

Technical Specification – Report

Allocation Report



:

TechnicalGyanGuru

Document Information

Business Area	Product & Service Delivery
GAP/CR ID	WBS_RDD0001
FS Definition Form ID	RDD0001
Type of development	Report
SAP R/3 Version	ECC 6.0
Global / Local	R1

Approval

Approved by	Name	Role	Tower	Signature	Date
Tower Lead	J Nandi	Lead			
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Document History

Version	Author	Reason for change	Date
1.1	C Roy B	Final Version	07-Mar-2016
1.2	Das A	Remaining Qty. to be Allocated Fix	22-Apr-2016
1.3	Shrestha A	CR 181314Changes	16-May-2016
1.4	Shrestha	Changes for Allocated quantity fix	13-Jun-2016

Related Documents
SCM_FSR_MM_Allocation Report_RDD0001.docx

1. General Information

WRICEF ID	RDD0001 Allocation Report		
Description	ITT-SAP Transformation/ Release 1		
Implementation Phase	ZSCM_ALLOC		
Transaction(s) (if applicable)	ZSCM ZSCM ZSCM SCM - SAP PS - Design		
Package	Job-job Initiation NA On-line /		
Message Class (if applicable)	Background On-Demand		
Develop. Class			
Module			
Report User/User Group			
Execution Mode			
Run Frequency		Language	English

Transport Information

Change Request #	Task #	Object Identifier (Program ID, Layout Set ID, etc)	Object Type (Program, Transaction, Layout Set)
SY1DV909706		Include	ZSCMN_ALLOC AT ION_REPORT_F01
SY1DV909706		Include	ZSCMN_DEMAND_FULFILMENT_SCR ZSCMN_ALLOC AT ION_REPORT
SY1DV909706		Include	_TOP ZSCMR_DEMAND_FULFILMENT
SY1DV909706		Program	_REPORT ZSCMCL_AMDP_MM_ALLOC_RE PORT
SY1DV909706		Class	
SY1DV913892		Class	ZSCMCL_AMDP_MM_ALLOC_RE PORT
SY1DV913892		Include	ZSCMN_ALLOC AT ION_REPORT_F01
SY1DV913892		Include	ZSCMN_ALLOC AT ION_REPORT _TOP
Begin of CR#180314			

SY1DV915026		Include	ZSCMN_ALLOC AT ION_REPORT_F01
SY1DV915026		Include	ZSCMN_ALLOC AT ION_REPORT_TOP
SY1DV915026		Report Texts	ZSCMR_ALLOCATION_REPORT
SY1DV915026		Class	ZSCMCL_AMDP_MM_ALLOC_REPORT (CR 181314Changes)
SY1DV916230		Method (ABAP Objects)	ZSCMCL_AMDP_MM_ALLOC_REPORT METH_AMDP_PUB_GET_DATA
SY1DV916230		Include	ZSCMN_ALLOC AT ION_REPORT_F01
SY1DV916230		Report Source Code	ZSCMN_ALLOC AT ION_REPORT_SCR
SY1DV916230		Class	ZSCMCL_WBS_MAT_STOCK
End of CR#180314			

2. Description and Purpose

Allocation report will provide Job Specific material and equipment Allocation requirements. This report will allow user to execute report with project / WBS, Material and Plant Selection and provide output with a list of materials to be allocated to a particular project on a particular date. An option to close the reservation will also be provided to the user as a part of this report.

3. Assumptions

Allocation quantity to be added in ALV so that user can choose to display the field in ALV but should not be displayed in Default layout.

