GE Healthcare

GE Healthcare ERP Integration

MD60 Functional Design– Oracle to SPM Data Feeds

The purpose of this document is to outline the process to extract the item master, part source, onhand details, demand history, supply, part transaction information's and the processed recommendations records to SPM.

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Author(s):   Saurav Pawar, Functional Consultant, Global Services

Approver(s):   Pavan Venkata, Director, Global Materials Planning, HC GBL SVS-Materials Parts

Neel Sen, Director - Technical Product Management, HC IT-DST-Parts & lifecycle Solutions.

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Revision History

Revision	Date	Author	Change Reference	Reason for Change	Project/Control Number
1.0	01-Feb-2016	Jyotirup Bhattacharya	Initial Version	Initial Version	Daptiv Number: 10635, Service Parts Management Project for Global Services, GLPROD 2016.3 release.
2.0	18-May-2016	Jyotirup Bhattacharya	Section 9.2.4, 9.2.6.4, Sections 9.3.4, 9.4.4, 9.5.4, 9.6.4, 9.7.4, 11	Added additional field names. Added the business logic to derive the Average Repair Cost. Added additional field names.	Daptiv Number: 10635, Service Parts Management Project for Global Services, GLPROD 2016.3 release.
3.0	24-JUL-2016	Jyotirup Bhattacharya	Section 9.2.6.3 Section 9.3.4.66	Removed logic for price calculation for 'XOEC' modality. Added additional fields of ORG_SYS_DOCUMENT_REF	Daptiv Number: 10635, Service Parts Management Project for Global Services, GLPROD 2016.3 release.
4.0	23-May-2017	Akhilesh Jha	Section 9.1.1 9.1.4 9.1.5.2 9.1.6.2, 9.1.6.3, 9.1.6.4 13.1, 13.2 9.2.5.1, 9.2.5.2 9.3.4.67 9.5.4.65, 9.5.4.36, 9.5.4.34, 9.3.4.64 9.5.4.66, 9.5.4.37,9.5.4.35,9.3.4.65 9.6.4.1.14, 9.6.4.2.16, 9.6.6.10	Modified the logic to update error message in staging table Removed the assumption that transaction id will be a unique field coming from SPM. Updated the process flow to describe the process of marking unprocessed recommendations as error at the end of the day Updated the business rules to incorporate the correct error message logging updated the issue/risks and Response/Resolution Updated the logic to Include those parts for which Planning item category has been assigned/updated Updated the logic to derive the Order Type classification Updated the logic to derive the delivered quantity Updated the logic to derive PO Classification Updated the logic to derive the SPM Enabled flag against the subinventory	FCCC# CHG0106272 FCCC# CHG0106625
5.0	22-Aug-2017	Soumyadip Ghosh	9.7.4.32 9.7.6.8	FE Details to be sent as a part of Part Transactions Information Extract	FCCC# CHG0116566
6.0	25-Sep-2017	Soumyadip Ghosh	9.7.4.32 9.7.6.8	FE Details to be sent as a part of Part Transactions Information Extract.	FCCC# CHG0120202

				(Revision 5.0 FCCC# CHG0116566 withdrawn as design not complying with test scenarios)	
7.0	29-Mar-2018	Priyanka Bali	9.2.4.32 to 9.2.4.41 9.2.4.69 to 9.2.4.94 9.5.4.67	Part Master data extraction logic update and additional columns. Part Supply data extraction in additional information.	FCCC# CHG0136561
8.0	16-Jul-2018	Akhilesh Jha	Section 9.2.6.12	Changed condition of Special parameter submitted without date range for Part Master Extract	FCCC# CHG0151930
9.0	17-Aug-2018	Akhilesh Jha	Section 9.2.4.23 Section 9.2.6.3 9.2.6.10 Section 9.5.4 Section 9.5.4.68 Section 9.5.6.12 Section 9.5.6.13 Section 9.5.6.14 Section 9.7.4.33 Section 9.7.6.8	Updated Data entity for part Cost Updated the logic to derive part cost. Updated the logic to derive shelf life control Updated Data entity 9.5.4.69 and from 9.5.4.74 through 9.5.4.109 Added the purpose of additional_info_4 in table GEHC_SVC_SPM_PART_SUPPLY_FEEDS Added business rules to populate identifier to restrict POs Updated logic to derive sales order details corresponding to an Affiliate, Internal, Defective or Repair purchase order. Added the logic to derive PO Source Updated Data entity to capture FE Local warehouse Updated logic to derive FE Local warehouse	FCCC# CHG0152798
10.0	12-Mar-2019	Akhilesh Jha	Section 9.5.2 Section 9.5.6.2 Section 7.3	Updated the Program parameters for Supply extract program. Updated the data extract logic to cover appropriate scenarios to extract data. Expected Performance and Volume for Supply Program documented.	FCCC# GXPCHG0036216
11.0	29-May-2019	Akhilesh Jha	Section 9.2.4.85 Section 9.2.4.86 Section 9.2.4.87	Updated data entity for part weight in kilograms Updated data entity for BIN BULK flag	FCCC# GXPCHG0039983

			Section 9.2.6.10	Updated data entity for Business Modality
			Section 9.2.6.14	Updated value set name for item modality to business mapping
			Section 9.2.6.15	Updated business rules for part weight in kilograms
			Section 9.2.6.16	Updated business rules for BIN BULK flag
			Section 9.3.4.68	Updated business rules for Business Modality
			Section 9.3.4.69	Updated the data entity to include the default warehouse
			Section 9.3.6.10	Updated the data entity to include the Customer class code
			Section 9.3.6.11	Updated logic to derive the default warehouse
			Section 9.4.4.1.16	Updated logic to derive the customer class code
			Section 9.4.6.10	Updated data entity for Internal Supplier Lead Time
			Section 9.6.4.1.15, 9.6.4.2.17	Updated business logic for Internal Supplier Lead Time
			Section 9.6.4.2.18	Updated data entity for frozen cost in USD
			Section 9.6.4.2.19	Updated data entity for locator
			Section 9.6.4.2.20	Updated data entity for Customer Class code
			Section 9.6.6.13	Updated data entity for Primary PUDO location
			Section 9.6.6.14	Updated business logic for frozen cost in USD
			Section 9.6.6.15	Updated business rules for locator
			Section 9.6.6.16	Updated business rules for Customer Class code
			Section 9.7.4.33	Updated business rules for Primary PUDO location
			Section 9.7.4.34	Updated data entity for Customer class Code

			Section 9.7.6.9	Updated data entity for primary PUDO location	
			Section 9.7.6.10	Updated business logic for Customer class Code	
			Section 13.1, 13.2	Updated business rules for primary PUDO location	
				Bug Fix for issue identified in Supply Extract program	
12.0	05-Jul-2019	Akhilesh Jha	Section 3	Documentation Reference to enter proper Requirement Id	FCCC# GXPCHG0039983
13.0	09-Sep-2019	Akhilesh Jha	Section 9.3.4.65, 9.3.4.70, 9.3.4.71	Updated the logic for FE_WAREHOUSE, ADDITIONAL_INFO_5 and ADDITIONAL_INFO_6 fields	FCCC# GXPCHG0042415
			Section 9.3.6.12	Updated the logic for FE_WAREHOUSE column	
			Section 9.3.6.13	Updated the logic for ADDITIONAL_INFO_5(default FE warehouse) column	
			Section 9.4.4.2.7, 9.4.4.2.8, 9.4.4.2.9	Added the data entity for preprocessing, processing and post processing lead time of internal suppliers	
			Section 9.4.4.1.16 9.4.4.2.10	Added the data entity for Sourcing rule name in Internal and external supplier extracts	
			Section 9.4.6.10	Updated the logic of data extraction for pre-processing, processing and post processing component of internal supplier lead time	
			Section 9.4.6.11	Updated the data extraction logic for sourcing rule name	
			Section 9.5.4.65	Updated the data entity for FE local warehouse for RMA receipts	
			Section 9.5.4.70	Updated the data entity for PO Price in USD	
			Section 9.5.6.15	Updated the data extraction logic for PO Price in USD	
			Section 9.5.6.16	Data extraction logic for FE local warehouse for RMA receipts	
			Section 9.6.4.1.19 9.6.4.2.21	Updated data entity for subinventory disable date	
			Section 9.6.4.2.22		

			Section 9.6.6.17	Updated Data entity for FE local warehouse for service organization onhand	
			Section 9.6.6.18	Updated business rules for subinventory disable date	
			Section 9.7.4.32, 9.7.4.35	Updated the logic to extract FE local warehouse for service organization onhand	
			Section 9.7.4.36	updated data entity for FE SSO and local warehouse	
			Section 9.7.6.8, 9.7.6.11	updated data entity for Sales Order header warehouse	
				updated business rules for FE SSO and local warehouse	
14.0	24-Jan-2020	Ankur Vikas	Section 9.4.4.3	Data Entity for Repair Suppliers	SPE# 201953496
			Section 9.5.6.17	Updated logic to derive Additional Info 7 and 8 for defective POs	
			Section 9.6.5.3,4	Updated logic to compute Defective onhands	
15.0	14-Jul-2020	Akhilesh Jha	Section 9.3.2	Updated input section of demand extract program	SPE # 208600938
			Section 9.3.4.72, 9.3.4.73, 9.3.4.74	Updated data entity with mapping logic for columns ADDITIONAL_INFO_7, ADDITIONAL_INFO_8, ADDITIONAL_INFO_9 to get Order type DFF Use for autorelease, delivery detail status and Cross reference auto release status respectively.	
			Section 9.3.5.3,9.3.5.5	Updated Criteria to extract the order information	
			Section 9.3.5.4	Updated process flow for Repair Center demand data	
			Section 9.3.6.2, 9.3.6.4	Updated the business rules to correct the order type criteria	
			Section 9.3.6.7		
				Updated the business rule for data extraction	
			Section 9.3.6.13		
				Updated business rules for Repair Center demand data	
			Section 9.7.4.37		

				Updated data entity for transfer organization code of direct org transfer	
16.0	05-JAN-2020	Hariharan Alagarraja	Section 9.3.6.14 Section 9.3.6.15 Section 9.3.6.16	Added logic to get demand for 12 months	SPE# 214228979
17.0	19-Jul-2021	Akhilesh Jha	Section 9.4.4.1.17,9.4.4.2.11,9.4.4.2.20,9.4.4.2.21	Updated data entity for MOQ, Procurement lot size and supplier capacity for internal suppliers.	FCCC # GXPCHG0065416
18.0	06-Dec-2021	Ankur Vikas	Section 9.4.6.12, 9.4.4.3.25	Included Repair Supplier extract for Swap part routings with purpose Swap	SPE # 222882805
			Section 9.6.5.4	Warranty status of defective swap onhands mapped to additional_info_9 column	
19.0	29-May-2022	Akhilesh Jha	Section 9.3.4.28	Updated data entity for schedule ship date	SPE 226608581
			Section 9.3.4.48	Updated data entity for sales validation organization	
			Section 9.3.4.71	Updated data entity for SR type	
			Section 9.3.6.17	Updated logic for SR Type	
			Section 9.3.6.18	Updated logic for Sales validation organization	
20.0	21-Jul-2022	Akhilesh Jha	section 9.2.4.88 through 9.2.4.114	Addition of columns additional_info_26 to additional_info_45 and derivation logic for ADDITIONAL_INFO_19(Use Onhands),ADDITIONAL_INFO_20(Block Procurement From),ADDITIONAL_INFO_21(Block Procurement To),ADDITIONAL_INFO_22(Block Repair From),ADDITIONAL_INFO_23(Block Repair To),ADDITIONAL_INFO_24(Quality Hold Date),ADDITIONAL_INFO_25(Phase In Date),ADDITIONAL_INFO_26(C2R Date),ADDITIONAL_INFO_27(R2C Date)	SPE 228125574
			Section 9.5.6.18	Updated logic for PO LINE LOCATION CREATED BY and PO LINE LOCATION LAST UPDATED BY fields	
21.0	4-Aug-2022	Akhilesh Jha	Section 9.2.4.89 to 9.2.4.92	Updated the field type of APC attributes from character to date	SPE 228125574
			Section 9.2.5.4	Added the new responsibility name for APC attribute update and bulk upload	

22	9-Aug-2022	Akhilesh Jha	Section 9.2.4.89 through 9.2.4.96 Section 9.5.4.54	Changed the Attribute group and columns mapping Updated length for hold name field	SPE 228125574
23	6-Sep-2022	Akhilesh Jha	Section 9.2.4.32 through 9.2.4.46 Section 9.2.6.16	Removed the logic of deriving the planning attributes from category set GE_GPO_SPM_PLN_DETAILS. Removal of values from GE_GPO_SPM_PLN_DETAILS to derive planning attributes	SPE 228885774
24	19-Oct-2022	Akhilesh Jha	Section 9.4.4.5.1 through 9.4.4.5.9 Section 9.4.5.5 Section 14	Added data entity for Transfer routing Added process flow for data extraction of transfer routing data Added screenshot of defective routing form in appendix	229583613
25	08-Dec-2022	Saurav Pawar	Section 9.4.4.3.19 and 9.4.4.3.20 Section 9.4.6.13 and 9.4.6.14 Section 14	Added data entity for Purpose and Supplier city of the repair supplier Added Business rule for data extraction of Purpose and Supplier city Added screenshot of defective routing and Supply base form in appendix.	SPE 230378112
26	14-Feb-2023	Saurav Pawar	Section 9.5.4.3, 9.5.4.63, 9.5.4.66, 9.5.4.67	Added data entry for RMA data set as part of Supply extract, to get all type of RMA returns with sub Inventory code and sub Inventory classification details	SPE 11617578366

Table of Contents

1. Introduction

Service Parts Management (SPM) is the tool to be used for planning of parts across the GE Healthcare Service organizations. This will primarily replace XELUS and other small home grown tools used across the Globe.

SPM will run its forecasting engine based on the historic demand placed in Oracle considering the incoming supplies and existing item onhand across the warehouse in the globe and its network. The forecasting engine will also consider the existing part sources and item master information to make appropriate recommendations.

The below document describes the data extraction from Oracle to SPM that will serve as input to the forecasting engine for generating plan levels and recommendations.

The other processes shall be referred to in different design documents.

2. Scope

In Scope

Oracle Data will be extracted for all the SPM planning enabled warehouses. The data to be pulled essentially includes:

- Part master information
- Demand information
- Supply information
- Part source information
- Part transactions information
- SPM Recommendation results

Out of Scope

All process unrelated to the extraction of data from Oracle for SPM.

3. Documentation References

Doc ID	Document Name
Requirement ID : 105941	Requirement Name : URS-003_Revision_104410_Revision_2
Requirement ID : 104457	Requirement Name: URS-004_Revision_104411
Requirement ID : 104459	Requirement Name: URS-007_Revision_104414
DOC0098982	GLPROD_MD60_LOG_DEFECTIVE_SHIPMENT_PROCESS
Requirement ID: 106053	Extract Demand Information of sales Order lines for past 12 months

4. Prerequisites

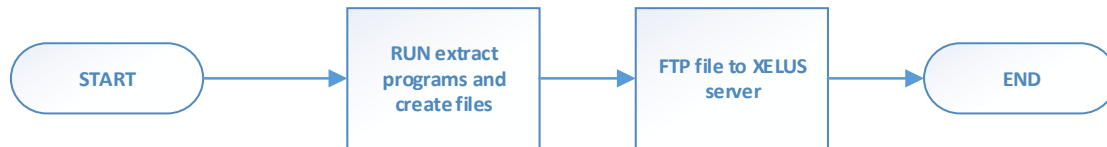| 1	Value 'ORACLE_TO_SPM_INTERFACE' should be enabled in the value set 'GEMS_GLP_INTERFACE_VALUESET' for the interface to process recommendations.
2	GEHC_SVC_SPM_ENABLED_WAREHOUSE is a value set created to hold all organizations in scope for the SPM integration with Oracle. All organizations active in this value set should be considered for the processes.
3	The extract programs will run in DAILY or WEEKLY mode. For every run the previous runs data will be purged. However, there will be an avenue to run in SPECIAL mode with from and to dates.

5. Terminology

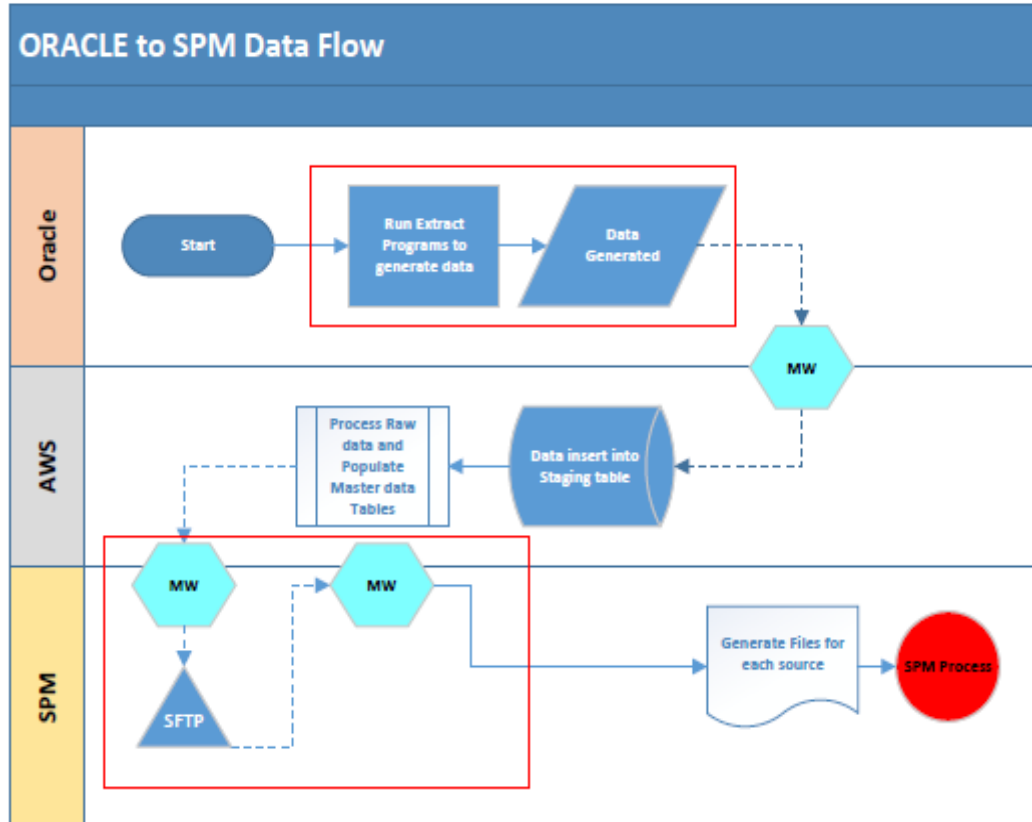| Term	Explanation
SPM	Global Parts planning tool
Organization	Warehouses (Physical / Logical) that represent inventory entities
FE	Field Engineer
DC	Distribution Centre
Sub-inventory	Subdivision of an organization, representing either a physical area or a logical grouping of parts, such as BAD, GOOD Parts.
Locator	Physical area within a sub-inventory where you store material, such as row, bin or shelf and quantities tracked by locator
Parts Organization	'DC', 'WAREHOUSE' and 'SERVICE' inventory organizations
GPRS Organization	'DC' and 'WAREHOUSE' inventory organizations
Service Organization	'SERVICE' inventory organizations
Location	Oracle Sub-inventory
Good quantity	Good stocks available on-hand in GPRS organizations ('DC' and 'WAREHOUSE')
AWS	Amazon Work Space
MW	Middleware

6. As Is Process

Process Flow Diagram

Process Flow Narrative

a) Select organization, part and on-hands from those 'PARTS' organizations, which does not exist in value set 'GE_XELUS_RESTRICT_ORGS' and those sub-inventories that do not exist in value set GE_XELUS_EXCLUDE_SUBINV.

b) Send the extracted data file to Xelus

7. To Be Process

Process Flow Diagram

Process Flow Narrative

The process flow narrates the process of the data transfer from Oracle to SPM. The data elements to be extracted are as follows:

- Parts Master: This is the item master information extracted from the Item master organizations defined in the 'GEHC_SVC_SPM_ENABLED_WAREHOUSE' warehouse, i.e the 'GPO' org. The screenshot for the same is provided in the Appendix. This will be a daily, weekly as well as a special extract.
- Parts Demand: This is the extract of all the sales orders whose order type is defined in the value set 'GE_SVC_SPM_SO_DEMAND_TYPES'. The screenshot for the same is provided in the Appendix. This will be a daily incremental extract or a special extract.
- Part Supply: This is the extract of all the open supplies, i.e. Purchase Orders, Internal Requisitions that are approved. All received Return Material Authorization (RMA's) will be referred as well. This will be extracted for organizations defined in the 'GEHC_SVC_SPM_ENABLED_WAREHOUSE' value set. The screenshot for the same is provided in the Appendix. This will be a daily incremental extract or a special extract.

- Part Source: This is the extract of the all the sources of a part like Suppliers (Internal or External) from who we will procure the parts. This will be a weekly extract.
- Part Transactions: All the material transactions for the transaction types defined in the value set 'GEHC_SVC_SPM_TXN_DETAILS' will be extracted. The screenshot for the same is provided in the Appendix. This will be a daily incremental extract or a special extract.
- Part Onhand: The onhand of the parts in the organizations defined in the 'GEHC_SVC_SPM_ENABLED_WAREHOUSE' value set. The screenshot for the same is provided in the Appendix. This will be a daily extract.
- SPM recommendation feedback: All the outcomes of the recommendations send by SPM will need to be fed back and done as part of this extract run daily.

Separate tables will be created for fetching the data extracts from oracle by the middleware. The data from the same shall be picked up by middleware (BOOMI) and transmitted to Amazon Web Services (AWS) and henceforth to SPM.

██████ **Performance & Volume**

Reference	Requirement
Part Master	Approximate volume of 300MB ;Around 5.5 Lakh records will be fetched weekly approximately
Part Source	Approximate of 25 MB ; Around 1.5 Lakh records will be fetched weekly approximately
Part Onhand	Approximate of 25 MB ; Around 1.5 Lakh records will be fetched daily approximately
Part Demand Information	Approximate volume of 30MB; Around 2 Lakh records will be fetched daily approximately
Part Supply Information	Approximate volume of 30MB; Around 2 Lakh records will be fetched daily approximately. Around 70-80 lakh records approximately will be fetched for 3 years date range. The expected performance is as follows : <table><tr><th>Date Range</th><th>Expected Run Duration</th></tr><tr><td>Daily</td><td>15 min</td></tr><tr><td>1 month</td><td>20 min</td></tr><tr><td>6 month</td><td>1 hours 15 mins</td></tr><tr><td>1 year</td><td>2 hours</td></tr><tr><td>3 years</td><td>~4 hours (1 hour buffer)</td></tr></table>
Part Transaction	Approximate volume of 15MB; Around 50 thousand records will be fetched daily approximately
SPM recommendation feedback	Approximate volume of 5MB; Around 10 thousand records will be fetched daily approximately

██████ **Security (Encryption & Authorization)**

Reference	Requirement
7.4.1	None

8. Critical to Quality and or GxP

The interface from SPM and Oracle is GxP.

9. Functions

The following is the list of functions

Function Name	Function Description
SPM Recommendation feedback	This function will update the recommendation staging table GEHC_SVC_PLN_SPM_STG with the Sales Order, Purchase Order Numbers for all records in 'P' status. Post updating the records will be extracted from this staging table.
Part master Data	Function to extract part attribute information from GPO Organization for all parts eligible for planning and feed the same to SPM.
Part Demand Data	Function to extract the demand information from all planning enabled GPRS Warehouses and feed the same to SPM
Part Source Data	Function to extract supplier's details for each part along with supplier classification-Internal, External along with the processing lead times of each supplier.
Part Supply Data	Function to extract all forms of inbound data to warehouse that happens across all GPRS organizations which are planning enabled.
Part Onhand Data	Function to extract all onhand information across all GPRS planning enabled organizations and service organizations
Part Transaction Data	Function to extract the part transactions information from the material transaction for the types defined in the value set
Purging the recommendations staging table	The purging of the recommendations staging table to be done through a separate concurrent program.

Function: SPM Recommendation feedback.

9.1.1. Approach / Description

This process will send feedback on the Oracle actions taken over the recommendations send by SPM.

On initiation, create an entry in the GEMS_IFACE_PROCESS_TABLE table to indicate the start time of the interface.

Firstly, all the recommendations will be updated with the relevant Sales Order (line_id) and/or Purchase Order details (line_location_id). For this extract all the records in the table GEHC_SVC_PLN_SPM_STG with for which req_line_id is populated.

- For NEWBUY recommendations, check for the Purchase Order created from the purchase requisition line id mentioned in the table. For successful PO created, update the po line location id in column PO_LINE_LOCATION_ID and update the status as 'S'. If Purchase order is not found, update the status as 'E' with the PO creation failure error message in the ERROR_MESSAGE column.

- For ALLOCATION recommendations, check for the Sales Order and Purchase Order created from the internal requisition line id mentioned in the table. For successful PO and SO created, update the po line location id in column PO_LINE_LOCATION_ID, SO line id in the SO_LINE_ID column and update the status as 'S'. If Purchase order/Sales Order is not found, update the status as 'E' with the processing failure error message (demand sourcing error table) in the ERROR_MESSAGE column.

Update process_flag as 'E' and error message as 'Recommendation did not process by end of the day' for all records in GEHC_SVC_PLN_SPM_STG table where creation date is today's date and process flag is not in 'E' or 'S'.

Once the records are updated, data from the recommendations table-GEHC_SVC_PLN_SPM_STG is extracted from the last extract start time of this function. This can be obtained from the GEMS_IFACE_PROCESS_TABLE data.

9.1.2. Inputs

The function will have DAILY frequency as input parameter.

9.1.3. Outputs

The function will update the document details (purchase order line location id and/or sales order line id) in the GEHC_SVC_PLN_SPM_STG table.

