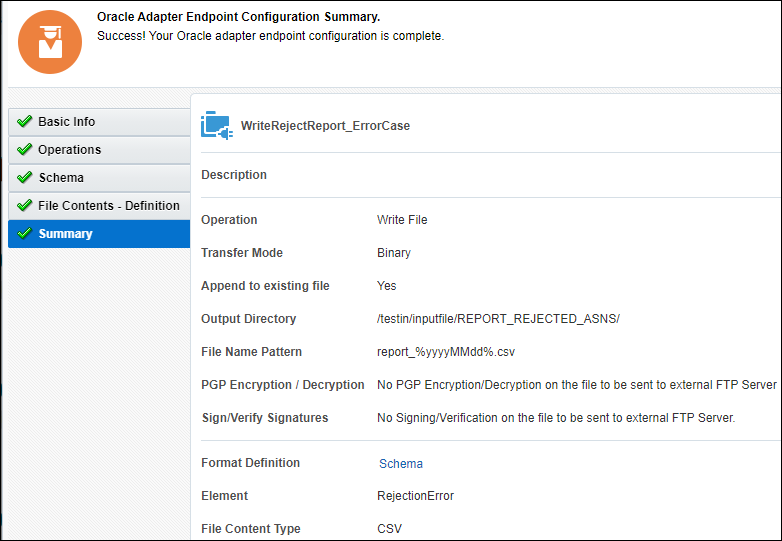
* Write rejected files by using FTP adapter and go to next step.



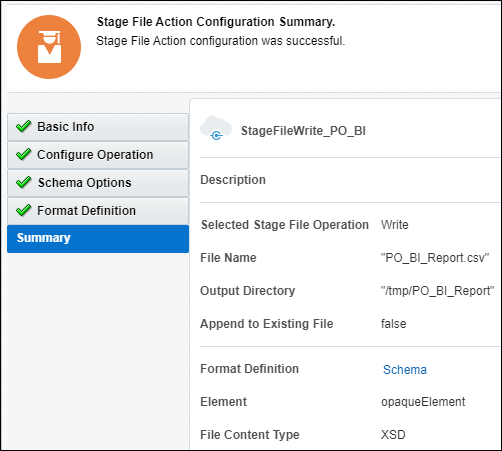
* 1. Check if,
* (Error) 1.0!=1.0, then move the files to directory ‘**/out/856/ARCHIVE/REPROCESSED\_ARCHIVE/testArchive/ReRejected**’.



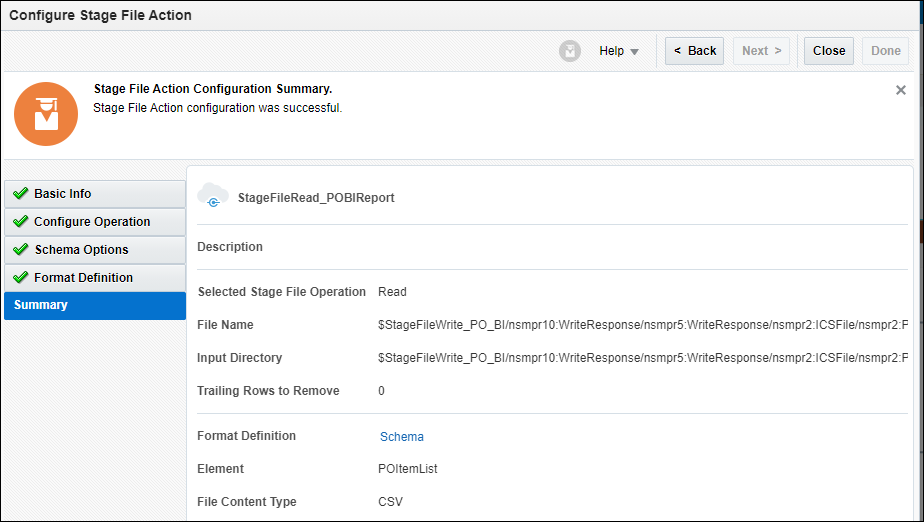
* Write rejected files by using FTP adapter and go to next step.



* 1. Otherwise, write PO BI report by using Stage file.



* Read PO BI report by using Stage file. Assign variables VENDOR\_NAME, BUYER and go to next step.



1. Scope of the items(Verify\_TrackingID\_Scope)

Assign variables wayBillNumber, wayBillExistsNumInERP.

Scope of the items(waybill\_query\_Scope)

Check 3 conditions.

* Check if String-length(ShippingSerialID>0.0), then assign wayBillNumber and go to next step.
* Check if String-length(CarrierPackageID>0.0), then assign wayBillNumber and go to next step.
* Otherwise, go to next step.

1. Get Waybill details by using SOAP adapter.
2. Write waybill by using Stage file.
3. Check 3 conditions.

* Check if no data found, then assign wayBillNumExistsInERP.
* Check if success, then read Waybill result by using Stage file and assign wayBillNumExistsInERP.
* Otherwise, go to next step.

1. Check 3 conditions.
2. Check if String-length(ShippingSerialID>0.0 and $wayBillNumExistsInERP=’YES’), then move rejected by using FTP adapter.

* Write to report by using FTP adapter.

1. Check if String-length(CarriagePackageID>0.0 and $wayBillNumExistsInERP=’YES’), then move rejected by using FTP adapter.

* Write to report by using FTP adapter.