4. Issues

NA

5. Selection Screen

5.1 Selection Prototype

The following fields will be provided as an input to run the Allocation Report
Report Input Selection for Allocation Report

SY1DV915026		Include	ZSCMN_ALLOC AT ION_REPORT_F01
SY1DV915026		Include	ZSCMN_ALLOC AT ION_REPORT_TOP
SY1DV915026		Report Texts	ZSCMR_ALLOCATION_REPORT
SY1DV915026		Class	ZSCMCL_AMDP_MM_ALLOC_REPORT (CR 181314Changes)
SY1DV916230		Method (ABAP Objects)	ZSCMCL_AMDP_MM_ALLOC_REPORT METH_AMDP_PUB_GET_DATA
SY1DV916230		Include	ZSCMN_ALLOC AT ION_REPORT_F01
SY1DV916230		Report Source Code	ZSCMN_ALLOC AT ION_REPORT_SCR
SY1DV916230		Class	ZSCMCL_WBS_MAT_STOCK
End of CR#180314			

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5.1 Selection Prototype

The following fields will be provided as an input to run the Allocation Report
Report Input Selection for Allocation Report

Field Labels	Table/ Structure Name	Field Name	Format	Table Value/ Checkbox/ Radio Button/ Radio Button Group	Select Option or Parameter	Mandatory or Optional
Allocation Requirement Date	RSADD	ZZ_EST_OP 5_BSE_DT1	DATS	Table Value	Select Option (Multi Selection)	Mandatory
Project WBS #	PRPS	POSID	CHAR	Table Value	Select Option (Multi Selection)	Selective Mandatory
Material	RESB	MATNR	CHAR	Table Value	Select Option (Multi Selection)	Optional
Plant	RESB	WERKS	CHAR	Table Value	Select Option (Multi Selection)	Selective Mandatory
Storage Location	RESB	LGORT	CHAR	Table Value	Select Option (Multi Selection)	Optional
Technically Complete			CHAR	Check Box	Parameter	Optional
Layout	DISVARI ANT	VARIANT	CHAR1 2	Table Value	Parameter	Optional

5.2 Selection Screen Validation

- The material details will be fetched per network activity. Material Network will be identified with control key value
 - Material Network – ZPS2
- The selection screen will have validation placed for each field entered.
 - Valid 'Allocation Req Date'
 - Valid WBS Element - PRPS-POSID
 - Valid Material – MARA-MATN]
 - Valid Plant value – T001W-WERKS
- Report should be executed for P&SD project , perform validation for project profile contain ZSCM*, if non P&SD project throw error message "Report execution can be performed for P&SD projects only".
- Add Validation to check Plant selected in report with Project plant, if different display validation error message " Plant Selected Different from Project Plant"
- Following will be the mandatory fields for the selection screen
 - Allocation Requirement Date
 - Either Plant or WBS element The system should check that along with Allocation Requirement Date we also enter either Plant or WBS' element. If none of these 2 fields are entered then system should display an error message.

5.3 Details

Allocation Report

Enter Selection Criteria

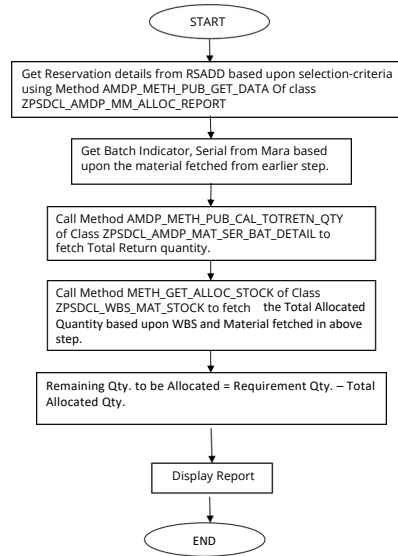
Allocation Requirement date	<input type="checkbox"/>		to	<input type="text"/>	<input type="button" value="↕"/>
WBS			to	<input type="text"/>	<input type="button" value="↕"/>
Material			to	<input type="text"/>	<input type="button" value="↕"/>
Plant	<input type="text"/>		to	<input type="text"/>	<input type="button" value="↕"/>
Storage Location	<input type="text"/>		to	<input type="text"/>	<input type="button" value="↕"/>
<input type="checkbox"/> Technically Complete					

