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1. PURPOSE

The objective of this document is to outline the Business Requirements gathered for all phases of **Project Luna** to meet Alkermes' growing business needs**.** The document seeks to provide an overall Business and System overview and outline the scope, assumptions, limitations, dependencies, data required to complete this project. This document also includes all Reference documents associated with the functional specifications.

2. OVERVIEW

2.1 IN SCOPE

Requirement Gathering of following CDE 3.0 Components is in Scope:

- Ingestion and integration of the external data files like IQVIA, ICS etc.
- Ingestion and Integration of data (including Business Rules) from Javelin
- Ingestion and Integration the data from MDM (Customer Master)
- Replication of data from Cloud based systems (like Veeva CRM, Veeva Vault, Marketo, Patient Hub etc.) and internal databases (like Payer Master etc.)
- Quality Checks for DQM Engine
- Ingestion and Integration of the customer master inbound data files from CDE 3.0
- Outbound integration & extract generation for CDE 3.0
- Ingestion and Integration of the data from MDM (Customer Master)
- Extract generation for external vendors (including Javelin), internal systems like Payer Master, MDM etc.
- Creation of Semantic Layer
- Data Generation for the existing reports

2.2 OUT OF SCOPE

- Requirements on existing Tableau/Excel based reports.
- Configuration/development changes within Veeva CRM ORG & Veeva CRM Replicated Data HUB
- Configuration/development changes within CDE 2.0

2.3 ASSUMPTIONS AND DEPENDENCIES

KEY ASSUMPTIONS

S.NO.	KEY ASSUMPTIONS
1	Axtria will have access to all the required environments like existing CDE etc. to perform data analysis and discovery on an existing CDE system
2	Availability of IT and Business for Requirements Gathering workshops and System Clarifications
3	Business and IT will review the required sections and provide Sign-off within 3 Business Days

DEPENDENCIES

S.NO.	DEPENDENCIES
1	Availability of CDE IT team
2	Availability of the Business team
3	Access to an existing CDE environment

2.4 DEPENDENCY TRACKER

Below link contains the dependency tracker which includes Feeds details along with mapping across layers.

CDE3.0 Dependency Tracker

2.5 DQ LIST

Based on Feed ID and Object ID, below list contains all the applicable DQ's

CDS_DQ_Checks_Master_List

3. GENERAL CLEANSE LAYER RULES

<table>
<tr><th>Business Requirement ID</th><th>Requirement Description</th></tr>
<tr><td>BRD-CR-1</td><td>Clean the Zip Code fields based on following rules:
1. If Zip code contains hyphen (-):
a. Check the zip length from left till hyphen.
b. If length of zip = 4, prefix with a 0 and fetch remaining 4 characters from left till hyphen.
c. If length of zip = 5, then fetch first 5 characters from left till hyphen.
2. If zip code doesn't contain hyphen (-):
a. If length of zip = 4, prefix with a 0 and fetch remaining 4 characters from left.
b. If length of zip >= 5, then fetch first 5 characters from left</td></tr>
<tr><td>BRD-CR-2</td><td><u>Removal of Specific Character</u>
Removal of specific characters from the field values on the below conditions:
1. If Hyphen (-) is received in NDC Number column, then it is removed.
2. If below mentioned special characters are received in any record, then they are removed:
a. Open bracket '('
b. Dollar '$'
c. Comma ','
d. Closing bracket ')'
3. If string value 'Empty' is received in any record, then it is removed.</td></tr>
<tr><td>BRD-CR-3</td><td><u>Prefixing with Specific Character based on Specific Length</u>
Prefixes are added to the below mentioned attributes on the following conditions:
1. If the field is received as blank, then no cleansing rule is applied.
2. If the length of field received is less than the length mentioned in the below table, then prefix character is added till the expected length of the string is reached.

<table>
<tr><th>Attribute Name</th><th>Length</th><th>Prefix Character</th></tr>
<tr><td>IQVIA Prescriber Number</td><td>7</td><td>0</td></tr>
<tr><td>IQVIA Outlet Number</td><td>8</td><td>0</td></tr>
<tr><td>IQVIA Plan ID/Code</td><td>10</td><td>0</td></tr>
<tr><td>IQVIA Sales Category</td><td>2</td><td>0</td></tr>
<tr><td>IQVIA Product Code</td><td>9</td><td>0</td></tr>
<tr><td>ME Number</td><td>10</td><td>0</td></tr>
</table>
</td></tr>
</table>

4. BUSINESS PROCESSES

4.1CUSTOMER INFORMATION

Customer information constitutes of the following –

1. Customer Master
2. Customer Address
3. Communication
4. Customer Affiliation
5. Customer Identifier
6. Customer Decile
7. Prescriber Status

4.1.1 CUSTOMER MASTER

BRD-REQ-OBJ-1	• PUB_PARTY • PUB_TEAM_ADDRESS • MAP_TEAM_CUSTOMER_ADDRESS • DIM_CUSTOMER • DIM_SPECIALTY • DIM_OPTOUT • MAP_CUSTOMER_MASTER_ATTRIBUTE • SEM_CUSTOMER_MASTER • SEM_CUSTOMER_MASTER_FROZEN • VW_SEM_CUSTOMER_MASTER
BRD-REQ-DW-2	**Customer Dimension (DIM_CUSTOMER)** • Customer Dimension will include Customer Details (both Individuals and HCOs) like Customer name, Account Details, Subcat details, Effective Start and End dates. • New Customer Records will be inserted, and existing Customer Records will be updated into Customer Dimension based on ALK_ID from PUB PARTY (MDM) • CUST DIM ID (Unique Customer Identifier) will be generated for each new Customer inserted into the Customer Dimension. • Inactive Customer Records identified in PUB PARTY (MDM) will be tagged Inactive in Customer Dimension. (IS_ACTIVE=N) **Specialty Dimension (DIM_SPECIALITY)** • Specialty Dimension will include Specialty details for customers like Specialty code, Specialty Level, Specialty Status and Effective Start and end dates. • New Specialty records will be inserted, and existing Specialty Records will be updated into Specialty Dimension based on ALK_ID, SPEACIALTY LVL, SPECIALTY CD from PUB SPECIALTY (MDM table)

	• A lookup on DIM CUSTOMER table is required to fetch the CUST DIM ID and ACCOUNT SUPER TYPE column based on ALK ID for the active customers. • Inactive Specialty Records identified in PUB SPECIALTY (MDM) will be tagged Inactive in Specialty Dimension. (IS_ACTIVE=N) **<u>Optout Dimension (DIM_OPTOUT)</u>** • Optout Dimension will include Optout details for customers like PDRP OPT OUT, AMA NO CONTACT etc. • New Optout records will be inserted, and existing Optout Records will be updated into Optout Dimension based on ALK_ID, OPTOUT TYPE from PUB BUSINESS FLAG (MDM table) • A lookup on DIM CUSTOMER table is required to fetch the CUST DIM ID column based on ALK ID for the active customers where (business flag val starting 1 or business flag val is 'Y') and (business flag name starting 'AMA' or 'PDRP' or 'MARKETING') and (business flag end date greater than the current date or is null). • Inactive Optout Records identified in PUB BUSINESS FLAG (MDM) will be tagged Inactive in Optout Dimension(IS_ACTIVE=N) • Only the flags with FLAG_END_DT present as null or greater than current date will be considered as Valid flags, rest will not flow in DIM_OPTOUT **<u>Customer Master Attribute Map (MAP_CUSTOMER_MASTER_ATTRIBUTE)</u>** • MAP CUSTOMER MASTER ATTRIBUTE table includes customer level information such as Attribute name, Attribute value and Attribute Level • The data in MAP CUSTOMER MASTER ATTRIBUTE table is populated from Veeva Account and Customer Dimension • Account type and Account subtype are populated from customer dimension which is mapped with site of care XREF respectively. • TREATS SCHIZOPHRENIA FLAG, HBM TARGET PRIORITIZATION will be populated from Veeva Account2.
BRD-REQ-SEM-3	• **Customer information** for Active Customers will be directly fetched into SEM_CUSTOMER_MASTER from Customer Dimension. • **Primary specialty code** will be fetched from SPECIALTY DIMENSION based on CUST DIM ID for SPECIALTY LVL=1 and ACCOUNT SUPER TYPE is 'IND'; If specialty cd is NULL then 'UNK' will be populated. • **Secondary specialty code** will be fetched from SPECIALTY DIMENSION based on CUST DIM ID for SPECIALTY LVL=2 and ACCOUNT SUPER TYPE is 'IND'; If specialty cd is NULL then 'UNK' will be populated. • **Tertiary specialty code** is fetched from SPECIALTY DIMENSION by joining based on CUST DIM ID and for SPECIALTY LVL=3 and ACCOUNT SUPER TYPE is 'IND'; If specialty cd is NULL then 'UNK' is populated • **Primary Specialty** is populated from description by performing lookup on the MAP CODE table through SPEACIALTY CD, ENTITY TYPE is 'CUSTOMER MASTER' and CODE TYPE is 'SPEACIALTY_CD' for the Primary specialty cd. • **Secondary Specialty** is populated from description by performing lookup on the MAP CODE table through SPEACIALTY CD, ENTITY TYPE is 'CUSTOMER MASTER' and CODE TYPE is 'SPEACIALTY_CD' for the Secondary specialty cd. • **Tertiary Specialty** is populated from description by performing lookup on the MAP CODE table through SPEACIALTY CD, ENTITY TYPE is 'CUSTOMER MASTER' and CODE TYPE is 'SPEACIALTY_CD' for the Tertiary specialty cd. • **PDRP_FLAG** – If OPTOUT TYPE1 column contains keyword PDRP OPT OUT then populate Flag value as 'Y' Else populate as 'N'. • **AMA_OPT_OUT -** If OPTOUT TYPE1 column contains keyword AMA NO CONTACT then populates Flag value as 'Y' Else populate as 'N'. • **MARKETING_OPT_OUT -** If OPTOUT TYPE1 column contains keyword **MARKETING OPT OUT** then populate Flag value as 'Y' Else populate as 'N'.

- **PDRP_OPT_OUT_DATE** – If OPTOUT_TYPE column is not null for PDRP OPT OUT flag then populate value as FLAG_START_DT
- **SITE_OF_CARE, POLICY_ACCOUNT, INPATIENT_SERVICES, OUTPATIENT_SETTING_OF_CARE** will be populated from ATTRIBUTE_VALUE column of Customer Master Attribute against respective attribute name based on Cust dim id.
- **Subcat Description, Status Code, Account Class Type, Account Type, Account Sub Type, Credentials, Treats Schizophrenia** will be populated from Map Code table.
- **Classification** will be extracted from XREF_VEEVA_AL_SUBTYPE_CLASS based on Account Type and Subtype.
- **Veeva Inactive Flag** will be set as Y when status code from source is "I"
- **National Account** will be set to "Y" if the account class type is "CORP", the account type is "CORPPAR", and the account sub-type is "IDN", else "N".
- **VA flag** will be set to "Y" if the account sub-type starts with "VA" (case-insensitive), else "N".
- **IN_ELIGIBLE_PRESCRIBER** flag is populated as 'N'/'Y' based on 'TREATS_SCHIZOPHRENIA_PTS_18_AND_OLDER__C' from Veeva. If TREATS_SCHIZOPHRENIA_PTS_18_AND_OLDER__C is 'Yes'/'No', IN_ELIGIBLE_PRESCRIBER is populated as 'N'/'Y' respectively.
- Below is Semantic to Source mapping:

SEM CUSTOMER MASTER	SOURCE TABLE	SOURCE COLUMN
ALK_ID	PUB_PARTY	ALK_ID
FIRST_NAME	PUB_PARTY	FIRST_NAME
MIDDLE_NAME	PUB_PARTY	MIDDLE_NAME
LAST_NAME	PUB_PARTY	LAST_NAME
SUBCAT_CD	PUB_PARTY	SUBCAT_CD
ACCOUNT_INACTIVATION_DT	PUB_PARTY	PARTY_INACTIVATION_DT
ACCOUNT_SUPER_TYPE	PUB_PARTY	PARTY_SUPERTYPE_CD
PREFIX	PUB_PARTY	PREFIX_CD
SUFFIX	PUB_PARTY	SUFFIX_CD
CREDENTIALS_CD	PUB_PARTY	PROF_DESIGNATION_CD
SETTING_OF_CARE	PUB_PARTY	SETTING_OF_CARE

BRD-REQ-SEM-4

Customer Master Frozen (SEM_CUSTOMER_MASTER_FROZEN)

- Weekly versions of customer master will be restored for latest 4 weeks.
- Based on Freeze date and Version Insert date, the corresponding Customer Master Version will be freeze. This is a Quarterly Ad-hoc process.
- Freeze date will be fetched from XREF_DATA_FREEZE_DETAIL.

Product	Source	Cycle	Freeze Date	Start Date	End Date
NA	Customer	2019Q4	4/4/2020	10/7/2019	1/10/2020

- SEM_CUSTOMER_MASTER_FROZEN is cumulative over time and holds complete history of frozen Customer Master data. Currently, it holds data from 2020 Q4.
- VW_SEM_CUSTOMER_MASTER contains as is data from Semantic Customer master and is created to cater Data exchange between Alkermes and ZAIDYN (Snowflake share)

4.1.2 CUSTOMER ADDRESS

BRD-REQ-OBJ-1	• PUB_ADDRESS • PUB_TEAM_ADDRESS • MAP_TEAM_CUSTOMER_ADDRESS • DIM_ADDRESS • SEM_CUSTOMER_ADDRESS • SEM_CUSTOMER_ADDRESS_FROZEN
BRD-REQ-DW-2	**Address Dimension (DIM _ADDRESS)** • Address Dimension contains information such as ADDR_ALK_ID, Address details, City, State, Zip, Country, Latitude and Longitude • New Address Records will be inserted, and existing Address Records will be updated into Address Dimension based on ADDR_ALK_ID from PUB ADDRESS (MDM) • ADDR_DIM_ID (Unique Customer Identifier) will be generated for each new Address inserted into the Address Dimension. • Inactive Address Records identified in PUB Address (MDM) will be tagged Inactive in Address Dimension. **Team Customer Address (MAP_TEAM_CUSTOMER_ADDRESS)** • Map Team Customer Address contains team name information along with Customer and Address Dimension Ids. The is loaded directly from PUB TEAM ADDRESS table (MDM) • **CUST_DIM_ID:** Populated by performing a lookup on CUSTOMER DIMENSION active records based on ALK_ID • **ADDR_DIM_ID:** Populated by performing a lookup on ADDRESS DIMENSION active records based on ADDR_ALK_ID • Filter out records from Publish table wherever IS_DELETED is not 'Y'

BRD-REQ-SEM-3

- **ADDRESS** information will be populated from DIM_Address for only active address. (Based on Is_Deleted Null from PUB_ADDRESS)
- **Team Customer Address information** such as TEAM_DIM_ID, TEAM_NAME, CUST_DIM_ID, ADDR_DIM_ID will be directly populated from MAP TEAM CUSTOMER ADDRESS
- **ADDRESS TYPE** will be populated from CUSTOMER ADDRESS RELATIONSHIP by concatenating the distinct multiple Address Type for ADDR_DIM_ID and CUST_DIM_ID combination.
- Below fields are directly populated from source:

SEM CUSTOMER ADDRESS	SOURCE TABLE	SOURCE NAME
ADDR_ALK_ID	PUB_ADDRESS	ADDR_ALK_ID
ADDR_LINE_1	PUB_ADDRESS	ADDR_LINE_1
ADDR_LINE_2	PUB_ADDRESS	ADDR_LINE_2
ADDR_LINE_3	PUB_ADDRESS	ADDR_LINE_3
CITY	PUB_ADDRESS	CITY
STATE_CD	PUB_ADDRESS	STATE_CD
ZIP	PUB_ADDRESS	POSTAL_CD
COUNTRY_CD	PUB_ADDRESS	COUNTRY_CD
ZIP_EXT	PUB_ADDRESS	POSTAL_EXT_CD
STATUS_CD	PUB_ADDRESS	STATUS_CD
LATITUDE	PUB_ADDRESS	LATITUDE
LONGITUDE	PUB_ADDRESS	LONGITUDE
UNDELIVERABLE_ADDR_INDICATOR	PUB_ADDRESS	MAILABILITY_SCORE
ADDR_CERTIFICATION_ERROR_CD	PUB_ADDRESS	MATCH_STATUS_CD

BRD-REQ-SEM-4

Customer Address Frozen (SEM_CUSTOMER_ADDRESS_FROZEN)

- Weekly versions of Customer Address will be restored for latest 4 weeks.
- Based on Freeze date and Version Insert date, the corresponding Customer Address Version will be freeze. This is a Quarterly Ad-hoc process.
- Freeze date will be fetched from XREF_DATA_FREEZE_DETAIL.

Product	Source	Cycle	Freeze Date	Start Date	End Date
NA	Customer	2019Q4	4/4/2020	10/7/2019	1/10/2020

- SEM_CUSTOMER_ADDRESS_FROZEN is cumulative over time and holds complete history of frozen Customer Master data. Currently, it holds data from 2020 Q4.

4.1.3 COMMUNICATION

BRD-REQ-OBJ-1	• PUB_COMMUNICATION • DIM_COMMUNICATION • SEM_COMMUNICATION
BRD-REQ-DW-2	**Communication Dimension (DIM_COMMUNICATION)** • Communication Dimension will contain communication details for a customer such as COMM_TYPE_CD, COMM_SUBTYPE_CD, COMM_TYPE_VAL, COMM_STATUS_VAL, COMM TYPE/SUBTYPE PRIMARY FLAG and Effective Date • New Communication Records will be inserted, and existing Communication Records will be updated into Communication Dimension based on ALK_ID, COMM_TYPE_CD, COMM_SUBTYPE_CD, COMM_VAL from PUB COMMUNICATION (MDM table) • COMM DIM ID (Unique Communication Identifier) will be generated for each new Customer inserted into the Communication Dimension. • Inactive Communication Records identified in PUB COMMUNICATION (MDM) will be tagged Inactive in Communication Dimension. • CUST_DIM_ID will be populated from DIM_CUSTOMER table by making a lookup based on ALK_ID and active records
BRD-REQ-SEM-3	**SEM_COMMUNICATION** • **COMMUNICATION details** will be populated for only active records. (Is_Deleted= Null from PUB_COMMUNICATION) • **ALK_ID** will be populated from Customer Master based on Customer Dimension Id for Active Customers. • Below fields will be directly populated from source:

SEM COMMUNICATION	SOURCE TABLE	SOURCE COLUMN
PARTY_ADDR_ID	PUB_COMMUNICATION	ADDR_ALK_ID
COMM_TYPE_CD	PUB_COMMUNICATION	COMM_TYPE_CD
COMM_SUBTYPE_CD	PUB_COMMUNICATION	COMM_SUBTYPE_CD
COMM_TYPE_VAL	PUB_COMMUNICATION	COMM_VAL
COMM_TYPE_PRIMARY_FLAG	PUB_COMMUNICATION	COMM_TYPE_PRIMARY_FLAG
COMM_SUBTYPE_PRIMARY_FLAG	PUB_COMMUNICATION	BEST_COMM_SUBTYPE_IND

4.1.4 CUSTOMER AFFILIATION

BRD-REQ-OBJ-1	• PUB_REL_PARTY_PARTY • PUB_BEST_AFFIL_HIERARCHY • PUB_TEAM_AFFILIATION • DIM_ AFFILIATION

	• MAP_TEAM_CUSTOMER_AFFILIATION • SEM_CUSTOMER_AFFILIATION • SEM_CUSTOMER_AFFILIATION_FROZEN
BRD-REQ-DW-2	**Affiliation Dimension (DIM_AFFILIATION)** • Affiliation Dimension contains affiliation information such as affiliation_type_cd, affiliation_type, primary flag, effective end date and start date. • New Affiliation Records will be inserted, and existing Affiliation Records will be updated into Affiliation Dimension based on CHILD ALK ID, PARENT ALK ID, AFFILIATION TYPE from PUB REL PARTY PARTY & PUB TEAM AFFILIATION (MDM table) • Only Active Affiliation data from PUB REL PARTY PARTY (MDM) will be fetched in Affiliation Dimension. **Team Customer Affiliation (MAP_TEAM_CUSTOMER_AFFILIATION)** • MAP_TEAM_CUSTOMER_AFFILIATION contains the parent and child customer information for a team along with Child Hierarchy Level and will be populated from PUB_TEAM_AFFILIATION and PUB_BEST_AFFIL_HIERARCHY (MDM). • **CHILD_CUST_DIM_ID** will be populated from CUSTOMER DIMENSION based on CHILD ALK_ID • **PARENT_CUST_DIM_ID** will be populated from CUSTOMER DIMENSION based on PARENT ALK_ID • **TEAM_ID and TEAM_NAME** will be Populated from PUB_TEAM_AFFILIATION for only active records. • **CHILD_HIERARCHY_LVL** will be Populated from BEST AFFIL HIERARCHY and TEAM AFFILIATION (MDM) based on CHILD_ALK_ID and TEAM_ID. • **PARENT_HIERARCHY_LVL** will bePopulated from BEST AFFIL HIERARCHY using below rule – WHEN ALK_ID IS NOT NULL- 'PARTY_LEVEL' WHEN CLINIC IS NOT NULL – '2' WHEN HOSPITAL IS NOT NULL - '3' WHEN IDN IS NOT NULL – '4' WHEN CORPORATE IS NOT NULL – '5'
BRD-REQ-SEM-3	• **Team Customer Affiliation information** like TEAM_DIM_ID, TEAM_NAME, CHILD_CUST_DIM_ID, PARENT_CUST_DIM_ID, CHILD_HIERARCHY_LVL and PARENT_HIERARCHY_LVL will be directly pulled from MAP TEAM CUSTOMER AFFILIATION. • **CHILD_ALK_ID** will be populated from CUSTOMER MASTER based on CHILD CUST DIM ID • **PARENT_ALK_ID** will be populated from CUSTOMER MASTER table based on PARENT CUST DIM ID • **AFFILIATION_TYPE** will be populated from DIM_AFFILIATION based on CHILD CUST DIM ID and PARENT CUST DIM ID

BRD-REQ-SEM-4	**Customer Affiliation Frozen** • Weekly versions of Customer Affiliation will be restored for latest 4 weeks. • Based on Freeze date and Version Insert date, the corresponding Customer Affiliation Version will be freeze. This is a Quarterly Ad-hoc process. • Freeze date will be fetched from XREF_DATA_FREEZE_DETAIL. • SEM_CUSTOMER_AFFILIATION_FROZEN is cumulative over time and holds complete history of frozen Customer Master data. Currently, it holds data from 2020 Q4.

Product	Source	Cycle	Freeze Date	Start Date	End Date
NA	Customer	2019Q4	4/4/2020	10/7/2019	1/10/2020

4.1.5 CUSTOMER IDENTIFIER

BRD-REQ-OBJ-1	• PUB_DEA • PUB_IDENTIFIER • PUB_PARTY_XREF • MAP_CUSTOMER_IDENTIFIER • DIM_DEA • SEM_CUSTOMER_IDENTIFIER • SEM_ CUSTOMER_IDENTIFIER _FROZEN

BRD-REQ-DW-2	**DEA Dimension (DIM_DEA)**
	
	• DEA Dimension contains information customer and address level information for each dea number, drug schedule, status code, start date and end date.
	• New DEA Records will be inserted, and existing DEA Records will be updated into DEA Dimension based on ALK_ID, ADDR ALK ID, DEA NUM from PUB DEA (MDM table)
	• Only Active DEA Records will be populated from PUB DEA (MDM)- identified as IS_Deleted=NULL and DEA_STATUS_CD='A'.'I'.
	
	Customer Identifier (MAP CUSTOMER IDENTIFIER)
	
	• MAP CUSTOMER IDENTIFIER contains ALK_ID and SOURCE_ID information.
	• Include ALK_IDs and SOURCE_ID from
	  ○ PUB IDENTIFIER where IDENTIFIER TYPE CD not in ('DDD','XPO ID') for
	  ○ PUB PARTY XREF where DSP ID in ('DDD','XPO') for the active records.

<table>
<tr><td>BRD-REQ-SEM-3</td><td>SEM CUSTOMER_IDENTIFIER

• Populate all active records (ALK_ID and SOURCE_ID) from DEA Dimension (DEA RANK=1) and MAP_CUSTOMER_IDENTIFIER (IDENTIFIER RANK=1).
• Source will be
  ○ defaulted to ‘DEA’ for records sourced from DIM_DEA
  ○ populated as is for records sourced from MAP_CUSTOMER_IDENTIFIER.
• IS XREF will be
  ○ defaulted to ‘FALSE’ for DIM_DEA
  ○ populated as is for records sourced from MAP_CUSTOMER_IDENTIFIER.
• ALK ID will be
  ○ populated from SEM CUSTOMER MASTER based on CUST DIM ID for records sourced from DIM_DEA
  ○ populated as is for records sourced from MAP_CUSTOMER_IDENTIFIER.
• SOURCE ID will be
  ○ populated as DEA NUM from DEA Dimension for records sourced from DIM_DEA
  ○ populated as is for records sourced from MAP_CUSTOMER_IDENTIFIER.
• RANK will be
  ○ populated from DIM_DEA for active DEAs.
  ○ Defaulted to NULL for records sourced from MAP_CUSTOMER_IDENTIFIER.</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td><u>Customer Identifier Frozen</u>
• Weekly versions of Customer Identifier will be restored for latest 4 weeks.
• Based on Freeze date and Version Insert date, the corresponding Customer Identifier Version will be freeze. This is a Quarterly Ad-hoc process.
• RANK will be directly populated from DIM_DEA for active DEAs.
• Freeze date will be fetched from XREF_DATA_FREEZE_DETAIL.

<table><tr><th>Product</th><th>Source</th><th>Cycle</th><th>Freeze Date</th><th>Start Date</th><th>End Date</th></tr><tr><td>NA</td><td>Customer</td><td>2019Q4</td><td>4/4/2020</td><td>10/7/2019</td><td>1/10/2020</td></tr></table>
• SEM_CUSTOMER_IDENTIFIER_FROZEN is cumulative over time and holds complete history of frozen Customer Master data. Currently, it holds data from 2020 Q4.</td></tr>
</table>

4.1.6 CUSTOMER DECILE

BRD-REQ-OBJ-1	• SEM_CUSTOMER_MASTER • XREF_TIME_BASED_CUSTOMER_ATTRIBUTE • SEM_CUSTOMER_DECILE • VW_SEM_CUSTOMER_DECILE

BRD-REQ-SEM-2

Decile

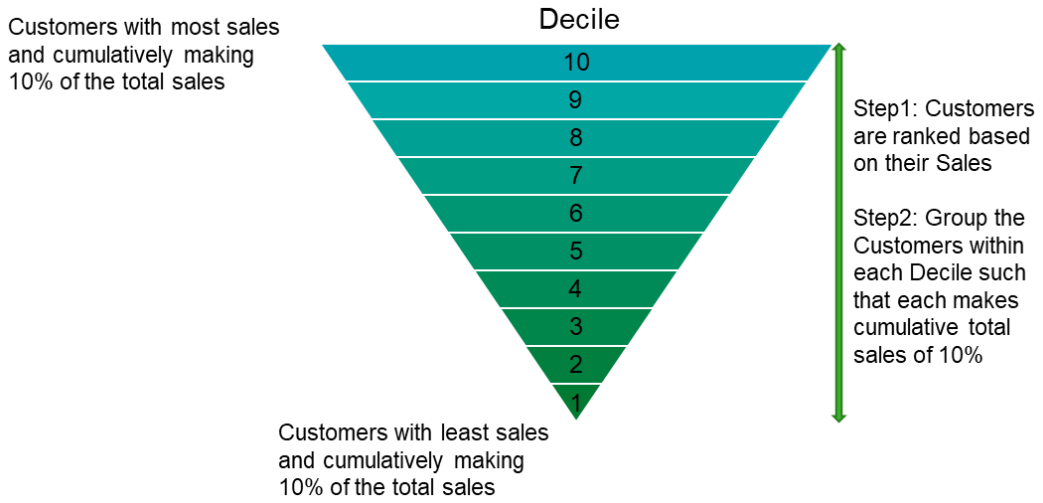
- Decile will be calculated for each Customer by Decile scope, data type and Period
    - Decile Scope will be Product, Brand, Product Group and Market
    - Decile will be calculated every time from scratch going back to historical data periods (time travel functionality). For month it would be 24 and for week it would be 52.
    - Data Type, Frozen/Current Flag, Projected/Current Flag will be used to pull correct sales dataset. Sales units will be used to pull correct units from the dataset.
- Below is the sample structure of the table in which Deciles data would be maintained. It will contain data related to Aristada, Vivitrol and Lybalvi Brands and source data with Projected feeds.