9.1.4. Data Entity

The data elements for the GEHC_SVC_PLN_SPM_STG table are:

Column name	Data Type	Length	Nullable	Explanation
LOAD_ID	NUMBER	25	N	Unique Number to identify the interfaced data. This sequence will be generated by Middleware.
TRANSACTION_ID	NUMBER	25	N	Transaction id assigned against each recommendation from SPM system.
PLAN_RECOMMEND	VARCHAR2	20	N	Type of Recommendation REPAIR/MANUAL-REPAIR/ALLOCATION/NEWBUY/MANUAL-ALLOCATION/MANUAL-NEWBUY/MODIFICATION
QUANTITY	NUMBER	25	N	Quantity of item requested in items PRIMARY UOM
ITEM_NUMBER	VARCHAR2	40	N	Item Number
SOURCE_ORGANIZATION_CODE	VARCHAR2	3	Y	From Organization – used for Allocation/Repair
DESTINATION_ORGANIZATION_CODE	VARCHAR2	3	Y	To Organization – used for New-Buy/Allocations
SUPPLIER_DETAILS	VARCHAR2	100	Y	Supplier Number and Site Concatenated by '|'

Column name	Data Type	Length	Nullable	Explanation
NEED_BY_DATE	DATE	NA	Y	Need by Date for the Purchase Order in the format 'DD-MM-YYYY H24:MI:SS'
SHIP_METHOD_TYPE	VARCHAR2	25	Y	Ship Method classification (CEX/CRP)
DOCUMENT_ID	NUMBER	25	Y	LINE_LOCATION_ID – For PO, LINE_ID for SO. Will need to be send only for Modifications recommended from SPM
CREATED_BY_SSO	VARCHAR2	15		SSO of the user from SPM
CREATION_DATE	DATE	NA	N	Creation date from SPM in the format 'DD-MM-YYYY H24:MI:SS'
LAST_UPDATED_BY	VARCHAR2	25	Y	SSO of the user from SPM – populated only for Modifications
LAST_UPDATE_DATE	DATE	NA	Y	If modifications are sent by SPM like quantity change or Date change then this field will contain the date when SPM is suggesting the change. Else it will be same as the creation date. The field will be in the format 'DD-MM-YYYY H24:MI:SS'
PLAN_ORDER_DATE	DATE	NA	N	Date when recommendation was Planned in SPM in the format 'DD-MM-YYYY H24:MI:SS'
PROCESS_FLAG	VARCHAR2	5	N	E – Error, S- Success, V – Validation Successful, N- New Record, P- In Process
ERROR_MESSAGE	VARCHAR2	3000	Y	Error message for the Error records
INTERFACE_SOURCE_CODE	VARCHAR2	25	N	Hard Coded : SVC-SPM
SUPPLIER_NUMBER	VARCHAR2	30	Y	Initial half before '|' in the SUPPLIER_DETAILS column
SUPPLIER_SITE	VARCHAR2	45	Y	Later half after '|' in the SUPPLIER_DETAILS column
AUTHORIZATION_STATUS	VARCHAR2	25	Y	Hard Coded: APPROVED
SUBINVENTORY_CODE	VARCHAR2	10	Y	SUBINVENTORY code to receive the part
BUYER_NAME	VARCHAR2	100	Y	BUYER name to be used for Requisition
SHIP_TO_LOCATION	VARCHAR2	60	Y	LOCATION name for the Warehouse
REQ_LINE_ID	NUMBER	NA	Y	Requisition Number LINE_ID – To be populated post processing
PO_LINE_LOCATION_ID	NUMBER	NA	Y	Purchase Order Number LINE LOCATION ID – To be populated post processing
SO_LINE_ID	NUMBER	NA	Y	Sales Order Number LINE_ID – To be populated post processing

Column name	Data Type	Length	Nullable	Explanation
PO_NUMBER	VARCHAR2	20	Y	Purchase Order Number
PO_REL_NUM	NUMBER	NA	Y	Purchase Order Release Number
PO_LINE_NUM	NUMBER	NA	Y	Purchase Order Line Number
PO_SHIPMENT_NUM	NUMBER	NA	Y	Purchase Order Shipment Number
PO_REV_NUM	NUMBER	NA	Y	Purchase Order Revision number
PO_DOCUMENT_TYPE	VARCHAR2	25	Y	Purchase Order Type
OPERATING_UNIT	VARCHAR2	240	Y	Operating Unit Name

9.1.5.   Process Flow

Reference	Requirement
9.1.5.1	Update the SPM inbound table GEHC_SVC_PLN_SPM_STG with document details and the status flag.
9.1.5.2	Update process_flag as 'E' and error message as 'Recommendation did not process by end of the day' for all records in GEHC_SVC_PLN_SPM_STG table where creation date is today's date and process flag is not in 'E' or 'S'.
9.1.5.3	Extracts records from GEHC_SVC_PLN_SPM_STG based on the last extract start time.

9.1.6.   Business Rules

Reference	Business Entity	Rule
9.1.6.1	Data Population	Add a record in the GEMS_IFACE_PROCESS_TABLE table with: INTERFACE_NAME: GLPROD_TO_SPM_DATA_FEED PROGRAM_NAME: DAILY_SPM_FEEDBACK START_DATE: sysdate STATUS_FLAG: 'I'
9.1.6.2	Data Extraction	All records where req_line_id is populated in table GEHC_SVC_PLN_SPM_STG should be looked for update.
9.1.6.3	Data Population	• For NEWBUY recommendations, check for the Purchase Order created from the purchase requisition line id mentioned in the table. For successful PO created, update the po line location id

Reference	Business Entity	Rule
		in column PO_LINE_LOCATION_ID and update the status as 'S'. (The line location id in requisition lines table matches the line location id in PO line locations table). If Purchase order is not found, update the status as 'E' with the PO creation failure error message (from PO_INTERFACE_ERRORS table in the ERROR_MESSAGE column. • For ALLOCATION recommendations, check for the Sales Order and Purchase Order created from the internal requisition line id mentioned in the table(look in GEMS_ONT.GEMS_DS_LINES_ALL table with the requisition line id). For successful PO and SO created, update the po line location id in column PO_LINE_LOCATION_ID, SO line id in the SO_LINE_ID column and update the status as 'S'. If Purchase order/Sales Order is not found, update the status as 'E' with the processing failure error message (demand sourcing error table GEMS_APPS.GEMS_GEMOMDSS_MSGS) in the ERROR_MESSAGE column. • If Purchase order/Sales Order is not found , then try to find the error message in table GEMS_APPS.GEMS_GEMOMDSS_MSGS against the requisition line id If there are no error messages in GEMS_APPS.GEMS_GEMOMDSS_MSGS table against the requisition line then find the first error message from the table for the requisition header and populate it in Error message column of the staging table.
9.1.6.4	Data Population	Update process_flag as 'E' and error message as 'Recommendation did not process by end of the day' for all records in GEHC_SVC_PLN_SPM_STG table where creation date is today's date and process flag is not in 'E' or 'S'.
9.1.6.5	Data Extraction	The data extraction of the staging table is done based on the functions last run start time which can be fetched from the GEMS_IFACE_PROCESS_TABLE.
9.1.6.6	Data Population	For successful completion: Update the GEMS_IFACE_PROCESS_TABLE table with the completion date and time of this execution of the function and status as 'C'. For failure: Update the GEMS_IFACE_PROCESS_TABLE table with the completion date and time of this execution of the function, status as 'E' and the error reason in the Message field.

9.1.7.   Translations/Transformations (Interfaces Only)

There will be no transformation/translation of data at oracle end.

9.1.8.   Initiation

This function will run always on daily frequency.

9.1.9.   Error Handling, Reprocessing / Rollback & Error Messaging
None

▮Function: Part master Data

9.2.1.   Approach / Description

Extract the item master information for all parts eligible for planning from item Master Organization mentioned for the organization in the value set 'GEHC_SVC_SPM_ENABLED_WAREHOUSE'. Whenever the function is invoked, a respective entry, highlighting the interface name, is created in custom table – GEMS_IFACE_PROCESS_TABLE to allow easy debugging in case of any issue.

Before extraction of data, the custom table where the extracts are stored for the previous run are purged completely for the corresponding interface name and are loaded with a new set of data by using the previous extract start run date/time as input for the next set of extraction or between a specific date intervals passed as input to the concurrent program.

The new set of data extracted will be appended to the previous set stored in the AWS layer making it an incremental type of extract.

9.2.2.   Inputs
Part Attributes information needs to be fetched for Item Master Organization mentioned for the organization in the value set 'GEHC_SVC_SPM_ENABLED_WAREHOUSE' for all parts and the same will be fed to the interface connected to SPM. The attributes to be extracted are mentioned in the section 9.2.4

9.2.3.   Outputs

At the start and end of this program, the corresponding entries must be made into the GEMS_IFACE_PROCESS_TABLE specifying the date and time for interface name:

ORACLE_TO_SPM_DAILY and program name: PARTS_MASTER. The extracted records are stored into the table- GEHC_SVC_SPM_PART_MASTER_FEED

9.2.4.   Data Entity

The data entities of the Part Master extract and table (GEHC_SVC_SPM_PART_MASTER_FEED) columns are:

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.2.4.1	Data Type	DATA TYPE	VARCHAR2	20	Constant	PART_MASTER
9.2.4.2	Data Frequency	DATA FREQUENCY	VARCHAR2	10	NA	DAILY/WEEKLY – as passed in the concurrent program parameter. SPECIAL- when the extract runs for a specified date interval passed as parameter to the concurrent program
9.2.4.3	Item Master	ITEM NUMBER	VARCHAR2	40	Inventory →Items→ Organization Items→Item	Number from Item Master
9.2.4.4	Item Master	ITEM STATUS	VARCHAR2	10	Inventory →Items→ Organization Items→Main tab→Item status	Status of the part from Item Master
9.2.4.5	Item Master	ITEM DESCRIPTION	VARCHAR2	240	Inventory →Items→ Organization Items→ Description	Description of the part from Item Master
9.2.4.6	Item Master	ITEM ID	NUMBER	NA	Inventory →Items→ Organization Items	Inventory Item Id of the part from Item Master
9.2.4.7	Item Master	MODALITY	VARCHAR2	240	Inventory →Items→ Organization Items→DFF→Modality (Attribute 3)	Modality of the part for GPO org where context is Global Parts Items
9.2.4.8	Item Master	ITEM TYPE	VARCHAR2	30	Inventory →Items→ Organization Items→Main tab→User Item type	Item type of the part from Item Master
9.2.4.9	Item Master	HAZARDOUS DETAILS	VARCHAR2	281	Inventory →Items→ Organization Items→Purchasing tab→Hazard class	Combination of Hazard Class and Description separated in pipe delimited format.
9.2.4.10	Item Master	PLANNER CODE	VARCHAR2	10	Inventory →Items→ Organization Items→General Planning->Planner	Planner Code of the item from Item Master

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.2.4.11	Item Master	PROD REL DATE (ATTRIBUTE 4)	VARCHAR 2	240	Inventory→Items→ Master Item→DFF → PROD REL DATE	Prod Rel Date (Attribute 4)
9.2.4.12	Item Master	ECCN CODE(ATTRIBUTE5)	VARCHAR 2	240	Inventory→Items→ Master Item→DFF → ECCN CODE	ECCN Code (Attribute 5)
9.2.4.13	Item Master	COUNTRY OF ORIGIN(ATTRIBUTE7)	VARCHAR 2	240	Inventory→Items→ Master Item→DFF → COUNTRY OF ORIGIN	Country of Origin (Attribute 7)
9.2.4.14	Item Master	SPECIAL HANDLING(ATTRIBUTE8)	VARCHAR 2	240	Inventory→Items→ Master Item→DFF → SPECIAL HANDLING	Special Handling (Attribute 8)
9.2.4.15	Item Master	GEMSIT TP STATUS FLAG(ATTRIBUTE9)	VARCHAR 2	240	Inventory→Items→ Master Item→DFF → GEMSIT TP STATUS FLAG	Gemsit Tp Status Flag(Attribute 9)
9.2.4.16	Item Master	RECEIVING INSPECTION CODE(ATTRIBUTE10)	VARCHAR 2	240	Inventory→Items→ Master Item→DFF → RECEIVING INSPECTION CODE	Receiving Inspection Code (Attribute10)
9.2.4.17	Item Master	INVOICE UOM(ATTRIBUTE15)	VARCHAR 2	240	Inventory→Items→ Master Item→DFF → INVOICE UOM	Invoice UOM (Attribute 15)
9.2.4.18	Item Master	GEMS_INSTALL_BASE_TRACKING (ATTRIBUTE 14)	VARCHAR 2	240	Inventory→Items→ Master Item→DFF → GEMS_INSTALL_BASE_TRACKING	Gems_Install_Base_Tracking (Attribute 14)
9.2.4.19	Item Master	ITEM ATTRIBUTE11	VARCHAR 2	240	Inventory→Items→ Master Item→DFF → ATTRIBUTE11	Item Attribute 11
9.2.4.20	Item Master	ITEM ATTRIBUTE12	VARCHAR 2	240	Inventory→Items→ Master Item→DFF → ATTRIBUTE12	Item Attribute 12
9.2.4.21	Item Master	ITEM ATTRIBUTE13	VARCHAR 2	240	Inventory→Items→ Master Item→DFF → ATTRIBUTE13	Item Attribute 13

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.2.4.22	Item Master	PLANNER DETAILS	VARCHAR2	372	Purchasing→Setup →Personnel→Buyers	Planner Details comprises of a combination of Planner Name, Planner Employee Number and Planner User Name separated in pipe delimited format
9.2.4.23	Item Master	ITEM COST	NUMBER	NA	trp_cur_mmicv from prepro.gems_tran_price_tb table	MMICV Item Cost (Derive the cost as trp_cur_mmicv from first record after sorting all the records in descending order of trp_cur_mmicv)
9.2.4.24	Hold Sources	MANUAL BACKLOG HOLD	CHAR	1	Order Management→Order Organizer→Tools→ Create Hold Sources	Manual Backlog Hold in M02.Screenshot of the same is added in Appendix
9.2.4.25	Item Category	AUTO-RELEASE EXCLUSION REASON(SEGMENT1)	VARCHAR2	40	Inventory→Items→ Master Item→Tool→Category→ GEHC_GPO_EXCLUDE_AUTOREL	Auto Release Exclusion Reason Flag
9.2.4.26	Hold Sources	JAPAN SPECIFIC HOLDS-EXPORT	CHAR	1	Order Management→Order Organizer→Tools→ Create Hold Sources	Japan export only hold. Screenshot of the same is added in Appendix
9.2.4.27	Hold Sources	JAPAN SPECIFIC HOLDS-DOMESTIC	CHAR	1	Order Management→Order Organizer→Tools→ Create Hold Sources	Japan domestic hold. Screenshot of the same is added in Appendix
9.2.4.28	Item Master	MEDICAL DEVICE	VARCHAR2	30	Fetched from APC attributes	Refer to screenshot in appendix. Medical Device identifier for GEM org
9.2.4.29	Item Master	CONTAINS MEDICAL DEVICE	VARCHAR2	30	Fetched from APC attributes	Refer to screenshot in appendix Contains Medical Device identifier for GEM org
9.2.4.30	Item Master	SHELF LIFE CODE	NUMBER	NA	Inventory →Items→ Organization Items→Inventory tab→Lot Expiration(Shelf Life) →Control	Shelf Life Code determines whether a part is shelf life controlled or not.

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.2.4.31	Item Master	GPO CATEGORY SET	VARCHAR 2	81	Inventory→Items→ Master Item→Tool→Catego ry→ GEHC GPO CAT SET	GPO Category Set: Concatenated value of segment1 and segment2. Separated in pipe delimited format Segment2 will have values for Swap, Harvest and C2R.
9.2.4.32	Item Category	PLANNING CATEGORY SEGMENT1	VARCHAR 2	30	APC → Setup → Setup Workbench → Items →Item Attributes → Part Criticality → Part Criticality	Planning Category Segment1 Flag to be derived from APC Item Attribute Setup
9.2.4.33	Item Category	PLANNING CATEGORY SEGMENT2	VARCHAR 2	30	APC → Setup → Setup Workbench → Items →Item Attributes → NPI Program	Planning Category Segment2 Flag to be derived from APC Item Attribute Setup.
9.2.4.34	Item Category	PLANNING CATEGORY SEGMENT3	VARCHAR 2	30	APC → Setup → Setup Workbench → Items →Item Attributes → Tech Obso	Planning Category Segment3 Flag to be derived APC Item Attribute Setup.
9.2.4.35	Item Category	PLANNING CATEGORY SEGMENT4	VARCHAR 2	30	APC → Setup → Setup Workbench → Items →Item Attributes → Fin Obso	Planning Category Segment4 Flag to be derived APC Item Attribute Setup.
9.2.4.36	Item Category	PLANNING CATEGORY SEGMENT5	VARCHAR 2	30	APC → Setup → Setup Workbench → Items →Item Attributes→ LTB	Planning Category Segment5 Flag to be derived from APC Item Attribute Setup.
9.2.4.37	Item Category	PLANNING CATEGORY SEGMENT6	VARCHAR 2	30	APC → Setup → Setup Workbench → Items →Item Attributes → Early Repair	Planning Category Segment6 Flag to be derived from APC Item Attribute Setup.
9.2.4.38	Item Category	PLANNING CATEGORY SEGMENT7	VARCHAR 2	30	APC → Setup → Setup Workbench → Items →Item Attributes → Harvest Active	Planning Category Segment7 Flag to be derived from APC Item Attribute Setup.
9.2.4.39	Item Category	PLANNING CATEGORY SEGMENT8	VARCHAR 2	30	APC → Setup → Setup Workbench → Items →Item Attributes → No Source	Planning Category Segment8 Flag to be derived from APC Item Attribute Setup.

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.2.4.40	Item Category	PLANNING CATEGORY SEGMENT9	VARCHAR2	30	APC → Setup → Setup Workbench → Items →Item Attributes → Software	Planning Category Segment9 Flag to be derived from APC Item Attribute Setup.
9.2.4.41	Item Category	PLANNING CATEGORY SEGMENT10	VARCHAR2	30	APC → Setup → Setup Workbench → Items →Item Attributes → Milestone	Planning Category Segment10 Flag to be derived from APC Item Attribute Setup.
9.2.4.42	Item Category	PLANNING CATEGORY SEGMENT11	VARCHAR2	30	APC → Setup → Setup Workbench → Items →Item Attributes → Milestone	Planning Category Segment11 Flag to be derived from APC Item Attribute Setup.
9.2.4.43	Item Category	PLANNING CATEGORY SEGMENT12	VARCHAR2	30	APC → Setup → Setup Workbench → Items →Item Attributes → Milestone	Planning Category Segment12 Flag to be derived from APC Item Attribute Setup.
9.2.4.44	Item Category	PLANNING CATEGORY SEGMENT13	VARCHAR2	30	APC → Setup → Setup Workbench → Items →Item Attributes → Milestone	Planning Category Segment13 Flag to be derived from APC Item Attribute Setup.
9.2.4.45	Item Category	PLANNING CATEGORY SEGMENT14	VARCHAR2	30	APC → Setup → Setup Workbench → Items →Item Attributes → Milestone	Planning Category Segment14 Flag to be derived from APC Item Attribute Setup.
9.2.4.46	Item Category	PLANNING CATEGORY SEGMENT15	VARCHAR2	30	APC → Setup → Setup Workbench → Items →Item Attributes → Milestone	Planning Category Segment15 Flag to be derived from APC Item Attribute Setup.
9.2.4.47	Item Master	LAST UPDATE DATE	DATE	NA	Inventory→Items→ Master Item→Help→Record History→Update Date	Last Updated Date of the item in format 'DD-MM-YYYY HH24:MI:SS'
9.2.4.48	Item Master	CREATION DATE	DATE	NA	Inventory→Items→ Master Item→Help→Record History→Creation Date	Creation Date of the item in format 'DD-MM-YYYY HH24:MI:SS'
9.2.4.49	Item Master	STOCK ENABLED FLAG	VARCHAR2	1	Inventory→Items→ Master Item→Inventory Tab→Stockable Flag	Stockable Flag of the item.

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.2.4.50	Item Master	HARMONIZATION CODE	VARCHAR2	240	Inventory→Items→ Master Item→DFF →Harmonization Code	Harmonization Code of the item (Attribute 6)
9.2.4.51	Item Master	PROPRIETARY CODE	VARCHAR2	240	Inventory→Items→ Master Item→DFF →Prop Code	Proprietary Code of the item (Attribute 1)
9.2.4.52	Item Master	REPAIR LEAD TIME	NUMBER	NA	Inventory→Items→ Master Item→MPS/MRP Planning Tab→Repair Lead-Time	Repair Lead Time
9.2.4.53	Item Master	VARIABLE LEAD TIME	NUMBER	NA	Inventory→Items→ Master Item→Lead Times Tab→Variable	Variable Lead Time
9.2.4.54	Item Master	FIXED LEAD TIME	NUMBER	NA	Inventory→Items→ Master Item→Lead Times Tab→Fixed	Fixed Lead Time
9.2.4.55	Item Master	PROCESSING LEAD TIME	NUMBER	NA	Inventory→Items→ Master Item→Lead Times Tab→Processing	Processing Lead Time
9.2.4.56	Item Master	PREPROCESSING LEAD TIME	NUMBER	NA	Inventory→Items→ Master Item→Lead Times Tab→Preprocessing	Preprocessing Lead Time
9.2.4.57	Item Master	POSTPROCESSING LEAD TIME	NUMBER	NA	Inventory→Items→ Master Item→Lead Times Tab→Postprocessing	Postprocessing Lead Time
9.2.4.58	Item Master	TARGET INVENTORY WINDOW	NUMBER	NA	Inventory→Items→ Master Item→MPS/MRP Planning Tab→Target Inventory	Target Inventory Window
9.2.4.59	Item Master	MAXIMUM INVENTORY WINDOW	NUMBER	NA	Inventory→Items→ Master Item→MPS/MRP Planning Tab→Maximum Inventory	Maximum Inventory Window

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.2.4.60	Item Master	DRP PLANNED FLAG	VARCHAR 2	3	Inventory→Items→ Master Item→MPS/MRP Planning Tab→Distribution Planned Flag	Distribution Planned Flag
9.2.4.61	Item Master	MRP PLAN METHOD	VARCHAR 2	80	Inventory→Items→ Master Item→MPS/MRP Planning Tab→Planning Method	MRP Planning Method
9.2.4.62	Item Master	INVENTORY PLAN METHOD	VARCHAR 2	80	Inventory→Items→ Master Item→General Planning Tab→Inventory Planning Method	Inventory Planning Method
9.2.4.63	Item Master	SOURCE POLE	VARCHAR 2	240	Inventory→Items→ Master Item→DFF →Source Pole	Source Pole for GPO Org where DFF Context = 'Global Parts Items'(Attribute 2)
9.2.4.64	Item Master	UN DETAILS	VARCHAR 2	266	Purchasing → UN Numbers→UN Number and Description	Concatenated fields of UN Number and Description separated in pipe delimited format
9.2.4.65	Item Master	PRIMARY UOM	VARCHAR 2	3	Inventory →Items→ Organization Items→Main tab→Unit of Measure→ Primary	Primary Unit of Measurement
9.2.4.66	Item Master	FORECASTABLE FLAG	NUMBER	NA	Inventory→Items→ Master Item→MPS/MRP Planning Tab→Forecast Control	Forecastable Flag
9.2.4.67	Item Master	PLANNER DESCRIPTION	VARCHAR 2	50	Inventory→Planning →Planners→Description	Planner Description
9.2.4.68	Item Master	ARC COST	NUMBER	NA	Inventory→Cost→Item Costs → Enter item Number and Cost Type as ARC→Find→Unit Cost	Average Repair Cost
9.2.4.69	Item Master	Planning_Master_Org	VARCHAR 2	3	Inventory →Items→ Organization	Part Master Org

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.2.4.70	Item Master	ADDITIONAL _INFO_1	DATE	NA	APC → Setup → Setup Workbench → Items →Item Attributes → NPI_M6_DATE	NPI_M6_DATE
9.2.4.71	Item Master	ADDITIONAL _INFO_2	DATE	NA	APC → Setup → Setup Workbench → Items →Item Attributes → SWAP_SETUP_DATE	SWAP_SETUP_DATE
9.2.4.72	Item Master	ADDITIONAL _INFO_3	DATE	NA	APC → Setup → Setup Workbench → Items →Item Attributes → TECH_OBSO_DATE	TECH_OBSO_DATE
9.2.4.73	Item Master	ADDITIONAL _INFO_4	DATE	NA	APC → Setup → Setup Workbench → Items →Item Attributes → FIN_OBSO_DATE	FIN_OBSO_DATE
9.2.4.74	Item Master	ADDITIONAL _INFO_5	DATE	NA	APC → Setup → Setup Workbench → Items →Item Attributes → LTB_DATE	LTB_DATE
9.2.4.75	Item Master	ADDITIONAL _INFO_6	DATE	NA	APC → Setup → Setup Workbench → Items →Item Attributes → EOSL_DATE	EOSL_DATE
9.2.4.76	Item Master	ADDITIONAL _INFO_7	DATE	NA	APC → Setup → Setup Workbench → Items →Item Attributes → M7a_DATE	M7a_DATE
9.2.4.77	Item Master	ADDITIONAL _INFO_8	DATE	NA	APC → Setup → Setup Workbench → Items →Item Attributes → M7b_DATE	M7b_DATE
9.2.4.78	Item Master	ADDITIONAL _INFO_9	DATE	NA	APC → Setup → Setup Workbench → Items →Item Attributes → M8a_DATE	M8a_DATE
9.2.4.79	Item Master	ADDITIONAL _INFO_10	DATE	NA	APC → Setup → Setup Workbench → Items →Item Attributes → M8b_DATE	M8b_DATE

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.2.4.80	Item Master	ADDITIONAL _INFO_11	DATE	NA	NA	NA
9.2.4.81	Item Master	ADDITIONAL _INFO_12	DATE	NA	NA	NA
9.2.4.82	Item Master	ADDITIONAL _INFO_13	DATE	NA	NA	NA
9.2.4.83	Item Master	ADDITIONAL _INFO_14	DATE	NA	NA	NA
9.2.4.84	Item Master	ADDITIONAL _INFO_15	DATE	NA	NA	NA
9.2.4.85	Item Master	ADDITIONAL _INFO_16	VARCHAR 2	500	Organization Item -> Physical Attributes -> Weight -> Unit Weight	Part Weight in Kilogram
9.2.4.86	Item Master	ADDITIONAL _INFO_17	VARCHAR 2	500	Parts that have category BINBULK assigned to them for category set GE_GPO_ITEM_STOC K_REGION	BIN BULK flag
9.2.4.87	Item Master	ADDITIONAL _INFO_18	VARCHAR 2	500	Value Sets -> GE_GPO_SPM_BUSIN ESS_MODALITY	Business Modality
9.2.4.88	Item Master	ADDITIONAL _INFO_19	VARCHAR 2	500	APC → Setup → Setup Workbench → Service Milestone Dates -> Use Onhands (column C_EXT_ATTR16 in table apps.ego_mtl_sy_ite ms_ext_b)	Use Onhands
9.2.4.89	Item Master	ADDITIONAL _INFO_20	VARCHAR 2	500	APC → Setup → Setup Workbench → Service Milestone Dates 1-> Block Procurement From (column D_EXT_ATTR1 in table apps.ego_mtl_sy_ite ms_ext_b)	Block Procurement From

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.2.4.90	Item Master	ADDITIONAL _INFO_21	VARCHAR 2	500	APC → Setup → Setup Workbench → Service Milestone Dates 2-> Block Procurement To (column D_EXT_ATTR2 in table apps.ego_mtl_sy_ite ms_ext_b)	Block Procurement To
9.2.4.91	Item Master	ADDITIONAL _INFO_22	VARCHAR 2	500	APC → Setup → Setup Workbench → Service Milestone Dates 1-> Block Repair From (column D_EXT_ATTR3 in table apps.ego_mtl_sy_ite ms_ext_b)	Block Repair From
9.2.4.92	Item Master	ADDITIONAL _INFO_23	VARCHAR 2	500	APC → Setup → Setup Workbench → Service Milestone Dates 1-> Block Repair To (column D_EXT_ATTR4 in table apps.ego_mtl_sy_ite ms_ext_b)	Block Repair To
9.2.4.93	Item Master	ADDITIONAL _INFO_24	VARCHAR 2	500	APC → Setup → Setup Workbench → Service Milestone Dates 1-> Quality Hold Date (column D_EXT_ATTR5 in table apps.ego_mtl_sy_ite ms_ext_b)	Quality Hold Date
9.2.4.94	Item Master	ADDITIONAL _INFO_25	VARCHAR 2	500	APC → Setup → Setup Workbench → Service Milestone Dates 1-> Phase In Date (column D_EXT_ATTR6 in table apps.ego_mtl_sy_ite ms_ext_b)	Phase In Date

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.2.4.95	Item Master	ADDITIONAL _INFO_26	VARCHAR 2	500	APC → Setup → Setup Workbench → Service Milestone Dates 1-> C2R Date (column D_EXT_ATTR7 in table apps.ego_mtl_sy_ite ms_ext_b)	C2R Date
9.2.4.96	Item Master	ADDITIONAL _INFO_27	VARCHAR 2	500	APC → Setup → Setup Workbench → Service Milestone Dates 1-> R2C Date (column D_EXT_ATTR8 in table apps.ego_mtl_sy_ite ms_ext_b)	R2C Date
9.2.4.97	Item Master	ADDITIONAL _INFO_28	VARCHAR 2	500	Master Item -> Query item number -> Category assignment -> Value in the category set 'TECHNICAL NATURE'	Technical nature
9.2.4.98	Item Master	ADDITIONAL _INFO_29	VARCHAR 2	500	NA	NA
9.2.4.99	Item Master	ADDITIONAL _INFO_30	VARCHAR 2	500	NA	NA
9.2.4.100	Item Master	ADDITIONAL _INFO_31	VARCHAR 2	500	NA	NA
9.2.4.101	Item Master	ADDITIONAL _INFO_32	VARCHAR 2	500	NA	NA
9.2.4.102	Item Master	ADDITIONAL _INFO_33	VARCHAR 2	500	NA	NA
9.2.4.103	Item Master	ADDITIONAL _INFO_34	VARCHAR 2	500	NA	NA
9.2.4.104	Item Master	ADDITIONAL _INFO_35	VARCHAR 2	500	NA	NA
9.2.4.105	Item Master	ADDITIONAL _INFO_36	VARCHAR 2	500	NA	NA
9.2.4.106	Item Master	ADDITIONAL _INFO_37	VARCHAR 2	500	NA	NA
9.2.4.107	Item Master	ADDITIONAL _INFO_38	VARCHAR 2	500	NA	NA
9.2.4.108	Item Master	ADDITIONAL _INFO_39	VARCHAR 2	500	NA	NA
9.2.4.109	Item Master	ADDITIONAL _INFO_40	VARCHAR 2	500	NA	NA

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.2.4.110	Item Master	ADDITIONAL _INFO_41	VARCHAR 2	500	NA	NA
9.2.4.111	Item Master	ADDITIONAL _INFO_42	VARCHAR 2	500	NA	NA
9.2.4.112	Item Master	ADDITIONAL _INFO_43	VARCHAR 2	500	NA	NA
9.2.4.113	Item Master	ADDITIONAL _INFO_44	VARCHAR 2	500	NA	NA
9.2.4.114	Item Master	ADDITIONAL _INFO_45	VARCHAR 2	500	NA	NA

9.2.5. Process Flow

Reference	Requirement
9.2.5.1	Make an entry into the GEMS_IFACE_PROCESS_TABLE with interface run time and derive the last run time of the program if program is submitted with frequency parameter 'DAILY', 'WEEKLY', 'SPECIAL'
9.2.5.2	Extract the part attribute information from the GPO item master org for all parts that are created or updated after the last run time derived in step 9.2.5.1. Any items in GPO org where a new category is assigned or updated from the category set GE_GPO_SPM_PLN_DETAILS after the last run time of program should also be included in extract.
9.2.5.3	The extracted data is inserted into the table – GEHC_SVC_SPM_PART_MASTER_FEEDS
9.2.5.4	A New Responsibility **GEHC APC Service Attribute Maintenance** will be created to update the Part attributes in APC manually or through bulk upload.