Select Layout

Layout

6. Technical Details

6.1 Flow Diagram



Pseudo Code

1. Create a new report ZSCMR_ALLOCATION_REPORT via t-code SE38
 2. Create Selection screen as per the section 5.1.

Allocation Requirement date is Mandatory but checks / Validations will be carried out as per section 5.2.
 3. Report will be executed for P&SD project , perform validation for project profile contain ZSCM* , if non P&SD project throw error message "Report execution can be performed for P&SD projects only". Refer to the field PROJ-PROFL = ZSCM*.
 4. Fetch CCD entries by calling method METH_FETCH_VALUES of class ZCRSCL_CCD_FETCH for the function code 'Z_SCM_RDD0001*' and get movement type, special stock indicator, background user list and material profile into global variables.
 5. The reservation details is fetched from Method AMDP_METH_PUB_GET_DATA Of class ZSCMCL_AMDP_MM_ALLOC_REPORT based upon selection criteria entered on the screen.
 6. Dynamic Where Clause is built for the fields in selection-screen and passed to Importing parameter IV_WHERE of Method AMDP_METH_PUB_GET_DATA.
 7. Pass SY-LANGU to IM_LANGU, IM_STAT as 'E0010' and IM_CLIENT as SY-MANDT to Method AMDP_METH_PUB_GET_DATA.
Begin of CR#180314
 8. Check if technically complete check box (P_TECO) is checked from selection screen, if yes then delete reservation lines from LI_DATA table where component system status is DEL (I0013). If this is unchecked then delete the reservation lines from LI_DATA table where project status is TECO or CLSD (JEST Status).
End of CR#180314
 9. Get material stock information from storage location table MARD. Calculate all plant inventory values by adding Valuated Unrestricted-Use Stock value (MARD-LABST) for all common material components in all plants.
 10. The below fields are filled with the table data fetched from above AMDP method.

Customer
Fetch PARNR from IHPA by passing the Object number (Level 3 WBS) and Partner Function = SP. Get description by passing KNA1-PARNR and get KNA1-NAME1

RIG
Fetch PARNR from IHPA by passing the Object number (Level 3 WBS) and Partner Function = Z7. Get description by passing KNA1-PARNR and get KNA1-NAME1

Well
Fetch PARNR from IHPA by passing the Object number (Level 3 WBS) and Partner Function = ZW. Get description by passing KNA1-PARNR and get KNA1-NAME1

Network
Fetch from CAUFV-AUFNR by passing WBS
-

"SAP ABAP for HANA" Sample TDD

Item
Fetch from RESB-RSPOS by passing Network (AUFNR)

Material
Fetch from RESB-MATNR
Material Description
Fetch from MAKT-MAKTX based upon RESB-MATNR fetched above.
UOM

Fetch from RESB-MEINS
Plant
Fetch from RESB-WERKS.
Storage Location
Fetch from RESB-LGORT.

Requirement Qty.
Fetch from RESB-BDMNG.
Allocation Required Date
Fetched from RSADD-ZZ_EST_OPS_BSE_DT1.
Job Site Requirement Date
Fetched from RSADD-ZZ_TIME_RQ_ST_DT1

Valuation Type Preference
Fetch from RSADD-ZZ_VAL_TYPE
Comments
Fetch from RESBD -POTX1 based upon RSNUM and RSPOS.
For Selection of Batch Indicator and Serial Indicator

Select Batch Indicator, Serial profile from MARC based upon Material & Plant fetched from above method.
Serialized
If Serial profile is not initial, Field is marked 'X' in ALV output.
Batch
if MARC-XCHPF is not Blank, Mark Batch field as 'X'.

Begin of CR#180314

Create object of class ZSCMCL_WBS_MAT_STOCK to fetch all stock data to calculate total allocation quantity. This constructor will fetch Current Stock from QBEW table for the material and WBS, Consumption Quantity from MSEG, WBS transfer Quantity from MSEG, Deallocation Quantity from MSEG and Calculate total allocated stock.