Customer Type	ALK ID	Decile Scope	Value Scope	Sales units	Data Type	Frozen /Current	Projected/ Enhanced	Period Type	Period	Period Start Date	Period End Date	Decile
HCP	ALK001499849	Brand	Aristada	TRx	XPO	Frozen	Projected	Month	R3	1/1/2020	3/31/2020	10
HCP	ALK001499850	Brand	Aristada	TRx	XPO	Current	Projected	Week	R6	10/1/2019	3/31/2020	5
HCO	ALK001499851	Market	ALAI	TRx	DMND	Frozen	Projected	Month	R12	4/1/2019	3/31/2020	1

- Following is the XREF table template using which the Decile process will run:

Decile Scope	Value Scope	Period Type	Period Value	Period Time Travel	Sales units	Customer Type	Data Type	Frozen/Current	Projected/ Enhanced
Brand	Aristada	Month	3	24	TRx	HCP	XPN	Frozen	Projected
Brand	Vivitrol	Week	6	52	Units	HCO	DMND		
Group	ALAI	Week	12	52	TRx	HCP	XPN	Current	Projected
Market	Psychiatry	Month	3	24	TRx	HCP	XPN	Frozen	Projected

- Following are the exclusions that are to be applied where Customer Type is HCP
    - IQVIA Prescriber IDs does start with '95', '96', '97', '98', '99'. Not actually Prescribers

	 • VW_SEM_CUSTOMER_DECILE holds as is data in semantic Customer Decile and is created to cater Data exchange between Alkermes and ZAIDYN (Snowshare)

4.1.7 PRESCRIBER STATUS

BRD-REQ-OBJ-1	• SEM_XPO_PROJECTED • SEM_XPO_PROJECTED_FROZEN • XREF_TIME_BASED_CUSTOMER_ATTRIBUTE • SEM_PRESCRIBER_STATUS

BRD-REQ-SEM-2	**Prescriber Status** • **Prescriber Status** will be calculated based on below logic for each Customer: If Rx(Current Month) >0 and Rx (Last 6 months)=0, then 'New' Else, Rx(Current Month) >0 and Rx (Last 6 months)>0, then 'Existing' Else, Rx(Last 3 months) =0 and Rx (Last 12 months)>0, then 'Lapsed', Else NA. NOTE: Rx value for the Prescribers will be sourced form Semantic Xponent Sales Vivitrol and Lybalvi and From Frozen Xponent for Aristada.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
New (R6)						No TRx in last 6 months						Has TRx
Existing						Has TRx in last 6 months						Has TRx
Lapsed	TRx in any of these prior 9 months									No TRx	No TRx	No TRx
NA	All Others											

- Product Details like **PROD_MASTER_ID** and **PRODUCT_NAME** will be fetched from SEM_PRODUCT_GROUP based on PROD_DIM_ID.
- Month will be populated from Split_Wk_Dt from SEM_XPO_PROJECTED/ SEM_XPO_PROJECTED_FROZEN in 'YYYY-MM-DD' format.
- Below Columns will be directly populated from Source

SEM_PRESCRIBER_STATUS	SOURCE_TABLE	SOURCE_COLUMN
ALK_ID	SEM_XPO_PROJECTED/ SEM_XPO_PROJECTED_FROZEN	ALK_ID

4.2 CUSTOMER 360

Customer 360 process constitutes of the following –

1. Affinity Monitor
2. Access Monitor
3. C360 DNORM Process
4. C360 Customer Attribute Process

4.2.1 AFFINITY MONITOR

BRD-REQ-RAW-1	**Feed Id:** 574 **Feed Name:** AFFINITY_MONITOR_ **Feed Description:** This feed contains Affinity monitor data. **Source**: ZS associates. **Subject Area:** Affinity Monitor

<table>
<tr><td></td><td>Load strategy (Incremental/ Full) – Full
Restatement (Yes/ No): No
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – BI-ANNUAL.
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- NA
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>Tables Covered<ul><li>RAW_AFFINITY_MONITOR</li><li>CLNS_AFFINITY_MONITOR</li><li>SEM_AFFINITY_MONITOR</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-3</td><td><ul><li>Affinity Monitor data for latest two semesters will be loaded in the warehouse BI-Annually.</li><li>ALK_ID will be populated as FINAL_ALK_ID from ALK ID MASTER based on CONTRIBUTOR ID from source.</li><li>Semester field (values like S122, S222) will be the differentiating factor between two different semesters.</li><li>TOP_CHANNELS_VALUE_1, TOP_CHANNELS_VALUE_2, TOP_CHANNELS_VALUE_3, TOP_CHANNELS_VALUE_4, TOP_CHANNELS_VALUE_5, TOP_CHANNELS_VALUE_6 will be populated from TOP_CHANNELS. For Example – TOP_CHANNELS value from source is “DPH, DPL,PI” then TOP_CHANNELS_VALUE_1=’DPH’; TOP_CHANNELS_VALUE_2=’DPL’; TOP_CHANNELS_VALUE_3=’PI’ and other values will be NULL.</li><li>TOP_CHANNELS_PLACEHOLDER_1, TOP_CHANNELS_PLACEHOLDER_2 are placeholders for future reference.</li><li>Below columns will be directly populated from Source</li></ul>
<table>
<tr><th>SEM AFFINITY MONITOR</th><th>SOURCE COLUMN</th></tr>
<tr><td>PFF_CTT_VOL</td><td>PFF_CTT_VOL</td></tr>
<tr><td>PFF_EN</td><td>PFF_EN</td></tr>
<tr><td>PFF_EN_QUINTILE</td><td>PFF_EN_QUINTILE</td></tr>
<tr><td>PFF_AFFINITY</td><td>PFF_AFFINITY</td></tr>
<tr><td>PFF_CTBR_CTT_VOL</td><td>PFF_CTBR_CTT_VOL</td></tr>
<tr><td>PFF_CTBR_EN</td><td>PFF_CTBR_EN</td></tr>
<tr><td>PR_CTT_VOL</td><td>PR_CTT_VOL</td></tr>
<tr><td>PR_EN</td><td>PR_EN</td></tr>
<tr><td>PR_EN_QUINTILE</td><td>PR_EN_QUINTILE</td></tr>
<tr><td>PR_AFFINITY</td><td>PR_AFFINITY</td></tr>
<tr><td>PR_CTBR_CTT_VOL</td><td>PR_CTBR_CTT_VOL</td></tr>
<tr><td>PR_CTBR_EN</td><td>PR_CTBR_EN</td></tr>
<tr><td>PI_CTT_VOL</td><td>PI_CTT_VOL</td></tr>
<tr><td>PI_EN</td><td>PI_EN</td></tr>
<tr><td>PI_EN_QUINTILE</td><td>PI_EN_QUINTILE</td></tr>
<tr><td>PI_AFFINITY</td><td>PI_AFFINITY</td></tr>
<tr><td>PI_CTBR_CTT_VOL</td><td>PI_CTBR_CTT_VOL</td></tr>
<tr><td>PI_CTBR_EN</td><td>PI_CTBR_EN</td></tr>
<tr><td>DPH_CTT_VOL</td><td>DPH_CTT_VOL</td></tr>
</table></td></tr>
</table>

		DPH_EN	DPH_EN	
		DPH_EN_QUINTILE	DPH_EN_QUINTILE	
		DPH_AFFINITY	DPH_AFFINITY	
		DPH_CTBR_CTT_VOL	DPH_CTBR_CTT_VOL	
		DPH_CTBR_EN	DPH_CTBR_EN	
		DPL_CTT_VOL	DPL_CTT_VOL	
		DPL_EN	DPL_EN	
		DPL_EN_QUINTILE	DPL_EN_QUINTILE	
		DPL_AFFINITY	DPL_AFFINITY	
		DPL_CTBR_CTT_VOL	DPL_CTBR_CTT_VOL	
		DPL_CTBR_EN	DPL_CTBR_EN	
		DRT_CTT_VOL	DRT_CTT_VOL	
		DRT_EN	DRT_EN	
		DRT_EN_QUINTILE	DRT_EN_QUINTILE	
		DRT_AFFINITY	DRT_AFFINITY	
		DRT_CTBR_CTT_VOL	DRT_CTBR_CTT_VOL	
		DRT_CTBR_EN	DRT_CTBR_EN	
		TOP_CHANNELS_SRC_VALUE	TOP_CHANNELS_SRC_VALUE	
		TOP_CHANNELS_VALUE_1	TOP_CHANNELS_VALUE_1	
		TOP_CHANNELS_VALUE_2	TOP_CHANNELS_VALUE_2	
		TOP_CHANNELS_VALUE_3	TOP_CHANNELS_VALUE_3	
		TOP_CHANNELS_VALUE_4	TOP_CHANNELS_VALUE_4	
		TOP_CHANNELS_VALUE_5	TOP_CHANNELS_VALUE_5	
		TOP_CHANNELS_VALUE_6	TOP_CHANNELS_VALUE_6	
		TOP_CHANNELS_PLACEHOLDER_1	TOP_CHANNELS_PLACEHOLDER_1	
		TOP_CHANNELS_PLACEHOLDER_2	TOP_CHANNELS_PLACEHOLDER_2	
		PP_ACCESS_RATING	PP_ACCESS_RATING	
		NPP_ACCESS_RATING	NPP_ACCESS_RATING	
		PEER_OFFER_EN	PEER_OFFER_EN	
		COPAY_OFFER_EN	COPAY_OFFER_EN	
		SAMPLE_OFFER_EN	SAMPLE_OFFER_EN	
		VOUCHER_OFFER_EN	VOUCHER_OFFER_EN	
		SEMESTER	SEMESTER	

4.2.2 ACCESS MONITOR

<table>
<tr><th>S NO</th><th>Requirement</th></tr>
<tr><td>BRD-REQ-1
RAW -1</td><td>Feed Id: 573
Feed Name: ACCESS_MONITOR_
Feed Description: This feed contains Accessibility monitor data.
Source: ZS associates.
Subject Area: Access Monitor
Load strategy (Incremental/ Full) – Full
Restatement (Yes/ No): No
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – BI-ANNUAL.
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- NA
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>Tables Covered –
• RAW_ACCESS_MONITOR
• CLNS_ACCESS_MONITOR
• SEM_ACCESS_MONITOR</td></tr>
<tr><td>BRD-REQ-SEM-3</td><td>• Access Monitor data for the latest two semesters will be loaded in the warehouse BI-Annually.
• ALK_ID will be populated as FINAL_ALK_ID from ALK ID MASTER table based on CLIENT PHYSICIAN ID from source data.
• Lower values of rating will be populated in Semantic by fetching the first value after splitting the source value based on ‘’ for below fields:
<table>
<tr><th>Sem table field</th><th>Source Fields</th></tr>
<tr><td>TEAMS_NO_SEE_RATING_LOWER_VALUE</td><td>TEAMS_NO_SEE_RATING</td></tr>
<tr><td>TEAMS_CALL_FREQ_LOWER_VALUE</td><td>TEAMS_CALL_FREQ</td></tr>
<tr><td>TEAMS_ATTAINMENT_LOWER_VALUE</td><td>TEAMS_ATTAINMENT</td></tr>
<tr><td>TEAMS_ATTN_PERC_LOWER_VALUE</td><td>TEAMS_ATTN_PERC</td></tr>
<tr><td>TEAMS_SPEC_LOWER_VALUE</td><td>TEAMS_SPEC</td></tr>
<tr><td>TEAMS_ZIP_LOWER_VALUE</td><td>TEAMS_ZIP</td></tr>
<tr><td>TEAMS_CALL_FREQ_F2F_LOWER_VALUE</td><td>TEAMS_CALL_FREQ_F2F</td></tr>
<tr><td>TEAMS_CALL_FREQ_REMOTE_LOWER_VALUE</td><td>TEAMS_CALL_FREQ_REMOTE</td></tr>
</table>
• Upper values of rating will be populated in SEM table by fetching the third value after splitting the source value based on ‘ ’. If populated value is ‘more’ then 999 will be populated else populated value will be reported in SEM table for below fields:
<table>
<tr><th>Sem table field</th><th>Source Fields</th></tr>
<tr><td>TEAMS_NO_SEE_RATING_UPPER_VALUE</td><td>TEAMS_NO_SEE_RATING</td></tr>
<tr><td>TEAMS_CALL_FREQ_UPPER_VALUE</td><td>TEAMS_CALL_FREQ</td></tr>
<tr><td>TEAMS_ATTAINMENT_UPPER_VALUE</td><td>TEAMS_ATTAINMENT</td></tr>
<tr><td>TEAMS_ATTN_PERC_UPPER_VALUE</td><td>TEAMS_ATTN_PERC</td></tr>
</table></td></tr>
</table>

TEAMS_SPEC_UPPER_VALUE	TEAMS_SPEC
TEAMS_ZIP_UPPER_VALUE	TEAMS_ZIP
TEAMS_CALL_FREQ_F2F_UPPER_VALUE	TEAMS_CALL_FREQ_F2F
TEAMS_CALL_FREQ_REMOTE_UPPER_VALUE	TEAMS_CALL_FREQ_REMOTE

- Below fields will be directly populated from source:

Semantic Table Field	Source Field
AM_NO_SEE_RATING	AM_NO_SEE_RATING
TEAMS_NO_SEE_RATING	TEAMS_NO_SEE_RATING_SRC_VALUE
ANNUAL_CALL_FREQ_PERC_25	ANNUAL_CALL_FREQ_PERC_25
ANNUAL_CALL_FREQ_PERC_50	ANNUAL_CALL_FREQ_PERC_50
ANNUAL_CALL_FREQ_PERC_75	ANNUAL_CALL_FREQ_PERC_75
TEAMS_CALL_FREQ	TEAMS_CALL_FREQ_SRC_VALUE
INDUSTRY_ATTAINMENT	INDUSTRY_ATTAINMENT
TEAMS_ATTAINMENT	TEAMS_ATTAINMENT_SRC_VALUE
ATTN_PERC_25	ATTN_PERC_25
ATTN_PERC_50	ATTN_PERC_50
ATTN_PERC_75	ATTN_PERC_75
TEAMS_ATTN_PERC	TEAMS_ATTN_PERC_SRC_VALUE
AM_SPEC_GROUPING	AM_SPEC_GROUPING
TEAMS_SPEC	TEAMS_SPEC_SRC_VALUE
AM_ZIP	AM_ZIP
TEAMS_ZIP	TEAMS_ZIP_SRC_VALUE
REACH_TYPE	REACH_TYPE
ANNUAL_F2F_CALL_FREQ_PERC_25	ANNUAL_F2F_CALL_FREQ_PERC_25
ANNUAL_F2F_CALL_FREQ_PERC_50	ANNUAL_F2F_CALL_FREQ_PERC_50
ANNUAL_F2F_CALL_FREQ_PERC_75	ANNUAL_F2F_CALL_FREQ_PERC_75
TEAMS_CALL_FREQ_F2F	TEAMS_CALL_FREQ_F2F_SRC_VALUE
ANNUAL_REMOTE_CALL_FREQ_PERC_25	ANNUAL_REMOTE_CALL_FREQ_PERC_25
ANNUAL_REMOTE_CALL_FREQ_PERC_50	ANNUAL_REMOTE_CALL_FREQ_PERC_50
ANNUAL_REMOTE_CALL_FREQ_PERC_75	ANNUAL_REMOTE_CALL_FREQ_PERC_75
TEAMS_CALL_FREQ_REMOTE	TEAMS_CALL_FREQ_REMOTE_SRC_VALUE
SEMESTER	SEMESTER

4.2.3 C360 DNORM PROCESS

BRD-REQ-OBJ-1	**Tables Covered** • SEM_C360_WO_POSITION • SEM_C360_W_POSITION • SEM_C360_W_STRENGTH • SEM_C360_W_INDICATION • VW_SEM_C360_W_POSITION • VW_SEM_C360_W_STRENGTH • VW_SEM_C360_WO_POSITION
BRD-REQ-SEM-1	• C360 WO POSITION contains denormalized databased on– ALK_ID, Brand Level, Split Week Id and Time Id. Data will be populated with the Full load strategy and follows the weekly load cadence. • **DATE_WEEK and SPLIT_WEEK_DATE will be populated as WEEKENDING_FRIDAY AND SW_END_DATE respectively, from SEM_SPLIT_WEEK_CALENDAR based on DATE.** **Call Activity Data** • Call Activity Data will bepopulated for 3 Alkermes brands - Vivitrol, Lybalvi and Aristada • Following fields will be computed using CALLTYPE field from SEM CALL - Calltype_Call_Only, Calltype_Gd_with_Sample, Calltype_Group_Detail • Populate Calltype_Call_Only, Calltype_Gd_with_sample and Calltype_Group_Detail columns by calculating count of CALL_TYPE aggregated on all the values of Call Type (Call Only, Group Detail with Sample and Group Detail) • Following fields will becomputed using CALLMETHOD field from SEM CALL - Callmethod_Phone_Count, Callmethod_Email_Count, Callmethod_in_Person_Count, Callmethod_Remote_Count • Populate Callmethod_Phone_Count, Callmethod_Email_Count, Callmethod_in_Person_Count and Callmethod_Remote_Count columns by calculating count of CALL_METHOD aggregated on all the values of Call Method (Phone, Email, (In Person, 'In Person/Remote') and Remote in ('REMOTE','ENGAGE MEETING','WEBEX','WEBINAR','VIRTUAL','CONFERENCE')) **HCP Samples Data** • HCP Samples Data will be populated for 3 Alkermes brands - Vivitrol, Lybalvi and Aristada, only for ORDER_TYPE as 'Enhanced', 'Veeva' and 'Policy'. • Populate Order_Type_Enhanced, Order_Type_Veeva and Order_Type_Policy columns by calculating sum of SAMPLE_QUANTITY aggregated on all the values of ORDER_TYPE **Hospital Shipment Data** • Hospital Shipment Data will be populated for 2 Alkermes brands - Vivitrol and Aristada, only for ORDER_TYPE as 'Initial' and 'Replacement'.Populate Order_Type_Initial and Order_Type_Replacement columns by calculating sum of QUANTITY column aggregated on all the values of ORDER_TYPE **Hospital Registration Data** Hospital Registration Data will be populated for 2 Alkermes brands - Vivitrol and Aristada, only for STATUS as 'APPROVED' and 'NONAPPROVED'. • Populate Status_Approved and Status_NonApproved columns by calculating count of STATUS column aggregated on all the values of STATUS.

Sales Data

- Sales Data will be populated for 3 Alkermes brands – Vivitrol, Lybalvi and Aristada
- Populate the columns NRX, TRX, MOT, Sales_Units and Sales_Volumne_Units in the C360 layer by calculating sum of NRX, TRX, MOT, Sales_Units and Sales_Volumne_Units columns aggregated on ALK_ID.
- Populate NBRX field from PROJECTED_TRX of SEM_IMS_SOB_PRESCRIBER_MONTHLY table aggregated on ALK_ID where SOB_DESCRIPTION in ('Add On', 'New Therapy Start', 'Switch') and BRAND_COMPETITOR_FLAG = 'B'

Conference Data

Conference Data will be populated for 3 Alkermes brands – Vivitrol, Lybalvi and Aristada, only for as 'HOSPITALITY', 'BOOTH' and 'PRODUCT THEATRE'.

- Populate Activity_Hospitality_Session_Count, Activity_Booth_Session_Count and Activity_Product_Theatre_Session_Count columns by calculating sum of SESSION_COUNT column aggregated on all the values of ACTIVITY.
- Populate Activity_Hospitality_Session_Duration, Activity_Booth_Session_Duration and Activity_Product_Theatre_Session_Duration columns by calculating sum of SESSION_DURATION column aggregated on all the values of ACTIVITY.

Marketo Activity Data

- Marketo Activity Data will be populated for 3 Alkermes brands – Vivitrol, Lybalvi and Aristada, only for below ACTIVITY_TYPE_ID.Populate Email_Sent, Email_Delivered, Email_Unsubscribed, Email_Opened, Email_Clicked, and Email_Bounced_Soft, Email_Bounced_Hard, Visit_Webpage, Fill_Out_Form, Click_Link columns by calculating count of ACTIVITY_TYPE_ID column

Precision Trigger

Record Type Dismiss Count –

- Populate Recordtype1_Dismiss_Count, Recordtype2_Dismiss_Count and so on by calculating sum of DISMISS column aggregated on the values of RECORDTYPE; Where RECORDTYPE = RECORDTYPE1, RECORDTYPE2, and so on respectively
- Five placeholder values of Record type will be used in the C360 Deformalized table

Record Type Mark as Complete Count –

- Populate Recordtype1_Mark_As_Complete_Count and Recordtype2_ Mark_As_Complete_Count and so on by calculating count of MARK_AS_COMPLETE column aggregated on all the values of RECORDTYPE where RECORDTYPE = RECORDTYPE1, RECORDTYPE2, and so on respectively
- Five placeholder values of Recordtype will be used in the C360 Deformalized table.

Priority Dismiss Count

- Populate Priority1_Dismiss_Count and Priority2_Dismiss_Count columns and so on by calculating count of DISMISS column aggregated on all the values of PRIORITY; where PRIORITY = PRIORITY1, PRIORITY2, and so on respectively
- Five placeholder values of Priority will be used in the C360 Deformalized table.

Priority Mark as Complete Count

Populate Priority1_Mark_As_Complete_Count and Priority2_ Mark_As_Complete_Count columns and so on by calculating count of MARK_AS_COMPLETE column aggregated on all the values of PRIORITY; where PRIORITY = PRIORITY1, PRIORITY2, and so on respectively

- Five placeholder values of Priority will be used in the C360 Denormalized table.

Access Monitor Data

- **Access Monitor data will be loaded from SEM_ACCESS_MONITOR only for the latest semester.**

- Populate the columns as attributes in the DNORM tables as per the mapping mentioned below -

SEMATIC TABLE FIELD	SOURCE FIELD
AM_NO_SEE_RATING	AM_NO_SEE_RATING
TEAMS_NO_SEE_RATING_SRC_VALUE	TEAMS_NO_SEE_RATING_SRC_VALUE
TEAMS_NO_SEE_RATING_LOWER_VALUE	TEAMS_NO_SEE_RATING_LOWER_VALUE
TEAMS_NO_SEE_RATING_UPPER_VALUE	TEAMS_NO_SEE_RATING_UPPER_VALUE
ANNUAL_CALL_FREQ_PERC_25	ANNUAL_CALL_FREQ_PERC_25
ANNUAL_CALL_FREQ_PERC_50	ANNUAL_CALL_FREQ_PERC_50
ANNUAL_CALL_FREQ_PERC_75	ANNUAL_CALL_FREQ_PERC_75
TEAMS_CALL_FREQ_SRC_VALUE	TEAMS_CALL_FREQ_SRC_VALUE
TEAMS_CALL_FREQ_LOWER_VALUE	TEAMS_CALL_FREQ_LOWER_VALUE
TEAMS_CALL_FREQ_UPPER_VALUE	TEAMS_CALL_FREQ_UPPER_VALUE
INDUSTRY_ATTAINMENT	INDUSTRY_ATTAINMENT
TEAMS_ATTAINMENT_SRC_VALUE	TEAMS_ATTAINMENT_SRC_VALUE
TEAMS_ATTAINMENT_LOWER_VALUE	TEAMS_ATTAINMENT_LOWER_VALUE
TEAMS_ATTAINMENT_UPPER_VALUE	TEAMS_ATTAINMENT_UPPER_VALUE
ATTN_PERC_25	ATTN_PERC_25
ATTN_PERC_50	ATTN_PERC_50
ATTN_PERC_75	ATTN_PERC_75
TEAMS_ATTN_PERC_SRC_VALUE	TEAMS_ATTN_PERC_SRC_VALUE
TEAMS_ATTN_PERC_LOWER_VALUE	TEAMS_ATTN_PERC_LOWER_VALUE
TEAMS_ATTN_PERC_UPPER_VALUE	TEAMS_ATTN_PERC_UPPER_VALUE
AM_SPEC_GROUPING	AM_SPEC_GROUPING
TEAMS_SPEC_SRC_VALUE	TEAMS_SPEC_SRC_VALUE
TEAMS_SPEC_LOWER_VALUE	TEAMS_SPEC_LOWER_VALUE
TEAMS_SPEC_UPPER_VALUE	TEAMS_SPEC_UPPER_VALUE
AM_ZIP	AM_ZIP
TEAMS_ZIP_SRC_VALUE	TEAMS_ZIP_SRC_VALUE
TEAMS_ZIP_LOWER_VALUE	TEAMS_ZIP_LOWER_VALUE
TEAMS_ZIP_UPPER_VALUE	TEAMS_ZIP_UPPER_VALUE
REACH_TYPE	REACH_TYPE
ANNUAL_F2F_CALL_FREQ_PERC_25	ANNUAL_F2F_CALL_FREQ_PERC_25

ANNUAL_F2F_CALL_FREQ_PERC_50	ANNUAL_F2F_CALL_FREQ_PERC_50
ANNUAL_F2F_CALL_FREQ_PERC_75	ANNUAL_F2F_CALL_FREQ_PERC_75
TEAMS_CALL_FREQ_F2F_SRC_VALUE	TEAMS_CALL_FREQ_F2F_SRC_VALUE
TEAMS_CALL_FREQ_F2F_LOWER_VALUE	TEAMS_CALL_FREQ_F2F_LOWER_VALUE
TEAMS_CALL_FREQ_F2F_UPPER_VALUE	TEAMS_CALL_FREQ_F2F_UPPER_VALUE
ANNUAL_REMOTE_CALL_FREQ_PERC_25	ANNUAL_REMOTE_CALL_FREQ_PERC_25
ANNUAL_REMOTE_CALL_FREQ_PERC_50	ANNUAL_REMOTE_CALL_FREQ_PERC_50
ANNUAL_REMOTE_CALL_FREQ_PERC_75	ANNUAL_REMOTE_CALL_FREQ_PERC_75
TEAMS_CALL_FREQ_REMOTE_SRC_VALUE	TEAMS_CALL_FREQ_REMOTE_SRC_VALUE
TEAMS_CALL_FREQ_REMOTE_LOWER_VALUE	TEAMS_CALL_FREQ_REMOTE_LOWER_VALUE
TEAMS_CALL_FREQ_REMOTE_UPPER_VALUE	TEAMS_CALL_FREQ_REMOTE_UPPER_VALUE

- These are customer attributes and are not a function of the product or anything else.

Promotional Materials Ordered Data

- Populate the columns Qty_To_Promise, Qty_Ordered and Qty_Shipped in the C360 layer by calculating sum of Qty_To_Promise, Qty_Ordered and Qty_Shipped columns aggregated on ALK_ID

Promotional Materials Delivered Data

- Promotional Materials Delivered Data is populated for 3 Alkermes brands – Vivitrol, Lybalvi and Aristada

Product Type –

- Product data will be populated from SEM_PROMO_MATS_TBM_DELIVERED with PRODUCT_TYPE as 'Demo Kit', 'COPAY CARD', 'CONFERENCE', 'REPRINT', 'Sample Request' and 'PATIENT/CAREGIVER'.
- Populate Product_Type_Demo_Kit, Product_Type_Copay_Card, Product_Type_Conference, Product_Type_Reprint, Product_Type_Sample_Request and Product_Type_Patient_Caregiver columns by calculating sum of QUANTITY column aggregated on all the values of PRODUCT_TYPE.

Delivery Status –

- Delivery information will be populated from SEM_PROMO_MATS_TBM_DELIVERED with DELIVERY_STATUS as Shipped_vod, Cancel_Request_vod, Cancelled_vod and Cancelled, Delivered_vod, In_Progress_vod and NULL
- Populate Delivery_Status_Shipped, Delivery_Status_Cancel_Request, Delivery_Status_Cancelled, Delivery_Status_Delivered, Delivery_Status_In_Progress and No_Delivery_Status columns by calculating sum of QUANTITY column aggregated on all the values of DELIVERY_STATUS.

Call Plan Data

- Call Plan data will be populated for 3 Alkermes brands – Vivitrol, Lybalvi and Aristada, till current quarter based on teams

Planned Calls –

- Brand Planned Calls will be populated from Planned calls of SEM_CALL_PLAN by aggregating data on BRAND

Actual Calls –

- Brand Actual Calls will be populated from Count of CALL_ID of SEM_CALL_PLAN by data on BRAND

Remaining Calls –

Remaining Calls is populated by subtracting cumulative sum of actual calls from the planned calls

- These are customer attributes and are not a function of product or anything else.

HCP Affinity Monitor Data

HCP Affinity Monitor data will be populated from SEM_AFFINITY_MONITOR, only for the latest semester.

