

## E0067- (LM) POD (Proof Of Delivery) DELMAN to SAP S4

### SAP Functional Specification Document Interface

<b>Object ID</b>	<a href="#">E0067</a>
<b>Object Type</b>	Interface
<b>System</b>	<input checked="" type="checkbox"/> SAP <input type="checkbox"/> Satellite App: {Application Name}
<b>Object Title</b>	Description
<b>Stream Area</b>	<input type="checkbox"/> Sales & Promotion <input checked="" type="checkbox"/> Distribution <input type="checkbox"/> Warehouse <input type="checkbox"/> Procurement <input type="checkbox"/> Production Planning <input type="checkbox"/> Quality Management <input type="checkbox"/> Plant Maintenance <input type="checkbox"/> Finance Accounting <input type="checkbox"/> Finance Controlling <input type="checkbox"/> Project System <input type="checkbox"/> Success Factor <input type="checkbox"/> Master Data Governance
<b>Complexity</b>	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> Very High

#### Guidelines for Writing Form Functional Specification

1. The content in [BLUE](#) is the synopsis of what the section of FSD should contain. Please remove the content in blue before updating the respective sections.
2. Update “Table of contents” section before base lining/delivering/updating of the Functional Specification Design.
3. Section 1 – “Document History” is mandatory to log initial and further changes to the Functional Specification Design. Please highlight in different color if, critical content pertaining to a Change Request is being updated.
4. Enable Track changes if to modify Baseline Functional Specification Design.
5. Process flow diagram should be mentioned in detail.
6. Sections 6 should capture all possible business test cases. This will become the base for technical unit testing (TUT) and functional unit testing (FUT).
7. Please remove all sample texts and sample attachments after writing the FS. They are only indicative in nature.

- . 2.3 Risks
- 3 Operational Considerations
  - . 3.1 Data Source
  - . 3.2 Trigger
  - . 3.3 Processing Options
  - . 3.4 Dependencies
    - 1. 3.4.1 Environment / Configuration
    - 2. 3.4.2 Development Dependencies
    - 3. 3.4.3 Run / Execution Dependencies
  - . 3.5 Expected System Load
- 4 Functional Design Considerations
  - . 4.1 Interface Details
    - 1. 4.1.1 Data Structure
    - 2. 4.1.2 Mapping and Transformation
  - . 4.2 User Interface
    - 1. 4.2.2 User Interface-Display Data
    - 2. 4.2.3 User Interface-Reprocess Failed Data
- 5 Security and Controls
  - . 5.1 Security Requirements
- 6 Functional Unit Test Scenarios
  - . 6.1 Test Scenario / Data
  - . 6.2 Error Handling, Validation, Correction and Recovery
- 7 Attachments and Documentation

1 Document Control Information

1.1 Document Edit History

Version	Date	Additions/Modifications	Prepared/Revised by
Version 1	24-Mar-2025	Initial Design	Robby
Version 2	15-May-2025	Add ERNAM in Return T_LIST and logic getting from CDPOS and CDHDR	Robby

1.2 Document Review and Sign Off

The individuals listed here will be required to review and approve this document.

**Reviewed By:**

The “Reviewed By” signature indicates the individual(s) who reviewed this document for content and clarity, and to the best of their knowledge, this document satisfactorily achieves the purpose and scope defined herein:

	Name	Title/Role <Designation, Department>
Reviewed By	Joseph Jonathan	
Signature	@Joseph Jonathan	Date: Apr 14, 2025
Reviewed By		
Signature		Date:

**Approved By:**

The “Approved By” signature indicates the individual(s) who approved this document for content and clarity, and to the best of their knowledge, this document complies with corporate policies and procedures:

	Name	Title/Role <Designation, Department>
--	------	--------------------------------------

Approved By	Amendha Steviany Anggara	
Signature	@Amendha Steviany Anggara	Date: Apr 14, 2025
Approved By		
Signature		Date:

## 2 Functional Specification Details

### 2.1 Impacted Sub-Process

[E-020-040 LM - Route Settlement Var.0 \(PDA\)](#)

### 2.2 Assumption

- DELMAN system will only send the record once
- For FULL SKR due to “TOKO TUTUP” will only be sent to SAP S4 during the Security IN.

### 2.3 Risks

- Delay on waiting time for Truck to come from Transport to Warehouse. Manual POD is taking longer time due to now is batch manage.

## 3 Operational Considerations

The following sections outline the requirements for the interface object. The requirements, business rules and design specifications are combined in this document to provide a comprehensive view of the functional design.

### 3.1 Data Source

DELMAN has few data sources, however middleware (webservices) will group it into 2 groups of interface structure.