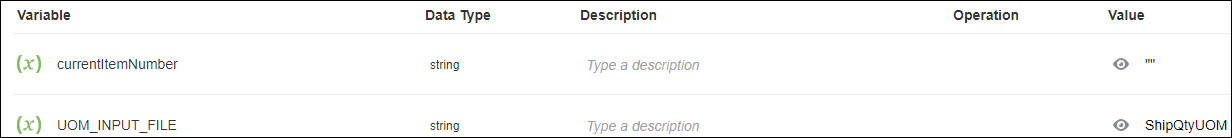
1. Otherwise, go to next step.
2. Scope of the items(While\_Each\_Item\_Scope).

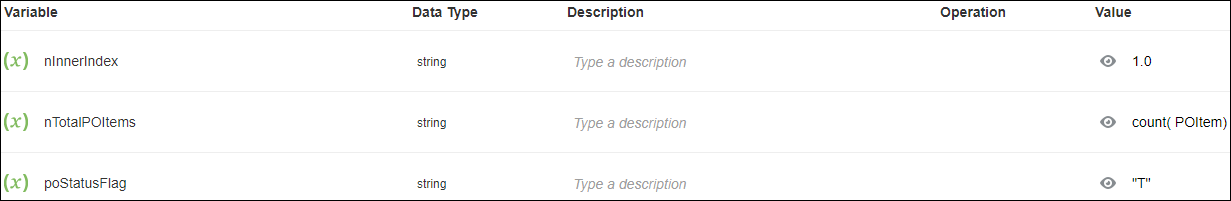
While each item from input file.



Check 2 conditions.

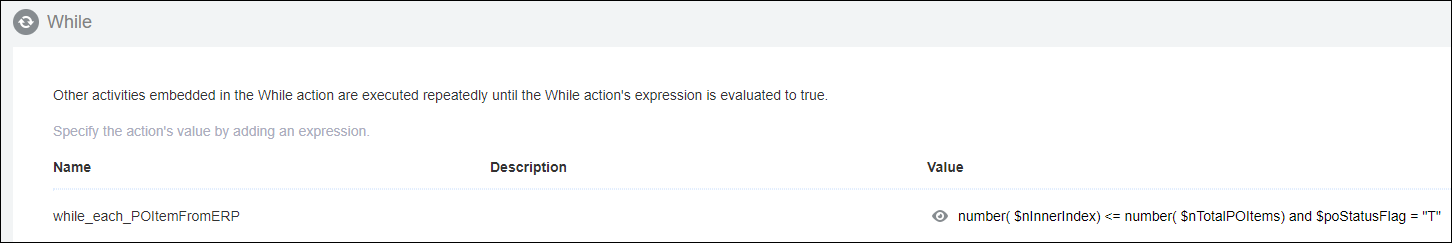
1. Check if 1.0 = 1.0(do not check anything), then Assign variables.





Scope of items(While\_each\_POItems\_ERP)

While



1. Check if LineSequencenumber=LINE\_NUM,

Check 2 conditions.

1. Compare upper-case(DOCUMENT\_STATUS=’OPEN’), then check 2 conditions.
2. Check if ShipQtyUOM= UOM\_CODE,

Check 2 conditions.

* Check if NET\_QTY>= ShipQty, then go to next step.
* Otherwise, write to report net quantity by using FTP adapter and assign variable poStatusFlag.

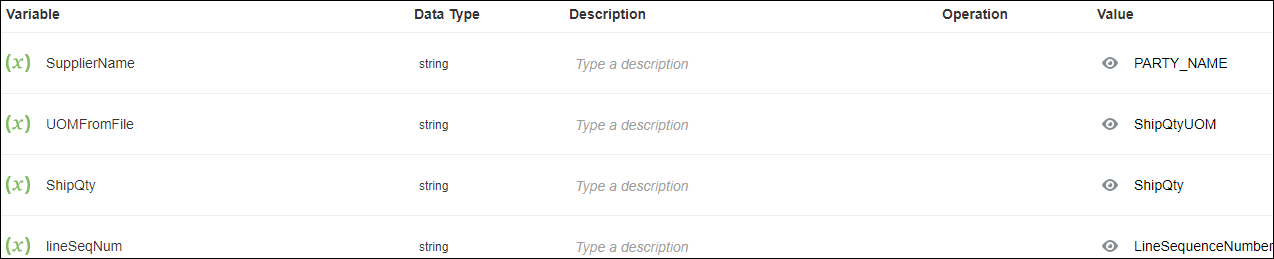
1. Otherwise, write reject report by using FTP adapter and assign variable poStatusFlag.
2. Otherwise, assign variable PO\_Line\_Number and write file action document status is not open by using FTP adapter and assign variable poStatusFlag.
3. Otherwise, write report buyer part number missing by using FTP adapter and go to next step.

Assign variable nInnerIndex. While loop ends here.

Scope ends here.

1. Otherwise, assign variables and write report as buyer part number is missing by using FTP adapter.

Go to next step.



1. Check 2 conditions.

* Check if number(totalItems)= nInnerIndex, then move valid files to /out/856/ARCHIVE/REPROCESSED\_ARCHIVE/testArchive/ReAproved’ directory by using FTP adapter.
* Otherwise, go to next step.

Assign variable nCounter(Add 1 number to it). While loop ends here. Scope ends here.

Terminate the job.

# 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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1. 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).