- Populate the columns by passing all the fields as per the mapping provided below

SEMATIC TABLE FIELD	SOURCE FIELD
PFF_CTT_VOL	PFF_CTT_VOL
PFF_EN	PFF_EN
PFF_EN_QUINTILE	PFF_EN_QUINTILE
PFF_AFFINITY	PFF_AFFINITY
PFF_CTBR_CTT_VOL	PFF_CTBR_CTT_VOL
PFF_CTBR_EN	PFF_CTBR_EN
PR_CTT_VOL	PR_CTT_VOL
PR_EN	PR_EN
PR_EN_QUINTILE	PR_EN_QUINTILE
PR_AFFINITY	PR_AFFINITY
PR_CTBR_CTT_VOL	PR_CTBR_CTT_VOL
PR_CTBR_EN	PR_CTBR_EN
PI_CTT_VOL	PI_CTT_VOL
PI_EN	PI_EN
PI_EN_QUINTILE	PI_EN_QUINTILE
PI_AFFINITY	PI_AFFINITY
PI_CTBR_CTT_VOL	PI_CTBR_CTT_VOL
PI_CTBR_EN	PI_CTBR_EN
DPH_CTT_VOL	DPH_CTT_VOL
DPH_EN	DPH_EN
DPH_EN_QUINTILE	DPH_EN_QUINTILE
DPH_AFFINITY	DPH_AFFINITY
DPH_CTBR_CTT_VOL	DPH_CTBR_CTT_VOL
DPH_CTBR_EN	DPH_CTBR_EN
DPL_CTT_VOL	DPL_CTT_VOL
DPL_EN	DPL_EN
DPL_EN_QUINTILE	DPL_EN_QUINTILE
DPL_AFFINITY	DPL_AFFINITY
DPL_CTBR_CTT_VOL	DPL_CTBR_CTT_VOL
DPL_CTBR_EN	DPL_CTBR_EN
DRT_CTT_VOL	DRT_CTT_VOL
DRT_EN	DRT_EN
DRT_EN_QUINTILE	DRT_EN_QUINTILE
DRT_AFFINITY	DRT_AFFINITY

DRT_CTBR_CTT_VOL	DRT_CTBR_CTT_VOL
DRT_CTBR_EN	DRT_CTBR_EN
TOP_CHANNELS_SRC_VALUE	TOP_CHANNELS_SRC_VALUE
TOP_CHANNELS_VALUE_1	TOP_CHANNELS_VALUE_1
TOP_CHANNELS_VALUE_2	TOP_CHANNELS_VALUE_2
TOP_CHANNELS_VALUE_3	TOP_CHANNELS_VALUE_3
TOP_CHANNELS_VALUE_4	TOP_CHANNELS_VALUE_4
TOP_CHANNELS_VALUE_5	TOP_CHANNELS_VALUE_5
TOP_CHANNELS_VALUE_6	TOP_CHANNELS_VALUE_6
TOP_CHANNELS_PLACEHOLDER_1	TOP_CHANNELS_PLACEHOLDER_1
TOP_CHANNELS_PLACEHOLDER_2	TOP_CHANNELS_PLACEHOLDER_2
PP_ACCESS_RATING	PP_ACCESS_RATING
NPP_ACCESS_RATING	NPP_ACCESS_RATING
PEER_OFFER_EN	PEER_OFFER_EN
COPAY_OFFER_EN	COPAY_OFFER_EN
SAMPLE_OFFER_EN	SAMPLE_OFFER_EN
VOUCHER_OFFER_EN	VOUCHER_OFFER_EN

- These are customer attributes and are not a function of product or anything else.

Speaker Attendee Detail Data

- DAYS_SINCE_LAST_EVENT_ATTENDANCE will be populated as difference between Weekending Date and last date of week in which the HCP has attended the program.
- DAYS_FOR_NEXT_EVENT_ATTENDANCE will be populated as difference between Weekending Date and next date in the next week in which the HCP has attended the program.
- Compute count of distinct PROGRAM_ID aggregated on ALK_ID, PROD_DIM_ID, SPLIT_WEEK_ID, WEEK_ID and use it to populate NUMBER_OF_EVENTS_ATTENDED field

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- C360 W POSITION contains denormalized data based on ALK_ID, Brand Level, Position ID, TERRITORY ID, Split Week Id and Time Id
- Data will be populated with the Full load strategy and follows the weekly load cadence.
- DATE_WEEK and SPLIT_WEEK_DATE will be populated as WEEKENDING_FRIDAY AND SW_END_DATE respectively, from SEM_SPLIT_WEEK_CALENDAR based on DATE.

Call Activity Data

- Call Activity Data will be populated for 3 Alkermes brands - Vivitrol, Lybalvi and Aristada
- Populate CALLTYPE_CALL_ONLY_RATIO, CALLTYPE_GD_WITH_SAMPLE_RATIO, CALLTYPE_GROUP_DETAIL_RATIO coulumns by calculating count of CALL_TYPE divided by NUMBER_OF_PRODUCT column aggregated on all the values of Call Type (Call Only, Group Detail with Sample and Group Detail)
- Populate CALLTYPE_CALL_ONLY_COUNT,CALLTYPE_GD_WITH_SAMPLE_COUNT, CALLTYPE_GROUP_DETAIL_COUNT coulumns by calculating count of CALL_TYPE aggregated on all the values of Call Type (Call Only, Group Detail with Sample and Group Detail)
- Populate CALLMETHOD_PHONE_RATIO,CALLMETHOD_EMAIL_RATIO,CALLMETHOD_IN_PERSON_RATIO,CALLMETHOD_REMOTE_RATIO columns by calculating count of CALL_METHOD divided by NUMBER_OF_PRODUCT column aggregated on all the values of Call Method (Phone, Email, (In Person, 'In Person/Remote') and Remote in ('REMOTE','ENGAGE MEETING','WEBEX','WEBINAR','VIRTUAL','CONFERENCE'))Populate CALLMETHOD_PHONE_COUNT,CALLMETHOD_EMAIL_COUNT,CALLMETHOD_IN_PERSON_COUNT,CALLMETHOD_REMOTE_COUNT columns by calculating count of CALL_METHOD aggregated on all the values of Call Method (Phone, Email, (In Person, 'In Person/Remote') and Remote in ('REMOTE','ENGAGE MEETING','WEBEX','WEBINAR','VIRTUAL','CONFERENCE'))
- PRODUCT_POSITION_1: These columns depict the number of calls for which the position of the product in the grain will be 1 in that week.
- PRODUCT_POSITION_2: These columns depict the number of calls for which the position of the product in the grain will be2 in that week.
- PRODUCT_POSITION_3: These columns depict the number of calls for which the position of the product in the grain will be 3 in that week.
- PRODUCT_POSITION_4: These columns depict the number of calls for which the position of the product in the grain will be 4 in that week.
- PRODUCT_POSITION_5: These columns depict the number of calls for which the position of the product in the grain will be5 in that week.

HCP Samples Data

- HCP Samples Data is populated for 3 Alkermes brands - Vivitrol, Lybalvi and Aristada, only for ORDER_TYPE = 'Enhanced', 'Veeva' and 'Policy'.
- Populate Order_Type_Enhanced, Order_Type_Veeva and Order_Type_Policy columns by calculating sum of SAMPLE_QUANTITY aggregated on all the values of ORDER_TYPE

Access Monitor Data

- Access Monitor Data will be populated from SEM_ACCESS_MONITOR only for latest semester.

Populate the columns as attributes in the DNORM tables as per the mapping mentioned below -

SEMATIC TABLE FIELD	SOURCE FIELD
AM_NO_SEE_RATING	AM_NO_SEE_RATING
TEAMS_NO_SEE_RATING_SRC_VALUE	TEAMS_NO_SEE_RATING_SRC_VALUE
TEAMS_NO_SEE_RATING_LOWER_VALUE	TEAMS_NO_SEE_RATING_LOWER_VALUE

TEAMS_NO_SEE_RATING_UPPER_VALUE	TEAMS_NO_SEE_RATING_UPPER_VALUE
ANNUAL_CALL_FREQ_PERC_25	ANNUAL_CALL_FREQ_PERC_25
ANNUAL_CALL_FREQ_PERC_50	ANNUAL_CALL_FREQ_PERC_50
ANNUAL_CALL_FREQ_PERC_75	ANNUAL_CALL_FREQ_PERC_75
TEAMS_CALL_FREQ_SRC_VALUE	TEAMS_CALL_FREQ_SRC_VALUE
TEAMS_CALL_FREQ_LOWER_VALUE	TEAMS_CALL_FREQ_LOWER_VALUE
TEAMS_CALL_FREQ_UPPER_VALUE	TEAMS_CALL_FREQ_UPPER_VALUE
INDUSTRY_ATTAINMENT	INDUSTRY_ATTAINMENT
TEAMS_ATTAINMENT_SRC_VALUE	TEAMS_ATTAINMENT_SRC_VALUE
TEAMS_ATTAINMENT_LOWER_VALUE	TEAMS_ATTAINMENT_LOWER_VALUE
TEAMS_ATTAINMENT_UPPER_VALUE	TEAMS_ATTAINMENT_UPPER_VALUE
ATTN_PERC_25	ATTN_PERC_25
ATTN_PERC_50	ATTN_PERC_50
ATTN_PERC_75	ATTN_PERC_75
TEAMS_ATTN_PERC_SRC_VALUE	TEAMS_ATTN_PERC_SRC_VALUE
TEAMS_ATTN_PERC_LOWER_VALUE	TEAMS_ATTN_PERC_LOWER_VALUE
TEAMS_ATTN_PERC_UPPER_VALUE	TEAMS_ATTN_PERC_UPPER_VALUE
AM_SPEC_GROUPING	AM_SPEC_GROUPING
TEAMS_SPEC_SRC_VALUE	TEAMS_SPEC_SRC_VALUE
TEAMS_SPEC_LOWER_VALUE	TEAMS_SPEC_LOWER_VALUE
TEAMS_SPEC_UPPER_VALUE	TEAMS_SPEC_UPPER_VALUE
AM_ZIP	AM_ZIP
TEAMS_ZIP_SRC_VALUE	TEAMS_ZIP_SRC_VALUE
TEAMS_ZIP_LOWER_VALUE	TEAMS_ZIP_LOWER_VALUE
TEAMS_ZIP_UPPER_VALUE	TEAMS_ZIP_UPPER_VALUE
REACH_TYPE	REACH_TYPE
ANNUAL_F2F_CALL_FREQ_PERC_25	ANNUAL_F2F_CALL_FREQ_PERC_25
ANNUAL_F2F_CALL_FREQ_PERC_50	ANNUAL_F2F_CALL_FREQ_PERC_50
ANNUAL_F2F_CALL_FREQ_PERC_75	ANNUAL_F2F_CALL_FREQ_PERC_75
TEAMS_CALL_FREQ_F2F_SRC_VALUE	TEAMS_CALL_FREQ_F2F_SRC_VALUE
TEAMS_CALL_FREQ_F2F_LOWER_VALUE	TEAMS_CALL_FREQ_F2F_LOWER_VALUE
TEAMS_CALL_FREQ_F2F_UPPER_VALUE	TEAMS_CALL_FREQ_F2F_UPPER_VALUE
ANNUAL_REMOTE_CALL_FREQ_PERC_25	ANNUAL_REMOTE_CALL_FREQ_PERC_25
ANNUAL_REMOTE_CALL_FREQ_PERC_50	ANNUAL_REMOTE_CALL_FREQ_PERC_50
ANNUAL_REMOTE_CALL_FREQ_PERC_75	ANNUAL_REMOTE_CALL_FREQ_PERC_75

TEAMS_CALL_FREQ_REMOTE_SRC_VALUE	TEAMS_CALL_FREQ_REMOTE_SRC_VALUE
TEAMS_CALL_FREQ_REMOTE_LOWER_VALUE	TEAMS_CALL_FREQ_REMOTE_LOWER_VALUE
TEAMS_CALL_FREQ_REMOTE_UPPER_VALUE	TEAMS_CALL_FREQ_REMOTE_UPPER_VALUE

- These are customer attributes and are not a function of the product or anything else.

Promotional Materials Delivered Data

- Promotional Materials Delivered Data is populated for 3 Alkermes brands – Vivitrol, Lybalvi and Aristada

Product Type –

- Populate Product_Type_Demo_Kit, Product_Type_Copay_Card, Product_Type_Conference, Product_Type_Reprint, Product_Type_Sample_Request and Product_Type_Patient_Caregiver columns from SEM_PROMO_MATS_TBM_DELIVERED table by calculating sum of QUANTITY column aggregated on all the values of PRODUCT_TYPE ('Demo Kit', 'COPAY CARD', 'CONFERENCE', 'REPRINT', 'Sample Request', 'PATIENT/CAREGIVER')

Delivery Status –

Populate Delivery_Status_Shipped, Delivery_Status_Cancel_Request, Delivery_Status_Cancelled, Delivery_Status_Delivered, Delivery_Status_In_Progress and No_Delivery_Status columns from SEM_PROMO_MATS_TBM_DELIVERED table by calculating sum of QUANTITY column aggregated on all the values of DELIVERY_STATUS (Shipped_vod, Cancel_Request_vod, Cancelled_vod and Cancelled, Delivered_vod, In_Progress_vod and NULL)

Call Plan Data

- Call Plan data will be populated for 3 Alkermes brands – Vivitrol, Lybalvi and Aristada, till current quarter based on teams

Planned Calls –

- Brand Planned Calls will be populated from Planned calls of SEM_CALL_PLAN by aggregating data on BRAND

Actual Calls –

- Brand Actual Calls will be populated from Count of CALL_ID of SEM_CALL_PLAN by data on BRAND

Remaining Calls –

Remaining Calls is populated by subtracting cumulative sum of actual calls from the planned calls

These are customer attributes and are not a function of the product or anything else.**HCP Affinity Monitor Data**

- Load only latest semester of data in the DNORM tables.
- Populate the columns by passing all the fields as per the mapping provided below

SEMATIC TABLE FIELD	SOURCE FIELD
PFF_CTT_VOL	PFF_CTT_VOL
PFF_EN	PFF_EN
PFF_EN_QUINTILE	PFF_EN_QUINTILE
PFF_AFFINITY	PFF_AFFINITY
PFF_CTBR_CTT_VOL	PFF_CTBR_CTT_VOL
PFF_CTBR_EN	PFF_CTBR_EN
PR_CTT_VOL	PR_CTT_VOL
PR_EN	PR_EN
PR_EN_QUINTILE	PR_EN_QUINTILE
PR_AFFINITY	PR_AFFINITY
PR_CTBR_CTT_VOL	PR_CTBR_CTT_VOL
PR_CTBR_EN	PR_CTBR_EN

		PI_CTT_VOL	PI_CTT_VOL	
		PI_EN	PI_EN	
		PI_EN_QUINTILE	PI_EN_QUINTILE	
		PI_AFFINITY	PI_AFFINITY	
		PI_CTBR_CTT_VOL	PI_CTBR_CTT_VOL	
		PI_CTBR_EN	PI_CTBR_EN	
		DPH_CTT_VOL	DPH_CTT_VOL	
		DPH_EN	DPH_EN	
		DPH_EN_QUINTILE	DPH_EN_QUINTILE	
		DPH_AFFINITY	DPH_AFFINITY	
		DPH_CTBR_CTT_VOL	DPH_CTBR_CTT_VOL	
		DPH_CTBR_EN	DPH_CTBR_EN	
		DPL_CTT_VOL	DPL_CTT_VOL	
		DPL_EN	DPL_EN	
		DPL_EN_QUINTILE	DPL_EN_QUINTILE	
		DPL_AFFINITY	DPL_AFFINITY	
		DPL_CTBR_CTT_VOL	DPL_CTBR_CTT_VOL	
		DPL_CTBR_EN	DPL_CTBR_EN	
		DRT_CTT_VOL	DRT_CTT_VOL	
		DRT_EN	DRT_EN	
		DRT_EN_QUINTILE	DRT_EN_QUINTILE	
		DRT_AFFINITY	DRT_AFFINITY	
		DRT_CTBR_CTT_VOL	DRT_CTBR_CTT_VOL	
		DRT_CTBR_EN	DRT_CTBR_EN	
		TOP_CHANNELS_SRC_VALUE	TOP_CHANNELS_SRC_VALUE	
		TOP_CHANNELS_VALUE_1	TOP_CHANNELS_VALUE_1	
		TOP_CHANNELS_VALUE_2	TOP_CHANNELS_VALUE_2	
		TOP_CHANNELS_VALUE_3	TOP_CHANNELS_VALUE_3	
		TOP_CHANNELS_VALUE_4	TOP_CHANNELS_VALUE_4	
		TOP_CHANNELS_VALUE_5	TOP_CHANNELS_VALUE_5	
		TOP_CHANNELS_VALUE_6	TOP_CHANNELS_VALUE_6	

		TOP_CHANNELS_PLACEHOLDER_1	TOP_CHANNELS_PLACEHOLDER_1	
		TOP_CHANNELS_PLACEHOLDER_2	TOP_CHANNELS_PLACEHOLDER_2	
		PP_ACCESS_RATING	PP_ACCESS_RATING	
		NPP_ACCESS_RATING	NPP_ACCESS_RATING	
		PEER_OFFER_EN	PEER_OFFER_EN	
		COPAY_OFFER_EN	COPAY_OFFER_EN	
		SAMPLE_OFFER_EN	SAMPLE_OFFER_EN	
		VOUCHER_OFFER_EN	VOUCHER_OFFER_EN	

BRD-REQ-SEM-3

- C360 W STRENGTH contains the denormalized data based on Grain – ALK_ID, Product Dim Id (Strength Level), Split Week Id and Time Id
- Data will be populated with the Full load strategy and follows the weekly load cadence.
- DATE_WEEK and SPLIT_WEEK_DATE will be populated as WEEKENDING_FRIDAY AND SW_END_DATE respectively, from SEM_SPLIT_WEEK_CALENDAR based on DATE.

HCP Samples Data

- HCP Samples Data is populated for 3 Alkermes brands - Vivitrol, Lybalvi and Aristada, only for ORDER_TYPE = 'Enhanced', 'Veeva' and 'Policy'. Populate Order_Type_Enhanced, Order_Type_Veeva and Order_Type_Policy columns by calculating sum of SAMPLE_QUANTITY aggregated on all the values of ORDER_TYPE

Hospital Shipment Data

Hospital Shipment Data is populated for 2 Alkermes brands - Vivitrol and Aristada when ORDER_TYPE = Initial, Replacement.

- Populate Order_Type_Initial and Order_Type_Replacement columns by calculating sum of QUANTITY column aggregated on all the values of ORDER_TYPE

Sales Data

- Sales Data is populated for 3 Alkermes brands – Vivitrol, Lybalvi and Aristada

Populate the columns NRX, TRX, MOT, Sales_Units and Sales_Volumne_Units in the C360 layer by calculating sum of NRX, TRX, MOT, Sales_Units and Sales_Volumne_Units columns aggregated on ALK_ID.

- Populate the column NBRX in the C360 Layer by calculating sum of PROJECTED_TRX column of SEM_IMS_SOB_PRESCRIBER_MONTHLY table aggregated on ALK_ID where SOB_DESCRIPTION in ('Add On', 'New Therapy Start', 'Switch') and BRAND_COMPETITOR_FLAG = 'B'

Access Monitor Data

Load only latest semester of data in the DNORM tables.

- Populate the columns as attributes in the DNORM tables as per the mapping mentioned below -

SEMATIC TABLE FIELD	SOURCE FIELD
AM_NO_SEE_RATING	AM_NO_SEE_RATING
TEAMS_NO_SEE_RATING_SRC_VALUE	TEAMS_NO_SEE_RATING_SRC_VALUE
TEAMS_NO_SEE_RATING_LOWER_VALUE	TEAMS_NO_SEE_RATING_LOWER_VALUE
TEAMS_NO_SEE_RATING_UPPER_VALUE	TEAMS_NO_SEE_RATING_UPPER_VALUE
ANNUAL_CALL_FREQ_PERC_25	ANNUAL_CALL_FREQ_PERC_25
ANNUAL_CALL_FREQ_PERC_50	ANNUAL_CALL_FREQ_PERC_50
ANNUAL_CALL_FREQ_PERC_75	ANNUAL_CALL_FREQ_PERC_75
TEAMS_CALL_FREQ_SRC_VALUE	TEAMS_CALL_FREQ_SRC_VALUE
TEAMS_CALL_FREQ_LOWER_VALUE	TEAMS_CALL_FREQ_LOWER_VALUE
TEAMS_CALL_FREQ_UPPER_VALUE	TEAMS_CALL_FREQ_UPPER_VALUE
INDUSTRY_ATTAINMENT	INDUSTRY_ATTAINMENT
TEAMS_ATTAINMENT_SRC_VALUE	TEAMS_ATTAINMENT_SRC_VALUE
TEAMS_ATTAINMENT_LOWER_VALUE	TEAMS_ATTAINMENT_LOWER_VALUE

TEAMS_ATTAINMENT_UPPER_VALUE	TEAMS_ATTAINMENT_UPPER_VALUE
ATTN_PERC_25	ATTN_PERC_25
ATTN_PERC_50	ATTN_PERC_50
ATTN_PERC_75	ATTN_PERC_75
TEAMS_ATTN_PERC_SRC_VALUE	TEAMS_ATTN_PERC_SRC_VALUE
TEAMS_ATTN_PERC_LOWER_VALUE	TEAMS_ATTN_PERC_LOWER_VALUE
TEAMS_ATTN_PERC_UPPER_VALUE	TEAMS_ATTN_PERC_UPPER_VALUE
AM_SPEC_GROUPING	AM_SPEC_GROUPING
TEAMS_SPEC_SRC_VALUE	TEAMS_SPEC_SRC_VALUE
TEAMS_SPEC_LOWER_VALUE	TEAMS_SPEC_LOWER_VALUE
TEAMS_SPEC_UPPER_VALUE	TEAMS_SPEC_UPPER_VALUE
AM_ZIP	AM_ZIP
TEAMS_ZIP_SRC_VALUE	TEAMS_ZIP_SRC_VALUE
TEAMS_ZIP_LOWER_VALUE	TEAMS_ZIP_LOWER_VALUE
TEAMS_ZIP_UPPER_VALUE	TEAMS_ZIP_UPPER_VALUE
REACH_TYPE	REACH_TYPE
ANNUAL_F2F_CALL_FREQ_PERC_25	ANNUAL_F2F_CALL_FREQ_PERC_25
ANNUAL_F2F_CALL_FREQ_PERC_50	ANNUAL_F2F_CALL_FREQ_PERC_50
ANNUAL_F2F_CALL_FREQ_PERC_75	ANNUAL_F2F_CALL_FREQ_PERC_75
TEAMS_CALL_FREQ_F2F_SRC_VALUE	TEAMS_CALL_FREQ_F2F_SRC_VALUE
TEAMS_CALL_FREQ_F2F_LOWER_VALUE	TEAMS_CALL_FREQ_F2F_LOWER_VALUE
TEAMS_CALL_FREQ_F2F_UPPER_VALUE	TEAMS_CALL_FREQ_F2F_UPPER_VALUE
ANNUAL_REMOTE_CALL_FREQ_PERC_25	ANNUAL_REMOTE_CALL_FREQ_PERC_25
ANNUAL_REMOTE_CALL_FREQ_PERC_50	ANNUAL_REMOTE_CALL_FREQ_PERC_50
ANNUAL_REMOTE_CALL_FREQ_PERC_75	ANNUAL_REMOTE_CALL_FREQ_PERC_75
TEAMS_CALL_FREQ_REMOTE_SRC_VALUE	TEAMS_CALL_FREQ_REMOTE_SRC_VALUE
TEAMS_CALL_FREQ_REMOTE_LOWER_VALUE	TEAMS_CALL_FREQ_REMOTE_LOWER_VALUE
TEAMS_CALL_FREQ_REMOTE_UPPER_VALUE	TEAMS_CALL_FREQ_REMOTE_UPPER_VALUE

- These are customer attributes and are not a function of the product or anything else.

HCP Affinity Monitor Data

- Load only latest semester of data in the DNORM tables.
- Populate the columns by passing all the fields as per the mapping provided below

SEMATIC TABLE FIELD	SOURCE FIELD
PFF_CTT_VOL	PFF_CTT_VOL
PFF_EN	PFF_EN

PFF_EN_QUINTILE	PFF_EN_QUINTILE
PFF_AFFINITY	PFF_AFFINITY
PFF_CTBR_CTT_VOL	PFF_CTBR_CTT_VOL
PFF_CTBR_EN	PFF_CTBR_EN
PR_CTT_VOL	PR_CTT_VOL
PR_EN	PR_EN
PR_EN_QUINTILE	PR_EN_QUINTILE
PR_AFFINITY	PR_AFFINITY
PR_CTBR_CTT_VOL	PR_CTBR_CTT_VOL
PR_CTBR_EN	PR_CTBR_EN
PI_CTT_VOL	PI_CTT_VOL
PI_EN	PI_EN
PI_EN_QUINTILE	PI_EN_QUINTILE
PI_AFFINITY	PI_AFFINITY
PI_CTBR_CTT_VOL	PI_CTBR_CTT_VOL
PI_CTBR_EN	PI_CTBR_EN
DPH_CTT_VOL	DPH_CTT_VOL
DPH_EN	DPH_EN
DPH_EN_QUINTILE	DPH_EN_QUINTILE
DPH_AFFINITY	DPH_AFFINITY
DPH_CTBR_CTT_VOL	DPH_CTBR_CTT_VOL
DPH_CTBR_EN	DPH_CTBR_EN
DPL_CTT_VOL	DPL_CTT_VOL
DPL_EN	DPL_EN
DPL_EN_QUINTILE	DPL_EN_QUINTILE
DPL_AFFINITY	DPL_AFFINITY
DPL_CTBR_CTT_VOL	DPL_CTBR_CTT_VOL
DPL_CTBR_EN	DPL_CTBR_EN
DRT_CTT_VOL	DRT_CTT_VOL
DRT_EN	DRT_EN
DRT_EN_QUINTILE	DRT_EN_QUINTILE
DRT_AFFINITY	DRT_AFFINITY
DRT_CTBR_CTT_VOL	DRT_CTBR_CTT_VOL
DRT_CTBR_EN	DRT_CTBR_EN
TOP_CHANNELS_SRC_VALUE	TOP_CHANNELS_SRC_VALUE

	<table><tr><td>TOP_CHANNELS_VALUE_1</td><td>TOP_CHANNELS_VALUE_1</td></tr><tr><td>TOP_CHANNELS_VALUE_2</td><td>TOP_CHANNELS_VALUE_2</td></tr><tr><td>TOP_CHANNELS_VALUE_3</td><td>TOP_CHANNELS_VALUE_3</td></tr><tr><td>TOP_CHANNELS_VALUE_4</td><td>TOP_CHANNELS_VALUE_4</td></tr><tr><td>TOP_CHANNELS_VALUE_5</td><td>TOP_CHANNELS_VALUE_5</td></tr><tr><td>TOP_CHANNELS_VALUE_6</td><td>TOP_CHANNELS_VALUE_6</td></tr><tr><td>TOP_CHANNELS_PLACEHOLDER_1</td><td>TOP_CHANNELS_PLACEHOLDER_1</td></tr><tr><td>TOP_CHANNELS_PLACEHOLDER_2</td><td>TOP_CHANNELS_PLACEHOLDER_2</td></tr><tr><td>PP_ACCESS_RATING</td><td>PP_ACCESS_RATING</td></tr><tr><td>NPP_ACCESS_RATING</td><td>NPP_ACCESS_RATING</td></tr><tr><td>PEER_OFFER_EN</td><td>PEER_OFFER_EN</td></tr><tr><td>COPAY_OFFER_EN</td><td>COPAY_OFFER_EN</td></tr><tr><td>SAMPLE_OFFER_EN</td><td>SAMPLE_OFFER_EN</td></tr><tr><td>VOUCHER_OFFER_EN</td><td>VOUCHER_OFFER_EN</td></tr></table> • These are customer attributes and are not a function of product or anything else.
BRD-REQ-SEM-4	• C360 W INDICATION contains the denormalized data based on – ALK_ID, Brand Level, POSITION_ID, TERRITORY_ID, INDICATION_ID, Split Week Id and Time Id • Data is populated with the Full load strategy and follows the weekly load cadence • DATE_WEEK and SPLIT_WEEK_DATE will be populated as WEEKENDING_FRIDAY AND SW_END_DATE respectively, from SEM_SPLIT_WEEK_CALENDAR based on DATE. **Call Activity Data** • Call Activity Data is populated for 3 Alkermes brands - Vivitrol, Lybalvi and Aristada Populate CALLTYPE_CALL_ONLY_RATIO, CALLTYPE_GD_WITH_SAMPLE_RATIO, CALLTYPE_GROUP_DETAIL_RATIO coulumns by calculating count of CALL_TYPE divided by NUMBER_OF_PRODUCT column aggregated on all the values of Call Type (Call Only, Group Detail with Sample and Group Detail)Populate CALLTYPE_CALL_ONLY_COUNT,CALLTYPE_GD_WITH_SAMPLE_COUNT, CALLTYPE_GROUP_DETAIL_COUNT coulumns by calculating count of CALL_TYPE aggregated on all the values of Call Type (Call Only, Group Detail with Sample and Group Detail) • Populate CALLMETHOD_PHONE_RATIO,CALLMETHOD_EMAIL_RATIO,CALLMETHOD_IN_PERSON_RATIO,CALLMETHOD_REMOTE_RATIO columns by calculating count of CALL_METHOD divided by NUMBER_OF_PRODUCT column aggregated on all the values of Call Method (Phone, Email, (In Person, 'In Person/Remote') and Remote in ('REMOTE','ENGAGE MEETING','WEBEX','WEBINAR','VIRTUAL','CONFERENCE')) • Populate CALLMETHOD_PHONE_COUNT,CALLMETHOD_EMAIL_COUNT,CALLMETHOD_IN_PERSON_COUNT,CALLMETHOD_REMOTE_COUNT columns by calculating count of CALL_METHOD aggregated on all the values of Call Method (Phone, Email, (In Person, 'In Person/Remote') and Remote in ('REMOTE','ENGAGE MEETING','WEBEX','WEBINAR','VIRTUAL','CONFERENCE'))

- Following fields are computed using Product Position field from SEM CALL - PRODUCT_POSITION_1_COUNT, PRODUCT_POSITION_2_COUNT, PRODUCT_POSITION_3_COUNT, PRODUCT_POSITION_4_COUNT, PRODUCT_POSITION_5_COUNT
- INDICATION_POSITION_1: These columns depict the number of calls for which the position of the indication in the grain will be 1 in that week.
- INDICATION_POSITION_2: These columns depict the number of calls for which the position of the indication in the grain will be 2 in that week.
- INDICATION _POSITION_3: These columns depict the number of calls for which the position of the indication in the grain will be 3 in that week.
- INDICATION _POSITION_4: These columns depict the number of calls for which the position of the indication in the grain will be 4 in that week.
- INDICATION_POSITION_5: These columns depict the number of calls for which the position of the indication in the grain will be 5 in that week.