#### ZSDT\_PODALL

Field Name	Data Type	Sample
TOR_ID	CHAR (20)	100147109
VBELN	CHAR (10)	2245907510
KUNNR	CHAR (10)	18765
GRUND	CHAR (4)	H0
file_path_toko	TEXT	49189_93372469_250301.jpg 140897_93373029_250308.jpg

#### ZSDT\_PODPARTIAL

Field Name	Data Type	Sample
TOR_ID	CHAR (20)	100147109
VBELN	CHAR (10)	2245907510
POSNR	NUMC (6)	10
MATNR	CHAR (40)	10025
LFIMG	QUAN (17)	36
VRKME	UNIT	BOX

GRUND	CHAR (4)	H0
PODAT	DATS (10)	20250210
POTIM	TIMS (8)	230130
KUNNR	CHAR (10)	18765
file_path_toko	TEXT	49189_93372469_250301.jpg 140897_93373029_250308.jpg

3.2 Trigger

Upon call from DELMAN (Source system).

3.3 Processing Options

Inbound/Outbound

- ☒ Inbound
- ☐ Outbound

Processing Mode

- ☐ Batch
- ☒ Real Time
- ☐ Near Real Time

Processing Type

- ☒ Synchronous
- ☐ Asynchronous

Require Middleware

- ☒ Yes
- ☐ No

Interface Type

- ☐ RFC
- ☐ IDOC
- ☐ Direct Database
- ☒ API
- ☐ File
- ☐ CDC (Change Data Capture)
- ☐ Other (if other, describe here) \_\_\_\_\_

Frequency

- ☐ Annually
- ☐ Quarterly
- ☐ Monthly
- ☐ Weekly
- ☐ Daily
- ☐ On Demand
- ☒ Other \_Every 5 Minutes\_\_\_\_\_

3.4 Dependencies

- POD Relevant configuration

3.4.1 Environment / Configuration

- POD Relevant configuration

3.4.2 Development Dependencies

- [TBA]-Send Freight Data to DELMAN

### 3.4.3 Run / Execution Dependencies

Not Applicable since the Interface will always run after the Delivery has been Goods Issued by Warehouse.

### 3.5 Expected System Load

How often will the development object be executed?

Average Load-

Peak Load-

## 4 Functional Design Considerations

Interface will run on real time and store the data with process status into table ZSDT\_PODINT (POD Quantity from DELMAN).

Since real time processing might fail, this RICEFW object will have User Interface to view or reprocess the data. SAP will also need to provide the API so webservice can call the API directly upon background job.

### 4.1 Interface Details

Program will get the Interface data from DELMAN and it is grouped into 2 Remote function call (RFC).

#### 1. ZSDT\_PODALL

This Interface process based on header delivery level, which means all accepted or rejected by customer.

Program will check on POD Date for accepted item and POD table (TVPOD) for processing or skipping the data.

#### 2. ZSDT\_PODPARTIAL

This Interface process based on item delivery level, which means each delivery has some rejected quantity by customer.

Program will check on POD table (TVPOD) for processing or skipping the data.