Class Name	ZSCMCL_WBS_MAT_STOCK		
Class Description	Material Stock Determination		
Method Name	CONSTRUCTOR		
Package	ZSCM		
Import Parameters			
IM_T_WBS_MAT	TYPE	GTT_WBS_MAT	Project and Material data
IM_T_CCD_ENTRIES	TYPE	ZCRST_EXPCCD	Structure for CCD data retrieval
Pseudo Code			

This Method is for retrieving stock data from database tables and for allocated quantity calculations:

Move records of importing project and material data table IM_T_WBS_MAT to global internal table GI_WBS_MAT.

Check if importing parameter IM_T_CCD_ENTRIES table have background user name if found call below methods to get stock data:

METH_GET_CURRENT_STOCK - Get current stock data from QBEW table

METH_GET_MSEG_CONSUMPTION – Get Consumption Quantity from MSEG

METH_GET_MSEG_WBS_TRANS_QTY – Get WBS transfer Quantity from MSEG

METH_GET_MSEG_DEALLOCATION – Get Deallocation Quantity from MSEG

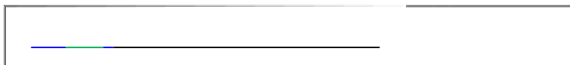
METH_CALC_TOTAL_ALLOC_STOCK - Calculate Total Allocated Stock

Class Name	ZSCMCL_WBS_MAT_STOCK		
Class Description	Material Stock Determination		
Method Name	METH_GET_CURRENT_STOCK		
Package	ZSCM		
Export Parameters			
EX_T_WBS_MAT_STOCK	TYPE	GTT_WBS_MAT_STOCK	Stock
Pseudo Code			

This Method is for retrieving current stock data from QBEW table:

Fetch project stock from table QBEW for material and WBS for all GI_WBS_MAT records. Add retrieved data records to exporting stock data table EX_T_WBS_MAT_STOCK.





Class Name	ZSCMCL_WBS_MAT_STOCK		
Class Description	Material Stock Determination		
Method Name	METH_GET_MSEG_CONSUMPTION		
Package	ZSCM		
Export Parameters	EX_T_WBS_MAT_STOCK		
Pseudo Code	TYPE	GTT_WBS_MAT_STOCK	Stock
This Method is for retrieving consumption stock data from MSEG table:			
Fetch consumption stock from table MSEG for material and WBS for all GI_WBS_MAT records, movement types 281/282 and special stock indicator 'Q'. Subtract 282 Movement Type Quantity data from Movement Type 281 Quantity data, add all the entries based on WBS and Material Number to exporting stock data table EX_T_WBS_MAT_STOCK.			

Class Name	Class Description	Method Name	Package
Export Parameters	Material Stock Determination		
EX_T_WBS_MAT_STOCK	METH_GET_MSEG_WBS_TRANS_QTY		
Pseudo Code	METH_GET_MSEG_WBS_TRANS_QTY		
This Method is for retrieving WBS transfer Quantity data from MSEG table:			
Fetch 415 movement type stock from table MSEG for material and WBS for all GI_WBS_MAT records, movement types 415, Debit indicator 'S' and special stock indicator 'Q'. Add retrieved data records to exporting stock data table EX_T_WBS_MAT_STOCK. Check whether it is transfer from same WBS or not - if it is transfer in between same WBS - do not consider that entry)			

Class Name	ZSCMCL_WBS_MAT_STOCK		
Class Description	Material Stock Determination		
Method Name	METH_GET_MSEG_DEALLOCATION		
Package	ZSCM		
Export Parameters	EX_T_WBS_MAT_STOCK		
	TYPE	GTT_WBS_MAT_STOCK	Stock



Call method METH_GET_ALLOC_STOCK of class ZSCMCL_WBS_MAT_STOCK to get allocated quantity.