HCP Samples Data

- HCP Samples Data is populated for 3 Alkermes brands - Vivitrol, Lybalvi and Aristada, only for ORDER_TYPE = 'Enhanced', 'Veeva' and 'Policy'.
- Populate Order_Type_Enhanced, Order_Type_Veeva and Order_Type_Policy columns by calculating sum of SAMPLE_QUANTITY aggregated on all the values of ORDER_TYPE

Access Monitor Data

- Load only latest semester of data in the DNORM tables.
- Populate the columns as attributes in the DNORM tables as per the mapping mentioned below -

SEMATIC TABLE FIELD	SOURCE FIELD
AM_NO_SEE_RATING	AM_NO_SEE_RATING
TEAMS_NO_SEE_RATING_SRC_VALUE	TEAMS_NO_SEE_RATING_SRC_VALUE
TEAMS_NO_SEE_RATING_LOWER_VALUE	TEAMS_NO_SEE_RATING_LOWER_VALUE
TEAMS_NO_SEE_RATING_UPPER_VALUE	TEAMS_NO_SEE_RATING_UPPER_VALUE
ANNUAL_CALL_FREQ_PERC_25	ANNUAL_CALL_FREQ_PERC_25
ANNUAL_CALL_FREQ_PERC_50	ANNUAL_CALL_FREQ_PERC_50
ANNUAL_CALL_FREQ_PERC_75	ANNUAL_CALL_FREQ_PERC_75
TEAMS_CALL_FREQ_SRC_VALUE	TEAMS_CALL_FREQ_SRC_VALUE
TEAMS_CALL_FREQ_LOWER_VALUE	TEAMS_CALL_FREQ_LOWER_VALUE
TEAMS_CALL_FREQ_UPPER_VALUE	TEAMS_CALL_FREQ_UPPER_VALUE
INDUSTRY_ATTAINMENT	INDUSTRY_ATTAINMENT
TEAMS_ATTAINMENT_SRC_VALUE	TEAMS_ATTAINMENT_SRC_VALUE
TEAMS_ATTAINMENT_LOWER_VALUE	TEAMS_ATTAINMENT_LOWER_VALUE
TEAMS_ATTAINMENT_UPPER_VALUE	TEAMS_ATTAINMENT_UPPER_VALUE
ATTN_PERC_25	ATTN_PERC_25
ATTN_PERC_50	ATTN_PERC_50

ATTN_PERC_75	ATTN_PERC_75
TEAMS_ATTN_PERC_SRC_VALUE	TEAMS_ATTN_PERC_SRC_VALUE
TEAMS_ATTN_PERC_LOWER_VALUE	TEAMS_ATTN_PERC_LOWER_VALUE
TEAMS_ATTN_PERC_UPPER_VALUE	TEAMS_ATTN_PERC_UPPER_VALUE
AM_SPEC_GROUPING	AM_SPEC_GROUPING
TEAMS_SPEC_SRC_VALUE	TEAMS_SPEC_SRC_VALUE
TEAMS_SPEC_LOWER_VALUE	TEAMS_SPEC_LOWER_VALUE
TEAMS_SPEC_UPPER_VALUE	TEAMS_SPEC_UPPER_VALUE
AM_ZIP	AM_ZIP
TEAMS_ZIP_SRC_VALUE	TEAMS_ZIP_SRC_VALUE
TEAMS_ZIP_LOWER_VALUE	TEAMS_ZIP_LOWER_VALUE
TEAMS_ZIP_UPPER_VALUE	TEAMS_ZIP_UPPER_VALUE
REACH_TYPE	REACH_TYPE
ANNUAL_F2F_CALL_FREQ_PERC_25	ANNUAL_F2F_CALL_FREQ_PERC_25
ANNUAL_F2F_CALL_FREQ_PERC_50	ANNUAL_F2F_CALL_FREQ_PERC_50
ANNUAL_F2F_CALL_FREQ_PERC_75	ANNUAL_F2F_CALL_FREQ_PERC_75
TEAMS_CALL_FREQ_F2F_SRC_VALUE	TEAMS_CALL_FREQ_F2F_SRC_VALUE
TEAMS_CALL_FREQ_F2F_LOWER_VALUE	TEAMS_CALL_FREQ_F2F_LOWER_VALUE
TEAMS_CALL_FREQ_F2F_UPPER_VALUE	TEAMS_CALL_FREQ_F2F_UPPER_VALUE
ANNUAL_REMOTE_CALL_FREQ_PERC_25	ANNUAL_REMOTE_CALL_FREQ_PERC_25
ANNUAL_REMOTE_CALL_FREQ_PERC_50	ANNUAL_REMOTE_CALL_FREQ_PERC_50
ANNUAL_REMOTE_CALL_FREQ_PERC_75	ANNUAL_REMOTE_CALL_FREQ_PERC_75
TEAMS_CALL_FREQ_REMOTE_SRC_VALUE	TEAMS_CALL_FREQ_REMOTE_SRC_VALUE
TEAMS_CALL_FREQ_REMOTE_LOWER_VALUE	TEAMS_CALL_FREQ_REMOTE_LOWER_VALUE
TEAMS_CALL_FREQ_REMOTE_UPPER_VALUE	TEAMS_CALL_FREQ_REMOTE_UPPER_VALUE

- These are customer attributes and are not a function of the product or anything else.

Promotional Materials Delivered Data

- NULL values will flow in all columns

Call Plan Data

Call Plan data is populated for 3 Alkermes brands – Vivitrol, Lybalvi and Aristada

Planned Calls –

- Brand Planned Calls will be populated from Planned calls of SEM_CALL_PLAN by aggregating data on BRAND

Actual Calls –

- Brand Actual Calls will be populated from Count of CALL_ID of SEM_CALL_PLAN by data on BRAND

Remaining Calls –

- Remaining Calls is populated by subtracting cumulative sum of actual calls from the planned calls
- These are customer attributes and are not a function of the product or anything else.

HCP Affinity Monitor Data

Load only latest semester of data in the DNORM tables.

- Populate the columns by passing all the fields as per the mapping provided below

SEMATIC TABLE FIELD	SOURCE FIELD
PFF_CTT_VOL	PFF_CTT_VOL
PFF_EN	PFF_EN
PFF_EN_QUINTILE	PFF_EN_QUINTILE
PFF_AFFINITY	PFF_AFFINITY
PFF_CTBR_CTT_VOL	PFF_CTBR_CTT_VOL
PFF_CTBR_EN	PFF_CTBR_EN
PR_CTT_VOL	PR_CTT_VOL
PR_EN	PR_EN
PR_EN_QUINTILE	PR_EN_QUINTILE
PR_AFFINITY	PR_AFFINITY
PR_CTBR_CTT_VOL	PR_CTBR_CTT_VOL
PR_CTBR_EN	PR_CTBR_EN
PI_CTT_VOL	PI_CTT_VOL
PI_EN	PI_EN
PI_EN_QUINTILE	PI_EN_QUINTILE
PI_AFFINITY	PI_AFFINITY
PI_CTBR_CTT_VOL	PI_CTBR_CTT_VOL
PI_CTBR_EN	PI_CTBR_EN
DPH_CTT_VOL	DPH_CTT_VOL
DPH_EN	DPH_EN
DPH_EN_QUINTILE	DPH_EN_QUINTILE
DPH_AFFINITY	DPH_AFFINITY
DPH_CTBR_CTT_VOL	DPH_CTBR_CTT_VOL

	DPH_CTBR_EN	DPH_CTBR_EN
	DPL_CTT_VOL	DPL_CTT_VOL
	DPL_EN	DPL_EN
	DPL_EN_QUINTILE	DPL_EN_QUINTILE
	DPL_AFFINITY	DPL_AFFINITY
	DPL_CTBR_CTT_VOL	DPL_CTBR_CTT_VOL
	DPL_CTBR_EN	DPL_CTBR_EN
	DRT_CTT_VOL	DRT_CTT_VOL
	DRT_EN	DRT_EN
	DRT_EN_QUINTILE	DRT_EN_QUINTILE
	DRT_AFFINITY	DRT_AFFINITY
	DRT_CTBR_CTT_VOL	DRT_CTBR_CTT_VOL
	DRT_CTBR_EN	DRT_CTBR_EN
	TOP_CHANNELS_SRC_VALUE	TOP_CHANNELS_SRC_VALUE
	TOP_CHANNELS_VALUE_1	TOP_CHANNELS_VALUE_1
	TOP_CHANNELS_VALUE_2	TOP_CHANNELS_VALUE_2
	TOP_CHANNELS_VALUE_3	TOP_CHANNELS_VALUE_3
	TOP_CHANNELS_VALUE_4	TOP_CHANNELS_VALUE_4
	TOP_CHANNELS_VALUE_5	TOP_CHANNELS_VALUE_5
	TOP_CHANNELS_VALUE_6	TOP_CHANNELS_VALUE_6
	TOP_CHANNELS_PLACEHOLDER_1	TOP_CHANNELS_PLACEHOLDER_1
	TOP_CHANNELS_PLACEHOLDER_2	TOP_CHANNELS_PLACEHOLDER_2
	PP_ACCESS_RATING	PP_ACCESS_RATING
	NPP_ACCESS_RATING	NPP_ACCESS_RATING
	PEER_OFFER_EN	PEER_OFFER_EN
	COPAY_OFFER_EN	COPAY_OFFER_EN
	SAMPLE_OFFER_EN	SAMPLE_OFFER_EN
	VOUCHER_OFFER_EN	VOUCHER_OFFER_EN

- These are customer attributes and are not a function of product or anything else.

BRD-REQ-VIEW-1	• The view is created to cater Data exchange between Alkermes and ZAIDYN which will happen through Snowflake data share • This View directly pull data for all the columns from SEM C360 W POSITION table

BRD-REQ-VIEW-2	• The view is created to cater Data exchange between Alkermes and ZAIDYN which will happen through Snowflake data share • This View directly pull data for all the columns from SEM C360 W STRENGTH table
BRD-REQ-VIEW-3	• The view is created to cater Data exchange between Alkermes and ZAIDYN which will happen through Snowflake data share • This View directly pull data for all the columns from SEM C360 WO POSITION table

4.2.4 C360 CUSTOMER ATTRIBUTE PROCESS

BRD-REQ-OBJ-1	**Tables Covered** • SEM_C360_CUST_ATT • SEM_C360_SEGMENT_DETAILS • SEM_C360_TIER_DETAILS
BRD-REQ-SEM-1	Semantic table C360 CUST ATT populates data from Customer Master tables (SEM_CUSTOMER_MASTER, SEM_CUSTOMER_ADDRESS, SEM_CUSTOMER_AFFILIATION, SEM_CUSTOMER_IDENTIFIER, SEM_CUSTOMER_POSITION_GEOGRAPHY, SEM_CUSTOMER_TARGET and SEM_CUSTOMER_TIER) **Customer Attributes Logic–** • Segment - Period end date should be MAX (Period end date) for each segment name (ARISTADA BEHAVIORAL SEGMENT -1 or ZS_TARGET_LIST_EARLY_ADOPTER_FLAG or AUD / OUD FOCUS or ZS MARKET MAP SOC) from Customer Segmentation and Segment Name in (ARISTADA BEHAVIORAL SEGMENT -1 or ZS_TARGET_LIST_EARLY_ADOPTER_FLAG or AUD / OUD FOCUS or ZS MARKET MAP SOC) • Tier – End Date should be MAX (END_DATE) from CUSTOMER TIER and TEAM_NAME = 'ADDICTION' and 'PSYCHIATRY' • Target - End Date should be MAX (END_DATE) from CUSTOMER TARGET and TEAM_NAME = 'ADDICTION' and 'PSYCHIATRY' • Affiliation – Affiliation values for TEAM DIM ID 20,1,2,21,4 should flow into DNORM table • Address - Address values for TEAM DIM ID 20,1,2,21,4 should flow into DNORM table • All the values for Segments, Tiers, Affiliation and Address are driven by Config Table: CDE_SEM.SEM_C360_ATTR_CONFIG, in which we have three columns: ATTR_NAME, ATTR_VALUE and ATTR_TYPE. Based on how this table is populated, the values in DNORM table will change. • Records without ALK_IDs are filtered out while populating data

BRD-REQ-SEM-2	• Semantic table C360 Segment Details populates segment level details from SEM_CUSTOMER_MASTER and SEM_CUSTOMER_SEGMENTATION based on ALK ID • SEGMENT_NAME and SEGMENT_VALUE are populated for each segment name
BRD-REQ-SEM-3	• Semantic table C360 TIER DETAILS populates tier level details from SEM_CUSTOMER_MASTER and SEM_CUSTOMER_TIER based on ALK ID • Customer Tier Team and Customer Product Team are populated based on End Date should be MAX (END_DATE) from CUSTOMER TIER and TEAM_NAME = 'ADDICTION' and 'PSYCHIATRY'

4.3 ROSTER

Employee Roster constitutes of the following –

1. Employee - Roster
2. Employee Assignment
3. Employee LOA
4. Team Master

4.3.1 EMPLOYEE - ROSTER

<table>
<tr><th>S NO</th><th>Requirement</th></tr>
<tr><td>BRD-REQ-1 RAW-1</td><td>Feed Details:
<table>
<tr><th>Feed ID</th><th>Feed Name</th><th>Feed Description</th><th>Source</th></tr>
<tr><td>98</td><td>SOPS_ROSTER</td><td>This feed contains employee details such as employee name, department, and address details</td><td>Alkermes (Sales Operations Team)</td></tr>
<tr><td>404</td><td>Employee_List</td><td>This feed contains Employee Details</td><td>ZS</td></tr>
</table>
Subject Area: Roster
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Daily
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- N/A
Load strategy (Incremental/ Full) – Incremental
Restatement (Yes/ No): No
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-1 EXN-2</td><td>Source: Alkermes (MSSQL3-MA)
Feed Name: ACTIVEDIRECTORY_EMPLOYEE_LOGIN
Feed Description: This feed contains the Active Directory of Employee.
Subject Area: Roster
Load strategy (Incremental/ Full) – Full
Restatement (Yes/ No): No
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Daily</td></tr>
</table>

<table>
<tr><td></td><td>File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- NA
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-3</td><td>Tables Covered –

• CDE_EXN. ACTIVEDIRECTORY_EMPLOYEE_LOGIN
• RAW_EMPLOYEE_MASTER, RAW_JRM_EMP_LIST_EXTRACT
• CLNS_EMPLOYEE_MASTER, CLNS_JRM_EMP_LIST_EXTRACT
• DIM_EMPLOYEE_MASTER, MAP_EMP_LIST_EXTRACT
• SEM_EMPLOYEE
• VW_SEM_EMPLOYEE</td></tr>
<tr><td>BRD-REQ-DWH-4</td><td><u>Employee Roster Dimension (</u>DIM_EMPLOYEE_MASTER):
• Employ Roster data will be loaded into the warehouse daily where history will also be maintained.
o Incremental data will be received form Alkermes Sales Ops team and full Active Directory of Employees will be fetched form Alkermes MSSQL.
• Title and Job Code will be populated from the SOP Roster source- the part before the ‘;’ will be the Job Code and the part after the ‘;’ will be the Title.
<table><tr><th>Title (SOPS feed)</th><th>Title (DIM_EMPLOYEE_MASTER)</th><th>Job Code (DIM_EMPLOYEE_MASTER)</th></tr><tr><td>720EDIPC;Exec Dir, IP Counsel</td><td>Exec Dir, IP Counsel</td><td>720EDIPC</td></tr></table>• ADLOGIN will be populated from Active Directory based on Employee ID or Employee Email for COST_CENTER<> '99-999'.

<u>Employee List Extract Mapping (</u>MAP_EMP_LIST_EXTRACT):
• Employ List Extract Mapping will be loaded into the warehouse daily where history will also be maintained.
• Based on the Action Code against any EMP_ID, JAVELIN_START_DT combination received in the incremental daily feed, the data load strategy in the warehouse will be defined.
o If Action code = ‘I’, records from source feed will be loaded into the warehouse and IS_ACTIVE will be set to ‘TRUE’.
o If Action code = ‘U’ , the existing records will be end dated (IS_ACTIVE=’FALSE’ , END_DT =current_date-1, UPDATE_FILE_ID = file id in latest file, UPDATE_RECORD_ID=record id in latest file, UPDATE_DT=current_date, UPDATE_RUN_ID=run id for latest run) and the latest record from the feed will be loaded into the warehouse with IS_ACTIVE=’ TRUE’
o If Action code = ‘D’, END_DT will be populated from source feed and IS_ACITVE will be set to ‘FALSE’ , UPDATE_FILE_ID = file id in latest feed, UPDATE_RECORD_ID=record id in latest feed, UPDATE_DT=current_date, UPDATE_RUN_ID=run id for latest runFor matched Active records between Source and Target table based on natural key and Current File_id,</td></tr>
<tr><td>BRD-REQ-SEM-5</td><td>• Employee Roster data will be loaded Daily into Semantic where history will also be maintained.
• ROLE will be populated from Employee List Extract received from ZS, for active Employees.
• Below fields are directly populated from SOP Roster source (XREF_EMPLOYEE_MASTER dependency removed from mapping task to load data to SFTP)

<table><tr><th>Semantic Table field</th><th>Source field</th></tr><tr><td>EMPLOYEE_ID</td><td>EMP_ID</td></tr><tr><td>LAST_NAME</td><td>LAST_NAME</td></tr><tr><td>FIRST_NAME</td><td>FIRST_NAME</td></tr></table></td></tr>
</table>

		MIDDLE_NAME	MIDDLE_NAME	
		DEPT_NAME	DEPT_NAME	
		COST_CENTER	COST_CENTER	
		ADDRESS_LINE_1	ADDR_LINE_1	
		ADDRESS_LINE_2	ADDR_LINE_2	
		CITY	CITY	
		STATE	STATE	
		ZIP	ZIP	
		COUNTRY	COUNTRY	
		MOBILE_NUMBER	MOBILE_NUM	
		ALKS_MOBILE_NUMBER	ALKS_MOBILE_NUM	
		EMAIL	EMAIL	
		HIRE_DATE	HIRE_DT	
		STATUS	STATUS	
		END_DATE	END_DT	
		EFFECTIVE_START_DATE	EFF_START_DT	
		EFFECTIVE_END_DATE	EFF_END_DT	
		SUPERVISOR_ID	SUPERVISOR_ID	
		PERSONAL_EMAIL	PERSONAL_EMAIL	
		GRADE	GRADE	
		CAR_PROGRAM_PARTICIPANT	CAR_PROGRAM_PARTICIPANT	
		CAR_PROGRAM_SELECTED	CAR_PROGRAM_SELECTED	

4.3.1 EMPLOYEE - ASSIGNMENT

S NO	**Requirement**
BRD-REQ-1 RAW-1	**Feed Id:** 401 **Feed Name:** Employee_Assignment_ **Feed Description:** This feed contains mapping between employees and their assignment. Position Level mapping is received in this feed. **Subject Area:** Roster **Source:** ZS **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** N/A **Load strategy (Incremental/ Full) –** Incremental **Restatement (Yes/ No):** Yes **MDM Mastering (Yes/No) –** No

<table>
<tr><td>BRD-REQ-OBJ-2</td><td>Tables Covered –

• RAW_JRM_EMP_ASSIGNMENT_LIST_EXTRACT
• CLNS_JRM_EMP_ASSIGNMENT_LIST_EXTRACT
• MAP_EMP_ASSIGNMENT_LIST_EXTRACT
• SEM_EMPLOYEE_ASSIGNMENT
• VW_SEM_EMPLOYEE_ASSIGNMENT</td></tr>
<tr><td>BRD-REQ-DWH-3</td><td>• Incremental Employee Assignment data is loaded into MAP_EMP_ASSIGNMENT_LIST_EXTRACT daily where history will also be maintained.
• Based on the Action Code against any EMP_ID, JAVELIN_START_DT combination received in the incremental daily feed, the data load strategy in the warehouse will be defined.
○ If Action code = ‘I’, records from source feed will be loaded into the warehouse and IS_ACTIVE will be set to ‘TRUE’.
○ If Action code = ‘U’ , the existing records will be end dated (IS_ACTIVE=’FALSE’ , END_DT =current_date-1, UPDATE_FILE_ID = file id in latest file, UPDATE_RECORD_ID=record id in latest file, UPDATE_DT=current_date, UPDATE_RUN_ID=run id for latest run) and the latest record from the feed will be loaded into the warehouse with IS_ACTIVE=’ TRUE’
○ If Action code = ‘D’, END_DT will be populated from source feed and IS_ACITVE will be set to ‘FALSE’ , UPDATE_FILE_ID = file id in latest feed, UPDATE_RECORD_ID=record id in latest feed, UPDATE_DT=current_date, UPDATE_RUN_ID=run id for latest run</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>• Employee Assignment data is loaded into SEM_EMPLOYEE_ASSIGNMENT daily where history will also be maintained.
• TEAM NAME will populated from Team Master based on Team Dimension Id.
• Below fields are directly populated from Employee Assignment List Extract source:
<table><tr><th>Semantic Table field</th><th>Source field</th></tr><tr><td>EMPLOYEE_ID</td><td>EMP_ID</td></tr><tr><td>EMPLOYEE_NAME</td><td>EMP_NAME</td></tr><tr><td>MANAGER_ID</td><td>MNGR_ID</td></tr><tr><td>POSITION_ID</td><td>POSITION_ID</td></tr><tr><td>POSITION_NAME</td><td>POSITION_NAME</td></tr><tr><td>PAY_AT_TARGET</td><td>PAY_AT_TARGET</td></tr><tr><td>PAY_TARGET_START_DATE</td><td>PAY_TARGET_START_DT</td></tr><tr><td>PAY_TARGET_END_DATE</td><td>PAY_TARGET_END_DT</td></tr><tr><td>TEAM_DIM_ID</td><td>TEAM_ID</td></tr><tr><td>ASSIGNMENT_TYPE</td><td>ASSIGNMENT_TYPE</td></tr><tr><td>RELATIONSHIP_TYPE</td><td>RELATIONSHIP_TYPE</td></tr><tr><td>JAVELIN_START_DATE</td><td>ASSIGNMENT_START_DT</td></tr></table>
• VW_SEM_EMPLOYEE_ASSIGNMENT is a secured View which contains complete employee assignment data from SEM_EMPLOYEE_ASSIGNMENT.</td></tr>
</table>

4.3.3 EMPLOYEE LOA

S NO	Requirement
BRD-REQ-1 RAW-1	**Feed Id:** 402 **Feed Name:** Employee_LOA_ **Feed Description**: This feed contains Employee Leave of Absence data. **Subject Area:** Roster **Source:** ZS **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** N/A **Load strategy (Incremental/ Full) –** Incremental **Restatement (Yes/ No):** Yes **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	**Tables Covered –** • RAW_JRM_EMP_LOA_EXTRACT • CLNS_JRM_EMP_LOA_EXTRACT • MAP_EMP_LOA_EXTRACT • SEM_EMPLOYEE_LOA
BRD-REQ-DWH-3	• Incremental Employee Leave of Absence data is loaded into MAP_EMP_LOA_EXTRACT daily where history will also be maintained. • Based on the Action Code against any EMP_ID, JAVELIN_START_DT combination received in the incremental daily feed, the data load strategy in the warehouse will be defined. o If Action code = 'I', records from source feed will be loaded into the warehouse and IS_ACTIVE will be set to 'TRUE'. o If Action code = 'U' , the existing records will be end dated (IS_ACTIVE='FALSE' , END_DT =current_date-1, UPDATE_FILE_ID = file id in latest file, UPDATE_RECORD_ID=record id in latest file, UPDATE_DT=current_date, UPDATE_RUN_ID=run id for latest run) and the latest record from the feed will be loaded into the warehouse with IS_ACTIVE=' TRUE' o If Action code = 'D', END_DT will be populated from source feed and IS_ACITVE will be set to 'FALSE' , UPDATE_FILE_ID = file id in latest feed, UPDATE_RECORD_ID=record id in latest feed, UPDATE_DT=current_date, UPDATE_RUN_ID=run id for latest run
BRD-REQ-SEM-4	• Employee Leave of Absence data is loaded into SEM_EMPLOYEE_LOA daily where history will also be maintained. • Below fields are directly populated from Employee LOA Extract source:

Semantic Table field	Source field

		EMPLOYEE_ID	EMP_ID
		EMPLOYEE_NAME	EMP_NAME
		LEAVE_DESCRIPTION	LEAVE_DESC
		LEAVE_TYPE	LEAVE_TYPE
		LEAVE_START_DATE	LEAVE_START_DT
		ESTIMATED_END_DATE	ESTIMATED_END_DT
		LAST_UPDATED_DATE	LAST_UPDATED_DT

4.3.4 TEAM MASTER

S NO	**Requirement**
BRD-REQ-REQ-1	**Subject Area:** Roster **Source:** Alkermes **Load strategy (Incremental/ Full) –** Full **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Adhoc **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** N/A **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	**Tables Covered –** • DIM_TEAM • SEM_TEAM
BRD-REQ-DWH-2	• DIM_TEAM is a static table where records are directly inserted when requested by Data Governance team.
BRD-REQ-SEM-3	• SEM_Team contains Team ID and Team Name mapping. • Below fields are directly populated from source:

Semantic Table field	**Source field**
TEAM_DIM_ID	TEAM_DIM_ID
TEAM_NAME	TEAM_NAME

4.4 ALIGNMENT

1. Alignment feeds will be received in the CDE system and will be received from Javelin (ZS) on a weekly frequency.
    - ZIP_TERRITORY
    - CUSTOMER_TERRITORY
    - POSITION_TERRITORY
    - PRODUCT_POSITION
    - CUSTOMER_POSITION_PRODUCT

2. The frozen snapshots for the above Alignment feeds from ZS will be available quarterly.
    - CUSTOMER_TERRITORY_FROZEN
    - POSITION_TERRITORY_FROZEN
    - PRODUCT_POSITION_FROZEN
    - CUSTOMER_POSITION_PRODUCT_FROZEN
3. Time Off Terr Details will be obtained from Veeva.
4. Customer Position Geography will be created in the CDE System.
5. ZIP to Territory mapping for hybrid and pure teams will be created in CDE System.