ZSDT\_PODALL → need to rename the FM

```
1 LOOP at T_LIST
2 //Call direct Update PODAT + POTIM if still initial
3 CLEAR MANUAL. //set MANUAL as blank and change to X when Delivery Processed before this interface
4 SELECT LFART,WADAT_IST,PODAT,POTIM FROM LIKP WHERE VBELN =T_LIST-VBELN
5 //Error for Delivery Not Exist
6 IF SY-SUBRC <> 0
7     T_LIST-SUBRC = 100
8     T_LIST-MESSAGE = "Delivery Order not found"
9 ELSE
10     STATS=1.
11     T_LIST-PODAT = LIKP-WADAT_IST.
12     T_LIST-LFART = LIKP-LFART.
13     IF GRUND = INITIAL
14         SELECT LFART,WADAT_IST,PODAT,POTIM FROM LIKP WHERE VBELN =T_LIST-VBELN
15         IF LIKP-PODAT = INITIAL
16             CALL BAPI_WS_DELIVERY_UPDATE
17             VBKOK_WA-VBELN_VL = T_LIST-VBELN;
18             VBKOK_WA-PODAT= LIKP-WADAT_IST;
19             VBKOK_WA-POTIM= INITIAL;
20             VBKOK_WA-KZPOD= 'B';
21             COMMIT = X.
22             GET Return Message
23             IF SY-SUBRC <> 0
24                 T_LIST-SUBRC = 100.
25                 T_LIST-MESSAGE = BAPI_RET_MESSAGE
26             ELSE
27                 T_LIST-MESSAGE = "POD updated successfully"
28                 STATS=2.
29             ENDIF
30             T_LIST-ERNAM = SY-UNAME.
31             UPDATE MANUAL,LFART,PODAT, POTIM, SUBRC, MESSAGE INTO T_LIST
32         ELSE
33             T_LIST-SUBRC = 100
34             T_LIST-MESSAGE = "POD has been completed manually"
35             SELECT CHANGENR FROM CDPOS WHERE OBJECTID = T_LIST-VBELN AND FNAME='PODAT' AND VALUE_NEW <> '000000'.
36             SELECT USERNAME,UDATE,UTIME INTO LT_CDHDR FROM CDHDR WHERE OBJECTID = T_LIST-VBELN AND CHANGENR IN CDPOS-CHANGENR.
37             SORT LT_CDHDR DESCENDING BY UDATE,UTIME
38             SELECT SINGLE USERNAME FROM LT_CDHDR.
39             ERNAM= LT_CDHDR-USERNAME.
40             MANUAL = 'X'.
```

```

41      UPDATE MANUAL,LFART,PODAT, POTIM,SUBRC,MESSAGE,ERNAM INTO T_LIST
42      STATS=2.
43  ENDIF
44  ELSE
45      //Call direct update rejection and PODAT + POTIM if rejection found
46      SELECT * FROM TVPOD WHERE VBELN = T_LIST-VBELN
47      IF SY-SUBRC = 0
48          T_LIST-SUBRC = 100
49          T_LIST-MESSAGE = "POD has been completed manually".
50          SELECT CHANGENR FROM CDPOS WHERE OBJECTID = T_LIST-VBELN AND FNAME='PODAT'
51          SELECT USERNAME,UDATE,UTIME INTO LT_CDHDR FROM CDHDR WHERE OBJECTID = T_LIST-VBELN AND CHANGENR IN CDPOS-CHANGENR.
52          SELECT PODAT,POTIM FROM LIKP WHERE VBELN = T_LIST-VBELN.
53          SORT LT_CDHDR DESCENDING BY UDATE,UTIME
54          SELECT SINGLE USERNAME FROM LT_CDHDR.
55          ERNAM= LT_CDHDR-USERNAME.
56          MANUAL = 'X'.
57          UPDATE MANUAL,LFART,PODAT, POTIM,SUBRC,MESSAGE,ERNAM INTO T_LIST
58          UPDATE MANUAL,LFART,PODAT, POTIM,SUBRC,MESSAGE INTO T_LIST
59          STATS=2.
60      ELSE
61          SELECT VBELN, POSNR, LFIMG INTO LT_LIPS FROM LIPS WHERE VBELN = T_LIST-VBELN AND LFIMG > 0
62          CALL BAPI_WS_DELIVERY_UPDATE
63              VBKOK_WA-VBELN_VL = T_LIST-VBELN;
64              VBKOK_WA-PODAT= LIKP-WADAT_IST;
65              VBKOK_WA-POTIM= INITIAL;
66              VBKOK_WA-KZPOD= 'B';
67              COMMIT = X.
68          LOOP AT LT_LIPS
69              TVPOD_TAB-VBELN = LT_LIST-VBELN.
70              TVPOD_TAB-POSNR = LT_LIPS-POSNR.
71              TVPOD_TAB-LFIMG_DIFF = LT_LIPS-LFIMG.
72              TVPOD_TAB-GRUND = LT_LIST-VBELN.
73          ENDLOOP
74          IF SY-SUBRC <> 0
75              T_LIST-SUBRC = 200.
76              T_LIST-MESSAGE = BAPI_RET_MESSAGE
77          ELSE
78              T_LIST-MESSAGE = "POD updated successfully"
79              STATS=2.
80          ENDIF
81          UPDATE PODAT, POTIM, SUBRC, MESSAGE INTO T_LIST
82      ENDIF
83      MOVE T_LIST into ZSD_PODINT
84      ZSD_PODINT-TOR_ID= T_LIST-TOR_ID
85      ZSD_PODINT-VBELN= T_LIST-VBELN
86      ZSD_PODINT-GRUND= T_LIST-GRUND
87      ZSD_PODINT-IMGLINK= T_LIST-IMGLINK
88      ZSD_PODINT-SUMMARY= 'X'.
89      ZSD_PODINT-STATS= STATS.
90  ENDIF
91  ENDIF
92  ENDOLOOP
93  //Return message back to caller as this is SYNCHRONOUS interface
94  RETURN T_LIST

```

ZSDT\_PODPARTIAL → need to rename the FM

```

1  MOVE T_LIST into T_POD
2  REMOVE DUPLICATE T_POD BY VBELN
3  DATE= SY-DATUM
4  TIME=SY-UZEIT
5  //Inbound at T_POD (loop per Delivery Order)
6  LOOP at T_POD
7      //Call direct Update PODAT + POTIM if still initial
8      CLEAR MANUAL. //set MANUAL as blank and change to X when Delivery Processed before this interface
9      SELECT LFART,WADAT_IST,PODAT,POTIM FROM LIKP WHERE VBELN =T_POD-VBELN.
10     //Error for Delivery Not Exist
11     IF SY-SUBRC <> 0
12         T_POD-SUBRC = 200
13         T_POD-MESSAGE = "Delivery Order not found"
14     ELSE
15         T_POD-STATS=1.
16         T_POD-PODAT = LIKP-WADAT_IST.
17         T_POD-LFART = LIKP-LFART.
18         SELECT * FROM TVPOD WHERE VBELN = T_POD-VBELN
19         IF SY-SUBRC =0
20             T_POD-SUBRC = 100
21             T_POD-MESSAGE = "POD has been completed manually"
22             T_LIST-PODAT = LIKP-PODAT.