9.2.6. Business Rules

Reference	Business Entity	Rule
9.2.6.1	Data Population	Add a record in the GEMS_IFACE_PROCESS_TABLE table with: INTERFACE_NAME: GLPROD_TO_SPM_DATA_FEED PROGRAM_NAME: WEEKLY_SPM_PART_MASTER START_DATE: sysdate STATUS_FLAG: 'I'
9.2.6.2	Organization	Select the part attributes information from Part Master defined in the DFF of value set 'GEHC_SVC_SPM_ENABLED_WAREHOUSE'
9.2.6.3	Item Cost	Derive the cost as trp_cur_mmicv of first record from apps.gems_tran_price_tb table after sorting all the records in descending order of trp_cur_mmicv for the part.
9.2.6.4	Item Cost	Derive the Average Repair Cost (ARC) for all the items from U00. The screenshot of the same is added in Appendix.
9.2.6.5	Planning Item Category	Category set GE_GPO_SPM_PLN_DETAILS to be included to derive the planning item category.

Reference	Business Entity	Rule
9.2.6.6	Auto Release exclusion flag	Items to be excluded from Auto release belongs to the category structure- GEHC_GPO_EXCLUDE_AUTOREL.
9.2.6.7	Hold Sources	'GEHC Manual Backlog' is a hold that is applied for specific items sourced from M02.This hold information needs to be captured for all such items and feed into Planning Tool. The screenshot of the same is added in Appendix.
9.2.6.8	Hold Sources	'GPRS Domestic Only Part Hold' is a hold which is applied to certain parts sourced from A38 and this information must be fed to the planning tool. The screenshot of the same is added in Appendix.
9.2.6.9	Hold Sources	'GPRS Export Only Part Hold' is a hold which is applied to certain parts sourced from A38 and this information must be fed to the planning tool. The screenshot of the same is added in Appendix.
9.2.6.10	Item Shelf Life	1. Get the Item modality from item master DFF segment Modality (attribute3 of MTL_SYSTEM_ITEMS_B). 2. Find the modality derived above in value set GE_GPO_SPM_BUSINESS_MODALITY and get the organization code from DFF segment DC (attribute2 of FND_FLEX_VALUES table) against this value. 3. Derive the item shelf life for the item from the organization derived above.
9.2.6.11	Data Purging	Before loading any set of new data into the staging table – GEHC_SVC_SPM_PART_MASTER_FEEDS, purge all the records from this table.
9.2.6.12	Data Extraction	If the Program is submitted with Parameter 'Daily' : The Item master extract will take all items whose last update date is greater than or equal to the last successful extract start time fetched from the table GEMS_IFACE_PROCESS_TABLE (serves as input to the date filter condition to the part master query) for DAILY run If the Program is submitted with Parameter 'Weekly' : The entire data-set of part information is extracted without consideration of any date range. If the Program is submitted with Parameter 'Special' : a) If the START DATE and END DATE parameter to the concurrent program is Null, then the part information would be extracted for the entire data-set without consideration of any date range b) If the START DATE and END DATE parameters are not null, then the data extraction is carried out where last update date is within these date intervals.

Reference	Business Entity	Rule
		The extracted data is stored in the table-GEHC_SVC_SPM_PART_MASTER_FEEDS
9.2.6.13	Data Population	For successful completion: Update the GEMS_IFACE_PROCESS_TABLE table with the completion date and time of this execution of the function and status as 'C'. For failure: Update the GEMS_IFACE_PROCESS_TABLE table with the completion date and time of this execution of the function, status as 'E' and the error reason in the Message field.
9.2.6.14	Data Extraction	Extract the part weight in ADDITIONAL_INFO_16 field of table GEHC_SVC_SPM_PART_MASTER_FEEDS, from the Unit weight column under block Weight in Physical attributes tab of organization items form for the part in 'GPO' organization. This weight should be in Kilogram. If Part weight is not in kilogram then use UOM conversion to convert the weight in kilogram. If part weight can't be derived in Kilogram due to missing UOM or UOM conversion, then this filed will be left blank
9.2.6.15	Data Extraction	Extract the Bin Bulk flag in ADDITIONAL_INFO_17 field of table GEHC_SVC_SPM_PART_MASTER_FEEDS, from the category set GE_GPO_ITEM_STOCK_REGION. If the part is assigned to category set GE_GPO_ITEM_STOCK_REGION in 'GPO' organization and the assigned category value is 'BINBULK' then populate 'BINBULK' in this field.
9.2.6.16	Data Extraction	Extract the business corresponding to a modality in ADDITIONAL_INFO_18 field of table GEHC_SVC_SPM_PART_MASTER_FEEDS, from the value set GE_GPO_SPM_BUSINESS_MODALITY. Business is stored in the DFF segment Business corresponding the modality value. If the business corresponding to a modality for a part is not assigned in the valueset GE_GPO_SPM_BUSINESS_MODALITY, the value will be extracted as NULL
9.2.6.16	Planning Item Category	Category set GE_GPO_SPM_PLN_DETAILS to be excluded to derive the planning item category and planning category segments to be derived from APC only.

9.2.7. Translations/Transformations (Interfaces Only)

There will be no transformation/translation of data at oracle end. The data extracted will be captured by MW and stored in the AWS DB for any further processing into SPM cloud.

9.2.8. Initiation

The function will be part of a concurrent program with frequency as the parameter. The parameter 'Frequency' can have any one value of DAILY or WEEKLY or SPECIAL.

The concurrent program will also have an optional parameter 'START DATE' and 'END DATE' to enable the data to be fetched between a particular date interval.

9.2.9. Error Handling, Reprocessing / Rollback & Error Messaging

None

▉ Function: Part Demand Data

9.3.1. Approach / Description

Extract demand information from all organizations defined in the value set: GEHC_SVC_SPM_ENABLED_WAREHOUSE. Whenever the function is invoked, a respective entry, highlighting the interface name, Is created in custom table – GEMS_IFACE_PROCESS_TABLE to allow easy debugging in case of any issue.

Before extraction of data, the custom table where the extracts are stored for the previous run are purged completely for the corresponding interface name and are loaded with a new set of data by using the last extract start date/time as input for the next set of extraction or between a specific date intervals passed as input to the concurrent program.

The new set of data extracted will be appended to the previous set stored in the AWS layer making it an incremental type of extract.

9.3.2. Inputs

All order types with below criteria will be considered for extraction on an incremental basis since the last run of the program

1. A) Order type DFF attribute 'use for autorelease' is set to Yes (attribute10 of oe_transaction_Types_all is 'Y' where context is 'Service OM') or
   B) Order type in value set- GE_GPRS_SPM_SO_DEMAND with Context as 'GE_GPRS_SPM_SO_DEMAND' and DFF Segment 'Scope' as 'INCLUDE'.

2. Order header or line warehouse is in the value set 'GEHC_SVC_SPM_ENABLED_WAREHOUSE'

9.3.3. Outputs

At the start and end of this program, the corresponding entries must be made into the GEMS_IFACE_PROCESS_TABLE specifying the date and time for interface name: ORACLE_TO_SPM_DAILY and program name: PARTS_DEMAND_SO. The extracted records are stored into the table- GEHC_SVC_SPM_PART_DEMAND_FEEDS

9.3.4. Data Entity

The data entities of the Demand Information extract and table (GEHC_SVC_SPM_PART_DEMAND_FEEDS) columns are:

GE Healthcare	**GE Healthcare ERP Integration**	Effective Date: When Released in MyWorkshop
Information Management	**MD60 Functional Design –SPM to Oracle Newbuy Recommendation**	Revision 26.0

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.3.4.1	Data Type	DATA TYPE	VARCHAR2	20	Constant	PART_DEMAND
9.3.4.2	Data Frequency	DATA FREQUENCY	VARCHAR2	10	NA	DAILY – as passed in the concurrent program parameter. SPECIAL- when the extract runs for a specified date interval passed as parameter to the concurrent program
9.3.4.3	SALES ORDER HEADER	ORDER NUMBER	NUMBER	NA	Orders,Returns → Sales orders→Order Information→Main→ Order number	Order Number
9.3.4.4	SALES ORDER HEADER	HEADER ID	NUMBER	NA	Fetched from order headers base table	Header ID of the Order Number
9.3.4.5	SALES ORDER LINE	LINE ID	NUMBER	NA	Fetched from order lines base table	Line ID of the Order Number
9.3.4.6	SALES ORDER	OPERATING UNIT	VARCHAR2	240	Fetched from order headers base table	Operating Unit Name for the Order
9.3.4.7	CUSTOMER	CUSTOMER NUMBER	VARCHAR2	30	Customers→Standard →Account Number	Customer Number in Order
9.3.4.8	CUSTOMER	CUSTOMER NAME	VARCHAR2	360	Customers→Standard → Customer	Customer Name in Order
9.3.4.9	CUSTOMER	CUSTOMER CATEGORY	VARCHAR2	30	Customers→Standard → Customer→Customer Account→ Profile→Customer Category	Customer Category in Order
9.3.4.10	CUSTOMER	FE SSO	NUMBER	NA	Customers→Standard → Customer→Customer Account→ Profile→Duns Number	DUNS Number of FE
9.3.4.11	SALES ORDER	ORDER TYPE NAME	VARCHAR2	30	Orders, Returns → Sales orders→Order Information→Main→ Order Type	Order Type Name of Order
9.3.4.12	SALES ORDER TYPE	ORDER TYPE	VARCHAR2	30	Setup → Transaction Types →Define → Transaction Type Code	Order Type of Order

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.3.4.13	SALES ORDER TYPE	ORDER TYPE CATEGORY	VARCHAR2	30	Order Management→Setup → Transaction Types →Define →Query Order Type → Order Category	Category of Order type
9.3.4.14	SALES ORDER LINE	ORDER_LINE STATUS	VARCHAR2	30	Orders,Returns → Sales orders→Line Items→Main→Status	Line Status of Order
9.3.4.15	SALES ORDER HEADER	HEADER ORDER SOURCE	VARCHAR2	240	Orders,Returns → Sales orders→Order Information→Others →Order Source	Order Source whether its DCOS/FEMC from Order Header
9.3.4.16	SALES ORDER HEADER	HEADER ORDER STATUS	VARCHAR2	30	Orders,Returns → Sales orders→Order Information→Main→Status	Order Status in Header
9.3.4.17	SALES ORDER LINE	LINE ORDER SOURCE	VARCHAR2	240	Orders,Returns → Sales orders→Order Information→Line Items →Main tab→Order Source	Order Source whether its DCOS/FEMC from Order Line
9.3.4.18	SALES ORDER HEADER	RFS	VARCHAR2	50	Orders,Returns → Sales orders→Order Information→Main→ Customer PO	Customer PO number
9.3.4.19	SALES ORDER LINE	LINE NUMBER	VARCHAR2	81	Orders,Returns → Sales orders→Line Items→Main→Line	Sales Order Line Number
9.3.4.20	SALES ORDER LINE	ORDERED ITEM	VARCHAR2	2000	Orders,Returns → Sales orders→Line Items→Main→Ordered Item	Sales Order Ordered Item
9.3.4.21	SALES ORDER QUANTITY	ORDERED QUANITY	NUMBER	NA	Orders,Returns → Sales orders→Line Items→Main→Quantity	Ordered Quantity
9.3.4.22	SALES ORDER QUANTITY	SHIPPED QUANTITY	NUMBER	NA	Orders,Returns → Sales orders→Line Items→Shipping→Shipped Quantity	Quantity Shipped
9.3.4.23	SALES ORDER QUANTITY	RESERVED QUANTITY	NUMBER	NA	Orders,Returns → Sales orders→Line Items→Shipping→Quantity Reserved	Quantity Reserved
9.3.4.24	SALES ORDER LINE	UOM	VARCHAR2	3	Orders,Returns → Sales orders→Line Items→Main→UOM	Unit of Measurement of Item

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.3.4.25	ORGA NIZATI ON	SHIP FROM	VARCHAR 2	3	Orders,Returns → Sales orders→Line Items→Shipping→Wa rehouse	Ship From Organization Code
9.3.4.26	SALES ORDER LINE	REQUEST DATE	DATE	NA	Orders,Returns → Sales orders→Line Items→Shipping→Re quest Date	Order Request Date in format 'DD-MM-YYYY HH24:MI:SS'
9.3.4.27	SALES ORDER LINE	PROMISE DATE	DATE	NA	Orders,Returns → Sales orders→Line Items→Shipping→Pro mise Date	Order Promised Date in format 'DD-MM-YYYY HH24:MI:SS'
9.3.4.28	SALES ORDER LINE	SCHEDULED SHIP DATE	DATE	NA	Orders,Returns → Sales orders→Line Items→Shipping→Sch edule Ship Date	For Shipped order line Actual Shipment Date for orders that are yet to to be shipped, Scheduled Ship Date in format 'DD-MM-YYYY HH24:MI:SS'
9.3.4.29	SALES ORDER HEADE R	SHIPMENT PRIORITY	VARCHAR 2	30	Orders,Returns → Sales orders→Order Information→Others →Shipment Priority	Shipment Priority
9.3.4.30	APPLI CATIO N DEVEL OPER	SHIP METHOD	VARCHAR 2	80	Application Developer→Applicatio n→Lookups→Select Type as SHIP_METHOD→Mean ing	Ship Method in Order
9.3.4.31	APPLI CATIO N DEVEL OPER	SHIP METHOD PRIORITY	VARCHAR 2	150	Application Developer→Applicatio n→Lookups→ Select Type as SHIP_METHOD→Com mon Lookups DFF→UPS Service Level	Ship Method Priority in Order
9.3.4.32	SALES ORDER HEADE R	SHIPPING INSTRUCTIO NS	VARCHAR 2	2000	Orders,Returns → Sales orders→Order Information→Others →Shipping Instructions	Shipping Instructions in Order
9.3.4.33	SALES ORDER HEADE R	PACKING INSTRUCTIO NS	VARCHAR 2	2000	Orders,Returns → Sales orders→Order Information→Others →Packing Instructions	Packing Instructions in Order

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.3.4.34	SALES ORDER HEADER	HEADER Autorelease Enabled Flag	VARCHAR2	240	Order Management→Setup→Transaction Types→Define→Query Order Type→DFF→Use For Autorelease	Denotes the Order which has been Autoreleased in Sales Order Header(Attribute 10)
9.3.4.35	SALES ORDER HEADER	HEADER DCOS Enabled Flag	VARCHAR2	240	Order Management→Setup→Transaction Types→Define→Query Order Header Type→DFF→DCOS Order	Denotes the DCOS Orders which has been autoreleased in Sales Order Header(Attribute 9)
9.3.4.36	SALES ORDER LINE	LINE AUTORELEASE ENABLED FLAG	VARCHAR2	240	Order Management→Setup→Transaction Types→Define→Query Order Line Type→DFF→Use For Autorelease	Denotes the Order which has been Autoreleased in Sales Order Line(Attribute 10)
9.3.4.37	SALES ORDER LINE	LINE DCOS ENABLED FLAG	VARCHAR2	240	Order Management→Setup→Transaction Types→Define→Query Order Line Type→DFF→DCOS Order	Denotes the DCOS Orders which has been autoreleased in Sales Order Line(Attribute 9)
9.3.4.38	SALES ORDER HEADER	HEADER CREATION DATE	DATE	NA	Fetched from Order Record History	Order Header Creation Date in format 'DD-MM-YYYY HH24:MI:SS'
9.3.4.39	SALES ORDER HEADER	HEADER CREATED BY	VARCHAR2	100	Fetched from Order Record History	Order Header Created By
9.3.4.40	SALES ORDER HEADER	HEADER UPDATION DATE	DATE	NA	Fetched from Order Record History	Order Header Updation Date in format 'DD-MM-YYYY HH24:MI:SS'
9.3.4.41	SALES ORDER HEADER	HEADER LAST UPDATED BY	VARCHAR2	100	Fetched from Order Record History	Order Header Last Updated By User
9.3.4.42	SALES ORDER LINE	LINE CREATION DATE	DATE	NA	Fetched from Order Record History	Order Line Creation Date in format 'DD-MM-YYYY HH24:MI:SS'
9.3.4.43	SALES ORDER LINE	LINE CREATED BY	VARCHAR2	100	Fetched from Order Record History	Order Line Created By
9.3.4.44	SALES ORDER LINE	LINE UPDATION DATE	DATE	NA	Fetched from Order Record History	Order Line Updation Date in format 'DD-MM-YYYY HH24:MI:SS'

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.3.4.45	SALES ORDER LINE	LINE LAST UPDATED BY	VARCHAR 2	100	Fetched from Order Record History	Order Line Last Updated By User
9.3.4.46	SALES ORDER LINE	CUSTOMER JOB	VARCHAR 2	50	Orders,Returns → Sales orders→Line Items→Others→Customer Job	Customer job associated with the order
9.3.4.47	SALES ORDER LINE	SYSTEM ID	VARCHAR 2	50	Orders,Returns → Sales orders→Line Items→Others→Customer Dock Code	System id passed from the CRM systems
9.3.4.48	SALES ORDER LINE	CUSTOMER PRODUCTION LINE	VARCHAR 2	50	Sales Validation Organization	Sales Validation Organization
9.3.4.49	SALES ORDER LINE	MODEL SERIAL NUMBER	VARCHAR 2	50	Orders,Returns → Sales orders→Line Items→Others→Model Serial Number	Customer Model serial number attached with the product
9.3.4.50	SALES ORDER LINE	SOURCED TYPE	VARCHAR 2	13	Orders,Returns → Sales orders→Line Items→Lines DFF→Source Type	Sourced from type, 1-Transfer from, 3- Buy from (Attribute 13)
9.3.4.51	SALES ORDER LINE	SOURCED FROM	VARCHAR 2	240	Orders,Returns → Sales orders→Line Items→Lines DFF→GPO Line Fulfillment Source	Sourced from Organization Id(Attribute 8)
9.3.4.52	SALES ORDER LINE	LINE TYPE	VARCHAR 2	30	Orders,Returns → Sales orders→Line Items→Mains→Line Type	Line type of the order
9.3.4.53	SALES ORDER LINE	LINE TYPE CATEGORY	VARCHAR 2	30	Order Management→Setup → Transaction Types →Define →Query Line Type → Order Category	Line type category of the order
9.3.4.54	SALES ORDER LINE	HOLD NAME	VARCHAR 2	240	Orders,Returns → Sales orders→Line Items→Additional Line Information →Holds Name	Hold Name
9.3.4.55	HOLD INFO	HOLD TYPE	VARCHAR 2	30	Setup → Orders → Holds → type	Type of Hold

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.3.4.56	HOLD INFO	HOLD DATE	DATE	NA	Orders,Returns → Sales orders→Line Items→Additional Line Information → Applied Date	Date when Hold was applied in format 'DD-MM-YYYY HH24:MI:SS'
9.3.4.57	CUSTO MER	LCT	VARCHAR 2	20	Customers→Standard → Customer name→ Accounts -> Account Details→ DFF→ GPO FE LOCATOR	Fetch the FE Warehouse, FE Service Organization and FE Subinventory code concatenated with dash separator. Example: U00-SUS-LCT001.For Non FE Customers, this field will be blank
9.3.4.58	CUSTO MER	FE COUNTRY	VARCHAR 2	60	Customers→Standard → Customer name→ Accounts -> details → sites →Bill To Address → Country	FE Country
9.3.4.59	CUSTO MER	CUSTOMER CLASS CODE	VARCHAR 2	30	Customers→Standard → Customer	Customer Class Code
9.3.4.60	SALES ORDER	ATTRIBUTE1	VARCHAR 2	240	Orders,Returns → Sales orders→HeaderDFF→ Invoice Notes/Order Comments	Invoice Notes/Order Comments (Attribute 1)
9.3.4.61	SALES ORDER	ATTRIBUTE1 2	VARCHAR 2	240	Orders,Returns → Sales orders→HeaderDFF→ Address Line1	Address Line 1(Attribute 12)
9.3.4.62	SALES ORDER	ATTRIBUTE1 3	VARCHAR 2	240	Orders,Returns → Sales orders→HeaderDFF→ Address Line2	Address Line 2(Attribute 13)
9.3.4.63	SALES ORDER	ATTRIBUTE1 0	VARCHAR 2	240	Orders,Returns → Sales orders→LineDFF→Or der Line Description/Comment s	Order Line Description/Comments(A ttribute 10)
9.3.4.64	SALES ORDER LINE	PLANNING PRIORITY	NUMBER	NA	Orders,Returns → Sales orders→Line Items→Shipping Tab→Planning Priority	Planning Priority
9.3.4.65	SALES ORDER HEADE R	FE WAREHOUSE	VARCHAR 2	3	FE Warehouse from Customer Setup	FE Warehouse

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.3.4.66	SALES ORDER	ADDITIONAL _INFO_1	VARCHAR 2	500	Orders,Returns --> Sales orders-->Others→Order Source Reference	Order Source Reference
9.3.4.67	SALES ORDER	ADDITIONAL _INFO_2	VARCHAR 2	500	Check for the order type as an enabled value in value set 'GE_GPRS_SPM_SO_DE MAND' and take the description listed against that value.	Order Type Classification
9.3.4.68	SALES ORDER	ADDITIONAL _INFO_3	VARCHAR 2	500	Default warehouse	Warehouse associated with the order type of the order
9.3.4.69	SALES ORDER	ADDITIONAL _INFO_4	VARCHAR 2	500	Related Customer rank from Customer Account relationship	Primary PUDO location and DUNS Number concatenated by pipe delimiter
9.3.4.70	SALES ORDER	ADDITIONAL _INFO_5	VARCHAR 2	500	Orders,Returns --> Sales orders-->Others→Warehouse	Default FE Warehouse
9.3.4.71	SALES ORDER	ADDITIONAL _INFO_6	VARCHAR 2	500	NA	SR Type
9.3.4.72	SALES ORDER	ADDITIONAL _INFO_7	VARCHAR 2	500	OM Super User -> Transaction Types -> Define -> Additional Order Type Information -> Use For Autorelease	Order type is enabled for Auto release or not
9.3.4.73	SALES ORDER	ADDITIONAL _INFO_8	VARCHAR 2	500	OM Super User -> Shipping -> Transactions -> Lines/LPNs -> Line Status	Delivery detail status code
9.3.4.74	SALES ORDER	ADDITIONAL _INFO_9	VARCHAR 2	500	Inventory Super User -> GEMS GPO CrossReference From -> Time details -> Auto Rel	Auto release is enabled for the warehouse and part type combination or not
9.3.4.75	SALES ORDER	ADDITIONAL _INFO_10	VARCHAR 2	500	NA	NA

9.3.5. Process Flow

Reference	Requirement
9.3.5.1	Make an entry into the GEMS_IFACE_PROCESS_TABLE with interface run time.
9.3.5.2	Purge all the records in the Parts demand staging table and reload it with new set of data.

Reference	Requirement
9.3.5.3	Extract the different order information's coming from various sources based on below criteria 1. A) Order type DFF attribute 'use for autorelease' is set to Yes (attribute10 of oe_transaction_Types_all is 'Y' where context is 'Service OM') or B) Order type in value set- GE_GPRS_SPM_SO_DEMAND with Context as 'GE_GPRS_SPM_SO_DEMAND' and DFF Segment 'Scope' as 'INCLUDE' (attribute1). 2. Order header or line warehouse is in the value set 'GEHC_SVC_SPM_ENABLED_WAREHOUSE' 3. Orders with order type in value set- GE_GPRS_SPM_SO_DEMAND with Context as 'GE_GPRS_SPM_SO_DEMAND' and DFF Segment 'Scope' as 'EXCLUDE' (attribute1) should be excluded from the extract
9.3.5.4	Also, extract those orders that are created against an IR (link of SO to IR can be derived from GEMS_DS_LINES_ALL table) where combination of the source organization and destination organization (e.g., U00-RDC) is in the value set GE_GPO_REPAIR_CENTER_DEMAND and IR header DFF should not be in the value set 'GEMS_GPO_ORDER_CLASSIFICATION' with VALUE_CATEGORY and ATTRIBUTE1 set as 'GEMS_GPO_ORDER_CLASSIFICATION 'and 'EXCLUDE' respectively.
9.3.5.5	Data extraction is done starting from the last successful extract start time of this function or between the specific date intervals passed as input to the concurrent programs. All sales order with criteria mentioned in section 9.3.5.3 should be extracted if any of below table has been updated in the timeframe mentioned above: 1. Order lines table (OE_ORDER_LINES_ALL) 2. Reservations table (MTL_RESERVATIONS) 3. Delivery details table (WSH_DELIVERY_DETAILS)
9.3.5.6	The extracted data is inserted into the table - GEHC_SVC_SPM_PART_DEMAND_FEEDS

9.3.6. Business Rules

Reference	Business Entity	Rule
9.3.6.1	Data Population	Add a record in the GEMS_IFACE_PROCESS_TABLE table with: INTERFACE_NAME: GLPROD_TO_SPM_DATA_FEED PROGRAM_NAME: DAILY_SPM_PART_DEMAND START_DATE: sysdate STATUS_FLAG: 'I'
9.3.6.2	Order types	Extract all orders Order type DFF attribute 'use for autorelease' is set to Yes (attribute10 of oe_transaction_Types_all is 'Y' where context is

Refere nce	Business Entity	Rule
		'Service OM') or Order type in value set- GE_GPRS_SPM_SO_DEMAND with Context as 'GE_GPRS_SPM_SO_DEMAND' and DFF Segment 'Scope' (attribute1) as 'INCLUDE'. Exclude all orders from the extract where order type in value set- GE_GPRS_SPM_SO_DEMAND with Context as 'GE_GPRS_SPM_SO_DEMAND' and DFF Segment 'Scope' (attribute1) as 'EXCLUDE'.
9.3.6.3	Sales Order	Select all order information as mentioned in 9.3.4 for the order types as mentioned in 9.3.6.2

9.3.6.4	Type of Order	Type of Order will be determined based on below logic
		If Order type name is like '%FE%SHIPMENT%' then
		'FE'
		If Order type name is like '%REPAIR%SHIPMENT%' or '%DEFECTIVE%' then
		'Defective_Orders'
		Else
		'DLR_DCOS'

9.3.6.5	UOM	The Unit of Measurement (UOM) extracted here is the primary UOM of the item.
9.3.6.6	Data Purging	Before loading any set of new data into the staging table - GEHC_SVC_SPM_PART_DEMAND_FEEDS, purge all the records from the previous run of this table.
9.3.6.7	Data extractio n	If the START DATE and END DATE the parameter to the concurrent program is Null, The Parts Demand extract will fetch all relevant records for which the last update date on order lines is greater than or equal to the last successful extract start time fetched from the table - GEMS_IFACE_PROCESS_TABLE (serves as input to the date filter condition of the extract query) If the START DATE and END DATE parameters are not null, then the data extraction is carried out where last update date is within these date intervals. The extracted data is stored in the table- GEHC_SVC_SPM_PART_DEMAND_FEED. Sales order information should be extracted if any of below table has been updated in the timeframe mentioned above: 1. Order lines table (OE_ORDER_LINES_ALL) 2. Reservations table (MTL_RESERVATIONS) 3. Delivery details table (WSH_DELIVERY_DETAILS)
9.3.6.8	Data Populatio n	For successful completion: Update the GEMS_IFACE_PROCESS_TABLE table with the completion date and time of this execution of the function and status as 'C'. For failure: Update the GEMS_IFACE_PROCESS_TABLE table with the completion date and time of this execution of the function, status as 'E' and the error reason in the Message field.

