**Delivery.tab**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | | **Date** | **Author** | **Comments** |
| Refer to PROTON history |  | | Rob Reeves  AndreyKornienko | Initial Version including main mapping rules. The BI mapping inputs provided by the BI team and MD04 extraction. |
|  |  | | Kshitij Jathar | PROTON Administration and finalize the document with the following changes:-   1. Document History removed as Proton will have its own version tracking 2. Reference columns to one-drive folders deleted. 3. Different colours, text highlights etc. have been removed. 4. Format. is changed and standardized |
| Version 0.1 | 14-Apr-2021 | | Uma Sankar | As per SPEED Project Wave 1 (R3.0) - Item 7 ((21011) requirement added new column “CustomerPONumber” in talend job (TR\_indDmd\_SalesOrder ) for the output file which will be consumed by Rapid Response. Changes was incorporated for IM & SZ.  Check page 4. |

**IBI – Extracts and Filtering**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | PHARMA | SANDOZ | File Description | Filtering |
| 1 | **MD04** | **MD04** | NA | **TALEND: MRP Elements « VJ » and « VI »** |
| 2 | LIPS | LIPS | Deliveries (historical) | **BI:** for History Filtering : see below  LIKP-WADAT\_IST > 13w in past.  LIPS-LFIMG > “0”  LIPS-VGTYP = « C » |
| 3 | LIKP | LIKP | Deliveries (historical) | **BI**: for History : same as above |
| 4 | MSEG | MSEG | Material Movements (historical consumption) | **BI:** MJAHR – current year and previous year  BUDAT\_MKPF > 13 weeks in the past  BWART – 201,202, 221,222, 261,262. |

**Note 1:** Call on Delivery closed quantity in sequence (see below). Full refresh all of the time (no delta)

**BI:** Process Flow to ensure consistency check:

1. First MD04 is extracted for open deliveries

2. Then Historical Sales (from historical deliveries) are extracted

**TALEND**: If Historical Sales extract record found in MD04, then delete the record (in MD04), as it is already closed. To match the records between two extracts (DELIV and MD04), use Delivery Number (DELIV\_NUMB and CRM\_FMREID respectively) and Source System.

**Note 2: MSEG data can be taken from BI (no need to synchronize with MD04). Also, see MSEG data in Material Movements file (there the same movements are used, but for longer horizon).**