```

```

23      T_LIST-POTIM = LIKP-POTIM.
24      MANUAL = 'X'.
25      T_POD-STATS=2.
26  ELSE
27      //Looping per DO number, and loop for each item for the batch split reject quantity
28      SELECT * INTO LT_LIST FROM T_LIST WHERE VBELN = T_POD-VBELN
29      LOOP at LT_LIST
30          LT_LIPSDET-GRUND = LT_LIST-GRUND.
31          IF LT_LIST-LFIMG >0
32              MENGE = LT_LIST-LFIMG.
33              CLEAR LT_LIPS.
34              CLEAR BOM_IND.
35              //Get all delivery quantity based on item and batch split, then put the item no, and rejection quantity ,
Sequence using the first item to be rejected
36              SELECT * INTO LT_LIPS FROM LIPS WHERE VBELN= LT_LIST-VBELN AND (POSNR = LT_LIST-POSNR OR UECHA = LT_LIST-POSNR)
37              LOOP at LT_LIPS
38                  IF LT_LIPS-PSTYV = 'ZTAQ'
39                      BOM_IND = 'X'.
40                  ENDIF
41                  LT_LIPSDET-POSNR = LT_LIPS-POSNR.
42                  IF LT_LIPS-LFIMG >0
43                      IF MENGE> LT_LIPS-LFIMG.
44                          LT_LIPSDET-LFIMG_DIFF = LT_LIPS-LFIMG.
45                          MENGE = MENGE-LT_LIPS-LFIMG.
46                      ELSE
47                          LT_LIPSDET-LFIMG_DIFF = LT_LIPS-MENGE.
48                          MENGE = 0;
49                      ENDIF
50                  ENDIF
51                  //Exit Loop when Rejection remaining amount = 0
52                  IF MENGE = 0
53                      EXIT;
54                  ENDIF
55              ENDLLOOP
56
57              //start to populate ZTAE item category based on ZTAQ in delivery order item.
58              IF BOM_IND = 'X'.
59                  //getting material no and plant to check master data BOM sales and get the master data for component
60                  SELECT VBELN, VGBEL, VGPOS, MATNR, WERKS INTO K_LIPS FROM LIPS WHERE VBELN = LT_LIST-VBELN AND POSNR =
LT_LIST-POSNR.
61
62                  SELECT STLNR FROM MAST WHERE MATNR = K_LIPS-MATNR AND STLAN='5' AND WERKS = K_LIPS-WERKS
63                  SELECT VBELN, POSNR, MATNR INTO ZVBAP FROM VBAP WHERE VBELN = K_LIPS-VGBEL AND UEPOS = K_LIPS-VGPOS AND
PSTYV = 'ZTAE'
64
65                  LOOP at ZVBAP
66                      //Use the Main POD quantity * master data BOM.
67                      SELECT MENGE FROM STPO WHERE STLNR = MAST-STLNR AND MATNR = ZVBAP-MATNR.
68                      SELECT VBELN, POSNR, LFIMG FROM LIPS WHERE VBELN = LT_LIST-VBELN AND VGBEL = ZVBAP-VBELN AND VGPOS =
ZVBAP-POSNR.
69
70                      INSERT new LT_LIPSDET using LIPS
71                      LT_LIPSDET-LFIMG_DIFF = STPO-MENGE * LT_LIST-LFIMG.
72                      ENDIF
73                  ENDIF
74
75                  ENDIF
76                  //Move to Internal table, later put in ZTABLE
77                  MOVE LT_LIST to TZSD_PODINT
78                  TZSD_PODINT-TOR_ID = LT_LIST-TOR_ID
79                  TZSD_PODINT-VBELN = LT_LIST-VBELN
80                  TZSD_PODINT-POSNR = LT_LIST-POSNR
81                  TZSD_PODINT-MATNR = LT_LIST-MATNR
82                  TZSD_PODINT-ARKTX = LT_LIST-ARKTX
83                  TZSD_PODINT-GRUND = LT_LIST-GRUND
84                  TZSD_PODINT-LFIMG_DIFF = LT_LIST-LFIMG_DIFF
85                  TZSD_PODINT-VRKME = LT_LIST-VRKME
86                  TZSD_PODINT-PODAT = LIKP-WADAT_IST
87                  TZSD_PODINT-POTIM = SY-UZEIT.
88                  TZSD_PODINT-IMGLINK = LT_LIST-IMGLINK
89                  TZSD_PODINT-STATS = T_POD-STATS.
90                  TZSD_PODINT-ERDAT =DATE.
91                  TZSD_PODINT-ERZET = TIME.
92
93                  //Ending loop per item from DELMAN
94                  ENDLLOOP
95                  CALL BAPI_WS_DELIVERY_UPDATE
96                  VBKOK_WA-VBELN_VL = LT_POD-VBELN;
97                  VBKOK_WA-PODAT= LIKP-WADAT_IST;
98                  VBKOK_WA-POTIM= SY-UZEIT;
99                  VBKOK_WA-KZPOD= 'B';
100                  COMMIT = X;
101                  LOOP at LT_LIPSDET
102                      TVPOD_TAB-VBELN = LT_POD-VBELN