Sum up below quantities for the material to get total allocated stock:

- Quantity from QBEW for the material and WBS
- Quantity from MSEG for movement type 415 with debit indicator 'S' for the material and WBS where WBS is not matching with MAT_PSPNR (Same site)
- Quantity from MSEG for movement type 416 with debit indicator 'S' for the material and WBS where user is 'BATCH_PS'. If such record not found then check Delivery and its user. If 'BATCH_PS' found, use the quantity.
- Consumption quantity

o Step 2: Remaining Qty. to be Allocated as per the formula below for that material/item:
Remaining Qty. to be Allocated = Requirement Qty. - Total Allocated Qty. (From Step 2)

o In case where same material is planned more than once then the Total Allocated

Quantity calculated in Step 2 should be distributed based on FIFO logic based on the Requirement Date.

- Total Allocated Qty. column is used as the base for the FIFO logic. If the output is a FIFO criteria.

If Remaining Qty. to be Allocated < 0.

~~Remaining Qty. to be Allocated = 0.~~

Keep remaining quantity negative if remains.

Quantity in SLoc

Get from LI_QTY_SLOC table (Storage location wise Data fetched from MARD)

Available in SLoc

Check if 'Quantity in Sloc' is negative, zero or less than 'Remaining Qty to be Allocated' display as False otherwise display as 'True'

All Plants inventory

Get from LI_QTY_PLANT table (all plant wise Data fetched from MARD)

Available in all Plants

Check if 'All Plant Inventory' is negative, zero or less than 'Remaining Qty to be Allocated' display as False otherwise display as 'True'. Set hyperlink to All Plants inventory field by calling

set_cell_type (if_salv_c_cell_type=>hotspot) of class object cl_salv_column_table and handle click event by setting event handler for events of class cl_salv_table. Call transaction MMBE by passing material number from gi_disp_tab table on row index.

<Begin of CR 181314Changes>
Project Status

Fetch from ACTCMB_TEXT_TAB- ACTCMBDESC_TEXT

Segment

Fetch from PRPS-USR00

Sub Segment

Fetch from PRPS-USR01
Status

Fetch from TJ30T-TXT30
Mobilize Quantity
Fetch Sum of EKPO-MENGE for all SHIP STO's for the reservation item.
PGI Quantity
Fetch sum of EKBE-MENGE with transaction type '6' for all SHIP STO's for the reservation item.

GR Quantity
Fetch sum of EKBE-MENGE with transaction type '1' for all SHIP STO's for the reservation item.
Consumed Quantity
Fetch the sum of MSEG-MENGE with movement type 281 and special stoke indicator 'Q' for all reservation items
Demobilize Quantity
Fetch Sum of EKPO-MENGE for all RETN STO's for the reservation item.
Return PGI Quantity
Fetch sum of EKBE-MENGE with transaction type '6' for all RETN STO's for the reservation item.
Return GR Quantity
Fetch sum of EKBE-MENGE with transaction type '1' for all RETN STO's for the reservation item.
Quantity at Well Site
Calculate by adding Consumption Quantity and Demobilize quantity and subtracting that from GR quantity.
Remaining Project Quantity
Calculate by adding Consumption Quantity and Return GR quantity and subtracting that from Allocated quantity.
Final Issue Indicator
Fetch from RESP-KZEAR.
End of CR#180314

Display ALV report using factory class - CL_SALV_TABLE=>FACTORY.