**ERP Mapping:**

**HISTORICAL SALES (13wks of closed orders for Forecast Consumption) – to be taken from BI (not MD04)**

**RR Table: Independent Demand (LIPS+LIKS+MSEG)**

| **Ordinal** | **RR Field** | **ERP Field** | **IBI Field** | **SZ Field** | **Comments** | **Source** |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Order.Id | LIPS-VBELN | DELIV\_NUMB | DELIV\_NUMB | NA | **BI** |
| 2 | SAPOrderType | LIKP-LFART | DEL\_TYPE | DEL\_TYPE | NA | **BI** |
| 3 | Order.Type | “Delivery” | NA | NA | **If the value of PRVDOC\_CTG field is “H”, then “Return”. Else if “I”, then “DeliveryFoC”. Else, “Delivery”** | **Talend** |
| 4 | Order.Customer.ID | LIKP-KUNAG | SOLD\_TO | SOLD\_TO | Concatenate SOLD\_TO with Long Source System value | **BI** |
| 5 | Order.Site.Value | LIPS-WERKS | PLANT | PLANT | **Talend**: If NVS.StockType = “W” and **LIPS-SONUM** and Plant are specified in the RR table for separate customer consignments, then assign it to concatenation of **Plant\_** **LIPS-SONUM instead of Plant**  **SZ: Concatenate Customer from customerconsignmentMap, instead of SONUM, with Plant** | **BI +**  **Talend transformation** |
| 5 | Part.Site.Value | LIPS-WERKS | PLANT | PLANT | NA | **BI** |
| 6 | Part.Name | LIPS-MATNR | MATERIAL | MATERIAL | NA | **BI** |
| 7 | Line | LIPS-POSNR | DELIV\_ITEM | DELIV\_ITEM | NA | **BI** |
| 8 | Batch.Number | LIPS-CHARG | BATCH | BATCH | NA | **BI** |
| 9 | OrderPriority.Value | “Low” | NA | NA | “Low” | **Talend** |
| 10 | UnitSellingPrice | “0” | NA | NA | NA | **Talend** |
| 11 | DueDate | LIKP-WADAT\_IST | ACT\_GI\_DTE | ACT\_GI\_DTE | Consumption at Actual GI date | **BI** |
| 12 | RequestDate | LIKP-WADAT\_IST | ACT\_GI\_DTE | ACT\_GI\_DTE | Actual GI date | **BI** |
| 13 | Quantity | MSEG-MENGE | QUANT\_B | QUANT\_B | Set “0” | **Talend** |
| 14 | UnitOfMeasure | LIPS-VRKME | SALES\_UNIT | SALES\_UNIT | NA | **BI** |
| 15 | Status.Value | "Shipped" | NA | NA | If PRVDOC\_CTG is “H”, then “Shipped\_noMRP”. Else if Stocktype is “W” and Plant and Customer are specified in Customer Consignments or if location is Planning relevant, then “Shipped”. Otherwise, “Shipped\_noMRP” | **BI** |
| 16 | ShippedQty | LIPS-LFIMG | DLV\_QTY | DLV\_QTY | NA | **BI** |
| 17 | NVS.DeliveryRoute | LIKP-ROUTE | ROUTE | ROUTE | transportation information from source/dest | **BI** |
| 18 | NVS.ShippingPoint | LIKP-VSTEL | SHP\_REC\_PT | SHIP\_POINT | NA | **BI** |
| 19 | NVS.ItemCategory | LIPS-PSTYV | ITEM\_CATEG | ITEM\_CATEG | NA | **BI** |
| 20 | NVS.StLoc | LIPS-LGORT | STOR\_LOC | STOR\_LOC | Might be used to identify nettable location | **BI** |
| 21 | NVS.StockType | LIPS-SOBKZ | DF\_SOBKZ | SHIP\_STCK | **When “W”, it means issue from customer consignment!** | **BI** |
| 22 | NVS\_DebitCreditIndicator | NA | NA | NA | NA | NA |
| 23 | NVS\_AllocationIndicator | NA | NA | NA | NA | NA |
| 24 | SourceSystem.Value | NA | SOURSYSTEM | SOURSYSTEM | Long form Source System | Talend |
| 25 | NVS\_GoodIssuedDate | LIKP-WADAT\_IST | ACT\_GI\_DTE | ACT\_GI\_DTE | Actual GI date | **BI** |
| 26 | CustomerPONumber | NA | NA | C9\_IPOIND | NA | **BI** |