Reference	Business Entity	Rule
9.3.6.9	Data Extraction	ADDITIONAL_INFO_3 (Default warehouse) can be derived as the warehouse mentioned in the order type setup of the order
9.3.6.10	Data Extraction	ADDITIONAL_INFO_4 (Primary PUDO location) can be derived from the Customer account relationship for an FE customer (category code from hz_parties table is 'GPO_FE_CUSTOMER') where related customer is the PUDO Customer (customer class code in 'GPO_PUDO_WAREHOUSE','GPO_PUDO_SSL''GPO_PUDO_CUSTOMER','GPO_PUDO_TRANSIT') having the least value in field 'Related Customer Rank'. (In case of multiple records fetched for PUDO customers with no/same rank assigned, need to choose any one value using rownum 1). For the given related PUDO customer, derive the locator assigned. Locator information for a PUDO is maintained at the attribute9 of hz_cust_accounts table. Populate this location in ADDITIONAL_INFO_4 column. FE to PUDO Customer mapping is shown in Appendix.
9.3.6.11	Data Extraction	Derive FE warehouse from FE customer setup using below logic Using the sold_to_org_id column of order headers table derive the warehouse of the customer from hz_cust_accounts table (sold_to_org_id field of order headers table is the cust account id of the hz_cust_accounts table) Populate the organization code derived above into FE_WAREHOUSE column of GEHC_SVC_SPM_PART_DEMAND_FEED table.
9.3.6.12	Data Extraction	Derive default FE warehouse from order header warehouse. Populate this information into ADDITIONAL_INFO_5 column of GEHC_SVC_SPM_PART_DEMAND_FEED table.
9.3.6.13	Data Extraction	Extract those orders that are created against an IR (link of SO to IR can be derived from GEMS_DS_LINES_ALL table) where combination of the source organization and destination organization (e.g., U00-RDC) is in the value set GE_GPO_REPAIR_CENTER_DEMAND and IR header DFF should not be in the value set 'GEMS_GPO_ORDER_CLASSIFICATION' with VALUE_CATEGORY and ATTRIBUTE1 set as 'GEMS_GPO_ORDER_CLASSIFICATION 'and 'EXCLUDE' respectively.
9.3.6.14	Data Extraction	Truncate table ge_gpo_demand_history
9.3.6.15	Data Extraction	Extract Country, Ordered Item, prime item of ordered item, Sum (ordered quantity). Select Sales orders lines based on below criteria 1. Line category code= 'ORDER' 2. Shippable_flag in Order lines table = 'Y' 3. Sales order line status not in value set GE_GPO_DEMAND_EXCLUDED_SO_LINE_STATUS 4. Order type DFF attribute 'use for autorelease' is set to Yes (attribute10 of oe_transaction_Types_all is 'Y' where context is 'Service OM') OR Order type in value set-GE_GPRS_SPM_SO_DEMAND with Context as 'GE_GPRS_SPM_SO_DEMAND' and DFF Segment GPO Demand (attribute2) as 'Yes'.

Refere nce	Business Entity	Rule
		5. Order type in value set- GE_GPRS_SPM_SO_DEMAND with Context as 'GE_GPRS_SPM_SO_DEMAND' and DFF Segment GPO Demand (attribute2) as 'Blank or No'.
		6. Sales order line last updated in last 365 days
		7. Line is shipped from PARTS Org and not present in value set GEMS_GPO_EXCLUDED_ORGS
		8. Exclude orig_sys_document_ref LIKE 'GPOU%' OR 'GPO_GELS%' OR 'GPO_FLS%'
9.3.6.1 6	Data Extractio n	Insert data into ge_gpo_demand_history
9.3.6.1 7	Data Extractio n	SR Type Case type from custom table gems_ont_ord_create_hdr_stg corresponding to the order (Staging table record can be cross referenced using the Order number and operating unit)
9.3.6.1 8	Data Extractio n	Sales Validation Org If a value is set for the customer system parameter 'GE_DEFAULT_SHIPPING_VAL_ORG' in the OE system parameters (table oe_sys_parameters_all) for the order operating unit and the order line type exists in the value set 'GE_GPO_DEFAULT_LIN_TRX_TYPE_PV' as an active value, then Default shipping organization from Item master where item number is the item number on order line and organization is the value in the custom system parameter 'GE_DEFAULT_SHIPPING_VAL_ORG' in the OE system parameters (table oe_sys_parameters_all). If the above condition is not met then Sales Validation organization will be the order header warehouse.

9.3.7. Translations/Transformations (Interfaces Only)

There will be no transformation/translation of data at oracle end. The data extracted will be captured by MW and stored in the AWS DB for further processing to SPM.

9.3.8. Initiation

The function will be part of a concurrent program with frequency as the parameter. It will be scheduled to run daily once. The parameter 'Frequency' can have any one value of DAILY or SPECIAL.
The concurrent program will also have an optional parameter 'START DATE' and 'END DATE' to enable the data to be fetched between a particular date interval.

9.3.9. Error Handling, Reprocessing / Rollback & Error Messaging

None

Function: Part Source Data

9.4.1.   Approach / Description

Extract the suppliers – External/Internal, Repair details along with shipping network between warehouses to allow computation of lead times and make it available to the planning system. Whenever the function is invoked, a respective entry, highlighting the interface name, is created in custom table - GEMS_IFACE_PROCESS_TABLE to allow easy debugging in case of any issue.

Before extraction of data, the custom table where the extracts are stored for the previous run are purged completely for the corresponding interface name and are loaded with a new set of data, making it a flush and fill type of extraction.

9.4.2.   Inputs

Assignment set data - All data required are given in 9.4.4

9.4.3. Outputs

At the start and end of this program, the corresponding entries must be made into the GEMS_IFACE_PROCESS_TABLE specifying the date and time for interface name: ORACLE_TO_SPM_DAILY and program name: PART_SOURCE. The extracted records are stored into the table- GEHC_SVC_SPM_PART_SOURCE_FEEDS.

9.4.4. Data Entity

The data elements for the Part Source Information are listed below for External, Internal, Repair Suppliers and Shipping Networks.

1. **External Suppliers** : The data entity of the Part Source Information extract for External Suppliers are :

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.4.4.1.1	Data Type	Data type	VARCHAR2	20	Constant	PART_SOURCE
9.4.4.1.2	Data Frequency	Data Frequency	VARCHAR2	10	NA	WEEKLY – as passed in the concurrent program parameter.
9.4.4.1.3	Supplier	Source Type	CHAR	17	Constant	Source Type is defined as EXTERNAL SUPPLIER
9.4.4.1.4	Assignment Set Lines	Organization Code	VARCHAR2	3	Supply base-->Assign Sourcing Rules-->Organization	Organization Code

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.4.4.1.5	Assignment Set Lines	Item	VARCHAR2	40	Supply base-->Assign Sourcing Rules-->Item/Category	Item Number.
9.4.4.1.6	Supplier	Supplier Number	VARCHAR2	30	Supply base-->Suppliers--> Supplier Number	Supplier Number.
9.4.4.1.7	Supplier	Supplier Name	VARCHAR2	240	Supply base-->Suppliers--> Supplier Name	Supplier Name.
9.4.4.1.8	Supplier	Supplier Site	VARCHAR2	45	Supply base-->Suppliers--> Update -> Site Name	Supplier Site.
9.4.4.1.9	Supplier	Alternate supplier Site	VARCHAR2	320	Supply base-->Suppliers-> Address Book -> Manage Sites -> Identification -> Alternate Site Name	Alternate Supplier Site.
9.4.4.1.10	Supplier	Supplier Country	VARCHAR2	75	Supply base-->Suppliers--> Update -> Address Book -> Country	Supplier Country.
9.4.4.1.11	Approved Supplier List	Minimum Order Quantity	NUMBER	NA	Approved Supplier List--> Item-->Attributes-->Inventory-->Minimum order quantity	Minimum Order Quantity.
9.4.4.1.12	Approved Supplier List	Fixed Lot Multiple	NUMBER	NA	Approved Supplier List--> Item-->Attributes-->Inventory-->Fixed Lot Multiple	Fixed Lot Multiple.
9.4.4.1.13	Sourcing Rule	Rank	NUMBER	NA	Sourcing Rule-->Name-->Shipping Organization-->Rank	Supplier Rank.
9.4.4.1.14	Approved Supplier List	Processing Lead Time	NUMBER	NA	Approved Supplier List--> Item-->Attributes-->Planning Constraints-->Fixed Lot Multiple	Lead times defined for a supplier.

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.4.4.1.15	Approved Supplier List	Allocation Percent	NUMBER	NA	Approved Supplier List--> Item-->Attributes-->Planning Constraints-->Allocation Percent	Allocation Percent.
9.4.4.1.16	Sourcing Rules	ADDITIONAL_INFO_1	VARCHAR2	500	Sourcing Rule	Sourcing Rule Name
9.4.4.1.17	Approved Supplier List	ADDITIONAL_INFO_2	VARCHAR2	500	Approved Supplier List--> Item-->Attributes-->Planning Constraints-->Capacity Per Day (For Active records)	Supplier Capacity
9.4.4.1.18	Supplier	ADDITIONAL_INFO_3	VARCHAR2	500	NA	NA
9.4.4.1.19	Supplier	ADDITIONAL_INFO_4	VARCHAR2	500	NA	NA
9.4.4.1.20	Supplier	ADDITIONAL_INFO_5	VARCHAR2	500	NA	NA
9.4.4.1.21	Supplier	ADDITIONAL_INFO_6	VARCHAR2	500	NA	NA
9.4.4.1.22	Supplier	ADDITIONAL_INFO_7	VARCHAR2	500	NA	NA
9.4.4.1.23	Supplier	ADDITIONAL_INFO_8	VARCHAR2	500	NA	NA
9.4.4.1.24	Supplier	ADDITIONAL_INFO_9	VARCHAR2	500	NA	NA
9.4.4.1.25	Supplier	ADDITIONAL_INFO_10	VARCHAR2	500	NA	NA

2. Internal Suppliers: The data entity of the Part Source Information extract for Internal Suppliers are:

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.4.4.2.1	Data Type	Data type	VARCHAR2	20	Constant	PART_SOURCE

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.4.4.2.2	Data Frequency	Data Frequency	VARCHAR2	10	NA	WEEKLY – as passed in the concurrent program parameter.
9.4.4.2.3	Supplier	Source Type	CHAR	17	Constant	Source Type is defined as INTERNAL SUPPLIER
9.4.4.2.4	Assignment Set Lines	Organization Code	VARCHAR2	3	Supply base-->Assign Sourcing Rules-->Organization	Organization Code
9.4.4.2.5	Assignment Set Lines	Item	VARCHAR2	40	Supply base-->Assign Sourcing Rules-->Item/Category	Item Number.
9.4.4.2.6	Supplier	Supplier Organization	VARCHAR2	3	Supply base-->Suppliers--> Update -> Organization	Supplier Organization.
9.4.4.2.7	Sourcing Rule Assignments	Preprocessing_lead_time	Number		Sourcing Rule Assignments -> DFF -> Pre Processing Lead Time	
9.4.4.2.8	Sourcing Rule Assignments	Processing_lead_time	Number		Sourcing Rule Assignments -> DFF -> Processing Lead Time	
9.4.4.2.9	Sourcing Rule Assignments	PostProcessing_lead_time	Number		Sourcing Rule Assignments -> DFF -> Processing Lead Time	
9.4.4.2.10	Sourcing Rules	ADDITIONAL_INFO_1	VARCHAR2	500	Sourcing Rule	Sourcing Rule Name
9.4.4.2.11	Approved Supplier List	ADDITIONAL_INFO_2	VARCHAR2	500	Approved Supplier List--> Item-->Attributes-->Planning Constraints-->Capacity Per Day (For Active records)	Supplier Capacity

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.4.4.2.12	Supplier	ADDITIONAL_INFO_3	VARCHAR2	500	NA	NA
9.4.4.2.13	Supplier	ADDITIONAL_INFO_4	VARCHAR2	500	NA	NA
9.4.4.2.14	Supplier	ADDITIONAL_INFO_5	VARCHAR2	500	NA	NA
9.4.4.2.15	Supplier	ADDITIONAL_INFO_6	VARCHAR2	500	NA	NA
9.4.4.2.16	Supplier	ADDITIONAL_INFO_7	VARCHAR2	500	NA	NA
9.4.4.2.17	Supplier	ADDITIONAL_INFO_8	VARCHAR2	500	NA	NA
9.4.4.2.18	Supplier	ADDITIONAL_INFO_9	VARCHAR2	500	NA	NA
9.4.4.2.19	Supplier	ADDITIONAL_INFO_10	VARCHAR2	500	NA	NA
9.4.4.2.20	Approved Supplier List	Minimum Order Quantity	NUMBER	NA	Approved Supplier List--> Item-->Attributes-->Inventory-->Minimum order quantity	Minimum Order Quantity.
9.4.4.2.21	Approved Supplier List	Fixed Lot Multiple	NUMBER	NA	Approved Supplier List--> Item-->Attributes-->Inventory-->Fixed Lot Multiple	Fixed Lot Multiple.

3. Repair Suppliers: The data entity of the Part Source Information extract for Repair Suppliers are :

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.4.4.3.1	Data Type	Data type	VARCHAR2	20	Constant	PART_SOURCE
9.4.4.3.2	Data Frequency	Data Frequency	VARCHAR2	10	NA	WEEKLY – as passed in the concurrent program parameter.
9.4.4.3.3	Supplier	Source Type	CHAR	17	Constant	Source Type is defined as REPAIR SUPPLIER
9.4.4.3.4	Defective Routing Definition	Organization Code	VARCHAR2	3	GPO Routing Definition Detail Form -->Organization	Organization Code from the routing view
9.4.4.3.5	Defective Routing Definition	Item	VARCHAR2	40	GPO Routing Definition Form -> Item	Item Number from the routing view
9.4.4.3.6	Supplier	Supplier Number	VARCHAR2	30	Supply base-->Suppliers--> Supplier Number	Supplier Number.
9.4.4.3.7	Defective Routing Definition	Supplier Name	VARCHAR2	240	GPO Routing Definition Form -> Supplier Name	Supplier Name.
9.4.4.3.8	Defective Routing Definition	Supplier Site	VARCHAR2	45	GPO Routing Definition Form -> Site Name	Supplier Site.
9.4.4.3.9	Supplier	Supplier Country	VARCHAR2	75	Supply base-->Suppliers--> Update -> Address Book -> Country	Supplier Country.

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.4.4.3.10	Approved Supplier List	Minimum Order Quantity	NUMBER	NA	Approved Supplier List--> Item-->Attributes-->Inventory-->Minimum order quantity	MOQ will be defined as 1. If MOQ is not defined leave it as blank
9.4.4.3.11	Sourcing Rule	Rank	NUMBER	NA	Sourcing Rule-->Name-->Shipping Organization-->Rank	Supplier Rank will be defined as 1. If Rank is not defined leave it as blank
9.4.4.3.12	Approved Supplier List	Allocation Percent	NUMBER	NA	Approved Supplier List--> Item-->Attributes-->Planning Constraints-->Allocation Percent	Allocation Percent will be defined as 100. If Allocation is not defined leave it as blank
9.4.4.3.13	Defective Routing Definition	Processing Lead Time	NUMBER	NA	Routing Definition Form	Processing Lead Time. Leave it as blank if not setup
9.4.4.3.14	Defective Routing Definition	Preprocessing Lead Time	NUMBER	NA	Routing Definition Form	Preprocessing Lead Time . Leave it as blank if not setup
9.4.4.3.15	Defective Routing Definition	Postprocessing Lead Time	NUMBER	NA	Routing Definition Form	Postprocessing Lead Time. Leave it as blank if not setup
9.4.4.3.16	Supplier	ADDITIONAL_INFO_1	VARCHAR2	500	NA	NA
9.4.4.3.17	Supplier	ADDITIONAL_INFO_2	VARCHAR2	500	NA	NA
9.4.4.3.18	Supplier	ADDITIONAL_INFO_3	VARCHAR2	500	NA	NA
9.4.4.3.19	Purpose	ADDITIONAL_INFO_4	VARCHAR2	500	GEHC Global Services, GPO Defective Routing -> Purpose	Extracting the Purpose of the Repair Routing. (Repair/SWAP/Local) (Based on the logic in the Business Rule section 9.4.6.13, populate Purpose)

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.4.4.3.20	Supplier City	ADDITIONAL_INFO_5	VARCHAR2	500	Supply base-->Suppliers--> Update -> Address Book -> City	City from where the Supplier Belongs. (Based on the logic in the Business Rule section 9.4.6.14, populate City)
9.4.4.3.21	Supplier	ADDITIONAL_INFO_6	VARCHAR2	500	NA	NA
9.4.4.3.22	Supplier	ADDITIONAL_INFO_7	VARCHAR2	500	NA	NA
9.4.4.3.23	Supplier	ADDITIONAL_INFO_8	VARCHAR2	500	NA	NA
9.4.4.3.24	Supplier	ADDITIONAL_INFO_9	VARCHAR2	500	NA	NA
9.4.4.3.25	Supplier	ADDITIONAL_INFO_10	VARCHAR2	500	NA	If the purpose from routing is 'Local Repair', populate LOCAL, else if the purpose is 'Repair' OR the purpose is 'SWAP' AND Item is repairable or the item has repairable item (based on the logic in the Business Rule section 9.4.6.12, populate GLOBAL

4. Shipping Network : The data entity of the Part Source Information extract for Shipping Network are :

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.4.4.4.1	Data Type	Data type	VARCHAR2	20	Constant	PART_SOURCE
9.4.4.4.2	Data Frequency	Data Frequency	VARCHAR2	10	NA	WEEKLY – as passed in the concurrent program parameter.
9.4.4.4.3	Supplier	Source Type	CHAR	17	Constant	Source Type is defined as SHIPPING NETWORK

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.4.4.4.4	Shipping Network	Organizati on Code	VARCHAR 2	3	Shipping Network → To Organization	Organization Code
9.4.4.4.5	Supplier	Supplier Number	VARCHAR 2	30	Supply base-->Suppliers--> Supplier Number	Supplier Number.
9.4.4.4.6	Shipping Network	Supplier Name	VARCHAR 2	240	Shipping Network --> DFF -> Supplier Name	Supplier Name.
9.4.4.4.7	Shipping Network	Supplier Site	VARCHAR 2	45	Shipping Network --> DFF -> Supplier Site	Supplier Site.
9.4.4.4.8	Supplier	Alternate supplier Site	VARCHAR 2	320	Supply base-->Suppliers-> Address Book -> Manage Sites -> Identification -> Alternate Site Name	Alternate Supplier Site.
9.4.4.4.9	Shipping Network	Supplier Organizati on	VARCHAR 2	3	Shipping Network → From Organization	Supplier Organization.
9.4.4.4.10	Supplier	Supplier Country	VARCHAR 2	75	Supply base-->Suppliers--> Update -> Address Book -> Country	Supplier Country.
9.4.4.4.11	Approved Supplier List	CRP ALLOCATI ON LEAD TIME	NUMBER	NA	Shipping Network→Tools →Shipping Methods→Intrans it Time (for shipping method : GPO_ALLOCATE)	Intransit time for ship method = GPO ALLOCATE
9.4.4.4.12	Approved Supplier List	CEX ALLOCATI ON LEAD TIME	NUMBER	NA	Shipping Network→Tools →Shipping Methods→Intrans it Time	Intransit time for default ship method.

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.4.4.4.13	Supplier	ADDITIONAL_INFO_1	VARCHAR2	500	NA	NA
9.4.4.4.14	Supplier	ADDITIONAL_INFO_2	VARCHAR2	500	NA	NA
9.4.4.4.15	Supplier	ADDITIONAL_INFO_3	VARCHAR2	500	NA	NA
9.4.4.4.16	Supplier	ADDITIONAL_INFO_4	VARCHAR2	500	NA	NA
9.4.4.4.17	Supplier	ADDITIONAL_INFO_5	VARCHAR2	500	NA	NA
9.4.4.4.18	Supplier	ADDITIONAL_INFO_6	VARCHAR2	500	NA	NA
9.4.4.4.19	Supplier	ADDITIONAL_INFO_7	VARCHAR2	500	NA	NA
9.4.4.4.20	Supplier	ADDITIONAL_INFO_8	VARCHAR2	500	NA	NA
9.4.4.4.21	Supplier	ADDITIONAL_INFO_9	VARCHAR2	500	NA	NA
9.4.4.4.22	Supplier	ADDITIONAL_INFO_10	VARCHAR2	500	NA	NA

5. Transfer Routing: A new data category of 'TRANSFER_ROUTING' is being added in the part source staging table (GEHC_SVC_SPM_PART_SOURCE_FEED). The data entity of the Part Source Information extract for Transfer routing are:

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.4.4.5.1	Data Type	Data type	VARCHAR2	20	Constant	PART_SOURCE
9.4.4.5.2	Data Frequency	Data Frequency	VARCHAR2	10	NA	WEEKLY – as passed in the concurrent program parameter.

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.4.4.5.3	Transfer routing	Source Type	CHAR	17	Constant	TRANSFER_ROUTING
9.4.4.5.4	Transfer routing	Organization Code	VARCHAR2	3	GEHC Global Services, GPO Defective Routing -> From Org	Transfer From org
9.4.4.5.5	Transfer routing	ITEM	VARCHAR2	40	GEHC Global Services, GPO Defective Routing -> Item	Item
9.4.4.5.6	Transfer routing	Supplier Organization	VARCHAR2	3	GEHC Global Services, GPO Defective Routing -> Transfer Org	Transfer to org
9.4.4.5.7	Shipping Network	CRP ALLOCATION LEAD TIME	NUMBER	NA	Shipping Network→Tools →Shipping Methods→Intransit Time (for shipping method : GPO_ALLOCATE)	Intransit time for ship method = GPO ALLOCATE from shipping network between From org and transfer org
9.4.4.5.8	Shipping Network	CEX ALLOCATION LEAD TIME	NUMBER	NA	Shipping Network→Tools →Shipping Methods→Intransit Time	Intransit time for default ship method from shipping network between From org and transfer org
9.4.4.5.9	Transfer routing	ADDITIONAL_INFO_3	VARCHAR2	500	GEHC Global Services, GPO Defective Routing -> GPO Item Type	Item type

9.4.5. Process Flow

Reference	Requirement
9.4.5.1	An entry is made into the GEMS_IFACE_PROCESS_TABLE with respective start times
9.4.5.2	Purge all the records in the Part Source staging table and reload it with new set of data.
9.4.5.3	All the external, internal, repair supplier details, attributes, and shipping network details are extracted as per data entity mentioned in 9.4.4
9.4.5.4	Lead time of various suppliers like Internal, External and Repair needs to be stored and maintained in Oracle. The lead times between warehouses per ship method classification should be maintained in Oracle.

Reference	Requirement
9.4.5.5	Extract transfer routing records from view GE_GPO_DEF_ROUTING_V in the format defined in the data entity section where value for column purpose is 'TRANSFER'. Extract only active records (Records for which effective_from_date and effective_to_date as well as lin_effective_from_date and lin_effective_to_date from view GE_GPO_DEF_ROUTING_V are in active date range).
9.4.5.6	The extracted data is inserted into the table - GEHC_SVC_SPM_PART_SOURCE_FEEDS

9.4.6. Business Rules

Reference	Business Entity	Rule
9.4.6.1	Data Population	Add a record in the GEMS_IFACE_PROCESS_TABLE table with: INTERFACE_NAME: GLPROD_TO_SPM_DATA_FEED PROGRAM_NAME: WEEKLY_SPM_PART_SOURCE START_DATE: sysdate STATUS_FLAG: 'I'
9.4.6.2	External/Internal Supplier extraction	Extract part source for both External and Internal Suppliers. The assignment set to be considered can be found from the below logic :- The sourcing assignment set profile option to be derived from the valueset – GEMS_GLP_INTERFACE_VALUESET value- 'PART_SOURCE_NEWBUY_ASSIGNMENT_SET' The Assignment set is then derived with the profile option identified in 9.4.6.3 at user level where user is 'GLOBALPARTS'. The Organization in scope for fetching the supplier details are defined as 'PARTS' organization and are enabled for planning defined under the value set GEHC_SVC_SPM_ENABLED_WAREHOUSE.
9.4.6.3	Source Type	Source Type 1 denotes the Internal Supplier, Repair Supplier details is derived from the custom table - GEHC_INV_GPO_ROUTING
9.4.6.4	Supplier Classification	Extract the supplier classification as Internal, External, Repair and Shipping Network
9.4.6.5	Lead Times	For external suppliers fetch the processing lead time from the approved supplier list attribute. Pre and Post processing times to be Null for such case. For Repair Suppliers, the pre-processing, processing and post processing lead times are fetched from the new defective routing from the view formed on the table - GE_GPO_DEF_ROUTING and GE_GPO_DEF_ROUTING_DETAILS. For Internal Suppliers the lead times would be Null For Processing lead time within a shipping network, the in-transit time for the 'GPO ALLOCATE' shipping method will be considered. If GPO ALLOCATE shipping method is not found within the shipping network then the processing lead time would be Null. Pre and Post processing lead times to be Null. method

Reference	Business Entity	Rule
9.4.6.6	Shipping Network	The organizations to be considered are maintained in the valueset - GEHC_SVC_SPM_ENABLED_WAREHOUSE.
9.4.6.7	Data Purging	Before loading any set of new data into the staging table - GEHC_SVC_SPM_PART_SOURCE_FEEDS, purge all the records from the previous run from this table.
9.4.6.8	Data extraction	The extracted data is stored in the table- GEHC_SVC_SPM_PART_SOURCE_FEEDS. No date filter condition is used here.
9.4.6.9	Data Population	For successful completion: Update the GEMS_IFACE_PROCESS_TABLE table with the completion date and time of this execution of the function and status as 'C'. For failure: Update the GEMS_IFACE_PROCESS_TABLE table with the completion date and time of this execution of the function, status as 'E' and the error reason in the Message field.
9.4.6.10	Data Extraction	Derive preprocessing, processing and post processing lead time components of Internal supplier lead time for the item and organization combination from sourcing rule assignment DFF segment post processing lead time, processing lead time and post processing lead time respectively where context value is 'GLOBALPARTS' and populate this value in preprocessing_lead_time, processing_lead_time and postprocessing_lead_time columns of table GEHC_SVC_SPM_PART_SOURCE_FEEDS respectively. All global parts newbuy sourcing rules are defined in assignment set 'GPO_NEWBUY_ASSIGNSET'. For no value assigned to the DFF, value to be extracted as NULL.
9.4.6.11	Data Extraction	Derive the sourcing rule name for internal and external supplier extracts from the sourcing rule assigned for item and warehouse combination in assignment set 'GPO_NEWBUY_ASSIGNSET'. Populate this value in ADDITIONAL_INFO_1 column of table GEHC_SVC_SPM_PART_SOURCE_FEED.
9.4.6.12	External Repair Supplier	All The Repair routings defined in routing tables with purpose REPAIR or LOCAL REPAIR AND All the Repair routings defined in routing tables with purpose SWAP with repairable Items or if the routing Item has a Repairable Item Repairable Item can be found using below logic. To determine the Harvest, Repair, Prime APC Attribute GE_Refurbished = 'Yes', indicates part is refurbished part. APC Attribute (Attribute Group: "Additional PC Attributes", Attribute Name: "Refurbished Category"), indicates part is 'Harvest' or 'Repairable'.