6.2 Report Field Details

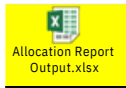


Field Name	Field Description	Output Length	Output Type	Format	Position	SAP screen No./ field name
PROJ-PSPID	Project#	24	CHAR	Left Justified	1	
ACT CMB_T E XT_TAB - ACT CMBD ES C_TEXT	Project Status	200	CHAR	Left Justified	2	
PRPS- POSID/CAUF V-PSPEL	Project WBS	24	CHAR	Left Justified	3	
IHPA- PARNR	Customer	35	CHAR	Left Justified	4	
IHPA- PARNR	Rig	35	CHAR	Left Justified	5	
IHPA- PARNR	Well	35	CHAR	Left Justified	6	
PRPS-USR00	Segment	20	CHAR	Left Justified	7	
PRPS-USR01	Sub Segment	20	CHAR	Left Justified	8	
CAUFV- AUFNR	Network	12	CHAR	Justified, No leading zeros Left Justified	9	
RESB- RSP0S	Item	4	NUMC	Left Justified	10	
RESB- MATNR	Material	18	CHAR	Left Justified	11	
MAKT-MAKT	Material	40	CHAR	Left Justified	12	
TJ30T-TX130	Description Status	30	CHAR	Left Justified	13	
RESB- WERKS	Plant	4	CHAR	Left Justified	14	
RESB-LGORT	Storage Location	4	CHAR		15	

RESB-BDMNG	Requirement Qty.	13	QUAN	Right Justified	16	
Calculated	Allocated Qty	13	QUAN	Right Justified	17	
Calculated	Remaining Qty. to be Allocated	13	QUAN	Right Justified Left	18	
RESB-MEINS	UOM	3	UNIT	Justified	19	
Begin of CR#180314						
Logic based - True/False	Available in SLoc	5	CHAR	Left Justified	20	
MARD-LABST	Quantity in SLoc	13	QUAN	Left Justified	21	
Logic based - True/False	Available in all Plants	5	CHAR	Left Justified	22	
Calculated	All Plants inventory Allocation	13	QUAN	Left Justified	23	
RSADD-ZZ_EST_OPS_BSE_DT1	Required Date	8	DATS	Justified	24	
RSADD-ZZ_TIME_RQ_ST_DT1	Job Site Requirement Date	8	DATS	Left Justified	25	
Calculated	Mobilize Qty	13	QUAN	Left Justified	26	
Calculated	PGI Qty	13	QUAN	Left Justified	27	
Calculated	GR Qty	13	QUAN	Left Justified	28	
Calculated	Consumed Qty	13	QUAN	Left Justified	29	
Calculated	Qty at well site	13	QUAN	Left Justified	30	
Calculated	Demob Qty	13	QUAN	Left Justified	31	
Calculated	Return PGI Qty	13	QUAN	Left Justified	32	
Calculated	Return GR Qty	13	QUAN	Left Justified	33	

Calculated	Remaining Project Stock	13	QUAN	Left Justified	34	
MAR A-SERIAL	Serialized	1	CHAR	Left Justified	35	
MAR A-XCHPF	Batch	1	CHAR	Left Justified	36	
RSADD				Left Justified		
ZZ_VA_L_T Y P E	Valuation Type Preference	10	CHAR	Justified	37	
RESB-KZEAR	Final issue indicator	1	CHAR	Left Justified	38	
End of CR#180314						
RESBD - POTX1	Comments	40	CHAR	Left Justified	39	

6.3 Desired Report Design



7. Interactive Report Flow

NA

8. ALV Options

Call method `cl_salv_table=>factory` to display output.

9. Sort Criteria Details

NA

10. Calculations and Page Break related Information

NA

11. Error Handling

NA

11.1 Error Conditions and Logging

Error handling will be performed as part of the Selection Screen Validations and Data validations as per the provided logic.

11.2 Notification

NA

Error	HOW ERROR MESSAGE SHOULD BE REPORTED	Error Messages	Corrective action

11.3 Restart / Recovery

NA

12. Security Requirements/Authorization Details

SAP Role mapping and SOD will apply. Only users having role that provides access to Custom Report Transaction for Allocation Report, will be able to trigger this enhancement.

Security team will require to identify separate Authorization Object to provide access to this

report. Report program will require to maintain this Authorization Object to control access level access.

13. Additional Information and attachments

13.1 Reconciliation Reporting

NA

13.2 Attachments

Maintain the constant in the CCD tool

Below CCD entries have been maintained using transaction ZCRS_SAPYARDCCD in ECC. These constants are getting used in ZSCMR_ALLOCATION_REPORT report for list of background users, special stock indicator, movement types and material profile.