```

```

100         TVPOD_TAB-POSNR = LT_LIPSDT-POSNR
101         TVPOD_TAB-LFIMG_DIFF = LT_LIPSDT-LFIMG_DIFF
102         TVPOD_TAB-GRUND = LT_LIPSDT-GRUND
103     ENDOLOOP
104     GET Return Message
105     IF SY-SUBRC <> 0
106         T_LIST-SUBRC = 200.
107         T_LIST-MESSAGE = BAPI_RET_MESSAGE.
108     ELSE
109         T_LIST-MESSAGE = "POD updated successfully"
110         T_POD-STATS=2.
111     ENDIF
112 ENDIF
113 ENDIF
114 ENDOLOOP
115 // Update Return message based on Delivery No
116 LOOP at T_POD
117     UPDATE T_LIST WHERE VBELN = T_POD-VBELN
118     UPDATE LFART,PODAT, POTIM, SUBRC, MESSAGE INTO T_LIST
119     PODAT=T_POD-PODAT
120     LFART= T_POD-LFART
121     SUBRC=T_POD-SUBRC
122     MESSAGE=T_POD-SUBRC
123     UPDATE T_ZSD_PODINT-STATS WHERE VBELN = T_POD-VBELN
124 ENDOLOOP
125 MOVE TZSD_PODINT to ZSD_POD_INT
126 //Return message back to caller as this is SYNCHRONOUS interface
127 RETURN T_LIST
128

```

#### 4.1.1 Data Structure

##### ZSDT\_PODINT [POD Quantity from DELMAN]

FIELD NAME	Data Type	Primary Key	Descriptions	Value Field
TOR_ID	CHAR (20)	Yes	Freight Order No	
VBELN	CHAR (10)	Yes	Delivery No	
POSNR	NUMC (6)	Yes	Delivery Item	
SUMMARY	CHAR (1)		Summary Indicator	
KUNNR	CHAR (10)		Customer ID	
MATNR	CHAR (4)		Material No	
GRUND	CHAR (4)		Rejection Reason	
LFIMG_DIFF	QUAN (17)		Reject Quantity	
VRKME	CHAR		UoM	
PODAT	DATS (10)		POD Date	
POTIM	TIMS (8)		POD Time	
IMGL	STRING		Image Link	
STATS	CHAR (1)		Status	1-Error 2-Success
ERDAT	DATS (10)		Created On	
ERZET	TIMS (8)		Created Time	

**ZSDT\_PODALL → FM need rename**

Input:



Field Name	Data Type
TOR_ID	CHAR (20)
VBELN	CHAR (10)
KUNNR	CHAR (10)
GRUND	CHAR (4)
FILE_PATH_TOKO	STRING

Return:

Field Name	Data Type
TOR_ID	CHAR (20)
LFART	CHAR (4)
VBELN	CHAR (10)
KUNNR	CHAR (10)
GRUND	CHAR (4)
MANUAL	CHAR (1)
ERNAM	CHAR (12)
PODAT	DATUM ( 8 )
POTIM	TIME ( 8 )
SUBRC	CHAR (3)
MESSAGE	STRING

**ZSDT\_PODPARTIAL → FM need rename**

Input:

Field Name	Data Type
TOR_ID	CHAR (20)
VBELN	CHAR (10)
KUNNR	CHAR (10)
PODAT	DATUM ( 8 )
POTIM	TIME ( 8 )
POSNR	NUMC (6)
MATNR	CHAR (40)
LFIMG	QUAN (17)
VRKME	CHAR (3)
GRUND	CHAR (4)
FILE_PATH_TOKO	STRING

Return:

Field Name	Data Type
TOR_ID	CHAR (20)
LFART	CHAR (4)
VBELN	CHAR (10)
KUNNR	CHAR (10)
PODAT	DATUM ( 8 )
POTIM	TIME ( 8 )
POSNR	NUMC (6)
MATNR	CHAR (40)
LFIMG	QUAN (17)
VRKME	CHAR (3)
GRUND	CHAR (4)
MANUAL	CHAR (1)
ERNAM	CHAR (12)
PODAT	DATUM ( 8 )
POTIM	TIME ( 8 )
SUBRC	CHAR (3)
MESSAGE	STRING

#### 4.1.2 Mapping and Transformation




#### 4.2 User Interface

User interface intended for User to view the image which interfaced as link. then SAP will try to access the JPG via Link and insert the necessary Username & Password to access the database.

##### 4.2.2 User Interface-Display Data


### POD Quantity from DELMAN (Delivery Man Apps)

Freight No :

To:  

**S\_TORID**

Delivery No :

To:  

**S\_VBELN**

Created On :

**S\_ERDAT**

Reject Only : ☐

**S\_REJECT**




☐ Display Data

**S\_DIS**

☒ Reprocess failed data

**S\_REP**

## Display Data (S\_DIS)

POD Quantity from DELMAN (Delivery Man Apps)					
No	Freight Order No	Delivery No	Rejection	Image	Status
1	40000123	20000012	Partial Rejection		Unprocessed
2	40000123	20000013	Partial Rejection		Unprocessed
3	40000123	20000014	Full Rejection		Processed
4	40000123	20000015			Processed
5	40000123	20000016			Processed
6	40000123	20000017			Processed

Clicking Image→ Login to AWS and try to display the image by using link and each image separated by ' | '

View Images			X
<<<<<	>>>>>		
IMAGES			

1. User will see Selection Screen and Input selection criteria
2. Program will select the data from ZSDT\_PODINT and check for Authorization object based on freight no
3. Program will display the data after summarize based on Delivery No.
4. Upon Clicking the Image, program will pop-up new screen to view the image. (this requires SAP to login to AWS system to view the image).