Reference	Business Entity	Rule				
		Relation between prime and Refurbished parts is stored in Item Relationship form and sample records would exist in this form as below:-				
		From	**To**	**Relation**	**DFF**	**APC Attribute (Refurbished Category) – Not in Relationship table**
		ABC-R	ABC	Substitute	Refurbished	Repairable
		ABC-H	ABC	Substitute	Refurbished	Harvest
9.4.6.13	Repair Supplier-Purpose	Extract the value for purpose from field Purpose from Defective routing details (<GEMS_INV.GE_GPO_DEF_ROUTING_V>) for repair suppliers				
9.4.6.14	Repair Supplier-Supplier city	Extract the Supplier city Information from Supplier details where Supplier Number and Supplier name is same as in Defective routing details.				

9.4.7. Translations/Transformations (Interfaces Only)

There will be no transformation/translation of data at oracle end. The data extracted will be captured by MW and stored in the AWS DB for any further processing based on any business logics.

9.4.8. Initiation

The function will be part of a concurrent program with frequency as the parameter. It will be scheduled to run daily once. The parameter frequency can have only one value of WEEKLY.

9.4.9. Error Handling, Reprocessing / Rollback & Error Messaging

None

▉ Function: Parts Supply

9.5.1. Approach / Description

Extract all forms of inbound data to warehouse across all GPRS Planning enabled warehouses included in the value set- GEHC_SVC_SPM_ENABLED_WAREHOUSE. The extracts which comprise the Supply Information are:-

➢ PO extracts having the PO's created for all the organization and all BLANKET PO's in the Approved Supplier list attributes.
➢ Internal Requisitions created as part of the allocation process of moving parts within warehouses.
➢ Return Material Authorizations (RMA's) created for field returns and repair returns.

Whenever the function is invoked, a respective entry, highlighting the interface name, is created in custom table - GEMS_IFACE_PROCESS_TABLE to allow easy debugging in case of any issue. Data extraction is done starting from the last extracted run time of the function obtained from the table- GEMS_IFACE_PROCESS_TABLE.

Before extraction of data, the custom table where the extracts are stored for the previous run are purged completely for the corresponding interface name and are loaded with a new set of data by using the last extract start run date/time as input for the next set of extraction or a between a specific date intervals passed as input to the concurrent program.

The new set of data extracted will be appended to the previous set stored in the AWS layer making it an incremental type of extract.

9.5.2.   Inputs

Organizations to be considered are included in the value set- GEHC_SVC_SPM_ENABLED_WAREHOUSE.

This program will have below 5 parameters:
1. Frequency:
    This parameter specifies the mode in which the program should run. This parameter can have below 3 values:
    a) DAILY: When the Program is submitted with Frequency as 'DAILY' then all other parameters except 'Truncate table' will be Null. In this mode system will extract the last successful run of the program with frequency as 'DAILY' and extract all eligible records after that date.
    b) SPECIAL: In this mode, user will specify the start date and end date within which the eligible records need to be extracted. In this mode parameter 'No of Days' will not have any value.
    c) DAYS: In this mode, user will specify number of days in the 'No of Days' parameter, for which the eligible records need to be extracted. In this mode, program will extract all eligible records created/updated in last 'No of days' from current date. When frequency is selected as 'DAYS' and 'No of days' is not specified then processing of program should stop and error message ('No of Days is required for frequency 'DAYS') will be logged into IFACE table.

2. Start Date: This Parameter will only be populated when running in 'SPECIAL' mode and specifies the start data for data extraction.

3. End Date: This Parameter will only be populated when running in 'SPECIAL' mode and specifies the end data for data extraction.

4. Truncate Table: This parameter will default to 'Yes' in all modes so that data from previous run can be purged.

5. No of Days: This parameter will only be applicable when frequency is 'DAYS'. This parameter will specify for how many days in past the transactions need to be extracted starting with the current date.

9.5.3.   Outputs

At the start and end of this program, the corresponding entries must be made into the GEMS_IFACE_PROCESS_TABLE specifying the date and time for interface name: ORACLE_TO_SPM_DAILY and program name: PART_SOURCE. The extracted records are stored into the table- GEHC_SVC_SPM_PART_SUPPLY_FEED.

9.5.4.   Data Entity

The data elements for the Part Supply Information are listed below for PO Supply, PO Part Source, Requisition and RMA Details.

1. PO SUPPLY Details: The data columns are derived for all the PO supplies with the PARTS enabled warehouses.

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.1	Data Type	Data type	VARCHAR2	20	Constant	PART_SUPPLY
9.5.4.2	Data Frequency	Data Frequency	VARCHAR2	10	Constant	DAILY as passed in the concurrent program parameter. SPECIAL- when the extract runs for a specified date interval passed as parameter to the concurrent program
9.5.4.3	Purchase Order	EXTRACT TYPE	CHAR	17	Constant	Extract Type will be 'PO_SUPPLY_DETAILS'
9.5.4.4	Purchase Order	PO NUMBER	VARCHAR2	20	Purchasing→ Purchase Orders → PO, Rev	Purchase Order Number
9.5.4.5	Purchase Order	PO TYPE	VARCHAR2	25	Purchasing → Purchase Orders → TYPE	Purchase Order Type

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.6	Purchase Order	PO HEADER ID	NUMBER	NA	Fetched from Purchase Order Record History	Purchase Order Header ID
9.5.4.7	Purchase Order	PO HEADER CLOSED CODE	VARCHAR2	25	Purchase Orders-> Purchase Order Summary ->Closure Status	Purchase Order Closed Code
9.5.4.8	Purchase Order	PO HEADER AUTHORIZATION STATUS	VARCHAR2	25	Purchasing → Purchase Order→Status	Status Of Purchase Order
9.5.4.9	Purchase Order	PO HEADER ORG ID	NUMBER	NA	Purchase Orders-> Purchase Orders ->Operating Unit	PO Operating Unit : Derive the Org Id from the Operating Unit.
9.5.4.10	Purchase Order	PO HEADER CLASSIFICATION	VARCHAR2	150	Purchase Orders-> Purchase Orders ->DFF → Order Classification (Attribute 6)	Purchase Order Header Classification
9.5.4.11	Purchase Order	PO HEADER COMMENTS	VARCHAR2	240	Fetched from Purchase Order Record History	Purchase Order Header Comments
9.5.4.12	Supplier	SUPPLIER NUMBER	VARCHAR2	30	Supply base-->Suppliers-->Query with Supplier Name -> Supplier Number	Supplier Number.
9.5.4.13	Purchase Order	SUPPLIER NAME	VARCHAR2	240	Purchasing-> Purchase Orders→Supplier	Supplier Name
9.5.4.14	Supplier	SUPPLIER TYPE	VARCHAR2	30	Supply Base →Suppliers → Query with Supplier Name -> Update -> Organization -> Type	Supplier Type
9.5.4.15	Purchase Order	SUPPLIER SITE	VARCHAR2	45	Purchasing → Purchase Orders→ Site	Supplier Site.

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.16	Supplier	SUPPLIER COUNTRY	VARCHAR2	75	Supply Base →Suppliers → Query with Supplier Name -> Update -> Address Book -> Country	Supplier Country
9.5.4.17	Purchase Order	BUYER	NUMBER	NA	Purchasing → Purchase Orders→Buyer	Buyer
9.5.4.18	Purchase Order	PO HEADER CREATION DATE	DATE	NA	Purchasing-> Purchase Orders -> created	Purchase Order Creation Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.19	Purchase Order	PO HEADER CREATED BY	VARCHAR2	100	Fetched from Purchase Order Record History	Purchase Order Header Created By
9.5.4.20	Purchase Order	PO HEADER LAST UPDATE DATE	DATE	NA	Fetched from Purchase Order Record History	Purchase Order Header Last Update Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.21	Purchase Order	PO HEADER LAST UPDATED BY	VARCHAR2	100	Fetched from Purchase Order Record History	Purchase Order Header Last Updated By User
9.5.4.22	Purchase Order	PO LINE ID	NUMBER	NA	Fetched from Purchase Order Record History	Purchase Order Line ID
9.5.4.23	Purchase Order	PO LINE NUM	NUMBER	NA	Purchasing→ Purchase Orders ->Line NUM	Purchase Order Line Number
9.5.4.24	Purchase Order	ITEM NUMBER	VARCHAR2	40	Purchasing→ Purchase Orders ->Line NUM -> Item	Item Number
9.5.4.25	Purchase Order	VENDOR PRODUCT NUMBER	VARCHAR2	25	Purchasing -> Line NUM -> supplier Item	Vendor Product Number
9.5.4.26	Purchase Order	PO LINE CLOSED CODE	VARCHAR2	25	Fetched from Purchase Order Record History	PO Line Closed Code
9.5.4.27	Purchase Order	PO LINE CANCEL FLAG	VARCHAR2	1	Purchasing →Purchase Orders→Line Items→Shipments →Cancelled	PO Line Cancel Flag

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.28	Purchase Order	PO LINE CREATION DATE	DATE	NA	Fetched from Purchase Order Record History	PO Line Creation Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.29	Purchase Order	PO LINE CREATED BY	VARCHAR2	100	Fetched from Purchase Order Record History	Purchase Order Line Created By
9.5.4.30	Purchase Order	PO LINE LAST UPDATE DATE	DATE	NA	Fetched from Purchase Order Record History	Purchase Order Line Last Update Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.31	Purchase Order	PO LINE LAST UPDATED BY	VARCHAR2	100	Fetched from Purchase Order Record History	Purchase Order Line Last Update By User
9.5.4.32	Purchase Order	RELEASE ID	NUMBER	NA	Fetched from Order Release Record History	Release ID
9.5.4.33	Purchase Order	RELEASE NUM	NUMBER	NA	Purchasing→Releases->query PO->Release	Release Number
9.5.4.34	Purchase Order	RELEASE PO CLASSIFICTION	VARCHAR2	150	Purchase Orders→Releases->query PO-> DFF-> Order Classification (Attribute 6)	Release PO Classification
9.5.4.35	Purchase Order	RELEASE PO BUYER	NUMBER	NA	Purchase Orders→Releases->query PO->Buyer	Release PO Buyer
9.5.4.36	Purchase Order	RELEASE PO AUTHORIZATION STATUS	VARCHAR2	25	Purchase Orders→Releases->query PO->Status	Release PO Authorization Status
9.5.4.37	Purchase Order	RELEASE PO CLOSED CODE	VARCHAR2	25	Purchasing→Releases->query PO->Status	Release PO Closed Code
9.5.4.38	Purchase Order	RELEASE PO CREATION DATE	DATE	NA	Purchasing→Releases->query PO->created	Release PO creation Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.39	Purchase Order	RELEASE PO CREATED BY	VARCHAR2	100	Fetched from Order Release Record History	Release PO creation By

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.40	Purchase Order	RELEASE PO LAST UPDATE DATE	DATE	NA	Fetched from Order Release Record History	Release PO Last Update Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.41	Purchase Order	RELEASE PO LAST UPDATED BY	VARCHAR2	100	Fetched from Order Release Record History	Release PO Last Update Dated By User
9.5.4.42	Purchase Order	PO LINE LOCATION ID	NUMBER	NA	Fetched from Order Release Record History	PO Line Location ID
9.5.4.43	Purchase Order	SHIP TO ORGANIZATION CODE	VARCHAR2	3	Purchasing->Purchase Orders -> Shipments->ORG	Ship To Organization Code
9.5.4.44	Purchase Order	SHIPMENT NUMBER	NUMBER	NA	Fetched from Order Release Record History	Shipment Number
9.5.4.45	Purchase Order	NEED BY DATE	DATE	NA	Purchasing→Purchase Orders→Lines→Need By	PO Need By Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.46	Purchase Order	PROMISED DATE	DATE	NA	Purchasing→Purchase Orders→Lines→Need	PO Promised Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.47	Purchase Order	LINKED PO SO LINE NUMBER	VARCHAR2	150	Purchasing->Purchase Orders -> Shipments-->DFF → Sales Order Line	SO line number linked with PO
9.5.4.48	Purchase Order	WAYBILL NUMBER	VARCHAR2	150	Purchasing->Purchase Orders→Lines→Shipments->DFF→Way Bill Number (Attribute 7)	PO Way Bill Number
9.5.4.49	Purchase Order	ITEM QUANTITY ORDERED	NUMBER	NA	Purchasing->Purchase Orders→Lines→Shipments->Status-> Ordered	Item Quantity Ordered

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.50	Purchase Order	ITEM QUANTITY RECEIVED	NUMBER	NA	Purchasing-> Purchase Orders→Lines→Shipments->Status-> Received	Item Quantity Received
9.5.4.51	Purchase Order	ITEM QUANTITY CANCELLED	NUMBER	NA	Purchasing-> Purchase Orders→Lines→Shipments->Status-> Cancelled.	Item Quantity Cancelled
9.5.4.52	Purchase Order	PO LINE LOCATION CLOSED CODE	VARCHAR2	30	Purchasing →Purchase Orders→Line Items→Shipments →Status	PO Line Location Closed Code
9.5.4.53	Purchase Order	PO LINE LOCATION CREATION DATE	DATE	NA	Fetched from Order Release Record History	PO Line Location Creation Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.54	Purchase Order	PO LINE LOCATION CREATED BY	VARCHAR2	100	As described in section 9.5.6.18	PO Line Location Created By
9.5.4.55	Purchase Order	PO LINE LOCATION LAST UPDATE DATE	DATE	NA	Fetched from Order Release Record History	PO Line Location Last Updated Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.56	Purchase Order	PO LINE LOCATION LAST UPDATED BY	VARCHAR2	100	As described in section 9.5.6.18	PO Line Location Last Updated By User
9.5.4.57	Purchase Order	PO DESTINATION TYPE CODE	VARCHAR2	25	Fetched from Order Release Record History	PO destination type code
9.5.4.58	Purchase Order	PO DESTINATION SUBINVENTORY CODE	VARCHAR2	10	Purchasing-> Purchase Order→Shipments ->distributions -> subinventory	PO Destination Subinventory Code
9.5.4.59	Purchase Order	PO DISTRIBUTION SO NUMBER	VARCHAR2	150	Purchasing-> Purchase Orders -> Shipments-->distributions -> DFF → Sales Order No.	PO Distribution SO number

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.60	Purchase Order	REQUISITION DETAILS	VARCHAR2	29	Requisitions→Requisitions Summary→Query Requisition number →Line→Requesting org	Fetch the look up type code and source organization code concatenated with pipe delimiter. The PO created can be linked with the requisitions through the gems_ds_lines_all table which holds the information of PO created.
9.5.4.61	Purchase Order	FIRST RECEIPT DATE	DATE	NA	Purchasing→Receiving transaction summary→Transaction Date	First Receipt Date in format 'DD-MM-YYYY HH24:MI:SS'. Is the minimum of the transaction dates in the receiving summary for a corresponding PO line received. The transaction type will be 'RECEIVE' for the corresponding PO line.
9.5.4.62	Purchase Order	PO REVISION	NUMBER	NA	Purchasing-> Purchase Order→Rev	PO Revision Number
9.5.4.63	Purchase Order	PO HEADER APPROVAL DATE	DATE	NA	NA	PO Header Approval Date (APPROVED_DATE from Purchase Orders)
9.5.4.64	Purchase Order	PO RELEASE APPROVAL DATE	DATE	NA	NA	PO Release Approval Date (APPROVED_DATE from PO RELEASES)
9.5.4.65	Purchase Order	ADDITIONAL_INFO_1	VARCHAR2	500	Delivered quantity against the po shipment from rcv transactions	Item Quantity delivered

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.66	Purchase Order	ADDITIONAL_INFO_2	VARCHAR2	500	1.If PO is created against an IR and Source and destination both organizations are parts (attribute7 from mtl parameters as 'PARTS') then 'Allocation' 2.If PO is created against an IR and Source organization is not a parts organization (attribute7 from mtl parameters is not 'PARTS') and destination organizations is parts organization (attribute7 from mtl parameters as 'PARTS') then 'Internal' 3.If the PO is a blanket release and created against a purchase requisition where destination organization is a parts organization (attribute7 from mtl parameters in 'PARTS') then 'EXTERNAL)	PO Classification
9.5.4.67	Purchase Order	ADDITIONAL_INFO_3	VARCHAR2	500	For the Requisition Lines of the PO created Requisition -> Lines -> Justification	The Justification column in Requisition Lines for the PO created through Requisition, needs to be fetched in this column

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.68	Purchase Order	ADDITIONAL_INFO_4	VARCHAR2	500	NA	This field will determine if this PO needs to be restricted from being sent to Planning system
9.5.4.69	Purchase Order	ADDITIONAL_INFO_5	VARCHAR2	500	PO Source	SPM or NON-SPM
9.5.4.70	Purchase Order	ADDITIONAL_INFO_6	VARCHAR2	500	Purchase order -> PO Line -> PO Price	PO Price converted in USD
9.5.4.71	Purchase Order	ADDITIONAL_INFO_7	VARCHAR2	500	NA	As explained in 9.5.6.17
9.5.4.72	Purchase Order	ADDITIONAL_INFO_8	VARCHAR2	500	NA	As explained in 9.5.6.17
9.5.4.73	Purchase Order	ADDITIONAL_INFO_9	VARCHAR2	500	NA	NA
9.5.4.74	Purchase Order	ADDITIONAL_INFO_10	VARCHAR2	500	NA	NA
9.5.4.74	Sales Order	ORDER_NUMBER	NUMBER		Order Management -> Orders, Returns -> Order Information -> Sales Order	Order Number corresponding to the Repair/Defective, Allocation or Internal Sales Orders
9.5.4.75	Sales Order	HEADER_ID	NUMBER			Order header ID
9.5.4.76	Sales Order	LINE_ID	NUMBER			Order Line ID
9.5.4.77	Sales Order	OPERATING_UNIT	VARCHAR2	240	Order Management -> Orders, Returns -> Order Information -> Operating Unit	Operating Unit Name
9.5.4.78	Sales Order	CUSTOMER_NUMBER	VARCHAR2	30	Order Management -> Orders, Returns -> Order Information -> Customer Number	Customer Number
9.5.4.79	Sales Order	CUSTOMER_NAME	VARCHAR2	360	Order Management -> Orders, Returns -> Order Information ->	Customer Name
9.5.4.80	Sales Order	CUSTOMER_CATEGORY	VARCHAR2	30	Customer -> Profile -> Customer Category	Customer Category

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.81	Sales Order	ORDER_TYPE_NAME	VARCHAR2	30	Order Management -> Orders, Returns -> Order Information -> Order Type	Order Type Name
9.5.4.82	Sales Order	ORDER_TYPE	VARCHAR2	30		Order Type ID
9.5.4.83	Sales Order	ORDER_LINE_STATUS	VARCHAR2	30	Order Management -> Orders, Returns -> Line Items -> Status	Order line status
9.5.4.84	Sales Order	HEADER_ORDER_SOURCE	VARCHAR2	240	Order Management -> Orders, Returns -> Order Information -> Order Source	Order Source
9.5.4.85	Sales Order	HEADER_ORDER_STATUS	VARCHAR2	30	Order Management -> Orders, Returns -> Order Information -> Status	Order header status
9.5.4.86	Sales Order	LINE_ORDER_SOURCE	VARCHAR2	240	Order Management -> Orders, Returns -> Line Items -> Order Source	Order Line Source
9.5.4.87	Sales Order	LINE_NUMBER	VARCHAR2	81	Order Management -> Orders, Returns -> Line Items -> Line	Order Line Number
9.5.4.88	Sales Order	ORDERED_ITEM	VARCHAR2	2000	Order Management -> Orders, Returns -> Line Items -> Ordered Item	Ordered item
9.5.4.89	Sales Order	ORDERED_QUANITY	NUMBER		Order Management -> Orders, Returns -> Line Items -> Qty	Ordered Quantity
9.5.4.90	Sales Order	SHIPPED_QUANTITY	NUMBER		Order Management -> Orders, Returns -> Line Items -> Qty Shipped	Shipped Quantity

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.91	Sales Order	RESERVED_QUANTITY	NUMBER		Order Management -> Orders, Returns -> Line Items -> Qty Reserved	Reserved Quantity
9.5.4.92	Sales Order	UOM	VARCHAR2	3	Order Management -> Orders, Returns -> Line Items -> UOM	Item UOM
9.5.4.93	Sales Order	REQUEST_DATE	DATE		Order Management -> Orders, Returns -> Line Items -> Request Date	Order line request date
9.5.4.94	Sales Order	PROMISE_DATE	DATE		Order Management -> Orders, Returns -> Line Items -> Promise Date	Order line promise date
9.5.4.95	Sales Order	SCHEDULED_SHIP_DATE	DATE		Order Management -> Orders, Returns -> Line Items -> Scheduled Ship Date	Order line Scheduled Ship Date
9.5.4.96	Sales Order	SHIPMENT_PRIORITY	VARCHAR2	30	Order Management -> Orders, Returns -> Line Items -> Shipment Priority	
9.5.4.97	Sales Order	SHIP_METHOD	VARCHAR2	80	Order Management -> Orders, Returns -> Line Items -> Shipping Method	
9.5.4.98	Sales Order	SHIP_METHOD_PRIORITY	VARCHAR2	150		
9.5.4.99	Sales Order	HEADER_CREATION_DATE	DATE		Order Management -> Orders, Returns -> Order Information -> Date Ordered	
9.5.4.100	Sales Order	HEADER_CREATED_BY	VARCHAR2	100		

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.101	Sales Order	HEADER_UPDATION_DATE	DATE			
9.5.4.102	Sales Order	HEADER_LAST_UPDATED_BY	VARCHAR2	100		
9.5.4.103	Sales Order	LINE_CREATION_DATE	DATE		Order Management -> Orders, Returns -> Line Items ->	
9.5.4.104	Sales Order	LINE_CREATED_BY	VARCHAR2	100		Order line Created By
9.5.4.105	Sales Order	LINE_UPDATION_DATE	DATE			Order line updation Date
9.5.4.106	Sales Order	LINE_LAST_UPDATED_BY	VARCHAR2	100		Order line last updated by
9.5.4.107	Sales Order	SOURCED_FROM	VARCHAR2	240	Order Management -> Orders, Returns -> Line Items -> Warehouse	
9.5.4.108	Sales Order	LINE_TYPE	VARCHAR2	30	Order Management -> Orders, Returns -> Line Items -> Line Type	
9.5.4.109	Sales Order	HOLD_NAME	VARCHAR2	30	Order Management -> Orders, Returns -> Line Items -> Additional Line Information - > Holds	

2.PO PART SOURCE- The columns fetched are for the Blanket Purchase Agreements created for External Suppliers.