4.4.1 ZIP TERRITORY

<table>
<tr><td>BRD REQ-RAW-1</td><td>Feed Details :

<table>
<tr><th>Feed_id</th><th>Feed_name</th><th>Description</th><th>Frequency</th></tr>
<tr><td>384</td><td>Zip_Terr_ (RAW_JAMS_ZIP_TERR_LIVE)</td><td>This feed provides live mapping of zip codes to territory.</td><td>Weekly - Wednesday</td></tr>
<tr><td>385</td><td>Zip_Terr_ (RAW_JAMS_ZIP_TERR_FROZEN)</td><td>This feed provides frozen mapping of zip codes to territory</td><td>Quarterly - 4th day of quarter</td></tr>
</table>

Source: JAMS
Subject Area: Alignment
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): No
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>• RAW_JAMS_ZIP_TERR , RAW_JAMS_ZIP_TERR_FROZEN
• CLNS_JAMS_ZIP_TERR , CLNS_JAMS_ZIP_TERR_FROZEN
• MAP_ZIP_TERR , MAP_ZIP_TERR_FROZEN
• SEM_ZIP_TERRITORY</td></tr>
<tr><td>BRD-REQ-DWH-3</td><td>• MAP_ZIP_TERR holds Zip Territory mapping for the current quarter (Live Zip-Terr mapping) where history will also be maintained.
o The history is maintained from Q4 2020.
• Based on the Action Code against any Zip ID, Territory ID and Start Date combination received in the incremental weekly feed, the data load strategy in the warehouse will be defined.
o If Action code = ‘I’, records from source feed will be loaded into the warehouse and IS_ACTIVE will be set to ‘TRUE’.
o If Action code = ‘D’, END_DT will be populated from source feed and IS_ACITVE will be set to ‘FALSE’ , UPDATE_FILE_ID = file id in latest feed, UPDATE_RECORD_ID=record id in latest feed, UPDATE_DT=current_date, UPDATE_RUN_ID=run id for latest run
• MAP_ZIP_TERR_FROZEN will include frozen Zip-Terr mapping (future quarter mapping) where history will also be maintained.</td></tr>
</table>

<table>
<tr><td></td><td>
<ul>
<li>The history is maintained from Q4 2020</li>
<li>If multiple files for same quarter is received, then data in the latest file is populated in the warehouse.</li>
</ul>
</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>
<ul>
<li>SEM_ZIP_TERRITORY holds active Zip to Territory mappings along with Team details for the current quarter (Live Zip-Terr- mapping)</li>
<li>The history will be maintained in the datawarehouse.
<ul>
<li>The history is available from Q4 2020.</li>
</ul>
</li>
<li>The Territory name and Team details will be fetched from zctive (end date as 31-Dec-9999) Geo Hierarchy received in the weekly Jams file based on Territory ID, for ORG_UNIT_LEVEL_ID = 1 (i.e., Org Level: Territory).</li>
<li>Below columns are populated directly from source.</li>
</ul>
<table>
<tr><th>Semantic table field</th><th>Source field</th></tr>
<tr><td>ZIP</td><td>ZIP_ID</td></tr>
<tr><td>TERRITORY_ID</td><td>TERR_ID</td></tr>
<tr><td>START_DATE</td><td>START_DT</td></tr>
<tr><td>END_DATE</td><td>END_DT</td></tr>
</table>
</td></tr>
</table>

4.4.2 CUSTOMER TERRITORY

<table>
<tr><td>BRD REQ-RAW-1</td><td>
Feed Details:
<table>
<tr><th>Feed_id</th><th>Feed_name</th><th>Description</th><th>Frequency</th></tr>
<tr><td>388</td><td>Customer_Terr_Map_ (CUSTOMER_TERRITORY)</td><td>This feed contains live alignment of customers on a territory for current quarter.</td><td>Weekly - Wednesday</td></tr>
<tr><td>389</td><td>Customer_Terr_Map_ (CUSTOMER_TERRITORY_FROZEN)</td><td>This feed contains frozen alignment of customers on a territory for future quarter (next quarter).</td><td>Quarterly - 4th day of quarter</td></tr>
</table>
Source: JAMS
Subject Area: Alignment
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): No
MDM Mastering (Yes/No) – No
</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>
<ul>
<li>RAW_JAMS_CUST_TERR_ALIGNMENT, RAW_JAMS_CUST_TERR_ALIGNMENT_FROZEN</li>
<li>CLNS_JAMS_CUST_TERR_ALIGNMENT, CLNS_JAMS_CUST_TERR_ALIGNMENT_FROZEN</li>
<li>MAP_CUST_TERR_ALIGNMENT, MAP_CUST_TERR_ALIGNMENT_FROZEN</li>
<li>SEM_CUSTOMER_TERRITORY, SEM_CUSTOMER_TERRITORY_FROZEN</li>
</ul>
</td></tr>
</table>

<table>
<tr><td>BRD-REQ-DWH-3</td><td>
<ul>
<li>MAP_CUST_TERR_ALIGNMENT holds Customer Territory mapping for the current quarter (Live Cust-Terr mapping) where history will also be maintained.
<ul><li>The history is maintained from Q4 2020.</li></ul></li>
<li>Based on the Action Code against any Customer ID, Territory ID and Start Date combination received in the incremental weekly feed, the data load strategy in the warehouse will be defined.
<ul>
<li>If Action code = ‘I’, records from source feed will be loaded into the warehouse and IS_ACTIVE will be set to ‘TRUE’.</li>
<li>If Action code = ‘U’ , the existing records will be end dated (IS_ACTIVE=’FALSE’ , END_DT =current_date-1, UPDATE_FILE_ID = file id in latest file, UPDATE_RECORD_ID=record id in latest file, UPDATE_DT=current_date, UPDATE_RUN_ID=run id for latest run) and the latest record from the feed will be loaded into the warehouse with IS_ACTIVE=’ TRUE’</li>
<li>If Action code = ‘D’, END_DT will be populated from source feed and IS_ACITVE will be set to ‘FALSE’ , UPDATE_FILE_ID = file id in latest feed, UPDATE_RECORD_ID=record id in latest feed, UPDATE_DT=current_date, UPDATE_RUN_ID=run id for latest run</li>
</ul></li>
<li>MAP_CUST_TERR_ALIGNMENT_FROZEN will include frozen Cust-Terr mapping (future quarter mapping) where history will also be maintained.
<ul>
<li>The history is maintained from Q4 2020</li>
<li>If multiple files for same quarter is received, then data in the latest file is populated in the warehouse.</li>
</ul></li>
</ul>
</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>
<ul>
<li>SEM_CUSTOMER_TERRITORY holds Customer Territory mapping for the current quarter (Live Cust-Terr mapping) where history will also be maintained.</li>
<li>SEM_CUSTOMER_TERRITORY_FROZEN will include frozen Cust-Terr mapping (future quarter mapping) where history will also be maintained.
<ul>
<li>The history data for both live and frozen Cust-Terr alignments is available from Q4 2020</li>
<li>Below columns are populated directly from source</li>
</ul></li>
</ul>
<table>
<tr><th>Semantic table field</th><th>Source field</th></tr>
<tr><td>ALK_ID</td><td>CUST_ID</td></tr>
<tr><td>TERRITORY_ID</td><td>TERR_ID</td></tr>
<tr><td>ALIGNMENT_REASON_FLAG</td><td>ALIGNMENT_REASON_FLAG</td></tr>
<tr><td>START_DATE</td><td>START_DT</td></tr>
<tr><td>END_DATE</td><td>END_DT</td></tr>
</table>
</td></tr>
</table>

4.4.3 POSITION TERRITORY

<table>
<tr><td>BRD REQ-RAW-1</td><td>
Feed Details:
<table>
<tr><th>Feed_id</th><th>Feed_name</th><th>Description</th><th>Frequency</th></tr>
<tr><td>394</td><td>Position_Terr_Map_ (POSITION_TERRITORY)</td><td>This feed provides live mapping between Position and Territory</td><td>Weekly - Wednesday</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td></td><td>
<table>
<tr><td>395</td><td>Position_Terr_Map_ (POSITION_TERRITORY_FROZEN)</td><td>This feed provides Frozen mapping between Position and Territory for future quarter (next quarter).</td><td>Quarterly - 4th day of quarter</td></tr>
</table>
Source:JAMS
Subject Area: Alignment
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): No
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>• RAW_JAMS_POSITION_TERR, RAW_JAMS_POSITION_TERR_FROZEN
• CLNS_JAMS_POSITION_TERR, CLNS_JAMS_POSITION_TERR_FROZEN
• MAP_POSITION_TERR, MAP_POSITION_TERR_FROZEN
• SEM_POSITION_TERRITORY, SEM_POSITION_TERRITORY_FROZEN</td></tr>
<tr><td>BRD-REQ-DWH-3</td><td>• MAP_POSITION_TERR holds Position Territory mapping for the current quarter (Live Pos-Terr mapping) where history will also be maintained.
○ The history is maintained from Q4 2020.
• Based on the Action Code against any Position ID, Org_Unit_ID and Start Date combination received in the incremental weekly feed, the data load strategy in the warehouse will be defined.
○ If Action code = ‘I’, records from source feed will be loaded into the warehouse and IS_ACTIVE will be set to ‘TRUE’.
○ If Action code = ‘U’ , the existing records will be end dated (IS_ACTIVE=’FALSE’ , END_DT =current_date-1, UPDATE_FILE_ID = file id in latest feed, UPDATE_RECORD_ID=record id in latest feed, UPDATE_DT=current date, UPDATE_RUN_ID=run id for latest run) and the latest record from the feed will be loaded into the warehouse with IS_ACTIVE=’ TRUE’
○ If Action code = ‘D’, END_DT will be populated from source feed and IS_ACITVE will be set to ‘FALSE’ , UPDATE_FILE_ID = file id in latest feed, UPDATE_RECORD_ID=record id in latest feed, UPDATE_DT=current date, UPDATE_RUN_ID=run id for latest run
• MAP_POSITION_TERR_FROZEN will include frozen Pos-Terr mapping (future quarter mapping) where history will also be maintained.
○ The history is maintained from Q4 2020
○ If multiple files for same quarter is received, then data in the latest file is populated in the warehouse.</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>• SEM_POSITION_TERRITORY holds Position Territory mapping for the current quarter (Live Pos-Terr mapping) where history will also be maintained.
• SEM_POSITION_TERRITORY_FROZEN will include frozen Pos-Terr mapping (future quarter mapping) where history will also be maintained.
• The history for both live and frozen Pos-Terr alignments is available from Q4 2020
• Below columns are populated directly from source.
<table>
<tr><th>Semantic table field</th><th>Source field</th></tr>
<tr><td>POSITION_ID</td><td>POSITION_ID</td></tr>
<tr><td>ORG_UNIT_ID</td><td>ORG_UNIT_ID</td></tr>
</table></td></tr>
</table>

START_DATE	START_DT
END_DATE	END_DT

4.4.4 PRODUCT TERRITORY

BRD REQ-RAW-1

Feed Details:

Feed_id	Feed_name	Description	Frequency
386	Product_Position_Map_ (PRODUCT_POSITION)	This feed contains mapping of product and position for current quarter	Weekly - Wednesday
387	Product_Position_Map_ (PRODUCT_POSITION)	This feed contains mapping of product and position for future quarter (next quarter).	Quarterly - 4th day of quarter

Source: JAMS
Subject Area: Alignment
Markets: Psychiatry, Addiction
Products: Aristada, Lybalvi, Vivitrol
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): No
MDM Mastering (Yes/No) – No

BRD-REQ-OBJ-2

- RAW_JAMS_PROD_POSITION , RAW_JAMS_PROD_POSITION_FROZEN
- CLNS_JAMS_PROD_POSITION , CLNS_JAMS_PROD_POSITION_FROZEN
- MAP_PROD_POSITION , MAP_PROD_POSITION_FROZEN
- SEM_PRODUCT_POSITION , SEM_PRODUCT_POSITION_FROZEN

BRD-REQ-DWH-3

- MAP_PROD_POSITION holds Product Position mapping for the current quarter (Live Prod-Pos mapping) where history will also be maintained.
    - The history is maintained from Q4 2020.
- Based on the Action Code against any Product ID, Position ID and Start Date combination received in the incremental weekly feed, the data load strategy in the warehouse will be defined.
    - If Action code = 'I', records from source feed will be loaded into the warehouse and IS_ACTIVE will be set to 'TRUE'.
    - If Action code = 'U' , the existing records will be end dated (IS_ACTIVE='FALSE' , END_DT =current_date-1, UPDATE_FILE_ID = file id in latest file, UPDATE_RECORD_ID=record id in latest file, UPDATE_DT=current_date, UPDATE_RUN_ID=run id for latest run) and the latest record from the feed will be loaded into the warehouse with IS_ACTIVE=' TRUE'

<table>
<tr><td></td><td>
<ul>
<li>If Action code = ‘D’, END_DT will be populated from source feed and IS_ACITVE will be set to ‘FALSE’ , UPDATE_FILE_ID = file id in latest feed, UPDATE_RECORD_ID=record id in latest feed, UPDATE_DT=current_date, UPDATE_RUN_ID=run id for latest run</li>
</ul>
<ul>
<li>MAP_PROD_POSITION_FROZEN will include frozen Prod-Pos mapping (future quarter mapping) where history will also be maintained.
<ul>
<li>The history is maintained from Q4 2020</li>
<li>If multiple files for same quarter is received, then data in the latest file is populated in the warehouse.</li>
</ul></li>
</ul>
</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>
<ul>
<li>SEM_PRODUCT_POSITION holds Product Position mapping for the current quarter (Live Prod-Pos mapping) where history will also be maintained.</li>
<li>SEM_PRODUCT_POSITION_FROZEN will include frozen Prod-Pos mapping (future quarter mapping) where history will also be maintained.</li>
<li>The history for both live and frozen Prod-pos alignments is available from Q4 2020</li>
<li>PROD_GROUP_DIM_ID, BRAND_NAME is populated from SEM_PRODUCT_GROUP (PROD_GROUP_DIM_ID, PROD_GROUP_NAME respectively) based on Product ID</li>
<li>Below columns are populated directly from source.</li>
</ul>
<table>
<tr><th>Semantic table field</th><th>Source field</th></tr>
<tr><td>POSITION_ID</td><td>POSITION_ID</td></tr>
<tr><td>ROLE</td><td>ROLE</td></tr>
<tr><td>ALLOCATION_PERCENTAGE</td><td>ALLOCATION_PERCENTAGE</td></tr>
<tr><td>START_DATE</td><td>START_DT</td></tr>
<tr><td>END_DATE</td><td>END_DT</td></tr>
</table>
</td></tr>
</table>

4.4.5 CUSTOMER POSITION PRODUCT

<table>
<tr><td>BRD REQ-RAW-1</td><td>
Feed Details:
<table>
<tr><th>Feed_id</th><th>Feed_name</th><th>Description</th><th>Frequency</th></tr>
<tr><td>392</td><td>Customer_Position_Product_ (CUSTOMER_POSITION_PRODUCT)</td><td>This feed provides live mapping between Customer, Position and Product</td><td>Weekly - Wednesday</td></tr>
<tr><td>393</td><td>Customer_Position_Product_ (CUSTOMER _POSITION_PRODUCT)</td><td>This feed provides frozen mapping between Customer, Position and Product for future quarter (next quarter).</td><td>Quarterly - 4th day of quarter</td></tr>
</table>
Source: JAMS
</td></tr>
</table>

<table>
<tr><td></td><td>Subject Area: Alignment
Markets: Psychiatry, Addiction
Products:. Aristada, Lybalvi, Vivitrol
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): No
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>• RAW_JAMS_CUST_POSITION_PROD, RAW_JAMS_CUST_POSITION_PROD_FROZEN
• CLNS_JAMS_CUST_POSITION_PROD, CLNS_JAMS_CUST_POSITION_PROD_FROZEN
• MAP_CUST_POSITION_PROD, MAP_CUST_POSITION_PROD_FROZEN
• SEM_CUSTOMER_POSITION_PRODUCT, SEM_CUSTOMER_POSITION_PRODUCT_FROZEN</td></tr>
<tr><td>BRD-REQ-DWH-3</td><td>• MAP_CUST_POSITION_PROD holds Customer Product Position mapping for the current quarter (Live Prod-Pos mapping) where history will also be maintained.
○ The history is maintained from Q4 2020.
• Based on the Action Code against any Customer ID, Position ID, Product ID and Start Date combination received in the incremental weekly feed, the data load strategy in the warehouse will be defined.
○ If Action code = ‘I’, records from source feed will be loaded into the warehouse and IS_ACTIVE will be set to ‘TRUE’.
○ If Action code = ‘U’ , the existing records will be end dated (IS_ACTIVE=’FALSE’ , END_DT =current_date-1, UPDATE_FILE_ID = file id in latest file, UPDATE_RECORD_ID=record id in latest file, UPDATE_DT=current_date, UPDATE_RUN_ID=run id for latest run) and the latest record from the feed will be loaded into the warehouse with IS_ACTIVE=’ TRUE’
○ If Action code = ‘D’, END_DT will be populated from source feed and IS_ACITVE will be set to ‘FALSE’ , UPDATE_FILE_ID = file id in latest feed, UPDATE_RECORD_ID=record id in latest feed, UPDATE_DT=current_date, UPDATE_RUN_ID=run id for latest run
• MAP_CUST_POSITION_PROD_FROZEN will include frozen Customer Product Position mapping (future quarter mapping) where history will also be maintained.
○ The history is maintained from Q4 2020
○ If multiple files for same quarter is received, then data in the latest file is populated in the warehouse.</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>• SEM_CUSTOMER_POSITION_PRODUCT holds Customer Product Position mapping for the current quarter (Live Cust-Prod-Position mapping) where history will also be maintained.
• SEM_CUSTOMER_POSITION_PRODUCT_FROZEN will include frozen Customer Product Position mapping (future quarter mapping) where history will also be maintained.
• The history for both live and frozen Customer Product Position alignments is available from Q4 2020
• Product Details (PROD_GROUP_DIM_ID and BRAND_NAME) is populated from SEM_PRODUCT_GROUP based on Product ID
• Below columns are populated directly from source.
<table><tr><th>Semantic table field</th><th>Source field</th></tr><tr><td>ALK_ID</td><td>CUST_ID</td></tr><tr><td>POSITION_ID</td><td>POSITION_ID</td></tr><tr><td>START_DATE</td><td>START_DT</td></tr></table></td></tr>
</table>

		END_DATE	END_DT
		TARGET_FLAG	TARGET_FLAG

4.4.6 CUSTOMER POSITION GEOGRAPHY

BRD-REQ-OBJ-1	• SEM_POSITION_TERRITORY, SEM_POSITION_TERRITORY_FROZEN • SEM_CUSTOMER_POSITION_PRODUCT, SEM_CUSTOMER_POSITION_PRODUCT_FROZEN • SEM_GEOGRAPHY_HIERARCHY, SEM_GEOGRAPHY_HIERARCHY_FROZEN • SEM_EMPLOYEE_ASSIGNMENT • SEM_EMPLOYEE

BRD-REQ-SEM-2	• SEM_CUSTOMER_POSITION_GEOGRAPHY will include Customer Position mapping along with Employee Assignments.
	  ○ Both 'Live' data and 'Frozen' data for one Quarter will be available in Semantic.
	  ○ XREF_ALIGNMENT_CYCLE will be used to identify the Quarter basis which the Frozen alignments will be populated in Semantic. XREF ALIGNMENT_CYCLE includes Start and End dates of the quarter along with the Flag which signifies the Current Quarter.
	  ○ all levels (Territory, District, Region, Nation, Enterprise).
	• **Position details** (POSITION_ID) will be populated from SEM_POSITION_TERRITORY.
	• **Customer** (ALK_ID) and **Product details** (PRODUCT_ID, PRODUCT) will be populated from SEM_CUSTOMER_POSITION_PRODUCT based on POSITION_ID and END_DATE.
	• **Territory details** (TEAM_DIM_ID, TEAM_NAME, TERRITORY_ID, TERRITORY_NAME, DISTRICT_ID, DISTRICT_NAME, DISTRICT_ORG_UNIT_ID, REGION_ID, REGION_NAME, REGION_AD_LOGIN, NATION_ID, NATION_NAME, NATION_AD_LOGIN, ENTERPRISE_ID, ENTERPRISE_NAME, ENTERPRISE_AD_LOGIN) will be populated from SEM_GEOGRAPHY_HIERARCHY based on ORG_UNIT_ID, END_DATE and ORG_UNIT_LEVEL_ID.
	  ○ ORG_UNIT_LEVEL_ID=1 indicates Territory
	  ○ ORG_UNIT_LEVEL_ID=2 indicates District
	  ○ ORG_UNIT_LEVEL_ID=3 indicates Region
	  ○ ORG_UNIT_LEVEL_ID=4 indicates Nation
	  ○ ORG_UNIT_LEVEL_ID=5 indicates Enterprise
	• **Employe assignment details** (POSITION_EMPLOYEE_ID, POSITION_ASSIGNMENT_TYPE, DISTRICT_ASSIGNMENT_TYPE, DISTRICT_EMPLOYEE_ID, REGION_EMPLOYEE_ID, REGION_ASSIGNMENT_TYPE, NATION_ASSIGNMENT_TYPE, NATION_EMPLOYEE_ID, ENTERPRISE_ASSIGNMENT_TYPE, ENTERPRISE_EMPLOYEE_ID) will be populated from SEM_EMPLOYEE_ASSIGNMENT based on POSITION_ID, ASSIGNMENT_START_DATE and ASSIGNMENT_END_DATE
	• **Employee details** (POSITION_AD_LOGIN, DISTRICT_AD_LOGIN, REGION_AD_LOGIN, NATION_AD_LOGIN, ENTERPRISE_AD_LOGIN) will be populated from SEM_EMPLOYEE for Active Employees.
	• START_DATE, END_DATE will be populated with quarter start and end date for FROZEN alignments and NULL for LIVE alignments.
	• Update date field will capture the date when ALK_ID updates are observed.
	• VW_SEM_CUSTOMER_POSITION_GEOGRAPHY is a Secured View with one-to-one mapping from SEM_CUSTOMER_POSITION_GEOGRAPHY.
	• SEM_CUSTOMER_POSITION_GEOGRAPHY_FROZEN will include 4 quarters of Frozen Customer Position Mapping along with Employee Assignments

	○ The inclusion of new quarters in this table will be driven by XREF_ALIGNMENT_CYCLE. At any point in time, the Latest 4 quarters with Flag=NULL will be included. ○ ALK_IDs will be updated daily. **Semantic table field** / **Source field** ALK_ID / ALK_ID TEAM_DIM_ID / TEAM_DIM_ID TEAM_NAME / TEAM_NAME PRODUCT_ID / PROD_GRP_DIM_ID PRODUCT / BRAND_NAME POSITION_ID / POSITION_ID

4.4.7 TIME OFF TERRITORY

BRD REQ-EXN-1	**Data Description:** This data table provides the time duration details for which the sales rep was not deployed in the field. **Subject Area:** Alignment **Markets:** Addiction, Psychiatry, Hospital, Field Reimbursement **Source**: Veeva CRM **Source table:** TIME_OFF_TERRITORY_VOD__C **Load strategy (Incremental/ Full) –** Full **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** NA **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	• CDE_EXN.TIME_OFF_TERRITORY_VOD__C • FCT_TIME_OFF_TERRITORY • SEM_TIME_OFF_TERRITORY
BRD-REQ-DWH-3	• FCT_TIME_OFF_TERRITORY will provide the time duration details for which sales rep was not present on field. • **USER_TEAM** will be populated based on below logic - ○ If the fourth letter in TERRITORY is 'A' or first four letters are 'SAGX' then populate Addiction. ○ If the fourth letter in TERRITORY is 'S' or first four letters are 'SCGX' then populate Psychiatry. ○ If the first four letters are 'HXFX' then populate Field Reimbursement. ○ If the first four letters are 'SCIH' then populate Hospital. • **USER_ROLE** will be populated based on below logic – ○ For User team Addiction and Psychiatry, if the last 4 digits of Territory are '0000', then populate it as 'SRD', if the last 2 digits are '00' then populate it as 'DBL' else populate 'TBM'.

<table>
<tr><td></td><td>
<ul>
<li>For User team Hospital, if the last 2 digits of Territory are ‘00’, then populate it as ‘HBL’, else populate ‘HBM’.</li>
<li>For User team Field Reimbursement, if the last 2 digits of Territory are ‘00’, then populate it as ‘FRD’, else populate ‘FRM’.</li>
</ul>
<ul>
<li>USER_NAME will be populated as NAME from CDE_EXN.User based on ID.</li>
<li>Records having Time off hours greater than 8 will be split into multiple days with each day (<=8 hours) as a separate entry. For Instance – if for a particular record, time off hours are 32, then it will be split into four records with 8 hours each consecutive day.</li>
</ul>
</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>
<ul>
<li>SEM_TIME_OFF_TERRITORY provides the time duration for which sales rep was not present on field.</li>
<li>SPLIT_WEEK_DATE and MONTH is populated from SEM_SPLIT_WEEK_CALENDAR based on SPLIT WEEK ID.</li>
<li>USER_TEAM will be populated based on below logic -
<ul>
<li>If the fourth letter in TERRITORY is ‘A’ or first four letters are ‘SAGX’ then Addiction will be populated.</li>
<li>If the fourth letter in TERRITORY is ‘S’ or first four letters are ‘SCGX’ then Psychiatry will be populated.</li>
<li>If the first four letters are ‘HXFX’ then Field Reimbursement will be populated.</li>
<li>If the first four letters are ‘SCIH’ then Hospital will be populated.</li>
</ul></li>
<li>USER_ROLE will be populated based on below logic –
<ul>
<li>For Addiction and Psychiatry, if the last 4 digits of Territory are ‘0000’, then ‘SRD’ will be populated, if the last 2 digits are ‘00’ then ‘DBL’ will be populated else ‘TBM’ will be populated.</li>
<li>For Hospital, if the last 2 digits of Territory are ‘00’, then ‘HBL’ will be populated, else ‘HBM’ will be populated.</li>
<li>For Field Reimbursement, if the last 2 digits of Territory are ‘00’, then ‘FRD’ will be populated, else ‘FRM’ will be populated.</li>
</ul></li>
<li>USER_NAME will be populated as NAME from CDE_EXN.User based on ID.</li>
<li>Below fields are directly populated from source.</li>
</ul>
<table>
<tr><th>Semantic table field</th><th>Source field</th></tr>
<tr><td>USER_ID</td><td>OWNERID</td></tr>
<tr><td>TIME_OFF_TERRITORY_NAME</td><td>NAME</td></tr>
<tr><td>TERRITORY</td><td>TERRITORY_VOD__C</td></tr>
<tr><td>USER_ROLE</td><td>USER_ROLE</td></tr>
<tr><td>USER_TEAM</td><td>USER_TEAM</td></tr>
<tr><td>DATE</td><td>DATE_VOD__C</td></tr>
<tr><td>REASON</td><td>REASON_VOD__C</td></tr>
<tr><td>TIME_OFF_HOURS</td><td>HOURS_VOD__C</td></tr>
</table>
</td></tr>
</table>

4.4.8 ZIP TERRITORY POSITION

BRD-REQ-OBJ-1	• SEM_POSITION_TERRITORY • SEM_ZIP_TERRITORY

<table>
<tr><td>BRD-REQ-SEM-1</td><td>
<ul>
<li>Zip to Territory to Position mapping will be populated using Zip-Territory mapping from SEM_ZIP_TERRITORY.</li>
<li>Include Position ID from SEM_POSITION_TERRITORY based on the Territory IDs and the Territory name will be populated as Position name.</li>
</ul>
<table>
<tr><th>Reporting table field</th><th>Source field</th></tr>
<tr><td>ZIP</td><td>ZIP</td></tr>
<tr><td>TERRITORY_ID</td><td>TERRITORY_ID</td></tr>
<tr><td>TERRITORY_NAME</td><td>TERRITORY_NAME</td></tr>
<tr><td>POSITION_NAME</td><td>POSITION_NAME</td></tr>
<tr><td>TEAM_DIM_ID</td><td>TEAM_DIM_ID</td></tr>
<tr><td>TEAM_NAME</td><td>TEAM_NAME</td></tr>
<tr><td>START_DATE</td><td>START_DATE</td></tr>
<tr><td>END_DATE</td><td>END_DATE</td></tr>
</table>
</td></tr>
</table>

4.4.9 LATEST ALIGNMENT(VIEW)

<table>
<tr><td>BRD-REQ-OBJ-1</td><td>
<ul>
<li>MAP_ZIP_TERR</li>
<li>SEM_GEOGRAPHY_HIERARCHY</li>
</ul>
</td></tr>
<tr><td>BRD-REQ-RPT-1</td><td>
<ul>
<li>VW_LATEST_ALIGNMENT provides alignment based on zip</li>
<li>Territory details (TERRITORY_ID, TERRITORY_NAME, DISTRICT_ID, DISTRICT_NAME, REGION_ID, REGION_NAME) will be populated from SEM_GEOGRAPHY_HIERARCHY based on ORG_UNIT_ID , END_DATE and ORG_UNIT_LEVEL_ID.
<ul>
<li>ORG_UNIT_LEVEL_ID=1 indicates Territory</li>
<li>ORG_UNIT_LEVEL_ID=2 indicates District</li>
<li>ORG_UNIT_LEVEL_ID=3 indicates Region</li>
</ul>
</li>
<li>Below fields are directly populated from source.</li>
</ul>
<table>
<tr><th>Reporting table field</th><th>Source field</th></tr>
<tr><td>ZIP</td><td>ZIP</td></tr>
<tr><td>TEAM_DIM_ID</td><td>TEAM_DIM_ID</td></tr>
<tr><td>TEAM_NAME</td><td>TEAM_NAME</td></tr>
</table>
</td></tr>
</table>