Data Browser: Table ZCRS_CCD Select Entries 5

ID	MANDT	NAME	TYPE	SEQUENCE	SGRV	OPTI	COOP1	COOP2	COOP3	COOP4	COOP5	LOW	HIGH
102		Z_PSD_R000093_BGUSER	S	1	I	EQ							BATCH-PS
102		Z_PSD_R000093_MATPROFILE	S	1	I	EQ							ZPS00003
102		Z_PSD_R000093_MVMT	S	1	I	EQ	HVMOB						415
102		Z_PSD_R000093_MVMT	S	2	I	EQ	MVTR						416
102		Z_PSD_R000093_SPSTK_BND	S	1	I	EQ	PROJ_STK						Q

14. HANA Artifacts

14.1 Object List :
NA

Object Name	Object Type	Ref. ABAP Object	Object Description	Action	Package	Delivery Units	Comments
	Calculation View/ Attribute view/ Analytic view/ Table/ DB Procedure			Create/ Modify			

14.2 DB Procedure Details :

Procedure Name:

NA

Parameter Name	Parameter Type	Parameter Data Type	Data Type	Length	Scale
	IN/OUT				

Method Name	AMDP METH PUB GET MSEG DATA		
Package	ZSCM		
Import Parameters			
IM_SHKZG_H	TYPE	SHKZG	Debit Credit Indicator
IM_SHKZG_S	TYPE	SHKZG	Debit Credit Indicator
IM_SPSTK_IND	TYPE	SOBKZ	Special Stock indicator
IM_MVT_TF	TYPE	BWART BWART	Movement type
IM_MVT_TR	TYPE	GTT_ALLOC_QTY	Movement type
IM_T_ALLOC_QTY	TYPE		Based on this table allocated quantity needs to be fetched.
IM_T_USER	TYPE	GTT_USER	Users
Export Parameters			
EX_T_MSEG	TYPE	GTT_MSEG	Mseg Data
Pseudo Code			

This AMDP Class ZSCMCL_AMDP_MM_ALLOC_REPORT and below AMDP Method for retrieving data from database tables and for calculations:

Method AMDP METH PUB GET MSEG DATA is used to retrieve data from table MSEG.

This method will take import parameters as SHKZG_H = 'H', SHKZG_S = 'S', IM_SPSTK_IND = 'Q', IM_MVT_TF = '415', IM_MVT_TR = '416', IM_T_USER as list of background users and IM_T_ALLOC_QTY and exporting parameter EX_T_MSEG of data fetched from MSEG.


Make a join select query on MSEG inner join IM_T_ALLOC_QTY for selecting field MSEG-MATNR, MSEG-PS_PSP_PNR and SUM(MSEG-MENGE) for movement type '415' and SUM(MSEG-MENGE * -1) for movement type '416' where MSEG-MATNR = IM_T_ALLOC_QTY-MATNR, MSEG-PS_PSP_PNR = IM_T_ALLOC_QTY-PS_PNR, Debit Credit Indicator as 'H', movement type '415' with special indicator 'Q' or without any or for movement type '416' with Debit Credit Indicator as 'S' and MSEG-USNAM_MKPF not in IM_T_USER into table EX_T_MSEG.

Final table EX_T_MSEG is passed by filtering out data with sum of MENGE using group by on MATNR and PS_PSP_PNR.

15. Unit Test Plan

System - SY1D
Client - 130


Normal Functionality -

Test Condition	Step	Step Description	Test Data	Expected Result	Actual Result	Executed By/Date	Remarks
Check for the correct report output	1	Run the report for valid WBS and plant combination.	Allocation Requirement Date - 02/06/2016 and 04/30/2016. Material-0540-0010 Plant-1004 WBS - J.15.001563.01.0 1	The ALV should be displayed with desired columns filled.	 Test Case1.doc	C Roy/ 11 Mar'2016	Success

15. Unit Test Plan

System - SY1D
Client - 130

Normal Functiona






An In-Depth Exploration of SAP OData: Standardized API..