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.1	Data Type	Data type	VARCHAR2	20	Constant	PART_SUPPLY

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.2	Data Frequency	Data Frequency	VARCHAR2	10	Constant	DAILY – as passed in the concurrent program parameter. SPECIAL- when the extract runs for a specified date interval passed as parameter to the concurrent program
9.5.4.3	Purchase Order	EXTRACT TYPE	CHAR	17	Constant	Extract Type will be 'PO PART SOURCE'
9.5.4.4	Purchase Order	PO NUMBER	VARCHAR2	20	Purchasing→ Purchase Orders-> Purchase Orders → PO,Rev	Purchase Order Number
9.5.4.5	Purchase Order	PO TYPE	VARCHAR2	25	Purchasing → Purchase Orders-> Purchase Orders →TYPE	Purchase Order Type
9.5.4.6	Purchase Order	PO HEADER ID	NUMBER	NA	Fetched from Purchase Order Record History	Purchase Order Header ID
9.5.4.7	Purchase Order	PO HEADER CLOSED CODE	VARCHAR2	25	Purchasing→Purchase Orders-> Purchase Order Summary ->Closure Status	Purchase Order Closed Code
9.5.4.8	Purchase Order	PO HEADER AUTHORIZ ATION STATUS	VARCHAR2	25	Purchasing → Purchase Orders-> Purchase Order→Status	Status Of Purchase Order
9.5.4.9	Purchase Order	PO HEADER ORG ID	NUMBER	NA	Purchasing→ Purchase Orders-> Purchase Orders ->Operating Unit	PO org id to be derived from the PO Operating Unit

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.10	Purchase Order	PO HEADER CLASSIFICATION	VARCHAR2	150	Purchasing→ Purchase Orders-> Purchase Orders ->DFF → Order Classification	Purchase Order Header Classification
9.5.4.11	Purchase Order	PO HEADER COMMENTS	VARCHAR2	240	Fetched from Purchase Order Record History	Purchase Order Header Comments
9.5.4.12	Supplier	SUPPLIER NUMBER	VARCHAR2	30	Supply base-->Suppliers-->Query with Supplier Name -> Supplier Number	Supplier Number.
9.5.4.13	Supplier	SUPPLIER NAME	VARCHAR2	240	Purchasing Purchase Orders-> Purchase Orders→Supplier	Supplier Name
9.5.4.14	Supplier	SUPPLIER TYPE	VARCHAR2	30	Supply Base →Suppliers → Query with Supplier Name -> Update -> Organization -> Type	Supplier Type
9.5.4.15	Supplier	SUPPLIER SITE	VARCHAR2	45	Purchasing →SSupply base-->Suppliers-->Query Supplier-Supplier Site	Supplier Site.
9.5.4.16	Supplier	SUPPLIER COUNTRY	VARCHAR2	75	Purchasing → Supply Base →Suppliers → Query with Supplier Name -> Update -> Address Book -> Country	Supplier Country
9.5.4.17	Supplier	BUYER	NUMBER	NA	Purchasing → Purchase Orders-> Purchase Orders→Buyer	Buyer
9.5.4.18	Purchase Order	PO HEADER CREATION DATE	DATE	NA	Fetched from Purchase Order Record History	Purchase Order Creation Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.19	Purchase Order	PO HEADER CREATED BY	VARCHAR2	100	Fetched from Purchase Order Record History	Purchase Order Header Created By

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.20	Purchase Order	PO HEADER LAST UPDATE DATE	DATE	NA	Fetched from Purchase Order Record History	Purchase Order Header Last Update Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.21	Purchase Order	PO HEADER LAST UPDATED BY	VARCHAR2	100	Fetched from Purchase Order Record History	Purchase Order Header Last Updated By User
9.5.4.22	Purchase Order	PO LINE ID	NUMBER	NA	Fetched from Purchase Order Record History	Purchase Order Line ID
9.5.4.23	Purchase Order	PO LINE NUM	NUMBER	NA	Purchasing→ Purchase Orders-> Purchase Orders -> Lines-> NUM	Purchase Order Line Number
9.5.4.24	Purchase Order	ITEM NUMBER	VARCHAR2	40	Purchasing→ Purchase Orders-> Purchase Orders -> Lines-> Item	Item Number
9.5.4.25	Purchase Order	VENDOR PRODUCT NUMBER	VARCHAR2	25	Purchasing Purchase Orders-> Purchase Orders -> Lines-> Supplier Item	Vendor Product Number
9.5.4.26	Purchase Order	PO LINE CLOSED CODE	VARCHAR2	25	Purchasing →Purchase Orders→Line Items→Shipments→Status	PO Line Closed Code
9.5.4.27	Purchase Order	PO LINE CANCEL FLAG	VARCHAR2	1	Purchasing →Purchase Orders→Line Items→Shipments→Cancelled	PO Line Cancel Flag
9.5.4.28	Purchase Order	PO LINE CREATION DATE	DATE	NA	Fetched from Order Record History	PO Line Creation Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.29	Purchase Order	PO LINE CREATED BY	VARCHAR2	100	Fetched from Order Record History	Purchase Order Line Created By

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.30	Purchase Order	PO LINE LAST UPDATE DATE	DATE	NA	Fetched from Order Record History	Purchase Order Line Last Update Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.31	Purchase Order	PO LINE LAST UPDATED BY	VARCHAR2	100	Fetched from Order Record History	Purchase Order Line Last Update By User
9.5.4.32	Purchase Order	SHIP TO ORGANIZATION CODE	VARCHAR2	3	Purchasing-> Shipments->ORG	Ship To Organization Code
9.5.4.33	Purchase Order	PO REVISION	NUMBER	NA	Purchasing-> Purchase Order→Rev	PO Revision Number
9.5.4.34	Purchase Order	PO HEADER APPROVAL DATE	DATE	NA	NA	PO Header Approval Date (APPROVED_DATE from Purchase Orders)
9.5.4.35	Purchase Order	PO RELEASE APPROVAL DATE	DATE	NA	NA	PO Release Approval Date (APPROVED_DATE from PO RELEASES)
9.5.4.36	Purchase Order	ADDITIONAL_INFO_1	VARCHAR2	500	Delivered quantity against the po shipment from rcv transactions	Delivered quantity against the po shipment from rcv transactions

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.37	Purchase Order	ADDITIONAL_INFO_2	VARCHAR2	500	1.If PO is created against an IR and Source and destination both organizations are parts (attribute7 from mtl parameters as 'PARTS') then 'Allocation' 2.If PO is created against an IR and Source organization is not a parts organization (attribute7 from mtl parameters is not 'PARTS') and destination organizations is parts organization (attribute7 from mtl parameters as 'PARTS') then 'Internal' 3.If the PO is a blanket release and created against a purchase requisition where destination organization is a parts organization (attribute7 from mtl parameters in 'PARTS') then 'EXTERNAL)	PO Classification
9.5.4.38	Purchase Order	ADDITIONAL_INFO_3	VARCHAR2	500	NA	NA
9.5.4.39	Purchase Order	ADDITIONAL_INFO_4	VARCHAR2	500	NA	NA
9.5.4.40	Purchase Order	ADDITIONAL_INFO_5	VARCHAR2	500	NA	NA
9.5.4.41	Purchase Order	ADDITIONAL_INFO_6	VARCHAR2	500	NA	NA
9.5.4.42	Purchase Order	ADDITIONAL_INFO_7	VARCHAR2	500	NA	NA
9.5.4.43	Purchase Order	ADDITIONAL_INFO_8	VARCHAR2	500	NA	NA
9.5.4.44	Purchase Order	ADDITIONAL_INFO_9	VARCHAR2	500	NA	NA
9.5.4.45	Purchase Order	ADDITIONAL_INFO_10	VARCHAR2	500	NA	NA

3. REQUISITION : The columns fetched are for the Requisitions which are in APPROVED status.

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.1	Data Type	Data type	VARCHAR2	20	Constant	PART_SUPPLY
9.5.4.2	Data Frequency	Data Frequency	VARCHAR2	10	Constant	DAILY – as passed in the concurrent program parameter. SPECIAL- when the extract runs for a specified date interval passed as parameter to the concurrent program
9.5.4.3	REQUISITION	EXTRACT TYPE	CHAR	17	Constant	Extract Type will be 'REQ SUPPLY DETAILS'
9.5.4.4	REQUISITION	REQUISITION NUMBER	VARCHAR2	20	Purchasing→ Requisitions->Requisitions Summary→ Number	Requisition Number
9.5.4.5	REQUISITION	REQUISITION TYPE	VARCHAR2	25	Purchasing→ Requisitions->Requisitions Summary→ Type	Requisition TYPE
9.5.4.6	REQUISITION	REQUISITION HEADER ID	NUMBER	NA	Fetched from Order Record History	Requisition Header ID
9.5.4.7	REQUISITION	AUTHORIZATION STATUS	VARCHAR2	25	Purchasing→ Requisitions->Requisitions Summary→ Approval Status	Authorization Status of the requisition
9.5.4.8	REQUISITION	REQUISITION HEADER OPERATING UINT	NUMBER	NA	Fetched from Requisition Record History	Requisition Header Operating Unit
9.5.4.9	REQUISITION	REQUISITION HEADER CLASSIFICATION	VARCHAR2	150	Fetched from Order Record History	Requisition Header Classification (Attribute6 of the requisitions DFF)
9.5.4.10	REQUISITION	REQUISITION HEADER COMMENTS	VARCHAR2	240	Purchasing→ Requisitions->Requisitions Summary→ Description	Description of the Requisitions to be included as Requisition Header Comments

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.11	REQUISITION	SOURCE ORGANIZAT ION	VARCHAR2	30	Purchasing→ Requisitions->Requisitions Summary→ Lines→Requesti ng Org	Source Organization
9.5.4.12	REQUISITION	BUYER	NUMBER	NA	Purchasing→ Requisitions->Requisitions Summary→ Lines→Requesto r	Buyer of the requisition document
9.5.4.13	REQUISITION	REQUISITIO N HEADER CREATION DATE	DATE	NA	Fetched from Requisition Record History	Requisition Header Creation Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.14	REQUISITION	REQUISITIO N HEADER CREATED BY	VARCHAR2	100	Fetched from Requisition Record History	Requisition Header Created By
9.5.4.15	REQUISITION	REQUISITIO N HEADER LAST UPDATE DATE	DATE	NA	Fetched from Requisition Record History	Requisition Header Last Update Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.16	REQUISITION	REQUISITIO N HEADER LAST UPDATED BY	VARCHAR2	100	Fetched from Requisition Record History	Requisition Header Last Updated By User
9.5.4.17	REQUISITION	REQUISITIO N LINE ID	NUMBER	NA	Fetched from Requisition Record History	Requisition Line ID
9.5.4.18	REQUISITION	REQUISITIO N LINE NUM	NUMBER	NA	Purchasing→ Requisitions->Requisitions Summary→ Lines→Line	Requisition Line Num
9.5.4.19	REQUISITION	ITEM NUMBER	VARCHAR2	40	Purchasing→ Requisitions->Requisitions Summary→ Lines→Item	Item Number
9.5.4.20	REQUISITION	REQUISITIO N LINE CLOSED CODE	VARCHAR2	25	Fetched from Requisition Record History	Requisition Line status

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.21	REQUISITION	REQUISITION LINE CANCEL FLAG	VARCHAR2	1	Fetched from Requisition Record History	Requisition Line Cancellation Flag
9.5.4.22	REQUISITION	REQUISITION LINE CREATION DATE	DATE	NA	Fetched from Requisition Record History	Requisition Line Creation Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.23	REQUISITION	REQUISITION LINE CREATED BY	VARCHAR2	100	Fetched from Requisition Record History	Requisition Line Created By
9.5.4.24	REQUISITION	REQUISITION LINE LAST UPDATE DATE	DATE	NA	Fetched from Requisition Record History	Requisition Line Last Update Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.25	REQUISITION	REQUISITION LINE LAST UPDATED BY	VARCHAR2	100	Fetched from Requisition Record History	Requisition Line Last Updated By User
9.5.4.26	REQUISITION	SHIP TO ORGANIZATION	VARCHAR2	3	Purchasing→ Requisitions->Requisitions Summary→ Lines→Location	Organization Code to be derived from the location
9.5.4.27	REQUISITION	SHIPMENT NUMBER	NUMBER	NA	Fetched from Order Record History	Reference Number from the Requisitions Line table
9.5.4.28	REQUISITION	NEED BY DATE	DATE	NA	Purchasing→ Requisitions->Requisitions Summary→ Lines→Need-By	NEED BY DATE in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.29	REQUISITION	QUANTITY ORDERED	NUMBER	NA	Purchasing→ Requisitions->Requisitions Summary→ Lines→Quantity	Quantity Ordered
9.5.4.30	REQUISITION	REQUISITION APPROVAL DATE	DATE	NA	NA	Approved Date in Requisition Headers.

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.31	REQUISITION	REQUISITION LINE DESTINATION TYPE CODE	VARCHAR2	25	Fetched from Requisition Record History	Requisitions Line Destination type code fetched from the requisitions line table which gets populated during the requisition creation.
9.5.4.32	REQUISITION	REQUISITION LINE DESTINATION SUBINVENTORY	VARCHAR2	10	Fetched from Requisition Record History	Requisitions Line Subinventory fetched from the requisitions line table which gets populated during the requisition creation.
9.5.4.33	REQUISITION	ADDITIONAL_INFO_1	VARCHAR2	500	NA	NA
9.5.4.34	REQUISITION	ADDITIONAL_INFO_2	VARCHAR2	500	NA	Item Quantity delivered
9.5.4.35	REQUISITION	ADDITIONAL_INFO_3	VARCHAR2	500	NA	PO Classification
9.5.4.36	REQUISITION	ADDITIONAL_INFO_4	VARCHAR2	500	NA	NA
9.5.4.37	REQUISITION	ADDITIONAL_INFO_5	VARCHAR2	500	NA	NA
9.5.4.38	REQUISITION	ADDITIONAL_INFO_6	VARCHAR2	500	NA	NA
9.5.4.39	REQUISITION	ADDITIONAL_INFO_7	VARCHAR2	500	NA	NA
9.5.4.40	REQUISITION	ADDITIONAL_INFO_8	VARCHAR2	500	NA	NA
9.5.4.41	REQUISITION	ADDITIONAL_INFO_9	VARCHAR2	500	NA	NA
9.5.4.42	REQUISITION	ADDITIONAL_INFO_10	VARCHAR2	500	NA	NA

4.RMA Receipts : This columns are fetched for all FE RMA field returns.

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.1	Data Type	Data type	VARCHAR 2	20	Constant	PART_SUPPLY
9.5.4.2	Data Frequency	Data Frequency	VARCHAR 2	10	NA	DAILY – as passed in the concurrent program parameter. SPECIAL- when the extract runs for a specified date interval passed as parameter to the concurrent program
9.5.4.3	RMA	item_quantity_received	NUMBER	NA	RMA -> Received Quantity	Number of quantity received for RMA
9.5.4.4	SALES ORDER HEADER	ORDER NUMBER	NUMBER	NA	Orders,Returns --> Sales orders-->Order Information-->Main-->Order number	Order Number
9.5.4.5	SALES ORDER HEADER	HEADER ID	NUMBER	NA	NA	Header ID of the Order Number
9.5.4.6	SALES ORDER LINE	LINE ID	NUMBER	NA	NA	Line ID of the Order Number
9.5.4.7	SALES ORDER	OPERATING UNIT	VARCHAR 2	240	NA	Operating Unit Name for the Order
9.5.4.8	CUSTOMER	CUSTOMER NUMBER	VARCHAR 2	30	Customers-->Standard-->Account Number	Customer Number in Order
9.5.4.9	CUSTOMER	CUSTOMER NAME	VARCHAR 2	360	Customers-->Standard--> Customer	Customer Name in Order
9.5.4.10	CUSTOMER	CUSTOMER CATEGORY	VARCHAR 2	30	Customers-->Standard-->Customer-->Customer Account--> Profile-->Customer Category	Customer Category in Order
9.5.4.11	CUSTOMER	FE SSO	NUMBER	NA	Customers-->Standard-->Customer-->Customer Account--> Profile-->Duns Number	DUNS Number of FE
9.5.4.12	SALES ORDER	ORDER TYPE NAME	VARCHAR 2	30	Orders,Returns --> Sales orders-->Order Information-->Main-->Order Type	Order Type Name of Order
9.5.4.13	SALES ORDER TYPE	ORDER TYPE	VARCHAR 2	30	Orders,Returns --> Sales orders-->Order Information-->Main-->Order Type	Order Type of Order

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.14	SALES ORDER TYPE	ORDER TYPE CATEGORY	VARCHAR2	30	Orders,Returns --> Sales orders-->Order Information-->Main-->Order Type	Category of Order type
9.5.4.15	SALES ORDER LINE	ORDER_LINE STATUS	VARCHAR2	30	Orders,Returns --> Sales orders-->Line Items-->Main-->Status	Line Status of Order
9.5.4.16	SALES ORDER HEADER	HEADER ORDER SOURCE	VARCHAR2	240	Orders,Returns --> Sales orders-->Order Information-->Others-->Order Source	Order Source whether its DCOS/FEMC from Order Header
9.5.4.17	SALES ORDER HEADER	HEADER ORDER STATUS	VARCHAR2	30	Orders,Returns --> Sales orders-->Order Information-->Main-->Status	Order Status in Header
9.5.4.18	SALES ORDER LINE	LINE ORDER SOURCE	VARCHAR2	240	Orders,Returns --> Sales orders-->Order Information-->Line Items →Main tab→Order Source	Order Source whether its DCOS/FEMC from Order Line
9.5.4.19	SALES ORDER HEADER	RFS	VARCHAR2	50	Orders,Returns --> Sales orders-->Order Information-->Main-->Customer PO	Customer PO number
9.5.4.20	SALES ORDER LINE	LINE NUMBER	VARCHAR2	81	Orders,Returns --> Sales orders-->Line Items-->Main-->Line	Sales Order Line Number
9.5.4.21	SALES ORDER LINE	ORDERED ITEM	VARCHAR2	2000	Orders,Returns --> Sales orders-->Line Items-->Main-->Ordered Item	Sales Order Ordered Item
9.5.4.22	SALES ORDER QUANTITY	ORDERED QUANITY	NUMBER	NA	Orders,Returns --> Sales orders-->Line Items-->Main-->Quantity	Quantity of Items Ordered – cancelled quantity
9.5.4.23	SALES ORDER QUANTITY	SHIPPED QUANTITY	NUMBER	NA	Orders,Returns --> Sales orders-->Line Items-->Shipping-->Shipped Quantity	Quantity shipped
9.5.4.24	SALES ORDER QUANTITY	RESERVED QUANTITY	NUMBER	NA	Orders,Returns --> Sales orders-->Line Items-->Shipping-->Quantity	Quantity reserved
9.5.4.25	SALES ORDER LINE	UOM	VARCHAR2	3	Orders,Returns --> Sales orders-->Line Items-->Main-->UOM	Unit of Measurement of Item
9.5.4.26	ORGANIZATION	RECEIVED INTO WAREHOUSE	VARCHAR2	3	Orders,Returns --> Sales orders-->Line Items-->Shipping-->Warehouse	Received into Warehouse which is the Ship From Organization Code

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.27	SALES ORDER LINE	REQUEST DATE	DATE	NA	Orders,Returns --> Sales orders-->Line Items-->Shipping-->Request Date	Order Request Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.28	SALES ORDER LINE	PROMISE DATE	DATE	NA	Orders,Returns --> Sales orders-->Line Items-->Shipping-->Promise Date	Order Promised Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.29	SALES ORDER LINE	SCHEDULED SHIP DATE	DATE	NA	Orders,Returns --> Sales orders-->Line Items-->Shipping-->Schedule Ship Date	Scheduled Ship Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.30	SALES ORDER HEADER	SHIPMENT PRIORITY	VARCHAR2	30	Orders,Returns --> Sales orders-->Order Information-->Others-->Shipment Priority	Shipment Priority
9.5.4.31	APPLICATION DEVELOPER	SHIP METHOD	VARCHAR2	80	Application Developer-->Application-->Lookups→Select Type as SHIP_METHOD→Meaning	Ship Method in Order
9.5.4.32	APPLICATION DEVELOPER	SHIP METHOD PRIORITY	VARCHAR2	150	Application Developer-->Application-->Lookups→ Select Type as SHIP_METHOD→Common Lookups DFF→UPS Service Level	Ship Method Priority in Order
9.5.4.33	SALES ORDER HEADER	SHIPPING INSTRUCTIONS	VARCHAR2	2000	Orders,Returns --> Sales orders-->Order Information-->Others-->Shipping Instructions	Shipping Instructions in Order
9.5.4.34	SALES ORDER HEADER	PACKING INSTRUCTIONS	VARCHAR2	2000	Orders,Returns --> Sales orders-->Order Information-->Others-->Packing Instructions	Packing Instructions in Order
9.5.4.35	SALES ORDER HEADER	HEADER AUTORELEASE ENABLED FLAG	VARCHAR2	240	Order Management-->Setup-->Transaction Types→Define→Query Order Type→DFF→Use For Autorelease (Attribute 10)	Denotes the Order which has been Autoreleased in Sales Order Header
9.5.4.36	SALES ORDER HEADER	HEADER DCOS ENABLED FLAG	VARCHAR2	240	Order Management-->Setup-->Transaction Types→Define→Query Order Header Type→DFF→DCOS Order(Attribute 9)	Denotes the DCOS Orders which has been autoreleased in Sales Order Header

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.37	SALES ORDER LINE	LINE AUTORELEASE ENABLED FLAG	VARCHAR2	240	Order Management--> Setup-->Transaction Types→Define→Query Order Line Type→DFF→Use For Autorelease(Attribute 10)	Denotes the Order which has been Autoreleased in Sales Order Line
9.5.4.38	SALES ORDER LINE	LINE DCOS ENABLED FLAG	VARCHAR2	240	Order Management--> Setup-->Transaction Types→Define→Query Order Line Type→DFF→DCOS Order(Attribute 9)	Denotes the DCOS Orders which has been autoreleased in Sales Order Line
9.5.4.39	SALES ORDER HEADER	HEADER CREATION DATE	DATE	NA	Fetched from Order Record History	Order Header Creation Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.40	SALES ORDER HEADER	HEADER CREATED BY	VARCHAR2	100	Fetched from Order Record History	Order Header Created By
9.5.4.41	SALES ORDER HEADER	HEADER UPDATION DATE	DATE	NA	Fetched from Order Record History	Order Header Updation Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.42	SALES ORDER HEADER	HEADER LAST UPDATED BY	VARCHAR2	100	Fetched from Order Record History	Order Header Last Updated By User
9.5.4.43	SALES ORDER LINE	LINE CREATION DATE	DATE	NA	Fetched from Order Record History	Order Line Creation Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.44	SALES ORDER LINE	LINE CREATED BY	VARCHAR2	100	Fetched from Order Record History	Order Line Created By
9.5.4.45	SALES ORDER LINE	LINE UPDATION DATE	DATE	NA	Fetched from Order Record History	Order Line Updation Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.46	SALES ORDER LINE	LINE LAST UPDATED BY	VARCHAR2	100	Fetched from Order Record History	Order Line Last Updated By User
9.5.4.47	SALES ORDER LINE	CUSTOMER JOB	VARCHAR2	50	Orders,Returns --> Sales orders-->Line Items-->Others-->Customer Job	Customer job associated with the order
9.5.4.48	SALES ORDER LINE	SYSTEM ID	VARCHAR2	50	Orders,Returns --> Sales orders-->Line Items-->Others-->Customer Dock Code	System id passed from the CRM systems

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.49	SALES ORDER LINE	CUSTOMER PRODUCTION LINE	VARCHAR2	50	Orders,Returns --> Sales orders-->Line Items-->Others-->Customer Production Line	Customer production Line
9.5.4.50	SALES ORDER LINE	MODEL SERIAL NUMBER	VARCHAR2	50	Orders,Returns --> Sales orders-->Line Items-->Others-->Model Serial Number	Customer Model serial number attached with the product
9.5.4.51	SALES ORDER LINE	SOURCED TYPE	VARCHAR2	13	Orders,Returns --> Sales orders-->Line Items-->Lines DFF	Sourced from type, 1- Transfer from, 3- Buy from
9.5.4.52	SALES ORDER LINE	SOURCED FROM	VARCHAR2	240	Orders,Returns --> Sales orders-->Line Items-->Lines DFF	Sourced from Organization Id
9.5.4.53	SALES ORDER LINE	LINE TYPE	VARCHAR2	30	Orders,Returns --> Sales orders-->Line Items-->Mains-->Line Type	Line type of the order
9.5.4.54	SALES ORDER LINE	LINE TYPE CATEGORY	VARCHAR2	30	Orders,Returns --> Sales orders-->Line Items-->Mains-->Line Type	Line type category of the order
9.5.4.55	SALES ORDER LINE	HOLD NAME	VARCHAR2	240	Orders,Returns --> Sales orders-->Line Items-->Additional Line Information	Hold Name
9.5.4.56	CUSTOMER	FE COUNTRY	VARCHAR2	60	Customers-->Standard-->Customer	FE Country
9.5.4.57	CUSTOMER	CUSTOMER CLASS CODE	VARCHAR2	30	Customers-->Standard-->Customer	Customer Class Code
9.5.4.58	SALES ORDER	ATTRIBUTE 1	VARCHAR2	240	Orders,Returns --> Sales orders-->HeaderDFF→Invoice Notes/Order Comments	Invoice Notes/Order Comments
9.5.4.59	SALES ORDER	ATTRIBUTE 12	VARCHAR2	240	Orders,Returns --> Sales orders-->HeaderDFF→Address Line1	Address Line 1
9.5.4.60	SALES ORDER	ATTRIBUTE 13	VARCHAR2	240	Orders,Returns --> Sales orders-->HeaderDFF→Address Line2	Address Line 2
9.5.4.61	SALES ORDER	ATTRIBUTE 10	VARCHAR2	240	Orders,Returns --> Sales orders-->LineDFF→Order Line Description/Comments	Order Line Description/Comments
9.5.4.62	RECEIVING SHIPMENT HEADERS	RECEIVED ATTRIBUTE CATEGORY	VARCHAR2	30	Fetched from Receiving Shipment Headers Table (Attribute_Category)	Received Attribute Category

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.5.4.63	RECEIVING SHIPMENT HEADERS	RETURN TYPE	VARCHAR2	150	Fetched from Receiving Headers Table DFF number (Attribute 1)	Return Type(Green/Red/ or anyother)
9.5.4.64	RECEIVING SHIPMENT HEADERS	RETURN CODE	VARCHAR2	150	Fetched from Receiving Headers Table DFF(Attribute 2)	Return Code(Surplus/Debrief/DOA,etc)
9.5.4.65	RECEIVING TRANSACTIONS	RECEIPT DATE	VARCHAR2	30	Purchase Order→Receiving→Receiving Transactions Summary	Receipt Date in format 'DD-MM-YYYY HH24:MI:SS'
9.5.4.66	RMA RECEIPTS	ADDITIONAL_INFO_1	VARCHAR2	500	Purchase Order→Receiving→Received Sub-Inventory Code	Received Sub-Inventory Code
9.5.4.67	RMA RECEIPTS	ADDITIONAL_INFO_2	VARCHAR2	500	Inventory-->Setup-->Organization-->Subinventories-->Query subinventory-->DFF-->GPO inv Type (Attribute6)	Sub-inventory classification-GOOD, DEFECTIVE or REPAIR
9.5.4.68	RMA RECEIPTS	ADDITIONAL_INFO_3	VARCHAR2	500	NA	NA
9.5.4.69	RMA RECEIPTS	ADDITIONAL_INFO_4	VARCHAR2	500	NA	NA
9.5.4.70	RMA RECEIPTS	ADDITIONAL_INFO_5	VARCHAR2	500	NA	NA
9.5.4.71	RMA RECEIPTS	ADDITIONAL_INFO_6	VARCHAR2	500	NA	NA
9.5.4.72	RMA RECEIPTS	ADDITIONAL_INFO_7	VARCHAR2	500	Customers-->Standard-->Customer-->Customer Account--> Order Management -> Warehouse	FE Local warehouse
9.5.4.73	RMA RECEIPTS	ADDITIONAL_INFO_8	VARCHAR2	500	NA	NA
9.5.4.74	RMA RECEIPTS	ADDITIONAL_INFO_9	VARCHAR2	500	NA	NA
	RMA RECEIPTS	ADDITIONAL_INFO_10	VARCHAR2	500	NA	NA

9.5.5.   Process Flow

Reference	Requirement
9.5.5.1	Pick the start date and time of previous run from the GEMS_IFACE_PROCESS_TABLE table where Data Type: PARTS_SUPPLY_PO_IR_RMA and consider that as input to the date filter condition of the query against the respective last update dates.

Reference	Requirement
9.5.5.2	Purge all the records in the Part Supply staging table and reload it with new set of data.
9.5.5.3	Data extraction is done starting from the last successful extract start time of this function or between the specific date intervals passed as input to the concurrent programs.
9.5.5.4	Extract all the POs created, IRs in Approved status, BPA created and the RMA receipt details.
9.5.5.5	The extracted data is inserted into the table - GEHC_SVC_SPM_PART_SUPPLY_FEEDS

9.5.6. Business Rules

Reference	Business Entity	Rule
9.5.6.1	Data Population	Add a record in the GEMS_IFACE_PROCESS_TABLE table with: INTERFACE_NAME: GLPROD_TO_SPM_DATA_FEED PROGRAM_NAME: DAILY_SPM_PARTS_SUPPLY START_DATE: sysdate STATUS_FLAG: 'I'
9.5.6.2	PO Extraction	Fetch all the PO created for parts orgs defined within valueset- GEHC_SVC_SPM_ENABLED_WAREHOUSE. The fields to be extracted are mentioned in the Data entity for 'PO Supply'. The date range for extract is calculated by the below logic : For Frequency 'DAILY' – Data extracted since the last run of program Or For Frequency 'SPECIAL' – Data extracted within the start and last date specified in the Start date and End date parameters Or For frequency 'DAYS' – Data extracted within previous number of days specified in 'No of Days' parameter. Below is the logic of extraction as per the date range parameters : **'SPECIAL' with No. of 'DAYS' or 'DAILY'** All POs that satisfy the below logic will be picked within the extract: Extract all POs & its corresponding information which have been approved or updated in the date range provided by the program parameters or If there is any receiving transaction happened against the PO within the date range provided by the program parameters **'SPECIAL' with Data Range** Extract all POs & its corresponding information which have been approved or updated in the date range provided by the program parameters.