4.5 CUSTOMER PROCESSES

4.5.1 TIER

For Aristada and Lybalvi, Customer Tiers will be sourced from Alkermes Business feed (Tier Universe) whereas for Vivitrol, the same will be sourced from Veeva (Tiers for Addiction team were last populated in May-21)

S.No.	Requirement
BRD-REQ-RAW-1	**Feed Id:** 565 **Feed Name:** Tier_Universe **Feed Description:** This feed provides Customer Tier Categorization for Aristada and Lybalvi. **Source**: Alkermes **Subject Area:** Customer **Markets:** Psychiatry **Products:** Aristada, Lybalvi. **Load strategy (Incremental/ Full) –** Incremental **Restatement (Yes/ No):** Yes (Only if multiple files are shared for same quarter) **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Ad hoc) –** Ad-hoc **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** Ad-hoc **MDM Mastering (Yes/No) –** No
BRD_REQ_EXN_2	**Data Description:** This feed provides Customer Tier Categorization for Vivitrol. (For Addiction Tiers XREF_DATA_FREEZE_DETAIL was last updated on May-21, so last updated tiers for Addiction team was populated on May-21 only.) **Subject Area:** Customer **Source:** Veeva CRM **Source table:** Account **Markets:** Addiction **Products:** Vivitrol **Load strategy (Incremental/ Full) –** Full **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** NA **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-3	**Tables/Views Covered –** • RAW_CUSTOMER_TIER • CLNS_CUSTOMER_TIER • SEM_CUSTOMER_TIER • VW_SEM_CUSTOMER_TIER
BRD-REQ-SEM-4	For **Aristada and Lybalvi**, Tier information will be directly sourced from the Business feed. If multiple files will be shared in for the same quarter, then restatement will be based on below fields: TEAM_DIM_ID, TEAM_NAME, PRODUCT_MASTER_ID, PRODUCT_MASTER_NAME, INDICATION_ID, INDICATION, END_DATE • **Customer ID** will be fetched from Customer Master based on ALKID. • In case of multiple Tiers for same Customer and Team combination in a Quarter, the highest Tier should be considered as per below:

Brand	Priority Order
Aristada	1>2 > 3 > A > B > C > VA/HIS
Lybalvi	1> 2 > 3 > A+ > A > B > C > VA/HIS > TIER 2 HIGH VALUE > TIER 2 MEDIUM VALUE > TIER 2 OTHER

- Below fields are directly populated from source for Aristada and Lybalvi-

Semantic Table Field	Source Field
TEAM_DIM_ID	TEAM_DIM_ID
TEAM_NAME	TEAM_NAME
PRODUCT_MASTER_ID	PRODUCT_MASTER_ID
PRODUCT_MASTER_NAME	PRODUCT_MASTER_NAME
INDICATION_ID	INDICATION_ID
INDICATION	INDICATION
START_DATE	START_DATE
END_DATE	END_DATE
TIER	TIER

For **Vivitrol**, Tiers for HCOs will be sourced from Veeva Accounts object for every Quarter based on Freeze date from XREF_DATA_FREEZE_DETAIL. (Vivitrol Tiers are present from Apr'16 till Jun'21 only)

- **Team information** (Team Name) will be defaulted to 'Addiction'.
- **Customer ID** will be fetched from Customer Master based on ALKID.
- **Product details** will be fetched from Product Group.
- In case of multiple Tiers for same Customer and Team combination in a Quarter, the highest Tier should be considered as per below:

Brand	Priority Order
Vivitrol	Primary Gold/Primary > Primary Silver > Secondary > Prospecting > non-Priority

- Tier Status for Child Accounts (HCPs) will be populated from Veeva Accounts object using Customer Affiliation table based on Alk_ID.
- **Update date** field will capture the date when Alk_id updates are observed.
- Below fields are directly populated from source for Vivitrol-

Semantic Table Field	**Source Field** (Veeva CRM Account)
TIER	CURRENT_QTR_SEGMENTATION__C

- **VW_SEM_CUSTOMER_TIER** will hold Tier details latest available Quarter and all historical Quarters for Addiction and Psychiatry teams starting April 2016.

4.5.2 TARGET

<table>
<tr><th>S.No.</th><th>Requirement</th></tr>
<tr><td>BRD-REQ-RAW-1</td><td>Feed Id: 566
Feed Name: Target_Universe
Feed Description: This feed is used to identify Customers as Brand Target for Alkermes.
Source: Alkermes
Subject Area: Customer
Markets: Addiction, Psychiatry
Products: Aristada, Vivitrol, Lybalvi.
Load strategy (Incremental/ Full) – Incremental
Restatement (Yes/ No): Yes. If multiple files for same quarter is received,
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Quarterly
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- Ad-hoc (Usually a month before the start of Quarter)
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>Tables/Views Covered –<ul><li>RAW_CUSTOMER_TARGET</li><li>CLNS_CUSTOMER_TARGET</li><li>SEM_CUSTOMER_TARGET</li><li>VW_SEM_CUSTOMER_TARGET</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-3</td><td><ul><li>Target details for every quarter will be loaded into Semantic where history will also be available.<ul><li>At present, History data from July 2020 is available.</li><li>When multiple feeds for the same Quarter are received from the source, restatements are applied based on key columns- TEAM_DIM_ID, TEAM_NAME, PRODUCT_MASTER_ID, PRODUCT_MASTER_NAME, INDICATION_ID, INDICATION, END_DATE.</li></ul></li><li>Customer Details (Customer Dimension ID) will be populated from Customer Master based on Alk_id.</li><li>Below fields are directly populated from source:
<table><tr><th>Semantic Table Field</th><th>Source Field</th></tr><tr><td>TEAM_DIM_ID</td><td>TEAM_DIM_ID</td></tr><tr><td>TEAM_NAME</td><td>TEAM_NAME</td></tr><tr><td>PRODUCT_MASTER_ID</td><td>PRODUCT_MASTER_ID</td></tr><tr><td>PRODUCT_MASTER_NAME</td><td>PRODUCT_MASTER_NAME</td></tr><tr><td>INDICATION_ID</td><td>INDICATION_ID</td></tr><tr><td>INDICATION</td><td>INDICATION</td></tr><tr><td>START_DATE</td><td>START_DATE</td></tr><tr><td>END_DATE</td><td>END_DATE</td></tr><tr><td>TARGET</td><td>TARGET</td></tr></table></li><li>VW_SEM_CUSTOMER_TARGET will also hold Target details for all Quarters starting July 2020.</li></ul></td></tr>
</table>

4.5.3 TERRITORY SPLIT

<table>
<tr><th>S.No.</th><th>Requirement</th></tr>
<tr><td>BRD-REQ-RAW-1</td><td>Feed Id: 584
Feed Name: Q[1-4]YYYY_Split_Universe_YYYYMMDD, Eg. Q32023_Split_Universe_20230615
Feed Description: This feed provides Customer Territory Splits
Source: Alkermes
Subject Area: Customer
Markets: Addiction, Psychiatry
Products: Aristada, Vivitrol, Lybalvi.
Load strategy (Incremental/ Full) – Incremental
Restatement (Yes/ No): No
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Quarterly (Ad-hoc)
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- Ad-hoc
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>Tables/Views Covered –<ul><li>RAW_CUSTOMER_TERRITORY_SPLIT</li><li>CLNS_CUSTOMER_TERRITORY_SPLIT</li><li>SEM_CUSTOMER_TERRITORY_SPLIT</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-3</td><td>
<ul>
<li>Latest available Quarter Territory Splits will be loaded in Semantic where History will also be maintained (history data from Q4’2022 is available)
<ul>
<li>For each quarter, restatement logic will be applicable to capture all the incremental records and updates on existing records based on the below key columns:
<ul>
<li>TEAM_DIM_ID, TERRITORY_ID, START_DATE, END_DATE, TEAM_NAME</li>
</ul></li>
</ul></li>
<li>Alk_Id updates will be applicable only for latest two quarters (current and previous quarter).
<ul>
<li>Update date field will capture the date when Alk_id updates are observed.</li>
<li>For Alk_Id unmerges, a DQ will be triggered, and the information will be shared with business to confirm the appropriate splits.</li>
</ul></li>
<li>Below are the instances for Alk_Id merge scenarios. For instance, ALK_XX345 merges with ALK_XX123).</li>
</ul>
Scenario 1: If the splits and territory are equal for Alk_ID and team combination, the records can be de-duplicated.
<table>
<tr><th>TEAM_DIM_ID</th><th>ALK_ID</th><th>TERRITORY_ID</th><th>PERCENT_SPLIT</th></tr>
<tr><td>1</td><td>ALK_XX123</td><td>0000002</td><td>0.5</td></tr>
<tr><td>1</td><td>ALK_XX123</td><td>0000003</td><td>0.5</td></tr>
<tr><td>1</td><td>ALK_XX123</td><td>0000002</td><td>0.5</td></tr>
<tr><td>1</td><td>ALK_XX123</td><td>0000003</td><td>0.5</td></tr>
</table>
Scenario 2: If the splits or territory are not equal for Alk_ID and team combination, a DQ will be flagged, and the details will be shared with business to confirm the appropriate splits.
<table>
<tr><th>TEAM_DIM_ID</th><th>ALK_ID</th><th>TERRITORY_ID</th><th>PERCENT_SPLIT</th></tr>
<tr><td>1</td><td>ALK_XX123</td><td>0000002</td><td>0.6</td></tr>
<tr><td>1</td><td>ALK_XX123</td><td>0000003</td><td>0.4</td></tr>
</table>
</td></tr>
</table>

1	ALK_XX123	0000002	0.4
1	ALK_XX123	0000003	0.6

For Alk_id unmerge and merge(2nd scenario) data will be shared with business using below format:

TEAM_DIM_ID	OLD_ALK_ID	NEW_ALK_ID	TERRITORY_ID	PERCENT_SPLIT
1	ALK_XX123	ALK_XX123	0000002	0.6
1	ALK_XX123	ALK_XX123	0000003	0.4
1	ALK_XX345	ALK_XX123	0000002	0.4
1	ALK_XX345	ALK_XX123	0000003	0.6

BRD-REQ-RPT-4

- View will contain the information for live alignments and splits for the customers.
- Live alignments will be populated from Position Geography table.
- Splits will be directly populated from Territory Splits table for a customer based on team and territory. If splits are not present in Territory Splits table, then the territory will be equally split across customers for a particular team.
- If the customer will be present in Territory Splits table but for other territory or team, then split will be populated as '0'.
- The splits for latest quarter will be populated based on latest quarter information available in Quarter details table (shared by ZS to indicate quarter start date for available live alignments).

4.5.4 SEGMENTATION

BRD-REQ-RAW-1

Feed Ids: 567
Feed Name: Segment_Universe
Feed Description: This feed contains the segmentation detail of customer for Lybalvi and Vivitrol is received directly from Alkermes**.**
Source: Internal - Business
Subject Area: Customer
Markets: Full Anti-Psych, Addiction
Products: Lybalvi, Vivitrol
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): Yes (only if multiple files shared to same quarter)
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Adhoc
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- NA
MDM Mastering (Yes/No) – No

BRD-REQ-OBJ-2

- RAW_CUSTOMER_SEGMENTATION
- CLNS_CUSTOMER_SEGMENTATION
- SEM_CUSTOMER_SEGMENTATION

<table>
<tr><td></td><td>

- VW_SEM_CUSTOMER_SEGMENTATION

</td></tr>
<tr><td>BRD-REQ-SEM-3</td><td>

For ARISTADA:

- For latest completed quarter, Segment for Aristada will be calculated from SEM_ XPO_PROJECTED_FROZEN as per below logic:
  1. If ALAI Market sales is 0 then 'NA'
  2. If (ARIPIPRAZOLE Sales (Reporting prod group)/ (ALAI Market Sales) < 0 .2 then 'Aripiprazole Non-Believer'
  3. if Aristada Sales / ARIPIPRAZOLE (Reporting prod group) Sales > 0.5 then 'ARISTADA Adopter'
  4. if Trinza (Reporting prod group) Sales / ALA Market Sales > 0.05 then 'Maintena + Trinza Bullseye'
  5. Else 'Maintena Loyalist'

- **Segmentation** detail will be fetched for customer type 'IND' and prescriber_ids not starting with ('95','96','97','98','99').
- **PRODUCT_MASTER_NAME** will be defaulted as 'Aristada '.
- **INDICATION** will be loaded as 'Schizophrenia'.
- **SEGMENT_NAME** will be loaded as 'Aristada Behavorial Segment –1'.
- Below fields are directly populated from source (SEM XPO PROJECTED FROZEN) -

TargetTable Field	Source Field
CUST_DIM_ID	CUST_DIM_ID
ALK_ID	ALK_ID
PERIOD_START_DATE	PERIOD_START_DATE
PERIOD_END_DATE	PERIOD_END_DATE

For VIVITROL and LYBALVI:

- **Segmentation** information will be directly source from Business feed. If multiple files will be shared for same quarter then restatement will be based on below fields:
  - SEGMENT_NAME, PRODUCT_MASTER_ID, PRODUCT_MASTER_NAME, INDICATION_ID, INDICATION, START_DATE, END_DATE
- **Customer details (CUST_DIM_ID)** will be fetched from Customer Master based on ALKID.
- **ALK_ID** update will be applied to complete data.
- Below fields are directly populated from source for VIVITROL and LYBALVI-

Target Table Field	Source Field
SEGMENT_NAME	SEGMENT_NAME
PRODUCT_MASTER_ID	PRODUCT_MASTER_ID
PRODUCT_MASTER_NAME	PRODUCT_MASTER_NAME
INDICATION_ID	INDICATION_ID
PERIOD_START_DATE	PERIOD_START_DATE
PERIOD_END_DATE	PERIOD_END_DATE

</td></tr>
</table>

BRD-REQ-VW-4	• VW_SEM_CUSTOMER_SEGMENTATION will have complete Customer Segmentation data for Aristada, Vivitrol and Lybalvi.

4.5.5 CALL PLAN

BRD-REQ-RAW-1	**Feed Ids:** 612 **Feed Name:** CALL_PLAN **Feed Description:** This feed contains Call plan target details. **Source:** ZS Associates **Subject Area:** Customer **Markets:** Psychiatry, Addiction **Products:** Aristada, Lybalvi ,Vivitrol **Load strategy (Incremental/ Full) –** Full **Control File(Yes/No)**:Yes **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Ad-hoc) –** Quarterly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** 1st Week of Quarter **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	• RAW_CALL_PLAN • CLNS_CALL_PLAN • FCT_CALL_PLAN • SEM_CALL_PLAN • VW_ SEM_CALL_PLAN
BRD-REQ-DWH-3	• Call Plans for Addiction and Psych teams will be loaded in the Warehouse Quarterly where History will also be maintained. • **PROD_DIM_ID** will be fetched from Product Master based on Product Name. • **CUST_DIM_ID** will be fetched from Customer Master based on DETAILING_PRIORITY__C. • **TEAM_DIM_ID** will be fetched from Semantic Team based on SALES_TEAM__C. • **Indication_ID** will be populated from Indication Dimension table based on INDICATION.
BRD-REQ-SEM-4	• Call Plans for Addiction and Psych teams will be loaded in Semantic Quarterly where History will also be available. • **Product Details** will be fetched from Product Master based on Product Name. • **Customer Details** will be fetched from Customer Master based on DETAILING_PRIORITY__C. • **Team details** will be fetched from Semantic Team based on SALES_TEAM__C. • Below fields are directly populated from source:

Source Fields (Raw)	Semantic Call Plan Fields
CYCLE_NAME	CYCLE_NAME
START_DATE	START_DATE
END_DATE	END_DATE
TEAM_NAME	TEAM_NAME

INDICATION	INDICATION
PRODUCT_POSITION	PRODUCT_POSITION
PLANNED_CALLS	PLANNED_CALLS
ROLE	ROLE
POSITION_ID	POSITION_ID

- VW_SEM_CALL_PLAN will have Quarterly Call Plans for Addiction and Psych teams along with History.

4.6 PRODUCT MASTER

S NO	Requirement
BRD-REQ-OBJ-1	**Product Master consists of Product, Product Group and Market Basket details.** **Subject Area:** Product **Source:** Alkermes (Data Governance Team) **Markets:** Addiction**,** Psychiatry **Products:** Aristada, Vivitrol, Lybalvi and Competitors **Load strategy (Incremental/ Full) –** Full **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Adhoc **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** N/A **MDM Mastering (Yes/No) –** No **Tables Covered –** • DIM_PROD_MSTR • DIM_PROD_GRP • DIM_MKT_BSKT • MAP_PROD_EXT_ID • DIM_PROD_INDCN • MAP_PROD_CNTRY • SEM_PRODUCT_MASTER • SEM_PRODUCT_GROUP • SEM_MARKET_BASKET • VW_SEM_PRODUCT_MASTER • VW_SEM_PRODUCT_GROUP • VW_SEM_MARKET_BASKET
BRD-REQ-DWH-2	○ All the Product Dimension tables in Warehouse are static and records will be directly inserted into the tables as and when required.

<table>
<tr><td></td><td>
<ul>
<li>Data Governance team will share any new records in Excel with Operations team to be included in the below Product Dimension tables in Data Warehouse. The same is loaded as is in the warehouse without any transformations.</li>
<li><u>Product Master Dimension</u> will include list of all the products and competitors.</li>
<li><u>Product Group Dimension</u> will include Product Group information i.e., Product to Product Group mapping.</li>
<li><u>Market Basket Dimension:</u> will include Market Basket information i.e., Product to Market mapping.</li>
<li><u>Product External ID Mapping</u> will include mapping between Source Product ID and CDE Product ID. Source Product ID refers to the Products IDs received from multiple sources.</li>
<li><u>Product Indication Dimension</u>: will include list of all Indications for a product.</li>
<li><u>Product Country Mappings</u> will include mapping of Product, Indication and Country.</li>
</ul>
</td></tr>
<tr><td>BRD-REQ-SEM-3</td><td>Product Details, Product Group Details and Market Basket details will be available in Semantic as is from source.
<ul>
<li><u>Product Master</u> will include list of all the products and competitors at NDC level.</li>
</ul>
<table>
<tr><th>Semantic Table field</th><th>Source field</th></tr>
<tr><td>PROD_DIM_ID</td><td>PROD_DIM_ID</td></tr>
<tr><td>PRODUCT_NAME</td><td>PROD_NAME</td></tr>
<tr><td>STRENGTH</td><td>STRENGTH</td></tr>
<tr><td>UNITS</td><td>UNITS</td></tr>
<tr><td>UPC</td><td>UPC</td></tr>
<tr><td>NDC_GTIN</td><td>NDC_GTIN</td></tr>
<tr><td>NDC_11</td><td>NDC_11</td></tr>
<tr><td>MOLECULE_NAME</td><td>MOLECULE_NAME</td></tr>
<tr><td>BRAND_NAME</td><td>BRAND_NAME</td></tr>
<tr><td>PRODUCT_FORM</td><td>PROD_FORM</td></tr>
<tr><td>BRAND_COMPETITOR_FLAG</td><td>BRAND_COMPETITOR_FLAG</td></tr>
<tr><td>BRANDED_GENERIC</td><td>BRANDED_GENERIC</td></tr>
<tr><td>TQTY_UNITS_CONVERSION_FACTOR</td><td>TQTY_UNITS_CONV_FACTOR</td></tr>
<tr><td>MOT_CONVERSION_FACTOR</td><td>MOT_CONV_FACTOR</td></tr>
<tr><td>TRX_MOT_CONVERSION_FACTOR</td><td>TRX_MOT_CONVERSION_FACTOR</td></tr>
<tr><td>PACKSET_NAME</td><td>PACKSET_NAME</td></tr>
<tr><td>PACKSET_SIZE</td><td>PACKSET_SIZE</td></tr>
<tr><td>PACKSET_STATUS</td><td>PACKSET_STATUS</td></tr>
<tr><td>PCKNG_TYPE</td><td>PCKNG_TYPE</td></tr>
<tr><td>PCKNG_STATUS</td><td>PCKNG_STATUS</td></tr>
</table>
</td></tr>
</table>

	○ **Product Group Mapping** will include Product Group information i.e., Product to Product Group mapping. **Semantic Table field** / **Source field** PROD_GROUP_DIM_ID / PROD_GRP_DIM_ID PROD_GROUP_TYPE / PRD_GRP_TYPE PROD_GROUP_NAME / PROD_GRP_NAME PROD_DIM_ID / PROD_DIM_ID CHILD_TYPE / CHILD_TYPE RPT_PROD_GROUP / RPT_PROD_GRP ○ **Market Basket** will include the constituting products and brands for each market. **Semantic Table field** / **Source field** MARKET_DIM_ID / MKT_DIM_ID MARKET_CD / MKT_CD MARKET_NAME / MKT_NAME PRODUCT_TYPE / PROD_TYPE PROD_GROUP_DIM_ID / PROD_GRP_DIM_ID REPORTING_MARKET_NAME / RPT_MKT_NAME

4.7 CALENDAR

S NO	Requirement
BRD-REQ-OBJ-1	**Tables Covered –** • DIM_CALENDAR • DIM_SPLIT_WEEK_CALENDAR • SEM_CALENDAR • SEM_SPLIT_WEEK_CALENDAR • VW_SEM_SPLIT_WEEK_CALENDAR
BRD-REQ-DWH-2	• DIM_CALENDAR & DIM_SPLIT_WEEK_CALENDAR both are static tables and directly loaded from one time file provided by Alkermes IT (Sang) and IQVIA respectively. ○ Holiday List is shared by Alkermes IT basis which the exclusions are made in Calendar Dimension. Currently, Calendar dimension is loaded until 2033. ○ Split week calendar data is received from IQVIA in December for the upcoming year. • DIM_CALENDAR is a Calendar Master data table, and is used to Roll up the dates in transactional tables to different Time Periods like Quarter etc. It holds flags for Patient Services holiday, Alkermes Home Office holiday, Field holiday and Factory holiday. It provides a common way to represent and manipulate dates to facilitate time-based analysis and reporting. • DIM_SPLIT_WEEK_CALENDAR provides information on the Split Calendar weeks, where the end of the month occurs in between a week. It is used for rolling up weekly sales data to monthly using 'Split Week Factor' field provided in this table to divide sales between two weeks if the month is ending in each week of sales.

BRD-REQ-SEM-3

- Data from static tables DIM_SPLIT_WEEK_CALENDAR & DIM_CALENDAR will be directly loaded in SEM_SPLIT_WEEK_CALENDAR & SEM_CALENDAR respectively.
- All fields are directly mapped from DWH tables to SEM layer.
- Data from SEM_SPLIT_WEEK_CALENDAR will be directly loaded in VW_SEM_SPLIT_WEEK_CALENDAR

Below fields are directly populated from source:

SEM_SPLIT_WEEK_CALENDAR

Semantic Table Field	Source Field
ID	ID
SW_START_DATE	SW_START_DT
SW_END_DATE	SW_END_DT
NUMBER_OF_DAYS	NUM_OF_DAYS
WEEKENDING_FRIDAY	WEEKENDING_FRIDAY
WEEK_NUMBER	WEEK_NUM
CALENDAR_MONTH	CALENDAR_MONTH
CALENDAR_MONTH_START_DATE	CALENDAR_MONTH_START_DT
END_OF_MONTH_FRIDAY	END_OF_MONTH_FRIDAY
MONTH_NUMBER	MONTH_NUM
SPLIT_WEEK_FACTOR	SPLIT_WEEK_FACTOR

SEM_CALENDAR

Semantic Table Field	Source Field
CALENDAR_ID	CALENDAR_ID
COMPLETE_DATE	COMPLETE_DT
DT_LONG_NAME	DT_LONG_NAME
DT_SHORT_NAME	DT_SHORT_NAME
DT_LONG_WEEK_NAME	DT_LONG_WEEK_NAME
DT_SHORT_WEEK_NAME	DT_SHORT_WEEK_NAME
WEEKEND_FLAG	WEEKEND_FLAG
CALENDAR_WEEK_NUMBER	CALENDAR_WEEK_NUM
CALENDAR_YR_WEEK_NUMBER	CALENDAR_YR_WEEK_NUM
WEEKENDING_FRIDAY	WEEKENDING_FRIDAY
CALENDAR_WEEK_NAME	CALENDAR_WEEK_NAME
CALENDAR_WEEK_ENDING_NAME	CALENDAR_WEEK_ENDING_NAME

		CALENDAR_WEEK_DAY_NUMBER	CALENDAR_WEEK_DAY_NUM	
		CALENDAR_WEEK_START_DAY_KEY	CALENDAR_WEEK_START_DAY_KEY	
		CALENDAR_WEEK_END_DAY_KEY	CALENDAR_WEEK_END_DAY_KEY	
		CALENDAR_MONTH_NUMBER	CALENDAR_MONTH_NUM	
		CALENDAR_YR_MONTH_NUMBER	CALENDAR_YR_MONTH_NUM	
		CALENDAR_MONTH_LONG_NAME	CALENDAR_MONTH_LONG_NAME	
		CALENDAR_MONTH_DAY_NUMBER	CALENDAR_MONTH_DAY_NUM	
		CALENDAR_MONTH_WEEK_NUMBER	CALENDAR_MONTH_WEEK_NUM	
		CALENDAR_MONTH_START_KEY	CALENDAR_MONTH_START_KEY	
		CALENDAR_MONTH_END_KEY	CALENDAR_MONTH_END_KEY	
		CALENDAR_MONTH_END_FLAG	CALENDAR_MONTH_END_FLAG	
		CALENDAR_QTR_NUMBER	CALENDAR_QTR_NUM	
		CALENDAR_QTR_NAME	CALENDAR_QTR_NAME	
		CALENDAR_QTR_DAY_NUMBER	CALENDAR_QTR_DAY_NUM	
		CALENDAR_QTR_WEEK_NUMBER	CALENDAR_QTR_WEEK_NUM	
		CALENDAR_QTR_START_KEY	CALENDAR_QTR_START_KEY	
		CALENDAR_QTR_END_KEY	CALENDAR_QTR_END_KEY	
		CALENDAR_QTR_END_FLAG	CALENDAR_QTR_END_FLAG	
		CALENDAR_TRIMESTER_NUMBER	CALENDAR_TRIMESTER_NUM	
		CALENDAR_TRIMESTER_NAME	CALENDAR_TRIMESTER_NAME	
		CALENDAR_YR_NUMBER	CALENDAR_YR_NUM	
		CALENDAR_YR_DAY_NUMBER	CALENDAR_YR_DAY_NUM	
		CALENDAR_YR_START_KEY	CALENDAR_YR_START_KEY	
		CALENDAR_YR_END_KEY	CALENDAR_YR_END_KEY	
		CALENDAR_YR_END_FLAG	CALENDAR_YR_END_FLAG	
		CALENDAR_SK	CALENDAR_SK	
		DST_FLAG	DST_FLAG	
		PS_HOLIDAY_FLAG	PS_HOLIDAY_FLAG	
		PS_HOLIDAY_DESC	PS_HOLIDAY_DESC	
		ALK_HOLIDAY_FLAG	ALK_HOLIDAY_FLAG	
		ALK_HOLIDAY_DESC	ALK_HOLIDAY_DESC	
		FIELD_HOLIDAY_FLAG	FIELD_HOLIDAY_FLAG	
		FIELD_HOLIDAY_DESC	FIELD_HOLIDAY_DESC	
		FACTORY_HOLIDAY_FLAG	FACTORY_HOLIDAY_FLAG	

VW_SEM_SPLIT_WEEK_CALENDAR

Semantic Table Field	Source Field
ID	ID
SW_START_DATE	SW_START_DATE
SW_END_DATE	SW_END_DT
NUMBER_OF_DAYS	NUM_OF_DAYS
WEEKENDING_FRIDAY	WEEKENDING_FRIDAY
WEEK_NUMBER	WEEK_NUMBER
CALENDAR_MONTH	CALENDAR_MONTH
CALENDAR_MONTH_START_DATE	CALENDAR_MONTH_START_DATE
END_OF_MONTH_FRIDAY	END_OF_MONTH_FRIDAY
MONTH_NUMBER	MONTH_NUM
SPLIT_WEEK_FACTOR	SPLIT_WEEK_FACTOR

4.8 GEOGRAPHY

Geography data is received from ZS for below feeds:

1. Geography Hierarchy
2. Geography Frozen
3. Vacant Geography

4.8.1 GEOGRAPHY HIERARCHY

S NO	Requirement
BRD-REQ-1 RAW -1	**Source**: ZS Javelin (JRM). **Subject Area:** Geography **Load strategy (Incremental/ Full) –** Incremental **MDM Mastering (Yes/No) –** No

Feed ID	Feed Name	Frequency	Restatements	Feed Description
396	Geo_Hierarchy_ddmmyyyy.txt	Weekly (Wednesday)	Yes	This feed contains Sales Geography Hierarchy data for all Alkermes teams.