## Logic for S\_DIS

A. Check for Data in ZSDT\_PODINT

- If not Found message error: “Tidak ada data dari hasil pencarian.

B. Remove duplicate the data and Check for authority based on EXEC\_ORG\_ID

C. When authorities not found remove the record

- If no more lines found message error: “Tidak ada otorisasi, silahkan coba hubungi bagian IT.”

D. Show report.

```
1 SELECT * INTO LT_DETAIL FROM ZSDT_PODINT WHERE TOR_ID IN S_TORID AND VBELN IN S_VBELN AND ERDAT = S_ERDAT
```

```

2 IF SY-SUBRC <> 0
3     Message Error: "Tidak ada data dari hasil pencarian."
4     Exit;
5 ELSE
6     REMOVE DUPLICATE LT_DETAIL BY USING SUMMARY_INDICATOR, TOR_ID, VBELN, GRUND, IMGL, STATS
7     LOOP AT LT_DETAIL
8         SELECT EXEC_ORG_ID FOR ALL ENTRIES FROM /SCMTMS/D_TORROT WHERE TOR_ID IN S_TORID
9         CHECK AUTH OBJECT USING T_TOR_EXE-TM_XEORG against EXEC_ORG_ID AND ACTIVITY = 03
10        IF NOT AUTHORIZED
11            REMOVE ENTRIES From LT_DETAIL WHEN AUTH OBJECT NOT FOUND
12        ELSE
13            //Fill Rejection Column
14            IF LT_DETAIL-GRUND <> INITIAL
15                IF LT_DETAIL-SUMMARY = X
16                    LT_DETAIL-GTEXT = "FULL REJECTION"
17                ELSE
18                    LT_DETAIL-GTEXT = "PARTIAL REJECTION"
19            Move LT_DETAIL to LT_SHOW
20        ENDIF
21    ENDOLOOP
22    //if nothing to show, means user doesn't have authority
23    IF LT_SHOW <1
24        Message Error: "Tidak ada otorisasi, silahkan coba hubungi bagian IT"
25        Exit;
26    ELSE
27        //Remove duplicate and only show header level
28        REMOVE DUPLICATE ENTRIES FROM LT_DETAIL BY VBELN
29        Show the Report
30    ENDIF
31 ENDIF

```

#### 4.2.3 User Interface-Reprocess Failed Data

1. Get all data with status = 1 (error) and Source = 1 (SKR)
2. Check authorization based on Freight Order Purchasing Organization
3. Perform POD and pop-up message warning, POD has been processed.

#### Logic for S\_REP

```

1 //Get all data with error status and source from SKR
2 SELECT * INTO LT_CHECK FROM ZSDT_PODINT WHERE STATUS = '1' AND TOR_ID IN S_TORID AND VBELN IN S_VBELN AND ERDAT = S_ERDAT
3 IF SY-SUBRC <> 0
4     Message Warning: "Tidak ada data untuk di proses ulang."
5     Exit.
6 ELSE
7     REMOVE Duplicate LT_CHECK by TOR_ID
8     //Removing entries when user doesn't have authorization
9     LOOP AT LT_CHECK
10        SELECT EXEC_ORG_ID FOR ALL ENTRIES FROM /SCMTMS/D_TORROT WHERE TOR_ID= LT_CHECK-TOR_ID
11        CHECK AUTH OBJECT USING T_TOR_EXE-TM_XEORG against EXEC_ORG_ID AND ACTIVITY = 03
12        IF NOT AUTHORIZED
13            REMOVE ENTRIES From LT_CHECK WHEN AUTH OBJECT NOT FOUND
14        ENDIF
15    ENDOLOOP
16
17 SELECT * INTO LT_REP FROM ZSDT_PODINT WHERE TOR_ID IN LT_CHECK-TOR_ID
18 REMOVE DUPLICATE BY VBELN from LT_REP
19 IF LT_REP > 0
20     LOOP at LT_REP
21         IF LT_REP-SUMMARY <> INITIAL
22             SELECT * FROM TVPOD WHERE VBELN = LT_REP-VBELN
23             //Update status to success if TVPOD found or POD status completed and remove from processing
24             IF SY-SUBRC = 0
25                 UPDATE ZSDT_PODINT-STATS= '2' WHERE VBELN=LT_REP-VBELN
26                 REMOVE Record from LT_REP
27             ELSE
28                 //POD has been completed without reject by user
29                 SELECT PDSTK FROM LIKP WHERE VBELN = LT_REP-VBELN
30                 IF PDSTK = C
31                     UPDATE ZSDT_PODINT-STATS= '2' WHERE VBELN=LT_REP-VBELN
32                     Remove Record FROM LT_REP
33                 ELSE //IF POD data not found and not completed
34                     SELECT * INTO LT_POD FROM ZSDT_PODINT WHERE VBELN=LT_REP-VBELN
35                     LOOP at LT_POD
36                         //IF no rejection qty skip this step
37                         IF LT_POD-LFIMG_DIFF >0
38                             //Get all delivery quantity based on item and batch split, then put the item no, and rejection quantity
39                             , Sequence using the first item to be rejected
39                             SELECT * FROM LT_LIPS WHERE VBELN= LT_POD-VBELN AND (POSNR = LT_POD-POSNR OR UECHA = LT_POD-POSNR)