Reference	Business Entity	Rule
9.5.6.3	Requisitions	Fetch all the IRs which are in APPROVED status for all the parts orgs defined within valueset- GEHC_SVC_SPM_ENABLED_WAREHOUSE, as mentioned in data entity for 'Requisitions'.
9.5.6.4	BPA Extraction	Fetch all the Blanket Purchase Agreements created for all suppliers within the approved supplier list. Logic to derive the assignment set is as below:- The sourcing assignment set profile option to be derived from the valueset – GEMS_GLP_INTERFACE_VALUESET value- 'PART_SOURCE_NEWBUY_ASSIGNMENT_SET'. The Assignment set is then derived with the profile option identified at user level where user is 'GLOBALPARTS'.
9.5.6.5	RMA	Select all RMAs that has been returned by FEs and received in the Warehouse.
9.5.6.6	RMA	Select all Repair Returns received in Warehouse, order type category is 'RETURN'
9.5.6.7	UOM	The Unit of Measurement (UOM) extracted here is the primary UOM of the item.
9.5.6.8	Data Purging	Before loading any set of new data into the staging table - GEHC_SVC_SPM_PART_SUPPLY_FEEDS, purge all the records from the previous run from this table.
9.5.6.9	Data Extraction	If the START DATE and END DATE the parameter to the concurrent program is Null, The Part Supply extract is carried out starting from the last successful extract start time fetched from the table - GEMS_IFACE_PROCESS_TABLE (serves as input to the date filter condition of the extract query.) If the START DATE and END DATE parameters are not null, then the data extraction is carried out where last update date is within these date intervals. The extracted data is stored in the table- GEHC_SVC_SPM_PART_SUPPLY_FEED
9.5.6.10	Data Population	For successful completion: Update the GEMS_IFACE_PROCESS_TABLE table with the completion date and time of this execution of the function and status as 'C'. For failure: Update the GEMS_IFACE_PROCESS_TABLE table with the completion date and time of this execution of the function, status as 'E' and the error reason in the Message field.
9.5.6.11	Data Extraction	All data extracted will be incremental since the previous start time for this function in the GEMS_IFACE_PROCESS_TABLE. i) **For PO it should be compared to the last update date in line locations.** j) **For RMA's it should be the last update date in the order lines** k) **For IR's it should be the last update date on the requisition lines.**

Reference	Business Entity	Rule

9.5.6.12	Data Extraction	For Parts affiliate POs (Parts affiliate PO can be identified as POs for which a record exists in gems_ds_lines_all table where po_line_location_id is line_location_id of the PO shipment. Organization classification of both source and destination organization of the requisition for req_line_id derived from gems_ds_lines_all above should be'PARTS' (attribute7 of MTL_PARAMETERS table))
		
		If Attribute 6 of po_line_locations_all table is not null and stores line id of a sales order then
		    1. If order source of the sales order stored in attribute6 of po_line_locations all is not 'Affiliate' or
		
		    2. Order source of the sales order stored in attribute6 of po_line_locations all is 'Affiliate' and this value is same as the line id of the affiliate order created against the current Purchase order. (Sales order created against the current PO can be derived from gems_ds_lines_all table where po_line_location id is line_location_id of the PO shipment)
		
		    If above conditions are met the Update additional_info_4 of GEHC_SVC_SPM_PART_SUPPLY_FEEDS table as 'N'.
		
		    If above condition is not met then update additional_info_4 of GEHC_SVC_SPM_PART_SUPPLY_FEEDS table as 'Y'.

9.5.6.13	Data Extraction	For Affiliate, Internal, Defective and Repair POs extract the corresponding SO information (Described in in Data entity section 9.5.4.74 through 9.5.4.109). These POs can be identified using below logic **Part Affiliate PO** Parts affiliate PO can be identified as POs where ship to organization on PO shipment is 'PARTS' (attribute7 of MTL_PARAMETERS table) and for which a record exists in gems_ds_lines_all table where po_line_location_id is line_location_id of the PO shipment. **Part Internal PO** Parts internal PO can be identified as POs where ship to organization on PO shipment is 'PARTS' (attribute7 of MTL_PARAMETERS table) and Sales order line DFF of PO shipment (attribute6 of po_line_locations table) is not null and contains line id of a sales order for which order source is not 'Affiliate'). **Part Defective/Repair PO** Parts Defective and repair PO can be identified as POs where ship to organization on PO shipment is 'PARTS' (attribute7 of

Reference	Business Entity	Rule
		MTL_PARAMETERS table) and a record corresponding to that PO exists in table GEMS_PO.GEMS_PO_DEFECTIVE_SHPMNT_STG (SEGMENT1 and ORG_ID from PO_HEADERS_ALL table is PO_DOCUMENT_NUM and PO_ORG_ID from table GEMS_PO.GEMS_PO_DEFECTIVE_SHPMNT_STG respectively).
9.5.6.14	Data Extraction	Extract the Source of PO in ADDITIONAL_INFO_5 column as per the below logic: Below mentioned POs will be classified as SPM i. All BPA releases created through an approved purchase requisitions where the interface source code of requisition is 'SVC-SPM. ii. All Allocation POs created through approved internal requisitions where the interface source code of requisition is 'SVC-SPM. Requisition to allocation PO mapping can be found from GEMS_DS_LINES_ALL table where column PO_LINE_LOCATION_ID and REQ_LINE_ID are line_location id of allocation PO and requisition_line_id of requisition respectively. iii. All repair POs that have been recommended through SPM. SPM repair PO can be identified as PO for which PO Classification DFF at PO header (attribute6 of PO_HEADERS_ALL) is 'REPAIR' and a corresponding record exists in table GEMS_PO.GEMS_PO_DEFECTIVE_SHPMNT_STG (SEGMENT1 and ORG_ID from PO_HEADERS_ALL table is PO_DOCUMENT_NUM and PO_ORG_ID from table GEMS_PO.GEMS_PO_DEFECTIVE_SHPMNT_STG respectively and column PLN_TRANSACTION_ID is not null).
9.5.6.15	Data extraction	For extract type 'PO_SUPPLY_DETAILS' get the PO price from PO lines and convert it into USD using the Monthly conversion rates and populate this value in ADDITIONAL_INFO_6 column of the table GEHC_SVC_SPM_PART_SUPPLY_FEED.
9.5.6.16	Data extraction	For extract type 'RMA_RECEIPTS', get the FE local warehouse using below logic. Using the customer number from the CUSTOMER_NUMBER field of table GEHC_SVC_SPM_PART_SUPPLY_FEED derive the warehouse from HZ_CUST_ACCOUNTS table. Populate this warehouse in ADDITIONAL_INFO7 column of GEHC_SVC_SPM_PART_SUPPLY_FEED table
9.5.6.17	Data extraction	Repair POs can be identified as PO for which PO Classification DFF at PO header (attribute6 of PO_HEADERS_ALL) is 'REPAIR' Check 'Transfer' routing of PO receipt org as the 'Org' in the routing detail and the PO Item based on Item Number/Item Type and Item Category/Item Type combination as explained in document DOC0098982, section – 9.2.5.8

Reference	Business Entity	Rule

		1. If exists, compute the in-transit time from the warehouse lead time table.
		2. With 'To Org' obtained from above Transfer routing, verify if there exists any other Transfer routing with other org (repair collection center) with 'To Org' as the 'Org' of the routing detail.
		 ➢ If found, compute the in-transit time from the warehouse lead time table. Add the in-transit time obtained from 1 to it.
		  ADDITIONAL_INFO_7 = Final 'To Org'
		  ADDITIONAL_INFO_8 = Total in-transit time
		
		 ➢ If not found,
		  ADDITIONAL_INFO_7 = 'To Org' obtained in 1
		  ADDITIONAL_INFO_8 = In-transit time obtained in 1
		
		If 'Transfer' Routing doesn't exists, meaning Item will be received at the repair collection center:-
		  ADDITIONAL_INFO_7 = Receipt Org
		  ADDITIONAL_INFO_8= 0

9.5.6.18	Data extraction	value for PO LINE LOCATION CREATED BY and PO LINE LOCATION LAST UPDATED BY fields will be derived using below logic: **SPM Generated PO** For External Newbuy (Releases created through Purchase requisition), Internal Newbuy and Allocation PO (PO created through demand sourcing) where interface source for of requisition is 'SVC-SPM' PO LINE LOCATION CREATED BY can be derived from the REFERENCE_NUM field in requisition line table where SSO will be mentioned after the text 'SSO:' and before the delimeter '|'. (For SPM created PO requisition line contains the text SSO:<SSO number>|ID:<Transaction id of SPM>) Using this SSO username can be derived and both SSO and user name will be populated in Created by field. If no SSO is found, then populate the created by field as 'SPM'. **Non SPM generated PO** For External Newbuy (Releases created through Purchase requisition), Internal Newbuy and Allocation PO (PO created through demand sourcing) where interface source for of requisition is other than 'SVC-SPM' PO LINE LOCATION CREATED BY can be derived from the created by field from requisition lines. derive the SSO and username of the person who created the requisition line and update it in PO LINE LOCATION CREATED BY.

9.5.7. Translations/Transformations (Interfaces Only)

There will be no transformation/translation of data at oracle end. The data extracted will be captured by MW and stored in the AWS DB for any further processing top SPM cloud.

9.5.8. Initiation

The function will be part of a concurrent program with frequency as the parameter. The parameter frequency can have any one value of DAILY or SPECIAL.
The concurrent will program will also have an optional parameter 'START DATE' and 'END DATE' to enable the data to be fetched between a particular date interval.

9.5.9. Error Handling, Reprocessing / Rollback & Error Messaging

Any error during program execution will be logged into GEMS_IFACE_PROCESS_TABLE table.

▉ Function: Extract Onhand Information

9.6.1. Approach / Description

Take a snapshot of total onhands of parts present in all sub inventories along with the reserved quantity onhands. This extract also included the onhands for FE and PUDO FE's from the service orgs.

Whenever the function is invoked, a respective entry, highlighting the interface name, Is created in custom table - GEMS_IFACE_PROCESS_TABLE to allow easy debugging incase of any issue.

Before extraction of data, the custom table where the extracts are stored for the previous run are purged completely for the corresponding interface name and are loaded with a new set of data, making it a flush and fill type of extraction.

9.6.2. Inputs

Organization to be considered is included in the value set- GEHC_SVC_SPM_ENABLED_WAREHOUSE need to be considered. Data elements to be considered are highlighted in the section 9.5.4

9.6.3. Outputs

At the start and end of this program, the corresponding entries must be made into the GEMS_IFACE_PROCESS_TABLE specifying the date and time for interface name: ORACLE_TO_SPM_DAILY and program name: PART_ONHAND. The extracted records are stored into the table- GEHC_SVC_SPM_PART_ONHAND_FEED.

9.6.4. Data Entity

The data elements for the Onhand Information for Warehouse Onhand and Service Organization Onhand.

1. For Warehouse Onhand : The data entity of the Onhand Information for Warehouse Onhand are :

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.6.4.1.1	Data Type	Data type	VARCHAR2	20	Constant	PART_ONHAND
9.6.4.1.2	Data Frequency	Data Frequency	VARCHAR2	10	NA	DAILY – as passed in the concurrent program parameter.
9.6.4.1.3	On-hand Quantity	EXTRACT TYPE	VARCHAR2	10	NA	Constant : WH-ONHAND
9.6.4.1.4	On-hand Quantity	ITEM NUMBER	VARCHAR2	40	Inventory→onhand, availability→select item number	Item Number
9.6.4.1.5	On-hand Quantity	ORGANIZATION CODE	VARCHAR2	3	Inventory→onhand, availability→select inventory code	Inventory Organization Code For Defective onhands Organization Code is calculated as mentioned in section As mentioned section 9.6.5.4
9.6.4.1.6	On-hand Quantity	SUBINVENTORY CODE	VARCHAR2	10	Inventory→onhand, availability→select inventory code→ Query Material→subinventory	Sub-Inventory Code
9.6.4.1.7	On-hand Quantity	ASSET FLAG	NUMBER		Inventory-->Setup-->Organization-->Subinventories-->Query subinventory-->Asset subinventory	Asset Subinventory flag- attribute of a subinventory

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.6.4.1.8	On-hand Quantity	SUBINVENTORY CLASSIFICATION	VARCHAR2	150	Inventory-->Setup-->Organization-->Subinventories-->Query subinventory-->DFF-->GPO inv Type (Attribute6)	Sub-inventory classification- GOOD, DEFECTIVE or REPAIR
9.6.4.1.9	On-hand Quantity	SUBINVENTORY STATUS	VARCHAR2	80	Inventory-->Setup-->Organization-->Subinventories-->Query subinventory-->Status	Available – Reserved Quantity
9.6.4.1.10	On-hand Quantity	SUBINVENTORY DESCRIPTION	VARCHAR2	50	Inventory-->Setup-->Organization-->Subinventories-->Query subinventory-->Description	Description of the Subinventory
9.6.4.1.11	On-hand Quantity	QUANTITY TRACKED	NUMBER	NA	Inventory-->Setup-->Organization-->Subinventories-->Query subinventory-->Quantity Tracked	Quantity tracked flag flag- attribute of a subinventory
9.6.4.1.12	On-hand Quantity	TOTAL ONHAND QUANTITY	NUMBER	NA	Inventory-->Onhand,Availability-->on-hand quantity-->select inv org-->Item-->Find-->total quantity	Sum of ohand quantity in a subinventory
9.6.4.1.13	On-hand Quantity	RESERVED ONHAND QUANTITY	NUMBER	NA	Inventory-->Onhand,Availability-->on-hand quantity-->select inv org-->Item-->Find-->total reserved quantity	Sum of reserved quantity in a subinventory

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.6.4.1.14	On-hand Quantity	ADDITIONAL_INFO_1	VARCHAR2	500	Check the organization code and subinventory code concatenated with '-' as an enabled value in value set 'GEHC_SVC_SPM_SUBINV_TYPES' and derive the information from the description column against this value.	SPM Enabled Subinv
9.6.4.1.15	On-hand Quantity	ADDITIONAL_INFO_2	VARCHAR2	500	Frozen cost of the item in the organization converted into USD	Frozen Cost
9.6.4.1.16	On-hand Quantity	ADDITIONAL_INFO_3	VARCHAR2	500	NA	NA
9.6.4.1.17	On-hand Quantity	ADDITIONAL_INFO_4	VARCHAR2	500	NA	NA
9.6.4.1.18	On-hand Quantity	ADDITIONAL_INFO_5	VARCHAR2	500	NA	NA
9.6.4.1.19	On-hand Quantity	ADDITIONAL_INFO_6	VARCHAR2	500	Subinventories -> Disable Date	Disable Date
9.6.4.1.20	On-hand Quantity	ADDITIONAL_INFO_7	VARCHAR2	500	NA	NA
9.6.4.1.21	On-hand Quantity	ADDITIONAL_INFO_8	VARCHAR2	500	NA	As mentioned section 9.6.5.4
9.6.4.1.22	On-hand Quantity	ADDITIONAL_INFO_9	VARCHAR2	500	NA	As mentioned section 9.6.5.4
9.6.4.1.23	On-hand Quantity	ADDITIONAL_INFO_10	VARCHAR2	500	NA	NA

2.For Service Org Onhand : The data entity of the Onhand Information for Service Organization Onhand are :

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.6.4.2.1	Data Type	Data type	VARCHAR2	20	Constant	PART_ONHAND

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.6.4.2.2	Data Frequency	Data Frequency	VARCHAR 2	10	NA	DAILY – as passed in the concurrent program parameter.
9.6.4.2.3	On-hand Quantity	EXTRACT TYPE	VARCHAR 2	10	NA	Constant : SVC-ONHAND
9.6.4.2.4	On-hand Quantity	ITEM NUMBER	VARCHAR 2	40	Inventory→onhand, availability→select Part Number	Item Number
9.6.4.2.5	On-hand Quantity	ORGANIZATION CODE	VARCHAR 2	3	Inventory→onhand, availability→select inventory code	Inventory Organization Code
9.6.4.2.6	On-hand Quantity	SUBINVENTORY CODE	VARCHAR 2	10	Inventory→onhand, availability→select inventory code→ Query Material→subinentory	Sub-Inventory Code
9.6.4.2.7	On-hand Quantity	ASSET FLAG	NUMBER	NA	Inventory-->Setup-->Organization-->Subinventories-->Query subinventory-->Asset subinventory	Asset Subinventory flag- attribute of a subinventory
9.6.4.2.8	On-hand Quantity	SUBINVENTORY CLASSIFICATION	VARCHAR 2	150	Inventory-->Setup-->Organization-->Subinventories-->Query subinventory-->DFF-->GPO inv Type(Attribute6)	Sub-inventory classification-GOOD, DEFECTIVE or REPAIR
9.6.4.2.9	On-hand Quantity	SUBINVENTORY STATUS	VARCHAR 2	80	Inventory-->Setup-->Organization-->Subinventories-->Query subinventory-->Status	Subinventory Status
9.6.4.2.10	On-hand Quantity	SUBINVENTORY DESCRIPTION	VARCHAR 2	50	Inventory-->Setup-->Organization-->Subinventories-->Query subinventory-->Description	Description of the Subinventory

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.6.4.2.11	On-hand Quantity	QUANTITY TRACKED	NUMBER	NA	Inventory-->Setup-->Organization-->Subinventories-->Query subinventory-->Quantity Tracked	Quantity tracked flag flag- attribute of a subinventory
9.6.4.2.12	On-hand Quantity	TOTAL ONHAND QUANTITY	NUMBER	NA	Inventory-->Onhand,Availability-->on-hand quantity-->select inv org-->Item-->Find-->total quantity	Sum of ohand quantity in a subinventory within a specific locator and lot number
9.6.4.2.13	On-hand Quantity	CONSIGNMENT NUMBER	VARCHAR2	80	Inventory-->Onhand,Availability-->on-hand quantity-->select service inv org-->Choose Item,subinventory, locator -->Lot Number	Order Number for which FE Consignment is created.
9.6.4.2.14	On-hand Quantity	DATE RECEIVED	DATE	NA	Inventory-->Material Transactions-->Find by Item/Lot Number-->Transaction Date	Receipt Date in format 'DD-MM-YYYY HH24:MI:SS'
9.6.4.2.15	On-hand Quantity	FE DETAILS	VARCHAR2	800	Customers→Find Customer→Profile →DUNS Number	Concatenated segments of FE SSO, FE Country and FE Name separated in a pipe delimited format.

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.6.4.2.16	On-hand Quantity	ADDITIONAL_INFO_1	VARCHAR2	500	Check the organization code and subinventory code concatenated with '-' as an enabled value in value set 'GEHC_SVC_SPM_SUBINV_TYPES' and derive the information from the description column against this value. The condition for deriving the value is as mentioned in Section 9.6.6.10	SPM Enabled Subinv
9.6.4.2.17	On-hand Quantity	ADDITIONAL_INFO_2	VARCHAR2	500	Frozen cost of the item in the organization converted into USD	Frozen Cost
9.6.4.2.18	On-hand Quantity	ADDITIONAL_INFO_3	VARCHAR2	500	Locator	Transaction Location
9.6.4.2.19	On-hand Quantity	ADDITIONAL_INFO_4	VARCHAR2	500	Customer class code	Customer Class code
9.6.4.2.20	On-hand Quantity	ADDITIONAL_INFO_5	VARCHAR2	500	Primary PUDO Location	Primary PUDO Location concatenated with DUNS NUMBER by '|' delimiter.
9.6.4.2.21	On-hand Quantity	ADDITIONAL_INFO_6	VARCHAR2	500	Subinventories -> Disable Date	Disable Date
9.6.4.2.22	On-hand Quantity	ADDITIONAL_INFO_7	VARCHAR2	500	Customers→Find Customer -> Order Management -> Warehouse	FE Local Warehouse
9.6.4.2.23	On-hand Quantity	ADDITIONAL_INFO_8	VARCHAR2	500	NA	NA
9.6.4.2.24	On-hand Quantity	ADDITIONAL_INFO_9	VARCHAR2	500	NA	NA
9.6.4.2.25	On-hand Quantity	ADDITIONAL_INFO_10	VARCHAR2	500	NA	NA

9.6.5. Process Flow

Reference	Requirement
9.6.5.1	An entry is made into in the GEMS_IFACE_PROCESS_TABLE with respective extract start times
9.6.5.2	Purge all the records in the Part Onhand staging table and reload it with new set of data.
9.6.5.3	Extract all the available and reserved items onhand for all the organizations defined under the valueset- GEHC_SVC_SPM_ENABLED_WAREHOUSE from all subinventories except the defective subinventories. Onhand from defective subinventories will be extracted as per step below

9.6.5.4	**Total Defective Onhand**
	
	Compute the onhand from the defective subinventories (ATTRIBUTE6=DEFECTIVE) (e.g. WHBxxxBAD) of DC and WAREHOUSE of PARTS organizations.
	
	For each of the Item- Org combination determine if there exists a 'Transfer' routing based on Item Number/Item Type and Item Category/Item Type combination as explained in document DOC0098982, section – 9.2.5.8
	
	1. If exists, compute the in-transit time from the warehouse lead time table.
	2. With 'To Org' obtained from above Transfer routing, verify if there exists any other Transfer routing with any different Pole repair collection center with 'To Org' as the 'Org' of the routing detail.
	    ➢ If found, compute the in-transit time from the warehouse lead time table. Add the in-transit time obtained from 1 to it.
	    ORGANIZATION_CODE= Final 'To Org'
	    DATE_RECEIVED = Sysdate + total in-transit time
	    ADDITIONAL_INFO_8= Initial child org
	    TOTAL_QUANTITY=quantity in the onhand org-reserved quantity
	
	    ➢ If not found,
	    ORGANIZATION_CODE= 'To Org' obtained in 1
	    DATE_RECEIVED = Sysdate + in-transit time obtained in 1
	    ADDITIONAL_INFO_8= Onhand org
	    TOTAL_QUANTITY=quantity in the onhand org-reserved quantity
	
	If 'Transfer' Routing doesn't exists, meaning Item is at the repair collection center:-
	    ORGANIZATION_CODE= Actual onhand org
	    DATE_RECEIVED = NULL
	    ADDITIONAL_INFO_6= NULL
	    TOTAL_QUANTITY=quantity in the onhand org (including reserved quantity)
	    RESERVED_QUANTITY=reserved qty in that org

Reference	Requirement
	If Item has item category set- GEHC GPO CAT SET from GPO org has category value as GPO.SwAP, then item is considered as Swap item If it's a swap item, check its warranty status for the onhand lpn in the Swap receiving table (GE_GPO_SWAP_RECEIVING) and pass the value in additional_info_9
9.6.5.5	Extract all the FE/PUDO FE's onhand from the service inventory
9.6.5.6	The extracted data is inserted into the table - GEHC_SVC_SPM_PART_ONHAND_FEEDS

9.6.6.   Business Rules

Reference	Business Entity	Rule
9.6.6.1	Data Population	Add a record in the GEMS_IFACE_PROCESS_TABLE table with: INTERFACE_NAME: GLPROD_TO_SPM_DATA_FEED PROGRAM_NAME: DAILY_SPM_PART_ONHAND START_DATE: sysdate STATUS_FLAG: 'I'
9.6.6.2	Organization	Inventory Organizations to be considered are defined under the value set GEHC_SVC_SPM_ENABLED_WAREHOUSE
9.6.6.3	Subinventory	Select sum of primary onhand quantities of a part from all the subinventories within an org.
9.6.6.4	Subinventory	Select the sum of reserved quantities of the parts whose onhand quantity was computed in 9.6.6.3 within a subinventory.
9.6.6.5	Onhand	Exclude Onhands from all Organizations for shelf life controlled parts which has expired. i.e the lot expiration date is greater than the system date.
9.6.6.6	Onhand	The service onhand is fetched for a specific locator and a specific consignment created within that locator. The locator is tied with a FE.
9.6.6.7	FE DETAILS	Derive the Fe details from the locator id, where the consignment is created. This Locator is linked to the FE customer setup where the locator is added at the account level DFF of the customer setup(attribute9).
9.6.6.8	Data Purging	Before loading any set of new data into the staging table - GEHC_SVC_SPM_PART_ONHAND_FEEDS, purge all the records from the previous run from this table.
9.6.6.9	Data Extraction	The extract will take a union of all the warehouse extract mentioned in 9.6.4.1 and the service onhands extract mentioned in 9.6.4.2

Reference	Business Entity	Rule
9.6.6.10	Data Extraction	SPM Enabled Subinv will be derived from the value set 'GEHC_SVC_SPM_SUBINV_TYPES' (mentioned in the Appendix section) in GLPROD which will store Organization, Subinv and a flag to tell the system whether onhand from this subinv should be considered for SPM or not. If the value (<Organization_code>-<Subinventory>) is not enabled, then the value for SPM Enabled Subinv field will be 'N'. If the value (<Organization_code>-<Subinventory>) is enabled, then the value for SPM Enabled Subinv field will be taken as the information mentioned in the description field ('Y'/'N'). If the value (<Organization_code>-<Subinventory>) is not present in the value set then the SPM Enabled Subinv will be sent as 'N'.
9.6.6.11	Data extraction	The extracted data is stored in the table-GEHC_SVC_SPM_PART_ONHAND_FEEDS. No date filter condition is used here.
9.6.6.12	Data Population	For successful completion: Update the GEMS_IFACE_PROCESS_TABLE table with the completion date and time of this execution of the function and status as 'C'. For failure: Update the GEMS_IFACE_PROCESS_TABLE table with the completion date and time of this execution of the function, status as 'E' and the error reason in the Message field.
9.6.6.13	Data extraction	Extract Frozen cost in USD in ADDITIONAL_INFO_2 column of table GEHC_SVC_SPM_PART_ONHAND_FEEDS. This cost in the corresponding currency of the organization can be derived from costing tables for the given item and organization combination and cost type 'Frozen'. This value will then be converted into currency USD from the currency of the organization using the currency conversion factor.
9.6.6.14	Data extraction	For records belonging to Service orgs (attribute7 and attribute11 of mtl_parameters as 'PARTS' and 'SERVICE respectively) extract the locator name and populate it in ADDITIONAL_INFO_3 column of table GEHC_SVC_SPM_PART_ONHAND_FEEDS
9.6.6.15	Data extraction	For the locator derived in above step, derive the customer class code from hz_cust_accounts. Each locator in Service orgs are associated with an FE or PUDO customer. This locator to Customer (FE/PUDO) mapping is derived as below. Attribute9 of hz_cust_accounts is populated with the FE/PUDO customer's locator.

Reference	Business Entity	Rule
		Extract the customer class code and populate it in ADDITIONAL_INFO_4 column of table GEHC_SVC_SPM_PART_ONHAND_FEEDS
9.6.6.16	Data extraction	ADDITIONAL_INFO_5 (Primary PUDO location) can be derived from the Customer account relationship for an FE customer (category code from hz_parties table is 'GPO_FE_CUSTOMER') where related customer is the PUDO Customer (customer class code in 'GPO_PUDO_WAREHOUSE','GPO_PUDO_SSL''GPO_PUDO_CUSTOMER','GPO_PUDO_TRANSIT') having the least value in field 'Related Customer Rank'(In case of multiple records fetched for PUDO customers with no/same rank assigned, need to choose any one value using rownum 1) For the given related PUDO customer, derive the locator assigned.. Locator information for a PUDO is maintained at the attribute9 of hz_cust_accounts table. Populate this location in ADDITIONAL_INFO_5 column. FE to PUDO Customer mapping is shown in Appendix.
9.6.6.17	Data Extraction	Derive the disable date from subinventory where onhand is present and populate it in the ADDITIONAL_INFO_6 column of the table GEHC_SVC_SPM_PART_ONHAND_FEED.
9.6.6.18	Data extraction	For the locator derived in step 9.6.6.14, derive the warehouse from hz_cust_accounts. Each locator in Service orgs is associated with an FE or PUDO customer. This locator to Customer (FE/PUDO) mapping is derived as below. Attribute9 of hz_cust_accounts is populated with the FE/PUDO customer's locator. Extract the customer class code and populate it in ADDITIONAL_INFO_7 column of table GEHC_SVC_SPM_PART_ONHAND_FEED

9.6.7. Translations/Transformations (Interfaces Only)

There will be no transformation/translation of data at oracle end. The data extracted will be captured by MW and stored in the AWS DB for any further processing based on any business logics.

9.6.8. Initiation

The function will be part of a concurrent program with frequency as the parameter. The parameter frequency can have only one value of DAILY.

9.6.9.   Error Handling, Reprocessing / Rollback & Error Messaging

None

▉Function: Extract Part Transactions Information

9.7.1.   Approach / Description

Organizations to be considered are included in the valueset- GEHC_SVC_SPM_WH_DETAILS need to be considered. The transaction types to be considered within a warehouse is defined in valueset- GEHC_SVC_SPM_TXN_DETAILS.
Whenever the function is invoked, a respective entry, highlighting the interface name, Is created in custom table - GEMS_IFACE_PROCESS_TABLE to allow easy debugging incase of any issue. Data extraction is done starting from the last extracted start time of the function obtained from the table- GEMS_IFACE_PROCESS_TABLE.