SAP OData (Open Data Protocol) is a standardized protocol for building and consuming RESTful APIs...

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Test Condition	Step					Remarks
Check for the correct report output	1	combination.	Date - 02/06/2016 and 04/30/2016. Material-0540-0010 Plant-1004 WBS - J.15.001563.01.0 1	columns filled.	Test Case1.doc	Success

Test Condition	Step	Step Description	Test Data	Expected Result	Actual Result	Executed By/Date	Remarks
Fields in the report output, hyperlink on plant inventory and Exclusion of PLAN status material components	7	<p>Check new fields- Available in SLoc, Quantity in Sloc, Available in all Plants and All Plants inventory</p> <p>Check Hyperlink on All Plants inventory to MMBE and Exclusion of PLAN status material components</p> <p>Check new fields on</p>	<p>Execute report for WBS J.16.000772.01.01, Date- 04/01/2016 06/20/2016, Plant- 1004</p>	<p>New fields should be visible. Click on All Plants inventory value should show MMBE for selected material and any PLAN status material component should not come in report output</p>	 Test Case 7.doc	A Shrestha/17 May 2016	Success
New Quantity related fields in report output	8	<p>report output- Mob Qty, PGI Qty, GR Qty, Consumption Qty, Demob Qty, return PHI qty, return GR qty, Qty at well site and remaining project stock</p>	<p>Execute report for WBS J.16.000897.01.01, Date- 04/01/2016 12/20/2016, Plant- 1004</p>	<p>New quantity fields should be correctly calculated and displayed in report output</p>	 Test Case 8.docx	A Shrestha/23 May 2016	Success

Test Condition	Step	Step Description	Test Data	Expected Result	Actual Result	Executed By/Date	Remarks
TECO/Close project check on select box screen	9	Default uncheck the check box. On check report will include TECO or CLSD status projects also	Execute report for WBS J.16.000899.01. 01, Date- 04/01/2016 12/20/2016, Plant- 1004	TECO/CLSD status project will be include in the report output	 Test Case 9.docx	A Shrestha/23 May 2016	Success
End of CR#180314							




Exception - special logic or exceptions



NA

Test Condition	Step	Step Description	Test Data	Expected Result	Actual Result	Executed By/Date	Remarks

Error Handling - functionality in case of errors

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Test Condition	Step	Step Description	Test Data	Expected Result	Actual Result	Executed By/Date	Remarks
Error Case	1	Execute report invalid/no plant details.	Enter Allocation Requirement Date as 03.01/2016 WBS as J.16.000220.01.0 1, Material A962XP.	Error message will be populated on selection screen.	 Error Case 1.doc	C Roy/ 05 Mar'2016	
Error Case	2	Execute report with no WBS and Plant and allocation requirement date entered.	Allocation Requirement Date as 03/08/2016 Material A962XP.	Error message will be populated on selection screen.	 Error Case 2.doc	C Roy/ 05 Mar'2016	
Error Case	3	Execute report with Plant and WBS with different plant	Allocation Requirement Date as 03/08/2016 Material A962XP, WBS J.16.000220.01.0 1 and Plant 1006	Error message will be populated on selection screen.	 Error Case 3.doc	C Roy/ 05 Mar'2016	

Test Condition	Step	Step Description	Test Data	Expected Result	Actual Result	Executed By/Date	Remarks
Error Case	4	Execute report with WBS and invalid Material.	Allocation Requirement Date as 03/08/2016 Material TEST123HTTII, WBS 'J.16.000220.01.01'.	Error message will be populated on selection screen.	 Error Case 4.doc	C Roy/ 05 Mar'2016	
Error Case	5	Execute report with invalid WBS.	Allocation Requirement Date as 03/08/2016 Material A962XP, WBS 'J.16.010022.01.01'.	Error message will be populated on selection screen.	 Error Case 5.doc.docx	C Roy/ 05 Mar'2016	