```

```

40      MENGE = LT_POD-LFIMG_DIFF;
41      LOOP at LT_LIPS
42          LT_LIPSDet-POSNR = LT_LIPS-POSNR;
43          IF MENGE> LT_LIPS-LFIMG
44              LT_LIPSDet-LFIMG_DIFF = LT_LIPS-LFIMG;
45              MENGE = MENGE-LT_LIPS-LFIMG;
46          ELSE
47              LT_LIPSDet-LFIMG_DIFF = LT_LIPS-MENGE;
48              MENGE = 0;
49          ENDIF
50          //Exit Loop when Rejection remaining amount = 0
51          IF MENGE = 0
52              EXIT;
53          ENDIF
54      // END of Get all delivery quantity based on item and batch split, then put the item no, and rejection
quantity
55      ENDLLOOP
56      ENDIF
57  ENDLLOOP
58      CALL BAPI_WS_DELIVERY_UPDATE
59      VBKOK_WA-VBELN_VL = LT_POD-VBELN;
60      VBKOK_WA-PODAT=LT_POD-PODAT;
61      VBKOK_WA-POTIM= LT_POD-POTIM;
62      VBKOK_WA-KZPOD= 'B';
63      COMMIT = X;
64      LOOP at LT_LIPSDet
65          TVPOD_TAB-VBELN = LT_POD-VBELN
66          TVPOD_TAB-POSNR = LT_LIPSDet-POSNR
67          TVPOD_TAB-LFIMG_DIFF = LT_LIPSDet-LFIMG_DIFF
68          TVPOD_TAB-GRUND = LT_POD-GRUND
69      ENDLLOOP
70      //Update Table Status
71      IF ERROR
72          STATS = 1
73      ELSE
74          STATS = 2
75      ENDIF
76      UPDATE ZSDT_PODINT-STATS= STATS WHERE VBELN=LT_REP-VBELN
77  ENDIF
78  ELSE
79      //For rejection handling
80      IF LT_REP-GRUND = INITIAL
81          SELECT LFART,WADAT_IST,PODAT,POTIM FROM LIKP WHERE VBELN =T_REP-VBELN
82          IF LIKP-PODAT = INITIAL
83              CALL BAPI_WS_DELIVERY_UPDATE
84              VBKOK_WA-VBELN_VL = T_REP-VBELN;
85              VBKOK_WA-PODAT= LIKP-WADAT_IST;
86              VBKOK_WA-POTIM= LT_REP-POTIM;
87              VBKOK_WA-KZPOD= 'B';
88              COMMIT = X.
89              GET Return Message
90              IF SY-SUBRC = 0
91                  STATS=2.
92              ENDIF
93              UPDATE ZSDT_PODINT-STATS= STATS WHERE VBELN=LT_REP-VBELN
94          ELSE
95              STATS=2.
96              UPDATE ZSDT_PODINT-STATS= STATS WHERE VBELN=LT_REP-VBELN
97          ENDIF
98      ELSE
99          //Call direct update rejection and PODAT + POTIM if rejection found
100          SELECT * FROM TVPOD WHERE VBELN = T_REP-VBELN
101          IF SY-SUBRC = 0
102              STATS=2.
103              UPDATE ZSDT_PODINT-STATS= STATS WHERE VBELN=LT_REP-VBELN
104          ELSE
105              SELECT VBELN, POSNR, LFIMG INTO LT_LIPS FROM LIPS WHERE VBELN = T_REP-VBELN
106              CALL BAPI_WS_DELIVERY_UPDATE
107              VBKOK_WA-VBELN_VL = T_LIST-VBELN;
108              VBKOK_WA-PODAT= LIKP-WADAT_IST;
109              VBKOK_WA-POTIM= T_LIST-POTIM;
110              VBKOK_WA-KZPOD= 'B';
111              COMMIT = X.
112              LOOP AT LT_LIPS
113                  TVPOD_TAB-VBELN = LT_LIST-VBELN.
114                  TVPOD_TAB-POSNR = LT_LIPS-POSNR.
115                  TVPOD_TAB-LFIMG_DIFF = LT_LIPS-LFIMG.
116                  TVPOD_TAB-GRUND = LT_LIST-VBELN.
117              ENDLLOOP
118              IF SY-SUBRC=0
119                  STATS=2.