**+ UNION WITH**

**HISTORICAL CONSUMPTION (13wks of Direct Consumption w/o Delivery for Forecast Consumption)**

**TALEND: to filter only for those site which have type “HybridCT” in Site: ForecastConsumption, ForecastConsumptionType value.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Or** | **RR Field** | **ERP Field** | **IBI field** | **Sandoz field** | **Comments** | **Source** |
| 1 | Order.Id | MSEG-MBLNR | MAT\_DOC | DOC\_NUM | NA | **BI** |
| 2 | SAPOrderType | MSEG-BWART | MOVETYPE | MOVETYPE | Type of consumption (movement type) | **BI** |
| 3 | Order.Type.Value | “Consumption” | NA | NA |  | **Talend** |
| 4 | Order.Customer.ID | “CT”\_WERKS | PLANT | PLANT | Clinical Trials  Concatenate “CT” with “PLANT” | **Talend** |
| 5 | Order.Site.Value | MSEG-WERKS | PLANT | PLANT | NA | **BI** |
| 5 | Part.Site.Value | MSEG-WERKS | PLANT | PLANT | NA | **BI** |
| 6 | Part.Name | MSEG-MATNR | MATERIAL | MATERIAL | NA | **BI** |
| 7 | Line | MSEG-ZEILE | MAT\_ITEM | DOC\_ITEM | NA | **BI** |
| 8 | Batch.Number | MSEG-CHARG | BATCH | BATCH | NA | **BI** |
| 9 | OrderPriority.Value | “Low” | NA | NA | Set “Low” | **Talend** |
| 10 | UnitSellingPrice | “0” | NA | NA | NA | **Talend** |
| 11 | DueDate | MSEG-BUDAT\_MKPF | PSTNG\_DATE | PSTNG\_DATE | Actual Posting Date | **BI** |
| 12 | RequestDate | MSEG-BUDAT\_MKPF | PSTNG\_DATE | PSTNG\_DATE | Actual Posting Date | **BI** |
| 13 | Quantity | MSEG-MENGE | QUANT\_B | QUANT\_B | Set “0” | **BI** |
| NA | UnitOfMeasure | MSEG-MEINS | BASE\_UOM | BASE\_UOM | Not needed | **BI** |
| 15 | Status.Value | "Consumed"/ “Consumed\_noMRP” | NA | NA | When location is planning relevant “Consumed”. Otherwise “Consumed\_noMRP” | Talend |
| 16 | ShippedQty | MSEG-MENGE | QUANT\_B | QUANT\_B | When DbtCrdInd is S, multiply the quantity by -1 (negative) | BI/Talend |
| 17 | Route | NA | NA | NA | NA | NA |
| 18 | ShippingPoint | NA | NA | NA | NA | NA |
| 19 | ItemCategory | NA | NA | NA | NA | NA |
| 20 | NVS.StLoc | MSEG-LGORT | STOR\_LOC | STOR\_LOC | Might be used to identify nettable location | BI |
| 21 | StockType | NA | NA | NA | NA | NA |
| 22 | NVS.DbtCrdInd | MSEG-SHKZG | DCINDIC | DCINDIC | H means movement is negative, S - positive | BI |
| 23 | NVT\_AllocIndicator | NA | NA | NA | NA | NA |
| 24 | SourceSyste.value | NA | SOURSYSTEM | SOURSYSTEM | Long form Source System | Talend |
| 25 | NVS\_GoodIssuedDate | MSEG-BUDAT\_MKPF | PSTNG\_DATE | PSTNG\_DATE | Actual Posting Date | **BI** |