Before extraction of data, the custom table where the extracts are stored for the previous run are purged completely for the corresponding interface name and are loaded with a new set of data by using the last extract start run date/time as input for the next set of extraction or a between a specific date intervals passed as input to the concurrent program.

The new set of data extracted will be appended to the previous set stored in the AWS layer making it an incremental type of extract.

9.7.2.   Inputs

Organizations to be considered are included in the valueset- GEHC_SVC_SPM_WH_DETAILS need to be considered. The transaction types to be considered within a warehouse is defined in valueset- GEHC_SVC_SPM_TXN_DETAILS

9.7.3.   Outputs

At the start and end of this program, the corresponding entries must be made into the GEMS_IFACE_PROCESS_TABLE specifying the date and time for interface name: ORACLE_TO_SPM_DAILY and program name: PART_TXN. The extracted records are stored into the table GEHC_SVC_SPM_PART_TXN_FEED.

9.7.4.   Data Entity

The data entity of the Part Transactions Information are :

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.7.4.1	Data Type	Data type	VARCHAR2	20	Constant	PART_TRANSACTIONS
9.7.4.2	Data Frequency	Data Frequency	VARCHAR2	10	Constant	DAILY – as passed in the concurrent program parameter. SPECIAL- when the extract runs for a specified date interval passed as parameter to the concurrent program
9.7.4.3	Material Transactions	EXTRACT TYPE	CHAR	21	NA	Constant : MATERIAL_TRANSACTIONS
9.7.4.4	Material Transactions	TRANSCATION TYPE NAME	VARCHAR2	80	Inventory-->Material Transactions-->Find by Item/Transaction Date Range-->Transaction Type Tab → Transaction Type	Transaction Type Name
9.7.4.5	Material Transactions	TRANSACTION SOURCE NAME	VARCHAR2	80	Inventory-->Material Transactions--> Find by Item/Transaction Date Range-->Transaction Type Tab → Source	Transaction Source Name
9.7.4.6	Material Transactions	TRANSACTION REFERENCE	VARCHAR2	240	Inventory-->Material Transactions--> Find by Item/Transaction Date Range →Reason, Reference Tab→Reference	Transaction Reference
9.7.4.7	Material Transactions	TRANSACTION CODE	VARCHAR2	81	Inventory-->Setup-->Account Aliases-->Alias	Fetch Concatenated Segment1 and Segment2 separated by a dot.
9.7.4.8	Material Transactions	ORGANIZATION CODE	VARCHAR2	3	Inventory-->Material Transactions-->Find by Item/Transaction Date Range --> Organization	Organization Code derived from the Organization Name

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.7.4.9	Material Transactions	ITEM NUMBER	VARCHAR2	40	Inventory-->Material Transactions--> Find by Item/Transaction Date Range --> Item	Part Number
9.7.4.10	Material Transactions	SUBINVENTORY CODE	VARCHAR2	10	Inventory-->Material Transactions--> Find by Item/Transaction Date Range --> Subinventory	Name of the Subinventory
9.7.4.11	Material Transactions	INVENTORY LOCATOR	VARCHAR2	204	Inventory-->Material Transactions--> Find by Item/Transaction Date Range --> Locator	Locator Information.
9.7.4.12	Material Transactions	PRIMARY QUANTITY	NUMBER	NA	Inventory-->Material Transactions--> Find by Item/Transaction Date Range --> Transaction Quantity	Quantity of the item
9.7.4.13	Material Transactions	TRANSACTION DATE	DATE	NA	Inventory-->Material Transactions--> Find by Item/Transaction Date Range --> Transaction Date	Date of the Transaction in format 'DD-MM-YYYY HH24:MI:SS'
9.7.4.14	Material Transactions	ATTRIBUTE CATEGORY	VARCHAR2 30 30		Inventory-->Material Transactions--> Find by Item/Transaction Date Range -->	Determines the Attribute Category
9.7.4.15	Material Transactions	ATTRIBUTE1	VARCHAR2	150	Inventory-->Material Transactions-->Find by Item/Lot Number-->Material transaction DFF	Material Transaction Attribute Identifiers
9.7.4.16	Material Transactions	ATTRIBUTE2	VARCHAR2	150	Inventory-->Material Transactions-->Find by Item/Lot Number-->Material transaction DFF	Material Transaction Attribute Identifiers

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.7.4.17	Material Transactions	ATTRIBUTE3	VARCHAR 2	150	Inventory-->Material Transactions-->Find by Item/Lot Number-->Material transaction DFF	Material Transaction Attribute Identifiers
9.7.4.18	Material Transactions	ATTRIBUTE4	VARCHAR 2	150	Inventory-->Material Transactions-->Find by Item/Lot Number-->Material transaction DFF	Material Transaction Attribute Identifiers
9.7.4.19	Material Transactions	ATTRIBUTE5	VARCHAR 2	150	Inventory-->Material Transactions-->Find by Item/Lot Number-->Material transaction DFF	Material Transaction Attribute Identifiers
9.7.4.20	Material Transactions	ATTRIBUTE6	VARCHAR 2	150	Inventory-->Material Transactions-->Find by Item/Lot Number-->Material transaction DFF	Material Transaction Attribute Identifiers
9.7.4.21	Material Transactions	ATTRIBUTE7	VARCHAR 2	150	Inventory-->Material Transactions-->Find by Item/Lot Number-->Material transaction DFF	Material Transaction Attribute Identifiers
9.7.4.22	Material Transactions	ATTRIBUTE8	VARCHAR 2	150	Inventory-->Material Transactions-->Find by Item/Lot Number-->Material transaction DFF	Material Transaction Attribute Identifiers
9.7.4.23	Material Transactions	ATTRIBUTE9	VARCHAR 2	150	Inventory-->Material Transactions-->Find by Item/Lot Number-->Material transaction DFF	Material Transaction Attribute Identifiers

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.7.4.24	Material Transactions	ATTRIBUTE10	VARCHAR2	150	Inventory-->Material Transactions-->Find by Item/Lot Number-->Material transaction DFF	Material Transaction Attribute Identifiers
9.7.4.25	Material Transactions	ATTRIBUTE11	VARCHAR2	150	Inventory-->Material Transactions-->Find by Item/Lot Number-->Material transaction DFF	Material Transaction Attribute Identifiers
9.7.4.26	Material Transactions	ATTRIBUTE12	VARCHAR2	150	Inventory-->Material Transactions-->Find by Item/Lot Number-->Material transaction DFF	Material Transaction Attribute Identifiers
9.7.4.27	Material Transactions	ATTRIBUTE13	VARCHAR2	150	Inventory-->Material Transactions-->Find by Item/Lot Number-->Material transaction DFF	Material Transaction Attribute Identifiers
9.7.4.28	Material Transactions	ATTRIBUTE14	VARCHAR2	150	Inventory-->Material Transactions-->Find by Item/Lot Number-->Material transaction DFF	Material Transaction Attribute Identifiers
9.7.4.29	Material Transactions	ATTRIBUTE15	VARCHAR2	150	Inventory-->Material Transactions-->Find by Item/Lot Number-->Material transaction DFF	Material Transaction Attribute Identifiers
9.7.4.30	Material Transactions	SOURCE LINE ID	NUMBER	NA	NA	Source Line Id from Material Transactions

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.7.4.31	Material Transactions	TRANSACTION_ID	NUMBER	NA	Inventory-->Material Transactions-->Find by Item/Lot Number-->Transaction ID	Transaction Id from Material Transactions
9.7.4.32	Material Transactions	ADDITIONAL_INFO_1	VARCHAR2	500	**DUNS Number** Customer→Standard → Customer→ Customer Account → Profile→Duns Number	DUNS Number of FE
9.7.4.33	Material Transactions	ADDITIONAL_INFO_2	VARCHAR2	500	Customers > Standard -> Account -> classification	Customer Class code
9.7.4.34	Material Transactions	ADDITIONAL_INFO_3	VARCHAR2	500	Primary PUDO Location	Primary PUDO Location concatenated with DUNS number by '|' delimiter
9.7.4.35	Material Transactions	ADDITIONAL_INFO_4	VARCHAR2	500	**FE Local Warehouse** Customer→Standard → Customer→ Customer Account → Order Management →Warehouse	FE's local warehouse for all transactions i.e. FE local warehouse for all service org transactions as well as FE Demand orders, RMAs and GPO RMA Receipts
9.7.4.36	Material Transactions	ADDITIONAL_INFO_5	VARCHAR2	500	Sales Order Header Warehouse.	Order Header Warehouse Fetch the warehouse of the order header where Source Line Id from Material Transactions matches with line id of order headers.
9.7.4.37	Material Transactions	ADDITIONAL_INFO_6	VARCHAR2	500	Transfer organization code	Transfer organization code
9.7.4.38	Material Transactions	ADDITIONAL_INFO_7	VARCHAR2	500	NA	NA
9.7.4.39	Material Transactions	ADDITIONAL_INFO_8	VARCHAR2	500	NA	NA

Reference	Data Entity	Field	Data Type	Length	Navigation	Description
9.7.4.40	Material Transactions	ADDITIONAL _INFO_9	VARCHAR 2	500	NA	NA
9.7.4.41	Material Transactions	ADDITIONAL _INFO_10	VARCHAR 2	500	NA	NA

9.7.5. Process Flow

Reference	Requirement
9.7.5.1	Make an entry into the GEMS_IFACE_PROCESS_TABLE with start time of this function
9.7.5.2	Purge all the records in the Part Transaction staging table and reload it with new set of data.
9.7.5.3	Data extraction is done starting from the last successful extract start time of this function or between the specific date intervals passed as input to the concurrent programs.
9.7.5.4	Extract all the material transactions data for all warehouses included in the value set : GEHC_SVC_SPM_TXN_DETAILS.
9.7.5.5	The extracted data is inserted into the table - GEHC_SVC_SPM_PART_TXN_FEEDS

9.7.6. Business Rules

Reference	Business Entity	Rule
9.7.6.1	Data Population	Add a record in the GEMS_IFACE_PROCESS_TABLE table with: INTERFACE_NAME: GLPROD_TO_SPM_DATA_FEED PROGRAM_NAME: DAILY_SPM_PART_TRANSACTIONS START_DATE: sysdate STATUS_FLAG: 'I'
9.7.6.2	Warehouse Details	List of all Warehouses which needs to be considered for Part Transactions Extract are listed in the value set : GEHC_SVC_SPM_WH_DETAILS
9.7.6.3	Transaction Types	Valueset- GEHC_SVC_SPM_TXN_DETAILS holds all the material transaction types to be used within a warehouse. The warehouse to be considered are defined in the above section 9.7.6.2 Screenshot attached showing the dependency of the two valuesets.
9.7.6.4	Transaction Code	If transaction type name is ''Account Alias Receipt'', fetch the values of segment1 and segment2 as mentioned in 9.7.4.7 , else populate the value of the field as NA.

9.7.6.5	Data Purging	Before loading any set of new data into the staging table - GEHC_SVC_SPM_PART_TXN_FEEDS, purge all the records from the previous run.
9.7.6.6	Data extraction	If the START DATE and END DATE the parameter to the concurrent program is Null, The part transaction extract is carried out starting from the successful last extract start time fetched from the table - GEMS_IFACE_PROCESS_TABLE (serves as input to the date filter condition of the extract query. If the START DATE and END DATE parameters are not null, then the data extraction is carried out where last update date is within these date intervals. The extracted data is stored in the table-GEHC_SVC_SPM_PART_TXN_FEEDS
9.7.6.7	Data Population	For successful completion: Update the GEMS_IFACE_PROCESS_TABLE table with the completion date and time of this execution of the function and status as 'C'. For failure: Update the GEMS_IFACE_PROCESS_TABLE table with the completion date and time of this execution of the function, status as 'E' and the error reason in the Message field.
9.7.6.8	Field Engineer SSO Details	The FE SSO needs to be sent as a part of the Transaction extract so that the transactions for the respective field engineers is traceable in the down-chain systems, which will be helpful for further planning related algorithms. All transactions performed in a Parts service organization (Parts service organizations can be identified from table mtl_parameters where attribute 7 is 'PARTS' and attribute11 is 'SERVICE') will be against an FE. Each FE has 1 good locator (Known as LCT or SAV) and 2 defective locators (DUE and RET) assigned to them. (Details of sub-inventory classification as GOOD/DEFECTIVE is mentioned in appendix) All customers having customer category (in hz_parties table) as 'GPO_FE_CUSTOMER' are FE customers and their is maintained in the DUNS_NUMBER_C field (in hz_parties table).FE's good locator is maintained in attribute9 of hz_cust_accounts table.

		For every transaction performed in a service organization, FE SSO corresponding to the locator where transaction is performed need to be derived using below logic: - 1. If transaction is performed in FE's good locator (first segment of the locator is 'LCT' or 'SAV') then derive the FE SSO based on this locator (FE customer to location association is explained above) 2. If transaction is performed in FE' defective locator (first segment of the locator is 'DUE' or 'RET') then derive FE good locator by replacing the first segment of the defective locator to 'LCT' or 'SAV' and then derive the FE SSO based on the derived good locator For rest scenarios FE SSO fetched will be blank
9.7.6.9	Customer Class Code	All transactions performed in a Parts service organization (Parts service organizations can be identified from table mtl_parameters where attribute 7 is 'PARTS' and attribute11 is 'SERVICE') will be against either an FE or PUDO Customer. Each FE/PUDO has 1 good locator (Known as LCT or SAV) and 2 defective locators (DUE and RET) assigned to them. (Details of sub-inventory classification as GOOD/DEFECTIVE is mentioned in appendix). All transactions for an FE/PUDO are performed in these 3 locators. If transaction is performed in FE' defective locator (first segment of the locator is 'DUE' or 'RET') then derive FE good locator by replacing the first segment of the defective locator to 'LCT' or 'SAV' and then derive the FE SSO based on the derived good locator. For transaction performed in a Parts service organization derive the customer class code using the FE locator derived above. FE/PUDO good locator is maintained in attribute9 of hz_cust_accounts table. Populate this value in ADDITIONAL_INFO_2 field of GEHC_SVC_SPM_PART_TXN_FEED table
9.7.6.10	Primary PUDO Location	ADDITIONAL_INFO_3 (Primary PUDO location) can be derived from the Customer account relationship for an FE customer (category code from hz_parties table is 'GPO_FE_CUSTOMER') where related customer is the PUDO Customer (customer class code in 'GPO_PUDO_WAREHOUSE','GPO_PUDO_SSL''GPO_PUDO_CUSTOMER','GPO_PUDO_TRANSIT') having the least value in field 'Related Customer Rank'(In case of multiple records fetched for PUDO

		customers with no/same rank assigned, need to choose any one value using rownum 1) . For the given related PUDO customer, derive the locator assigned. Locator information for a PUDO is maintained at the attribute9 of hz_cust_accounts table. Populate this location in ADDITIONAL_INFO_3 column. FE Customer association to a locator can be derived using the below logic: FE good locator is maintained in attribute9 of hz_cust_accounts table. FE to PUDO Customer mapping is shown in Appendix.
9.7.6.11	FE Local Warehouse	Derive the FE local warehouse using below logic For RMA Receipt Get the RMA line number using the trx_source_line_id field of the transaction (RMA line id is the trx_source_line_id of transaction). Using the RMA line sold_to_org_id derive the warehouse from hz_cust_accounts table(sold_to_org_id of oe_order_lines_all table is the cust_account_id of the hz_cust_accounts table) For Demand orders and GPO RMA Receipt Get the order line number using the source_line_id field of the transaction (order line id is the source_line_id of transaction). Using the order line sold_to_org_id derive the warehouse from hz_cust_accounts table(sold_to_org_id of oe_order_lines_all table is the cust_account_id of the hz_cust_accounts table) For Service org transactions All transactions performed in a Parts service organization (Parts service organizations can be identified from table mtl_parameters where attribute 7 is 'PARTS' and attribute11 is 'SERVICE') will be against an FE. Each FE has 1 good locator (Known as LCT or SAV) and 2 defective locators (DUE and RET) assigned to them. (Details of sub-inventory classification as GOOD/DEFECTIVE is mentioned in appendix) All customers having customer category (in hz_parties table) as 'GPO_FE_CUSTOMER' are FE customers and their Local warehouse is maintained in the warehouse field on the order management tab of the Customer account page (warehouse id in hz_cust_accounts table) respectively

		Populate the organization code derived using above logic into the additional_info_4 column of GEMS_INV. GEHC_SVC_SPM_PART_TXN_FEED table.

9.7.7. Translations/Transformations (Interfaces Only)

There will be no transformation/translation of data at oracle end. The data extracted will be captured by MW and stored in the AWS DB for any further processing based on any business logics.

9.7.8. Initiation

The function will be part of a concurrent program with frequency as the parameter. The parameter frequency can have any one value of DAILY or SPECIAL.
The concurrent will program will also have an optional parameter 'START DATE' and 'END DATE' to enable the data to be fetched between a particular date interval.

9.7.9. Error Handling, Reprocessing / Rollback & Error Messaging

None

▮ Function: Purging of the recommendations staging table

9.8.1. Approach/Description

The recommendations staging table records which are not in the status 'N' or 'V' i.e purge the records which are successful or errored out which are older than seven days from the system date.

9.8.2. Inputs

NA

9.8.3. Outputs

The data records from the staging table having process flag not as 'N' or 'V' will be purged which are older than seven days from the system date.

9.8.4. Data Entity

NA

9.8.5. Process Flow

Reference	Requirement
9.8.5.1	The purging function is invoked through a scheduled concurrent program
9.8.5.2	The data staging table with status not in 'N' or 'V' are purged

9.8.6.   Business Rule

Reference	Business Entity	Rule
9.8.6.1	Data Purging	The records which marked not equal to the process flag 'N' or 'V' is purged which are older than seven days from the system date from the staging table - GEHC_SVC_PLN_SPM_STG

9.8.7.   Translations/Transformations (Interfaces Only)

NA

9.8.8.   Initiation

The purging function invoked through a concurrent program scheduled to run once a day.

9.8.9.   Error Handling, Reprocessing / Rollback & Error Messaging

None

10.   Scheduling

Recommendation staging table extract, Demand, Onhand and Supply extraction, Part transaction jobs to run daily which will be an incremental load.
Part Master, Part Source data extraction jobs would run on a weekly basis.
So the program invoking the functions will run scheduled on 2 modes – DAILY and WEEKLY.

11.   Dependent Programs

No other programs will be dependent on this. However, the functions mentioned in Section 9 will themselves be part of a concurrent program as mentioned below:

Concurrent Programs					
Seq	Name	Parameter	Data Type	Mandatory	Calculations/Values
1	GEHC SVC PLN SPM FEEDBACK	FREQUENCY	VARCHAR	N	FREQUENCY can take values as DAILY
2	GEHC SVC PLN PART MASTER FEED	FREQUENCY	VARCHAR	N	FREQUENCY can take values as DAILY or WEEKLY or SPECIAL. TRUNCATE TABLE can have parameter as Yes or No. Default will be Yes. If
		TRUNCATE TABLE	VARCHAR	N	
		SATRT DATE	DATE	N	

		END DATE	DATE	N	passed as Yes, the table will be truncated. If No, data will be added to the table.
3	GEHC SVC PLN PART DEMAND FEED	FREQUENCY	VARCHAR	N	FREQUENCY can take values as DAILY or SPECIAL. TRUNCATE TABLE can have parameter as Yes or No. Default will be Yes. If passed as Yes, the table will be truncated. If No, data will be added to the table.
		TRUNCATE TABLE	VARCHAR	N	
		SATRT DATE	DATE	N	
		END DATE	DATE	N	
4	GEHC SVC PLN PART SOURCE FEED	FREQUENCY	VARCHAR	N	FREQUENCY can take values as WEEKLY. TRUNCATE TABLE can have parameter as Yes or No. Default will be Yes. If passed as Yes, the table will be truncated. If No, data will be added to the table
		TRUNCATE TABLE	VARCHAR	N	
5	GEHC SVC PLN PART SUPPLY FEED	FREQUENCY	VARCHAR	N	FREQUENCY can take values as DAILY or SPECIAL. TRUNCATE TABLE can have parameter as Yes or No. Default will be Yes. If passed as Yes, the table will be truncated. If No, data will be added to the table
		TRUNCATE TABLE	VARCHAR	N	
		START DATE	DATE	N	
		END DATE	DATE	N	
6	GEHC SVC PLN PART ONHAND FEED	FREQUENCY	VARCHAR	N	FREQUENCY can take values as DAILY. TRUNCATE TABLE can have parameter as Yes or No. Default will be Yes. If passed as Yes, the table will be truncated. If No, data will be added to the table
		TRUNCATE TABLE	VARCHAR	N	
7	GEHC SVC PLN PART TRANSACTION FEED	FREQUENCY	VARCHAR	N	FREQUENCY can take values as DAILY or SPECIAL. TRUNCATE TABLE can have parameter as Yes or No. Default will be Yes. If passed as Yes, the table will be truncated. If No, data will be added to the table
		TRUNCATE TABLE	VARCHAR	N	
		START DATE	DATE	N	
		END DATE	DATE	N	

8	GEHC SVC STAGING TABLE PURGE	None	NA	NA	None

12. Additional Testing Requirements

13. Issues, Risks & Decisions

▮▮▮▮ Issues/Risks Identified

Issue ID#	Description
001	On failure of the concurrent programs, for incremental type of data extracts, need to have the correct filter condition for extracting the data on the subsequent runs.
002	Using Materialized Views for the data extracts.
003	Typecasting of date out of GLPROD will not be done like making the character fields upper case
004	Error in staging table is not getting populated correctly.
005	PO classification for certain POs is not happening correctly in Supply Extract because currently the GPO excluded orgs are being considered as Parts Orgs.
006	SO details corresponding to certain POs are not getting populated correctly in Supply Extract

▮▮▮▮ Response / Resolution to Issues

Issue ID#	Response / Resolution
001	If the concurrent program fails, corresponding error message will be stored in the iface table and the fresh extract which runs will pick up from the successful extract start time of the previous run.
002	Comparison was done between materialized views vs staging table approach and based on the performance it was decided that staging table approach would be more feasible approach.
003	Intention is to keep the data extract as near to the source system.
004	Changes described in revision 4 of this document provides the solution of correct error message logging into the staging table
005	Logic has been modified to not consider GPO excluded orgs as parts org.
006	Logic has been modified to populate the correct SO details corresponding to the POs

14. Appendix

Valueset GEHC_SVC_SPM_ENABLED_WAREHOUSE is created as shown:
Also the snapshot from DFF is depicted over here.

Valueset GE_GPRS_SPM_SO_DEMAND is created as shown :

Valueset GEHC_SVC_SPM_TXN_DETAILS is created as shown :

Global Parts Interface Value Set.

Value Set Name: GEMS_GLP_INTERFACE_VALUESET

Valueset GE_GPO_SPM_PLN_DETAILS is created as shown :

Valueset : GEHC_SVC_SPM_WH_DETAILS is created as shown :

Valueset : GEHC_SVC_SPM_WH_DETAILS is created as shown :

Valueset : GEHC_SVC_SPM_SUBINV_TYPES is created as shown :

APC Attributes- Medical Device

Common Attributes

Create Change Order   Update

Common Attributes

UDI Marking Item	UDI Marked Assembly
Supported Medical Device	Supporting UMI
Software Item	Contains ETS **Yes**
Essential to **Safety**	UDI Mark Excluded
Spare Part Flag	Rating Plate Flag

Non GEHC Medical Device Information

Non GEHC Medical Device

GPM Calculated Item Attributes

Contains Medical Device **No**   Contains Regulatory Traceable Item
Contains Asset Tracked Item

APC Attribute- Contains Medical Device

Manual Backlog Hold in M02 :

GPRS Export Only Part Hold in Japan :

GPRS Domestic Only Part Hold in Japan :

ARC Item Cost from U00 :

GPO Sub-inventory Type

GOOD

DEFECTIVE

FE Customer to PUDO Customer Mapping

Customer Information

Name GPO-US-035-247-009   Customer Type Organization
Registry ID 1660838

Account

Account Number 714373
Account Description 212065207
Classification
Account Type Internal

Sales Channel
Reference 716896
Status Active

Context Value
Bed Size
SMG External Id
Affiliate PUB Code
Market Segmentation
IBS Billing Unit Code
GPO FE Locator GPO.035.247.009.US
LCT035
UCM ID
PTO Item Preference
Allow Partial Rev Rec Only for PBRR
SWB Account

Context Value

Sites Account Profile Profile Amounts Payment Details Communication **Relationships** Order Management Late Charges Attachments

Account Relationships

Status Active

Create Account Relationship |

Customer △	Account Number △	Account Description △	Operating Unit △	Reciprocal	Bill To	Ship To	Update	Remo
GPO-US-035-000-V01	764836	999555036	GEMSAM_GSL_GPS_OU				✎	☑
GPO-US-035-000-V02	764837	999555032	GEMSAM_GSL_GPS_OU				✎	☑

Update Account Relationship: 714373

Related Customer GPO-US-035-000-V01
Related Account 764836
Account Description 999555036
Operating Unit GEMSAM_GSL_GPS_OU
☐ Reciprocal
☐ Bill To
☐ Ship To
Status Active
Context Value Global Parts
Customer Relationship Rank – PUDO
Related Customer Rank 10

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File Edit View Folder Tools Window Help

Transaction Types

Operating Unit GEMSAM_GSL_GPS_

Description GPO US FE SHIPMENT

Order Category Order

Transaction Type GPO_US_FE_SHIPMENT

Sales Document Type Sales Order

Transaction Type Code Order

Additional Order Type Information

GEMS Order Type SPECIAL   Special Orders

IOC Enabled

Invoiceable

Interface to eOM

Config Mode

Interco AP Organization SUS   GEMSAM_INV_US_SVC_SUS

Sales to External Customer

PB AR Transaction Type

RR AR Transaction Type

Context Value Service OM   Service Order Management

sOM Order/Line Types

Auto RMA Order Type GPO_US_FE_RET   FE Return

Auto RMA Line Type

Use For Autorelease Y   Yes

DCOS Order

Bundling Enabled

OK   Cancel   Clear   Help

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File Edit View Tools Window Help

Shipping Transactions

Query Query <1>   Context Line - 279377744

Detail	LPN	Item Name	Delivery	Line Status	Next Step	Exceptions	Order	Requested Qty
279377744	☐	5446030	735721141	Staged/Pick Confir	Ship Confirm/Cl	☐	10024844	
279385016	☐	5661447	735850568	Released to Wareh	Transact Move	☐	104710812	
279390097	☐	5881417	735794741	Staged/Pick Confir	Ship Confirm/Cl	☐	104711183	
279392930	☐	5881417	735794741	Staged/Pick Confir	Ship Confirm/Cl	☐	104711183	
279390935	☐	5450061-2	735794742	Staged/Pick Confir	Ship Confirm/Cl	☐	104711216	
279392812	☐	5450061-2	735794742	Staged/Pick Confir	Ship Confirm/Cl	☐	104711216	
279392853	☐	5423275	735818126	Staged/Pick Confir	Ship Confirm/Cl	☐	104711372	
279393599	☐	2316324	735821775	Staged/Pick Confir	Ship Confirm/Cl	☐	104711385	
279393733	☐	D3803T	735843298	Released to Wareh	Transact Move	☑	104711426	
279394068	☐	5438959-R	735837688	Released to Wareh	Transact Move	☐	104711497	

Lines/LPNs   Delivery   Path by Stop   Path by Trip

Auto-pack   Pick and Ship   Actions Unpack   Go   Detail...

Defective routing Form

Navigation for Purpose: GEHC Global Services, GPO Defective Routing (View Only) --> View Routing Details-->Routing Details search form--> Give the part number

Navigation for Supplier city:
GEMSAS_PO_CN_GETD_MANAGER > SUPPLY BASE VENDOR INQUIRY > SUPPLIERS (VIEW ONLY) > GIVE SUPPLIER NUMBER > ADDRESS BOOK > CLICK ON UPDATE BUTTON OF SUPPLIER NAME