	397	Geo_Hierarchy_ddmmyyyy.txt	Quarterly (4th Day of Quarter)	No	This feed contains Frozen Sales Geography Hierarchy data for all Alkermes teams.

BRD-REQ-OBJ-2

Tables Covered –

- RAW_JAMS_GEO_HIERARCHY, RAW_JAMS_GEO_HIER_FROZEN
- CLNS_JAMS_GEO_HIERARCHY, CLNS_JAMS_GEO_HIERARCHY_FROZEN
- MAP_GEO_HIERARCHY, MAP_GEO_HIERARCHY_FROZEN
- SEM_GEOGRAPHY_HIERARCHY, SEM_GEOGRAPHY_HIERARCHY_FROZEN

BRD-REQ-DW-3

- Geography Hierarchy will be loaded in warehouse Weekly, where history will also be maintained.
  - History from October 2020 is available.
- Based on the Action code against Team ID, Parent OrgUnit ID, OrgUnit ID and Start Date combination received in the incremental weekly feed, the data load strategy in the warehouse will be defined.
  - If Action code = 'I', records from source feed will be loaded into the warehouse and IS_ACTIVE will be set to 'Y'.
  - If Action code = 'U' , the existing records will be end dated (IS_ACTIVE='N' , END_DT =current_date-1, UPDATE_FILE_ID = file id in latest file, UPDATE_RECORD_ID=record id in latest file, UPDATE_DT=current date, UPDATE_RUN_ID=run id for latest run) and the latest record from the feed will be loaded into the warehouse with IS_ACTIVE='Y'
  - If Action code = 'D' , END_DT will be populated from source feed and IS_ACITVE will be set to 'N' , UPDATE_FILE_ID = file id in latest feed, UPDATE_RECORD_ID=record id in latest feed, UPDATE_DT=current date, UPDATE_RUN_ID=run id for latest run.
- The Frozen data includes geography hierarchy for future quarter which will be loaded incrementally in Warehouse where history will also be maintained.
  - History from October 2020 is available.

BRD-REQ-SEM-4

- Live Sales Geography Hierarchy data for all Alkermes team will be loaded weekly in Semantic where history will also be maintained.
  - History from October 2020 is available.
- **Team Details** like team name will be populated from SEM TEAM based on Team Dimension ID.
  - Geo Hierarchy for following teams is available: Psychiatry, Managed Markets Regional, Hospital, MSL - Oncology, MSL, Addiction, Field Reimbursement, Trade - Retail, Key Accounts, Trade - SP, Field Marketing, Managed Markets National, Trade - GPO, Managed Markets Federal, Psychiatry - Inside Sales Team, National Channel Accounts, Trade - Wholesaler, MSL - Managed Markets)
- Below fields are directly populated from source:

Semantic Table Field (Live)	**Source Field**
ORG_UNIT_ID	ORG_UNIT_ID
ORG_UNIT_NAME	ORG_UNIT_NAME
PARENT_ORG_UNIT_ID	PARENT_ORG_UNIT_ID
TEAM_DIM_ID	TEAM_ID
ORG_UNIT_LEVEL_ID	ORG_UNIT_LEVEL_ID
ORG_UNIT_LEVEL_NAME	ORG_UNIT_LEVEL_NAME
JAVELIN_START_DT	START_DT
END_DT	END_DT
LAST_UPDATED_DT	LAST_UPDATED_DT

	• The Frozen geography hierarchy (future quarter data) will be loaded into Semantic where Historical data will also be available. ○ History from October 2020 is available. • Below fields are directly populated from source: **Semantic Table Field** (Frozen) / **Source Field** ORG_UNIT_ID / ORG_UNIT_ID ORG_UNIT_NAME / ORG_UNIT_NAME PARENT_ORG_UNIT_ID / PARENT_ORG_UNIT_ID TEAM_DIM_ID / TEAM_ID ORG_UNIT_LEVEL_ID / ORG_UNIT_LEVEL_ID ORG_UNIT_LEVEL_NAME / ORG_UNIT_LEVEL_NAME START_DATE / START_DT END_DT / END_DT

4.8.2 VACANT GEOGRAPHY

S NO	**Requirement**
BRD-REQ-1 RAW -1	**Feed Id:** 405 **Feed Name:** Vacant_Geography_ddmmyyyy.txt **Feed Description:** This feed contains details of vacant positions in a geography. **Source**: ZS Javelin (JRM). **Subject Area:** Geography. **Load strategy (Incremental/ Full) –** Incremental **Restatement (Yes/ No):** Yes **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- NA** **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	**Tables Covered –** • RAW_JRM_VACANT_GEO • CLNS_JRM_VACANT_GEO • MAP_VACANT_GEO_LIST_EXTRACT • SEM_VACANT_GEOGRAPHY
BRD-REQ-DW-3	• Vacant geography data will be loaded in warehouse Daily, where history will also be maintained. • Based on the Action code against POSITION_ID and Start Date combination received in the incremental weekly feed, the data load strategy in the warehouse will be defined. ○ If Action code = 'I', records from source feed will be loaded into the warehouse and IS_ACTIVE will be set to 'Y'. ○ If Action code = 'U' , the existing records will be end dated (IS_ACTIVE='N' , END_DT =current_date-1, UPDATE_FILE_ID = file id in latest file, UPDATE_RECORD_ID=record id in latest file, UPDATE_DT=current date,

<table>
<tr><td></td><td>UPDATE_RUN_ID=run id for latest run) and the latest record from the feed will be loaded into the warehouse with IS_ACTIVE='Y'
○ If Action code = 'D' , END_DT will be populated from source feed and IS_ACITVE will be set to 'N' , UPDATE_FILE_ID = file id in latest feed, UPDATE_RECORD_ID=record id in latest feed, UPDATE_DT=current date, UPDATE_RUN_ID=run id for latest run.</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>• Vacant geography data for all Alkermes teams will be loaded daily in Sematic where history will also be maintained.
○ History from July 2019 is available.
• Team Details like team name will be populated from SEM TEAM based on Team Dimension ID.
• Below fields are directly populated from source:
<table>
<tr><th>Semantic Table Field</th><th>Source Field</th></tr>
<tr><td>POSITION_ID</td><td>POSITION_ID</td></tr>
<tr><td>POSITION_NAME</td><td>POSITION_NAME</td></tr>
<tr><td>PARENT_POSITION_ID</td><td>PARENT_POSITION_ID</td></tr>
<tr><td>PARENT_POSITION_NAME</td><td>PARENT_POSITION_NAME</td></tr>
<tr><td>ORG_UNIT_LEVEL_ID</td><td>ORG_UNIT_LEVEL_ID</td></tr>
<tr><td>TEAM_ID</td><td>TEAM_ID</td></tr>
<tr><td>JAVELIN_START_DT</td><td>START_DT</td></tr>
<tr><td>END_DT</td><td>END_DT</td></tr>
<tr><td>LAST_UPDATED_DT</td><td>LAST_UPDATED_DT</td></tr>
</table></td></tr>
</table>

4.9 SALES

4.9.1 CHARGEBACK(WHOLESALER)

BRD-REQ-RAW-1	**Feed Id:** 102 **Feed Name:** ICS_CHGBKS **Feed Description:** This feed contains product chargeback data from ICS. **Source:** ICS **Subject Area:** Sales **Source:** ICS **Markets:** Psychiatry, Addiction **Products:** Aristada, Vivitrol, Lybalvi. **Load strategy (Incremental/ Full) -** Incremental **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** NA **MDM Mastering (Yes/No) –** Yes

BRD-REQ-OBJ-2	• RAW_ICS_CHGBKS • CLNS_ICS_CHGBKS • FCT_CHARGEBACK • FCT_CHARGEBACK_FROZEN • SEM_CHARGEBACK • SEM_CHARGEBACK_FROZEN

BRD-REQ-DWH-3	• Incremental Chargeback data for all brands will be loaded in the Warehouse daily where History will also be maintained.
	  ○ Historical Cardinal Chargeback data (May'09 – Mar'15) will be populated from static table (CLNS_CARD_CHGBKS).
	• Frozen Chargeback will include chargebacks for Frozen Quarters, Current Quarter, and Adjustments.
	  ○ Frozen Chargebacks refers to Chargeback data for all completed Quarters. Data for the Quarter will be considered **Frozen** when the freeze date in XREF_DATA_FREEZE_DETAIL equals current date.
	  ○ Current Quarter Chargebacks refers to Chargeback data for the ongoing quarter.
	  ○ Sales Adjustments refers to the adjusted sales shared by business for Source='CBK' or 'CHBK'.
	• **Sales Adjustment Flag** will be defaulted to 'TRUE' for adjusted Chargebacks and 'FALSE' for other Chargebacks received from CARD and ICS.
	• Chargeback Adjustment data will be populated from Sales Adjustment feed*. **Sales Adjustment Flag** will set as 'TRUE' for these records.
	• **MOT** will be calculated as per below logic:
	• For Aristada and Vivitrol, MOT=Chargeback Qty* MOT_CONV_FACTOR.
	• For Lybalvi, MOT=Chargeback Qty* Packet Size* MOT_CONV_FACTOR
	Packet Size and MOT_CONV_FACTOR will be fetched from Product Master based on NDC.
	• **Source** will be defaulted as 'CARD' for Historical Cardinal data and 'ICS' for Chargebacks received from ICS source.
	• **Customer details** for both Members and Wholesalers will be fetched from Customer Dimension based on 'Wholesaler Number' for Wholesaler and 'Member Number' for Member.
	• **Product details** will be fetched from Product dimension based on NDC.
	• **Process Date Dim Id** and **Wholesaler Date Dim Id** will be populated as Calendar ID from Calendar dimension based on credit/debit memo date and invoice date respectively.
	• **Process date split week Id** and **Wholesaler invoice date split week id** will be populated as Id from Split Week Calendar Dimension based on credit/debit memo date and invoice date respectively.
	• **Data Freeze Logic**: Post completion of each Quarter, Chargeback data will be considered **Frozen** when the freeze date in XREF_DATA_FREEZE_DETAIL equals current date. Frozen data will be loaded in to FCT_CHARGEBACK_FROZEN. This is applicable for all products.

BRD-REQ-SEM-4	• Live Chargebacks will include all Chargebacks from CARD (May'09- Mar'15) and ICS (Apr'15 onwards) along with Sales Adjustments shared by Business.
	• Frozen Chargeback will include chargebacks for Frozen Quarters, Current Quarter, and Adjustments.
	  ○ Frozen Chargebacks refers to Chargeback data for all completed Quarters. Data for the Quarter will be considered ***Frozen*** when the freeze date in XREF_DATA_FREEZE_DETAIL equals current date.
	  ○ Current Quarter Chargebacks refers to Chargeback data for ongoing quarter.
	  ○ Sales Adjustments refers to the adjusted sales shared by business for Source='CBK' or 'CHBK'.
	• **Sales Adjustment Flag** will be defaulted to 'TRUE' for adjusted Chargebacks and 'FALSE' for other Chargebacks received from CARD and ICS.
	• **Source** will be defaulted as 'CARD' for Historical Cardinal data and 'ICS' for Chargebacks received from ICS source.

- **MOT** will be calculated as per below logic:
  - For Aristada and Vivitrol, MOT=Chargeback Qty* MOT_CONV_FACTOR.
  - For Lybalvi, MOT=Chargeback Qty* Packet Size* MOT_CONV_FACTOR

  Packet Size and MOT_CONV_FACTOR will be fetched from Product Master based on NDC.
- **Customer details** for both Members and Wholesalers will be populated from Customer Master based on 'Member Number' and 'Wholesaler Number' respectively.
- **Customer Address details** for both Member and Wholesaler will be populated from Address Master based on 'Member Number' and 'Wholesaler Number' respectively for 'Houston Primary' team.
- **Product** and **Brand details** will be populated from Product Master based on NDC.
- **Member Cust Type Description** will be populated from Map Code based on MEMBER_CUST_TYPE_ID where entity type is 'ICS' and Code type is 'CUSTOMER_TYP(ICS)E'.
- **Process date** and **Process week** will be populated as Complete Date and Weekending Friday from SEM_CALENDAR based on credit/debit memo date.
- **Wholesaler invoice date** and **Wholesaler invoice week** will be populated as Complete date and Weekending Friday from SEM_CALENDAR based on invoice date.
- **Process split week date** and **Process Month** will be populated as Split weekend date and Calendar month Start Date from Split Week Calendar based on credit/debit memo date.
- **Wholesaler invoice split week date** and **Wholesaler Invoice month** will be populated as Split weekend date Calendar month Start Date from Split Week Calendar based on invoice date.
- Below fields are directly populated from source:

Semantic table field	Source field
MEMBER_CUST_TYPE	MEMBER_CUST_TYPE_ID
MEMBER_DEA	MEMBER_DEA
MEMBER_HIN	MEMBER_HIN
NDC11	NDC11
NDC11_NAME	NDC11_NAME
WHOLESALER_INVOICE_NUMBER	INVOICE_NUM
WHOLESALER_INVOICE_LINE_NUMBER	INVOICE_LINE_NUM
CHARGEBACK_NUMBER	CHARGEBACK_NUM
CONTRACT_NUMBER	CONTRACT_NUM
CONTRACT_NAME	CONTRACT_NAME
CONTRACT_TYPE	CONTRACT_TYPE (CARD) 'NULL' (ICS)
CONTRACT_PRICE	CONTRACT_PRICE
WAC_PRICE	WAC_PRICE
CHARGEBACK_QUANTITY	QTY
WAC_TOTAL_SALES	TOTAL_SALES_AT_WAC
INDIRECT_SALES_AMOUNT	INDIRECT_SALES_AMT

		CHARGEBACK_AMOUNT	CHARGEBACK_AMT
		UNIT_CHARGEBACK_AMOUNT	UNIT_CHARGEBACK_AMT

4.9.2 CHARGEBACK(PHARMACY)

S.No	Requirement
BRD-REQ-RAW-1	• **Feed Id:** 578 • **Feed Name:** ICS_STD_CHGBKS_DETAIL • **Feed Description:** This feed contains product chargeback information from ICS. • Source • **Subject Area:** Sales • **Markets:** Addiction, Psychiatry • **Products:** Aristada, Vivitrol, Lybalvi. • **Load strategy (Incremental/ Full) –** Full • **Restatement (Yes/ No):** No • **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Monthly • **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** 1st day of month • **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	**Tables Covered –** • RAW_ICS_STD_CHGBKS_DETAIL • CLNS_ICS_STD_CHGBKS_DETAIL
BRD-REQ-SEM-3	• Below fields are directly fetched in view (VW_ICS_STD_CHGBKS_DETAIL) from source:

Semantic view field	Source field
GPO_NAME	GPO_NAME
WHOLESALER_ID	WHOLESALER_ID
WHOLESALER_NAME	WHOLESALER_NAME
CONTRACT	CONTRACT
PHS	PHS
SHIP_TO_NAME	SHIP_TO_NAME
DEA	DEA
HIN	HIN
SHIP_TO_ADDRESS_1	SHIP_TO_ADDRESS_1

		SHIP_TO_ADDRESS_2	SHIP_TO_ADDRESS_2	
		SHIP_TO_CITY	SHIP_TO_CITY	
		SHIP_TO_STATE	SHIP_TO_STATE	
		SHIP_TO_ZIP	SHIP_TO_ZIP	
		DEBIT_MEMO	DEBIT_MEMO	
		DEBIT_MEMO_DATE	DEBIT_MEMO_DATE	
		RECEIVED_DATE	RECEIVED_DATE	
		INVOICE	INVOICE	
		INVOICE_DATE	INVOICE_DATE	
		NDC	NDC	
		PRODUCT_DESCRIPTION	PRODUCT_DESCRIPTION	
		QTY_SOLD_OF_PRODUCT	QTY_SOLD_OF_PRODUCT	
		WAC_PRICE	WAC_PRICE	
		SUBMITTED_WAC_PRICE	SUBMITTED_WAC_PRICE	
		CONTRACT_PRICE	CONTRACT_PRICE	
		SUBMITTED_CONTRACT_PRICE	SUBMITTED_CONTRACT_PRICE	
		CREDIT_AMOUNT	CREDIT_AMOUNT	
		SUBMITTED_CREDIT_AMOUNT	SUBMITTED_CREDIT_AMOUNT	
		WAC_SALES	WAC_SALES	
		CONTRACT_SALES	CONTRACT_SALES	
		CBK_TYPE	CBK_TYPE	
		CREDIT_MEMO	CREDIT_MEMO	
		CREDIT_MEMO_DATE	CREDIT_MEMO_DATE	
		CLASS_OF_TRADE_DESC	CLASS_OF_TRADE_DESC	
		RESUBMIT_FLAG	RESUBMIT_FLAG	
		CBK_CLAIM_INFO_ID	CBK_CLAIM_INFO_ID	
		STATUS	STATUS	
		WHOLESALER_BILL_TO_ADDRESS_1	WHOLESALER_BILL_TO_ADDRESS_1	
		WHOLESALER_BILL_TO_ADDRESS_2	WHOLESALER_BILL_TO_ADDRESS_2	
		WHOLESALER_BILL_TO_CITY	WHOLESALER_BILL_TO_CITY	
		WHOLESALER_BILL_TO_STATE	WHOLESALER_BILL_TO_STATE	
		WHOLESALER_BILL_TO_ZIP	WHOLESALER_BILL_TO_ZIP	
		WHOLESALER_SHIP_TO_ADDRESS_1	WHOLESALER_SHIP_TO_ADDRESS_1	
		WHOLESALER_SHIP_TO_ADDRESS_2	WHOLESALER_SHIP_TO_ADDRESS_2	
		WHOLESALER_SHIP_TO_CITY	WHOLESALER_SHIP_TO_CITY	
		WHOLESALER_SHIP_TO_STATE	WHOLESALER_SHIP_TO_STATE	

		WHOLESALER_SHIP_TO_ZIP	WHOLESALER_SHIP_TO_ZIP	
		GLN	GLN	
		EDI_COUNT	EDI_COUNT	
		MANUAL_COUNT	MANUAL_COUNT	

4.9.3 DDD

BRD-REQ-RAW-1	• **Feed Id:** 46,47, 439, 441, 443 • **Feed Name:** IMS_DDD_RET_VIV, IMS_DDD_NR_VIV, IMS_ANTI_PSYCH_DOLLARS, IMS_ANTI_PSYCH_PACK_UNITS, IMS_ANTI_PSYCH_DATA_UNITS-PARENT • **Feed Description:** This feed contains DDD Retail and Non-Retail weekly sales data from IMS. • **Source**: IMS • **Subject Area:** Sales • **Source:** IMS • **Markets:** Psychiatry, Addiction • **Products:** Aristada, Vivitrol, Lybalvi. • **Load strategy (Incremental/ Full) –** Full • **Restatement (Yes/ No):** Yes, 105 weeks restatement is received from the source. • **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Weekly • **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** Monday • **MDM Mastering (Yes/No) –** Yes
BRD-REQ-OBJ-2	**Tables Covered –** • RAW_IMS_DDD_RET_VIV_W, RAW_IMS_DDD_NR_VIV_W, RAW_IMS_DDD_ANTI_PSYCH_DOLLARS_W, RAW_IMS_DDD_ANTI_PSYCH_PACK_UNITS_W, RAW_IMS_DDD_ANTI_PSYCH_VOLUME_UNITS_W • CLNS_IMS_DDD_RET_VIV_W, CLNS_IMS_DDD_NR_VIV_W, CLNS_IMS_DDD_ANTI_PSYCH_DOLLARS_W, CLNS_IMS_DDD_ANTI_PSYCH_ PACK_UNITS_W, CLNS_IMS_DDD_ANTI_PSYCH_VOLUME_UNITS_W • FCT_DDD_NON_ENHANCED_W, FCT_DDD_NON_ENHANCED_FROZEN_W • SEM_DDD_NONENHANCED, SEM_DDD_NONENHANCED_FROZEN

BRD-REQ-DW-2	• DDD Non-Enhanced Retail and Non-Retail weekly data for all Markets will be loaded in the Warehouse (FCT_DDD_NON_ENHANCED_W) weekly where History will also be maintained.
	• DDD Adjustment data will be populated from Sales Adjustment feed*. The **Sales Adjustment Flag** will set as 'TRUE' for these records else 'FALSE'.
	• **Units** will be calculated as per below logic:
	  ○ Units = Units * SPLIT_WEEK_FACTOR
	• **Volume Units** will be calculated as per below logic:
	  ○ For Aristada and Vivitrol, Volume Units will be defaulted to 'NULL'.
	  ○ For Lybalvi, Volume Units= Volume Units * SPLIT_WEEK_FACTOR
	• **Dollar** will be calculated as per below logic:
	  ○ For Aristada and Lybalvi, DOLLAR= Dollar* SPLIT_WEEK_FACTOR
	  ○ For Vivitrol, Dollar will be defaulted to 'NULL'.
	• **MOT** will be calculated as per below logic:

	○ For Aristada and Vivitrol, MOT= Units * SPLIT_WEEK_FACTOR * MOT_CONV_FACTOR.
	○ For Lybalvi,
	If Market in 'ANTI-PSYCH - ATYPICAL ORAL' or 'ANTI-PSYCH - ATYPICAL BRANDED ORAL', then
	MOT= Volume Units * SPLIT_WEEK_FACTOR * MOT_CONV_FACTOR
	Else
	MOT= Units * SPLIT_WEEK_FACTOR * MOT_CONV_FACTOR
	
	MOT_CONV_FACTOR will be fetched from Product Master based on PROD_GRP
	
	SPLIT_WEEK_FACTOR will be fetched from Split Week Calendar based on Week Ending date (Data Date).
	
	• Data for Psychiatry and Full Anti-Psych is received in the same feed and segregated using Market Name from Market Basket Dimension table. If the Market Name is 'ANTI-PSYCH - ATYPICAL + TYPICAL LAI' then the source market is 'PSYCHIATRY' else 'FULL ANTI-PSYCH'.
	• **Customer details** will be fetched from Customer Dimension based on Outlet Number.
	• **Product details** will be fetched from Product dimension based on Product Group Number and the respective markets.
	• **Weekend Date Dim Id** will be populated as Calendar ID from Calendar dimension based on week-end date derived from DATA_DT field.
	• **Split week Id** will be populated as Id from Split Week Calendar Dimension based on week-end date derived from DATA_DT field.
	• **Data Freeze Logic**: Post completion of each Quarter, DDD data will be considered **Frozen** when the freeze date in XREF_DATA_FREEZE_DETAIL equals current date. Frozen data will be loaded in to FCT_DDD_NON_ENHANCED_FROZEN_W. This is applicable for all products.

BRD-REQ-SEM-3	• Live DDD data will contain Retail and Non-Retail data for all Markets. Weekly refresh will include Reinstated sales data for last 2 years along with data for latest completed week (DDD data is received in a lag of 2 week). Complete DDD sales history will be available in Semantic. • Data for Psychiatry and Full Anti-Psych markets will be received in the same feed and segregated using Market Name from Market Basket. If the Market Name is 'ANTI-PSYCH - ATYPICAL + TYPICAL LAI' then the source market is 'PSYCHIATRY' else 'FULL ANTI-PSYCH'. • Frozen table in semantic will include DDD data for Frozen Quarter, Current Quarter, and Adjustments. ○ Frozen DDD data refers to DDD data for all completed Quarters. Data for the Quarter will be considered Frozen when the freeze date in XREF_DATA_FREEZE_DETAIL equals current date. ○ Current Quarter DDD data refers to data for ongoing quarter. ○ Sales Adjustments refers to the adjusted sales shared by business for Source='DDD'. • **Sales Adjustment Flag** will be defaulted to 'TRUE' for adjusted DDD data and 'FALSE' for other DDD received from IQVIA. • 106 weeks of sales data is received from source and segregated under DATA_BUCKTs. DATA_DT will be used to identify which DATA_BUCKT corresponds to which week. For Eg. If DATA_DT is '2023-07-07' then ○ DATA_BUCKT_1 will hold data for latest week (2023-07-07 to 2023-07-01) ○ DATA_BUCKT_2 will hold data for the prior week (2023-06-30 to 2023-06-24) and so on till DATA_BUCKT_106. • Split week logic will be applicable while aggregating Units, Volume Units, Dollars, and MOT. • **Units** will be calculated as per below logic: ○ Units = Units * SPLIT_WEEK_FACTOR • **Volume Units** will be calculated as per below logic: ○ For Aristada and Vivitrol, Volume Units will be defaulted to 'NULL'.

- For Lybalvi, Volume Units= Volume Units * SPLIT_WEEK_FACTOR
- **Dollar** will be calculated as per below logic:
  - For Aristada and Lybalvi, DOLLAR= Dollar* SPLIT_WEEK_FACTOR
  - For Vivitrol, Dollar will be defaulted to 'NULL'.
- **MOT** will be calculated as per below logic:
  - For Aristada and Vivitrol, MOT= Units * SPLIT_WEEK_FACTOR * MOT_CONV_FACTOR.
  - For Lybalvi, MOT= Volume Units * SPLIT_WEEK_FACTOR * MOT_CONV_FACTOR

MOT_CONV_FACTOR will be fetched from Product Master based on PROD_GRP

SPLIT_WEEK_FACTOR will be fetched from Split Week Calendar based on derived Week information (Data Date).