**Open Deliveries from MD04 (MRP elements “VI” and “VJ”)**

**BI File Format:**

**ERP Mapping:**

| **OrdinalOr** | **RR Field** | **ERP Field** | **Comments** | **Source** | **IB** | **SZ** | **Source Fields** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Order.Id | Order number from MD04 (see in red) | NA | **MD04** | /BIC/CN\_DELNR | CRM\_FMREID | **DELNR** |
| 2 | SAPOrderType | empty | NA | **n/a** | NA | NA | NA |
| 3 | Order.Type.Value | “DeliveryFoC”/ “Delivery” | If MRP element is “VI”, then “DeliveryFoC”. Else, “Delivery” | **Talend** | NA | NA | NA |
| 4 | Order.Customer.ID | Get Sold-to customer | When blank, take Ship To location (standard MD04) | **BI** | SOLD\_TO | SOLD\_TO | **LIKP-KUNAG** |
| 5 | Order.Site.Value | Plant from MD04 - WERKS | NA | **MD04** | PLANT | PLANT | **WERKS** |
|  | Part.Site.Value | Plant from MD04 - WERKS | NA | **MD04** | PLANT | PLANT | **WERKS** |
| 6 | Part.Name | Material from MD04 - WERKS | Map Material field from Part file | **MD04** | MATERIAL | MATERIAL | **MATNR** |
| 7 | Line | From MD04 – **concatenation** of item number and schedule line number (see in yellow p.1) | NA | **MD04** | /BIC/CN\_DELPS  SCHED\_LINE | REFER\_ITM  SCHED\_LINE | **DELPS \_ DELET** |
| 8 | Batch.Number | empty | NA | **MD04** | BATCH | /BIC/C9\_IPMBCH | **CHARG** |
| 9 | OrderPriority.Value | Set in Talend to “Med” | “Med” | **Talend** | NA | NA | NA |
| 10 | UnitSellingPrice | “0” | NA | **Talend** | NA | NA | NA |
| 11 | DueDate | Requirement Date from MD04 | NA | **MD04** | /BIC/CH\_DAT00 | /BIC/C9\_IDAT00 | **DAT00** |
| 12 | RequestDate | The same as above - Requirement Date from MD04 | NA | **MD04** | /BIC/CH\_DAT00 | /BIC/C9\_IDAT00 | **DAT00** |
| 13 | Quantity | From MD04 - Reqmts qty | NA | **MD04** | QUANTITY | QUANTITY | **MNG01** |
| 14 | UnitOfMeasure | Base unit of measure - **MEINH** | NA | **Talend** | NA | NA | NA |
| 15 | Status.Value | "Open", when the stocktype is “E” and VRFKZ field is not empty or when the storage location is planning relevant.  When Storage Location (LGORT) is not relevant for planning as per Location Tab, change to “**Open\_noMRP**”. Also change to “Open\_noMRP” when the If the part/plant/customer matches a SubcoPart record on part/plant/vendor. “Open\_noMRP” , also when PLANR and VRFKZ fields are empty   * Use the Site Forecast Consumption table, lookup the forecast consumption type by site   + When ForecastConsumptionType is not relevant for forecast consumption then add \_noMRP to status value   + This change only applies to records coming from MD04 records   + Otherwise, check the allocation Indicator field     - If that is blank, status = open\_noConsume     - Otherwise no change | NA | **Talend** | NA | NA | NA |
| NA | MinimumShelfLife | NA | NA | **n/a** | NA | NA | NA |
| 16 | ShippedQuantity | NA | NA | NA | NA | NA | NA |
| 17 | Route | NA | NA | NA | NA | NA | NA |
| 18 | ShippingPoint | NA | NA | NA | NA | NA | NA |
| 19 | ItemCategory | NA | NA | NA | NA | NA | NA |
| 17 | NVS.StLoc | Take from MD04 | Might be used to identify nettable location | **MD04** | STOR\_LOC | STOR\_LOC | **LGORT** |
| 18 | NVS.AllocInd | Might be used for forecast consumption definition in RR | NA | **MD04** | /BIC/CH\_ZUVKZ | CONSU\_FLAG | **VPZUO** |
| 19 | SourceSystem | Long form Source system value | Source system value | **Talend** | NA | NA | **NA** |
| 20 | NVS\_GoodIssuedDate | NA | NA | **MD04** | GI\_DATE | GI\_DATE | **GI\_DATE** |

**Reverse Consumption for ForecastDetail:**

**A data file with following target fields is created in Delivery job as an intermediate data file, which is further used in Forecast Details job.**

**Only the data of forecast consumption type “HybridCT” are extracted with their Debit/Credit Indicator value as “S”.**

| **Ordinal** | **Target Field** | **ERP Field** | **IBI Field** | **SZ Field** | **Comments** |
| --- | --- | --- | --- | --- | --- |
| 1 | Id | “RevConsum” | NA | NA | NA |
| 2 | Header.Category.Value | “CTFcst” | NA | NA | NA |
| 3 | Header.PartCustomer.Part.Name | MSEG-MATNR | MATERIAL | MATERIAL | NA |
| 4 | Header.PartCustomer.Part.Site.Value | MSEG-WERKS | PLANT | PLANT | NA |
| 5 | Header.PartCustomer.CustomerID | MSEG-WERKS | PLANT | PLANT | Concatenate “CT” with WERKS |
| 6 | Date | MSEG-BUDAT\_MKPF | PSTNG\_DATE | PSTNG\_DATE | NA |
| 7 | Quantity | MSEG-MENGE | QUANT\_B | QUANT\_B | NA |
| 8 | Header.PartCustomer.DemandType | “FcstPEP” | NA | NA | “FcstPEP” |
| 9 | SourceSystem | NA | refer comments section | refer comments section | Long form Source system value |