```

```

120      UPDATE ZSDT_PODINT-STATS= STATS WHERE VBELN=LT_REP-VBELN
121      ENDIF
122      ENDIF
123      ENDIF
124      ENDIF
125      //end of looping per Delivery No
126      ENDLOOP
127  ENDIF
128  Message Warning: "Proses ulang selesai dilakukan, silahkan melihat status dari menu display data"

```

## 5 Security and Controls

### 5.1 Security Requirements

Upon viewing or processing the report check Freight Org Plan. Exec. Org. vs Authorization object T\_TOR\_EXE

/SCMTMS/D-TORROT-EXEC\_ORG\_ID = T\_TOR\_EXE-TMXEORG with ACTVT = 03

Authorization Object	Authorization Field
T_TOR_EXE	ACTVT = 03
T_TOR_EXE	TM_XEORG

## 6 Functional Unit Test Scenarios

### 6.1 Test Scenario / Data

Step #	Test Type	Scenario Title	Steps Performed	Expected Results	Actual Results
1	POD_ALL - FULL SKR	POD_ALL - Full SKR - Auto -Success	<ul style="list-style-type: none"> <li>Create Delivery Order</li> <li>Perform the Interface</li> </ul>	<ul style="list-style-type: none"> <li>POD data updated</li> <li>Data updated into ZSDT_PODINT table with status = 2</li> </ul>	
2	POD_ALL - FULL SKR	POD_ALL - Full SKR - Auto -Fail	<ul style="list-style-type: none"> <li>Create Delivery Order</li> <li>Open Delivery Order via VLPOD or VL02N</li> <li>Perform the Interface</li> </ul>	<ul style="list-style-type: none"> <li>POD data not updated</li> <li>Data updated into ZSDT_PODINT table with status = 1</li> </ul>	
3	POD_ALL - FULL SKR	POD_ALL - Full SKR - Manual POD by user	<ul style="list-style-type: none"> <li>Create Delivery Order</li> <li>Create POD manually via VLPOD</li> <li>Perform the Interface</li> </ul>	<ul style="list-style-type: none"> <li>POD data not updated</li> <li>Data updated into ZSDT_PODINT table with status = 2 (skip process)</li> </ul>	
4	POD_ALL - Accept all	POD_ALL - Accept all - Auto - Success	<ul style="list-style-type: none"> <li>Create Delivery Order</li> <li>Perform the Interface</li> </ul>	<ul style="list-style-type: none"> <li>POD data updated</li> <li>Data updated into ZSDT_PODINT table with status = 2</li> </ul>	
5	POD_ALL - Accept all	POD_ALL - Accept all - Auto - Fail	<ul style="list-style-type: none"> <li>Create Delivery Order</li> </ul>	<ul style="list-style-type: none"> <li>POD data not updated</li> </ul>	

			<ul style="list-style-type: none"> <li>• Open Delivery Order via VLPOD or VL02N</li> <li>• Perform the Interface</li> </ul>	<ul style="list-style-type: none"> <li>• Data updated into ZSDT_PODINT table with status = 1</li> </ul>	
6	POD_ALL - Accept all	POD_ALL - Accept all - Manual POD by user	<ul style="list-style-type: none"> <li>• Create Delivery Order</li> <li>• Create POD manually via VLPOD</li> <li>• Perform the Interface</li> </ul>	<ul style="list-style-type: none"> <li>• POD data not updated</li> <li>• Data updated into ZSDT_PODINT table with status = 2 (skip process)</li> </ul>	
7	POD_PARTIAL	POD_PARTIAL - Auto - Success	<ul style="list-style-type: none"> <li>• Create Delivery Order</li> <li>• Perform the Interface</li> </ul>	<ul style="list-style-type: none"> <li>• POD data updated</li> <li>• Data updated into ZSDT_PODINT table with status = 2</li> </ul>	
8	POD_PARTIAL	POD_PARTIAL - Auto - Fail	<ul style="list-style-type: none"> <li>• Create Delivery Order</li> <li>• Open Delivery Order via VLPOD or VL02N</li> <li>• Perform the Interface</li> </ul>	<ul style="list-style-type: none"> <li>• POD data not updated</li> <li>• Data updated into ZSDT_PODINT table with status = 1</li> </ul>	
9	POD_PARTIAL	POD_PARTIAL - Manual POD by user	<ul style="list-style-type: none"> <li>• Create Delivery Order</li> <li>• Create POD manually via VLPOD</li> <li>• Perform the Interface</li> </ul>	<ul style="list-style-type: none"> <li>• POD data not updated</li> <li>• Data updated into ZSDT_PODINT table with status = 2 (skip process)</li> </ul>	

## 6.2 Error Handling, Validation, Correction and Recovery

No.	Exception Desc.	Mess. Type	Language	Message Text (50 Characters only)
1.	No Authorization	E	E	"Tidak ada otorisasi, silahkan coba hubungi bagian IT"
2.	No Data Found	E	E	"Tidak ada data berdasarkan hasil pencarian"
3.	Reprocessing completed	W	E	"Proses ulang selesai dilakukan, silahkan melihat status dari menu display data"

4.	No data to reprocess	W	E	“Tidak ada data untuk di proses ulang.”
----	----------------------	---	---	---

**7 Attachments and Documentation**

<Attach any additional information in the form of documentation / Appendix / attachments.>