- **Customer details** will be populated from Customer Master based on Outlet Number
- **Product** and **Brand details** will be populated from Product Master based on Product Group Number and the respective markets.
- **Sales Category Name** will be populated as Description from Map Code based on category code, where entity type is 'ACCOUNT' and Code type is 'SALES_CATEGORY_CD'.
- **Subcategory Name** will be populated as Description from Map Code based on subcategory code, where entity type is 'CUSTOMER MASTER' and Code type is 'SUBCAT_CD'.
- **Week** will be populated as Weekending Friday from Calendar Dimension based on Weekend date derived from DATA_DT field.
- **Split week date** and **Month** will be populated as Split weekend date and Calendar month Start Date from Split Week Calendar Dimension based on week-end date derived from DATA_DT field for each week.
- **Source** will be populated as 'TRUE' for sales adjustments else 'FALSE'.
- **Source Exclusion Flag** will be populated as per below logic:
  - For Vivitrol, it will be populated as 'N' if ALIGNMENT has value like '0000NULL' else 'Y'.
  - For Aristada and Lybalvi, it will be populated as 'Y'.
- Below fields are directly populated from source:

Semantic Table Field	Source Field
SOURCE_OUTLET_NUMBER	SOURCE_OUTLET_NUM
SALES_CATEGORY_CD	CATEGORY_CD
SUBCAT_CD	SUBCAT_CD

4.9.4 SPECIALTY DISTRIBUTOR

S NO	Requirement
BRD-REQ-RAW-1	**Feed Id:** 49 **Feed Name:** BESS_SALES **Feed Description:** This feed contains Specialty Distributor data received from Besse Medical. **Source**: Besse Medical **Subject Area:** Sales **Markets:** Addiction & Psychiatry **Products:** Aristada & Vivitrol. **Load strategy (Incremental/ Full) –** Incremental

<table>
<tr><td></td><td>Restatement (Yes/ No): No.
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –Monthly
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- On or before 10th of every month
MDM Mastering (Yes/No) – Yes</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>Tables Covered –<ul><li>RAW_BESS_SALES</li><li>CLNS_BESS_SALES</li><li>FCT_SPLTY_DISTRIBUTOR_SHIP</li><li>SEM_SPECIALTY_DISTRIBUTOR</li></ul></td></tr>
<tr><td>BRD-REQ-DWH-3</td><td><ul><li>Incremental Besse sales for all brands will be loaded in the Warehouse monthly where History will also be maintained.</li><li>DATA_PROVIDER_CD will be defaulted as ‘BESSE’.</li><li>Besse Adjustment data will be populated from Sales Adjustment feed*. Sales Adjustment Flag will set as ‘TRUE’ for these records else ‘FALSE’.</li><li>MOT will be calculated as per below logic:
MOT= INV_DEL_QTY* MOT_CONV_FACTOR
MOT_CONV_FACTOR will be fetched from Product Master based on NDC.</li><li>Customer details will be fetched from Customer Dimension based on Pharmacy Code.</li><li>Product details will be fetched from Product Master based on NDC.</li><li>Split week Id will be populated as Id from Split Week Calendar Dimension based on Invoice Date</li><li>Invoice Date Id will be populated as Id from Calendar Dimension based on Invoice Date</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-4</td><td><ul><li>Semantic table will include complete Besse Sales data (Latest month + History) along with Sales Adjustments shared by Business.</li><li>Sales Adjustment Flag will be defaulted to ‘TRUE’ for adjusted Speciality Distributor data and ‘FALSE’ for data received from Besse.</li><li>DATA_PROVIDER_CD will be defaulted as ‘BESSE’.</li><li>MOT will be calculated as per below logic:</li><li>MOT= INV_DEL_QTY* MOT_CONV_FACTOR</li><li>MOT_CONV_FACTOR will be fetched from Product Master based on NDC.</li><li>Customer details will be fetched from Customer Master based on source identifier received from Besse (BP_CD).</li><li>Product and Brand details will be fetched from Product Master based on NDC.</li><li>Address details will be fetched from Address Master based on BP_CD for “Houston Primary” team.</li><li>Week will be populated as Weekending Friday from Calendar Dimension based on Invoice Date.</li><li>Split week date and Month will be populated as Split weekend date and Calendar month Start Date from Split Week Calendar Dimension based on Invoice Date.</li><li>Below fields are directly populated from source:</li></ul>
<table>
<tr><th>Semantic Table Field</th><th>Source Field</th></tr>
<tr><td>ORDER_NUMBER</td><td>ORDER_NUM</td></tr>
<tr><td>INVOICE_NUMBER</td><td>INVOICE_NUM</td></tr>
<tr><td>PRICE_MATRIX_DEFINITION</td><td>PRICE_MATRIX_DEF</td></tr>
<tr><td>QUANTITY</td><td>INV_DEL_QTY</td></tr>
<tr><td>UNIT_PRICE</td><td>UNIT_PRICE</td></tr>
</table></td></tr>
</table>

		NET_PRICE	NET_EXT_PRICE

4.9.5 XPONENT

S.No.	Requirement
BRD-REQ-RAW-1	**Feed Id:** ~~155,~~ 437, 587 **Feed Name:** ~~IMS_XPO_PLNTRK_VIV,~~ IMS_XPO_ANTI_PSYCH, IMS_XPO_ADD_W **Feed Description:** These feeds contain Xponent Sales data from IQVIA. **Source**: IQVIA **Subject Area:** Sales **Markets:** Addiction, Psychiatry **Products:** Aristada, Vivitrol, Lybalvi. **Load strategy (Incremental/ Full) –** Incremental **Restatement (Yes/ No):** Yes, 23 months restatement is received. **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** ~~155 -> Monthly~~ and 437, 587-> Weekly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** ~~155 -> On or before 27th~~,437 and 587-> Wednesday **MDM Mastering (Yes/No) –** Yes
BRD-REQ-OBJ-2	**Tables Covered –** • RAW_IMS_XPO_ANTI_PSYCH_W, RAW_IMS_XPO_ADD_W • ~~CLNS_IMS_XPO_PLNTRK_VIV_M,~~ CLNS_IMS_XPO_ANTI_PSYCH_W, CLNS_IMS_XPO_ADD_W • ~~FCT_XPO_PROJECTED_M, FCT_XPO_PROJECTED_FROZEN_M,~~ FCT_XPO_PROJECTED_W, FCT_XPO_PROJECTED_FROZEN_W • SEM_XPO_PROJECTED, SEM_XPO_ENHANCED_FROZEN
BRD-REQ-DW-3	• Xponent data for all brands will be loaded in the Warehouse weekly where History will also be maintained. • Xponent Adjustment data will be populated from Sales Adjustment feed*. **Sales Adjustment Flag** will set as 'TRUE' for these records else 'FALSE'. • TRX, NRX, TQTY, NQTY, Units and MOT will be calculated basis below logic for Psychiatry and Addiction Market:

Metrics	Psychiatry	Addiction
TRX	TRX	TRX
NRX	NRX	NRX
TQTY	TQTY	TQTY
NQTY	NQTY	NQTY
Units	TQTY * TQTY_UNITS_CONV_FACTOR	TQTY * TQTY_UNITS_CONV_FACTOR
MOT	TQTY *TQTY_UNITS_CONV_FACTOR * MOT_CONV_FACTOR	TQTY * TQTY_UNITS_CONV_FACTOR * MOT_CONV_FACTOR

MOT_CONV_FACTOR, TRX_MOT_CONVERSION_FACTOR and TQTY_UNITS_CONV_FACTOR will be fetched from Product Master based on Product Group Number and the respective markets.

<table>
<tr><td></td><td>

- **Customer details** will be fetched from Customer Dimension table based on IMS_DR_NUM.
- **Specialty details** will be fetched from Specialty Dimension table based on Customer Dimension Id.
- **Product details** will be fetched from Product dimension based on Product Group Number and the respective markets (IQVIA ADDICTION and IQVIA FULL ANTI-PSYCHIATRY).
- **Weekend Date Dim Id** will be populated as Calendar ID from Calendar based on week-end date derived from DATA_DT field for each week.
- **Split week Id** will be populated as Id from Split Week Calendar Dimension based on week-end date derived from DATA_DT field for each week.
- **Data Freeze Logic**: Post completion of each Quarter, XPO data will be considered **Frozen** when the freeze date in XREF_DATA_FREEZE_DETAIL equals current date. Frozen data will be loaded to FCT_XPO_PROJECTED_FROZEN_M (Addiction market), FCT_XPO_PROJECTED_FROZEN_W (Psychiatry Market).

</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>

- Live Xponent data will be refreshed weekly for Psychiatry and Addiction market. The refreshes will include Reinstated sales data for last 2 years along with data for latest completed week(XPO data is received in a lag of 2 week). Complete XPO sales history is available in Semantic.
  - 128 weeks of sales data will be received from source is already bucketed in line with split weeks and segregated under DATA_BUCKTs. DATA_DT will be used to identify which DATA_BUCKT corresponds to which week.

  For Eg. If DATA_DT is '2023-07-07' then
  - DATA_BUCKT_1 will hold data for latest week (2023-07-07 to 2023-07-01)
  - DATA_BUCKT_2 will hold data for the prior week (2023-06-30 to 2023-06-24) and so on till DATA_BUCKT_128.
- Data for Psychiatry and Full Anti-Psych markets will be received in same feed and segregated using Market Name from Market Basket. If the Market Name is 'ANTI-PSYCH - ATYPICAL + TYPICAL LAI' then the source market is 'PSYCHIATRY' else 'FULL ANTI-PSYCH'.
- Frozen Xponent Sales in semantic will include Xponent data for Frozen Quarter, Current Quarter, and Adjustments.
  - Frozen XPO data refers to XPO data for all completed Quarters. Data for the Quarter will be considered Frozen when the freeze date in XREF_DATA_FREEZE_DETAIL equals current date.
  - Current Quarter XPO data refers to data for ongoing quarter.
  - Sales Adjustments refers to the adjusted sales shared by business for Source='XPO'.
- **Sales Adjustment Flag** will be defaulted to 'TRUE' for adjusted XPO data and 'FALSE' for other XPO received from IQVIA.
- TRX, NRX, TQTY, NQTY, Units and MOT will be calculated basis below logic for Psychiatry and Addiction Market:

Metrics	Psychiatry	Addiction
TRX	TRX	TRX
NRX	NRX	NRX
TQTY	TQTY	TQTY
NQTY	NQTY	NQTY
Units	TQTY * TQTY_UNITS_CONV_FACTOR	TQTY * TQTY_UNITS_CONV_FACTOR
MOT	TQTY *TQTY_UNITS_CONV_FACTOR * MOT_CONV_FACTOR	TQTY *TQTY_UNITS_CONV_FACTOR * MOT_CONV_FACTOR

MOT_CONV_FACTOR and TQTY_UNITS_CONV_FACTOR will be fetched from Product Master based on Product Group Number and the respective markets.

</td></tr>
</table>

- **Customer and Specialty details** will be populated from Customer Master based on SRA_1(IMS_DR_NUM) and SRA_3(PRESCRIBER SPECIALTY) respectively.
- **Product** and **Brand details** will be populated from Product Master based on Product Group Number and the respective markets.
- **Sales Category Name** will be populated as Description from Map Code based on category code, with entity type as 'ACCOUNT' and Code type as 'SALES_CATEGORY_CD'.
- **AL90S_EXCLUSION_FLAG** will be populated as per below logic:
    - For Psychiatry it will be defaulted as '0' if Prescriber Id is Blank or, starts with '95', '97', '98' or '99' else will be defaulted as '1'.
    - For Addiction it will be defaulted as '1'.
- Week, Split Week Date and Month will be populated as per below logic:
    - For Psychiatry market:
        - **Week** will be populated as Weekending Friday from Calendar Dimension based on week-end date derived from DATA_DT field for each week.
        - **Split week date** and **Month** will be populated as Split weekend date and Calendar month Start Date from Split Week Calendar Dimension based on week-end date derived from DATA_DT field for each week.
    - For Addiction market:
        - **Week** and **Split week date** will be populated as NULL.
        - **Month** will be populated as Complete date from Split Week Calendar Dimension based on Month-end date derived from DATA_DT field for each month.
- Below fields are directly populated from source:

Semantic Table Field	Source Field (Psychiatry)	Source Field (Addiction)
SOURCE_PRESCRIBER_ID	SRA_1	IMS_DR_NUM
SALES_CATEGORY_CD	SALES_CATEGORY_CD	CATEGORY_CD
SOURCE_PLAN_ID	SRA_2	PLAN_CD

4.9.6 SPECIALTY PHARMACY

BRD-REQ-RAW-1

Feed Details:

FEED_ID	FEED Name	FREQUENCY	FILE ARRIVAL DATE
194	Genoa Ari	Weekly	Wednesday
177	Genoa Viv	Weekly	Tuesday
210	Berry & Sweeney	Monthly	10th of month
103	Perform	Monthly	10th of month
167	Capgemini	Daily	

Feed Description: This feed contains sales data from Specialty Pharmacies sources.
Subject Area: Sales-SP
Markets: Psychiatry, Addiction
Products: Aristada, Lybalvi, Vivitrol

<table>
<tr><td></td><td>Load strategy (Incremental/ Full) – Incremental
Restatement (Yes/ No): Yes
MDM Mastering (Yes/No) – Yes</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>
<table>
<tr><th>RAW Layer</th><th>CLNS</th></tr>
<tr><td>RAW_PERF_SHIP</td><td>CLNS_PERF_SHIP</td></tr>
<tr><td>RAW_LQHUB_SHIP</td><td>CLNS_LQHUB_SHIP</td></tr>
<tr><td>RAW_GENOA_SHIP</td><td>CLNS_GENOA_SHIP</td></tr>
<tr><td>RAW_GENOA_SHIP_ARI</td><td>CLNS_GENOA_SHIP_ARI</td></tr>
<tr><td>RAW_BERRY_SWEENY_SHIP</td><td>CLNS_BERRY_SWEENEY_SHIP</td></tr>
</table>
<ul>
<li>CLNS_DP_SHIP_HIST- Historic Shipments Data (Static Table)</li>
<li>CDE_DWH. FCT_DIRECT_PHARMACY_SHIP</li>
<li>SEM_DIRECT_PHARMACY_DISPENSING</li>
</ul>
</td></tr>
<tr><td>BRD-REQ-DWH-3</td><td>Shipment data from all the sources- Genoa Ari, Genoa Viv, Berry & Sweeney, Perform, Capgemini will be aggregated in FCT_DIRECT_PHARMACY_SHIP where history will also be maintained. Historical shipments from static table CLNS_DP_SHIP_HIST will also be included.

Restatement will be applied for Liquid Hub and Genoa as per below logic. No restatement will be applicable for other sources.
<ul>
<li>Restatements for Liquid hub:
<ul>
<li>Restatements will be processed based on the LH_SHIPMENT_KEY.</li>
<li>All records with an UPDATE_TIMESTAMP in the latest file will be inserted.</li>
<li>If data for the LH_SHIPMENT_KEY received in the latest file is already available in Warehouse, the following fields will be updated from the latest file against that Shipment Record in Warehouse -: HUB_PATIENT_ID, ICD9_CODE, NDC, PHARMACY_NAME, PRESCR_ADDR1, PRESCR_ADDR2, PRESCR_CITY, PRESCR_STATE, PRESCR_ZIP, INSURANCE_GROUP_ID, PAYER_NAME, PLAN_NAME, INITIAL_PRESCR_SOURCE, MASKED_PATIENT_ID.</li>
</ul></li>
<li>Restatements for Genoa:
<ul>
<li>Genoa feed will contain rolling five weeks data- Latest week and restatements for previous four weeks.</li>
</ul></li>
<li>Customer Details will be populated from Customer and identifier Dimension based on SP_PRESCRIBER_ID.</li>
<li>Product details will be populated from DIM_PROD_MSTR based on NDC.</li>
<li>DIRECT_PHARMACY_NAME and PARENT_NAME_REPORTING will be populated from XREF_NATIONAL_SP based on NATIONAL_SP_ID. SP_NAME as Direct Pharmacy Name and PARENT_NAME_REPORTING as PARENT_NAME_REPORTING</li>
</ul>
<table>
<tr><th>NATIONAL_SP_ID</th><th>SP_NAME</th><th>PARENT_NAME</th><th>PARENT_NAME_REPORTING</th></tr>
</table>
</td></tr>
</table>

SP0061	KOHLL'S PHARMACY AND HOMECARE	ASEMBIA GPO	ASEMBIA

- **DATA_PROVIDER_CODE** will be populated as value between first and second underscore from cleanse table name maintained in CDE system. For Instance: CLNS table name is CLNS_CVS_SHIP then DATA_PROVIDER_CODE will be populated as 'CVS'

CLNS Table Name	DATA_PROVIDER_CODE
CLNS_PERF_SHIP	PERF
CLNS_LQHUB_SHIP	LQHUB
CLNS_GENOA_SHIP	GENOA
CLNS_GENOA_SHIP_ARI	GENOA
CLNS_BERRY_SWEENEY_SHIP	BEERY

- **MOT** = MOT_CONV_FACTOR * QUANTITY

Where, MOT _CONV_FACTOR will be fetched from the DIM_PROD_MSTR based on PROD_DIM_ID

- **ADJUSTED_SHIP_DT** will be populated as 'Data Month' based on the maximum no of shipments for that month in the file. For example: If FILE_ID-1234 has records count as ~25 for month Aug-2022 and ~39 for month June 2022 then 2022-06-01 will be populated as ADJUSTED SHIP_DT.
    - Shipments in each file which are dated prior to the 'Data Month' for the file should be adjusted to have a date of the first day of the 'Data Month'.
    - For Genoa, **ADJUSTED_SHIP_DT** will be same as Ship date.
    - **ADJUSTED_SHIP_DT** is not calculated for the historical data as there is no File ID information.
- **ADJUSTED_DATE FLAG** – Will be populated as' 1' when the shipment's adjusted date doesn't match the date on the shipment.
- **SALES_ADJUSTMENT_FLAG** will be defaulted as 'False'.
- **CALENDAR_ID** will be populated as CALENDAR_ID from Calendar dimension based on SHIP_DT.
- **SHIP_DT_SPLIT_WEEK_ID** will be populated from Split week calendar dimension table based on SHIP_DT.
- **DP_NATIONAL_ID** will be populated as NATIONAL_SP_ID from XREF_SOURCE_NAME_TO_NATIONAL_SP based on source name from meta table (data feed meta) with DATA_PROVIDER from Xref -
    - XREF_SOURCE_NAME_TO_NATIONAL_SP contains Data Provider, Pharmacy Name and National SP ID.

BRD-REQ-SEM-3

- Aggregated Shipment data from all the sources- Genoa Ari, Genoa Viv, Berry & Sweeney, Perform, Capgemini will be available in Semantic where history will also be maintained.

Restatement logic applied for liquid hub and genoa as per below logic and for remaining sources data is loaded incrementally without any specific restatement logic.

- **Restatements for Liquid hub:**
    - Restatements will be processed based on the LH_SHIPMENT_KEY.
    - All records with an UPDATE_TIMESTAMP in the latest file will be inserted.

- If data for the LH_SHIPMENT_KEY received in the latest file is already available in Warehouse, the following fields will be updated from the latest file against that Shipment Record in Warehouse -: HUB_PATIENT_ID, ICD9_CODE, NDC, PHARMACY_NAME, PRESCR_ADDR1, PRESCR_ADDR2, PRESCR_CITY, PRESCR_STATE, PRESCR_ZIP, INSURANCE_GROUP_ID, PAYER_NAME, PLAN_NAME, INITIAL_PRESCR_SOURCE, MASKED_PATIENT_ID.

- **Genoa:** Genoa feed will contain shipments for rolling five weeks- Current week and restatements in previous four weeks. Previous four weeks data will be replaced with data present in latest file.

- **Customer Details** like Name and ALKID will be populated from Customer Master based on SP_PRESCRIBER_ID.
- **Product and Brand** details will be populated from Product Master based on NDC_11.
- **DIRECT_PHARMACY_NAME** and **PARENT_NAME_REPORTING** will be populated from XREF_NATIONAL_SP based on NATIONAL_SP_ID. SP_NAME as Direct Pharmacy Name and PARENT_NAME_REPORTING as PARENT_NAME_REPORTING
    - Sample Data for XREF_NATIONAL_SP:

NATIONAL_SP_ID	SP_NAME	PARENT_NAME	PARENT_NAME_REPORTING
SP0061	KOHLL'S PHARMACY AND HOMECARE	ASEMBIA GPO	ASEMBIA

- **DP_NATIONAL_ID** will be populated as NATIONAL_SP_ID from XREF_SOURCE_NAME_TO_NATIONAL_SP based on source name from meta table (data feed meta) with DATA_PROVIDER from Xref.
    - XREF_SOURCE_NAME_TO_NATIONAL_SP, This XREF contains Data Provider, Pharmacy Name and National SP ID. Sample data in XREF:

DATA_PROVIDER	DISPLAY_NAME	NATIONAL_SP_ID	PROCESSED_DATE
GENOA	GENOA	SP0095	2023-09-15 00:00:00.000

- **DATA_SOURCE_PROVIDER** will be populated as SOURCE_NAME from DATA_FEED_META.
- **MOT** = MOT_CONV_FACTOR * QUANTITY

Where, MOT _CONV_FACTOR will be fetched from the DIM_PROD_MSTR based on PROD_DIM_ID

- **ADJUSTED_DATE_MONTH** will be populated as adjusted ship (Logic mentioned below) if sales adjustment flag is 'False' else calendar month start date from Split Week Calendar table based on Split week Id.
- **ADJUSTED_SHIP_DT** will be populated as 'Data Month' based on the maximum no of shipments for that month in the file. For example: If FILE_ID-1234 has records count as ~25 for month Aug-2022 and ~39 for month June 2022 then 2022-06-01 will be populated as ADJUSTED SHIP_DT.
    - Shipments in each file which are dated prior to the 'Data Month' for the file should be adjusted to have a date of the first day of the 'Data Month'.
    - For Genoa, **ADJUSTED_SHIP_DT** will be same as Ship date.
    - **ADJUSTED_SHIP_DT** is not calculated for the historical data as there is no File ID information.
- **SHIP_DATE and SHIP_WEEK** will be populated as complete date and weekending Friday respectively, from Semantic Calendar based on SHIP_DT.
- **SHP_SPLIT_WEEK_DATE** will be populated from Split Week Calendar based on SHIP_DT.

- Below fields will be directly mapped from source.

Source fields	Target Fields
PAYER_NAME	PAYER_NAME
PAYER_TYPE	PAYER_TYPE
PLAN_NAME	PLAN_NAME
PHARMACY_CITY	PHARMACY_CITY
PHARMACY_STATE	PHARMACY_STATE
PHARMACY_ZIP	PHARMACY_ZIP
SHIPTO_NAME	SHIP_TO_NAME
SHIPTO_ADDR_1	SHIP_TO_ADDRESS_LINE1
SHIPTO_ADDR_2	SHIP_TO_ADDRESS_LINE2
SHIPTO_CITY	SHIP_TO_CITY
SHIPTO_STATE	SHIP_TO_STATE
SHIPTO_ZIP	SHIP_TO_ZIP
PRESCRIBER_CUST_DIM_ID	CUST_DIM_ID
PRESCRIBER_NPI	HCP_NPI
PRESCRIBER_DEA	HCP_DEA
INSURANCE_GROUP_ID	INSURANCE_GROUP_ID
BIN	BIN
PCN	PCN
DIRECT_PHARMACY	DIRECT_PHARMACY_NAME
PARENT_NAME_REPORTING	PARENT_NAME_REPORTING
QTY	QUANTITY
DAYS_SUPPLIED	DAYS_SUPPLIED
BENEFIT_TYPE	BENEFIT_TYPE
PLAN_TYPE	PLAN_TYPE
LH_PATIENT_ID	LH_PATIENT_ID
PHARMACY_DEA	PHARMACY_DEA
PHARMACY_NPI	PHARMACY_NPI
PHARMACY_LOC_STATE	PHARMACY_LOC_STATE
PHARMACY_LOC_ZIP	PHARMACY_LOC_ZIP
SHIPMENT_OR_ADMINISTRATION	SHIPMENT_OR_ADMINISTRATION

4.9.7 SALES ADJUSTMENT

<table>
<tr><th>S NO</th><th>Requirement</th></tr>
<tr><td>BRD-REQ-RAW-1</td><td>Feed Id: 428
Feed Name: Adjustments
Feed Description: This feed contains manual sales adjustments for all sources (XPO, DDD, CBK, SP and SD).
Source: Alkermes
Subject Area: Sales
Markets: Addiction, Psychiatry
Products: Aristada, Vivitrol, Lybalvi.
Load strategy (Incremental/ Full) – Incremental
Restatement (Yes/ No): No.
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –Monthly
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- Ad-hoc
MDM Mastering (Yes/No) – Yes</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>Tables Covered –

• RAW_SALES_ADJUSTMENT
• CLNS_SALES_ADJUSTMENT
• FCT_SALES_ADJUSTMENT</td></tr>
<tr><td>BRD-REQ-DWH-3</td><td>• Incremental sales adjustment for all applicable sources (XPO, DDD, CBK, SP, SD) will be loaded in the Warehouse where History will also be maintained.
• MOT will be calculated as per below logic:
• For Chargebacks
• For Lybalvi, MOT= PACKSET_SIZE*MOT_CONV_FACTOR*UNITS
• For Aristada and Vivitrol, MOT= MOT_CONV_FACTOR *UNITS
• For XPO, DDD, SD and SP, MOT= MOT_CONV_FACTOR*UNITS
MOT_CONV_FACTOR and PACKSET_SIZE will be fetched from Product Master based on PRODUCT.
• Customer Id will be fetched from Customer Dimension based on ADJST_ID which is calculated based on ALK_ID, CUSTOMER_TYPE, ADDRESS_LINE1, ADDRESS_LINE2, STATE, ACCOUNT_NAME, NPI, LAST_NAME, FIRST_NAME, CITY, ZIP.
• Product Dimension ID will be fetched from MAP_PROD_EXT_ID based on PRODUCT and Source as ‘SLS_ADJST’.
• Date Dimension Id will be populated as Id from Calendar Dimension based on Date.

• Below fields will be directly populated from source:
<table>
<tr><th>DWH Table Field</th><th>Source Field</th></tr>
<tr><td>CUSTOMER_TYPE</td><td>CUST_TYPE</td></tr>
<tr><td>SOURCE_NAME</td><td>SOURCE_NAME</td></tr>
<tr><td>UNITS</td><td>UNITS</td></tr>
<tr><td>NRX</td><td>NRX</td></tr>
<tr><td>TRX</td><td>TRX</td></tr>
</table>
</td></tr>
</table>

BRD-REQ-FILE-4	Following fields will be provided by business in the data file:

Field Name	Optional/Required
ALK ID	Optional
Customer Type	Required
Account Name	Required
Zip	Required
NPI	Optional
First Name	Optional
Last Name	Optional
Address Line1	Optional
City	Optional
State	Optional
Source Name	Required
Product	Required
Date	Required
Units	Atleast One of the metric fields will have value
NRx	
TRx	
Notes	Optional

4.9.8 DEMAND SALES

S.No.	Requirement
BRD-REQ-SEM-1	• Demand Sales is comprised of the following Sales Data per market. ○ **Psych (Aristada)** - XPO (Weekly) + DDD (Weekly) + Chargebacks (Daily) + Adjustments (Monthly/ Adhoc) + Specialty Pharmacy (Daily/ Monthly) ○ **Psych (Lybalvi)** - XPO (Weekly) + DDD (Weekly) + Chargebacks (Daily) + Adjustments (Monthly/ Adhoc) ○ **Addiction (Vivitrol)** - XPO (Weekly) + DDD (Weekly) + Chargebacks (Daily) + Specialty Pharmacy (Daily/ Monthly) + Specialty Distributor (Monthly)+ Adjustments (Monthly/ Adhoc)

<table>
<tr><td></td><td>Note: All the brands (Alkermes or Competitor) will automatically flow if present in source data files and available in Product Master

A snapshot of the Demand Sales Component Table is taken in the Archival Schema whenever the monthly Javelin Extracts are posted.</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>Tables Covered –<ul><li>SEM_DEMAND_SALES_COMPONENT_VIVITROL</li><li>SEM_DEMAND_SALES_COMPONENT_ARISTADA</li><li>SEM_DEMAND_SALES_COMPONENT_3831</li><li>SEM_DEMAND_SALES_COMPONENT</li><li>SEM_DEMAND_SALES</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-3</td><td>XPO :<ul><li>XPO Live data along with adjustments will be utilized to capture sales for Addiction market starting from July’21, before that XPO Frozen data along with adjustments will be used, and XPO Frozen data will be utilized for Psychiatry market.</li><li>Source1 to be defaulted as ‘XPO’.</li><li>Source_2 and Source_3 is populated as per below mapping:</li></ul>
<table>
<tr><th>Sales Category Code</th><th>Source 2</th><th>Source 3</th></tr>
<tr><td>01</td><td>Retail Account</td><td>Retail Account</td></tr>
<tr><td>02</td><td>Mail Order</td><td>Mail Order</td></tr>
<tr><td>04</td><td>LTC</td><td>LTC</td></tr>
</table>
<ul><li>Type will be defaulted as ‘Vivitrol Demand Sales’.</li><li>Customer Details (Full Name) will be populated from Customer Master based on SRA_1(IMS_DR_NUM).</li><li>Address Details will be populated from Customer Address based on SRA_1(IMS_DR_NUM) for corresponding teams (i.e Addiction or Psychiatry).</li><li>Plan and Payer information is populated from Plan Master based on Source Plan Id with Entity Type as ‘PLAN’ and Parent Entity Type as ‘PARENT ENTITY’.</li><li>Units will be defaulted to ‘0’ for Vivitrol and Lybalvi data.</li><li>Below fields are directly populated from source:</li></ul>
<table>
<tr><th>Demand Sales</th><th>XPO Projected</th></tr>
<tr><td>SOURCE_ID</td><td>SOURCE_ID</td></tr>
<tr><td>FIRST_NAME</td><td>FIRST_NAME</td></tr>
<tr><td>LAST_NAME</td><td>LAST_NAME</td></tr>
<tr><td>ALK_ID</td><td>ALK_ID</td></tr>
<tr><td>PRODUCT_NAME</td><td>PRODUCT_NAME</td></tr>
<tr><td>PROD_DIM_ID</td><td>PROD_DIM_ID</td></tr>
<tr><td>BRAND</td><td>BRAND</td></tr>
<tr><td>PLAN_DIM_ID</td><td>PLAN_DIM_ID</td></tr>
<tr><td>SOURCE_PLAN_ID</td><td>SOURCE_PLAN_ID</td></tr>
</table></td></tr>
</table>

SALES_CATEGORY_CD	SALES_CATEGORY_CD
SALES_CATEGORY_NAME	SALES_CATEGORY_NAME
WEEK	WEEK
SPLIT_WEEK_DATE	SPLIT_WEEK_DATE
MONTH	MONTH
SALES_ADJUSTMENT_FLAG	SALES_ADJUSTMENT_FLAG
AL90S_EXCLUSION_FLAG	AL90S_EXCLUSION_FLAG
NRX	NRX
TRX	TRX
TQTY	VOLUME_UNITS
MOT	MOT

BRD-REQ-SEM-4

DDD

- DDD Non-Enhanced Live data along with adjustments will be utilized to capture sales of Addiction market and DDD Non-Enhanced Frozen data along with adjustments will be utilized to capture sales of Psychiatry market, for brand and competitor both.
- Data with **UNITS=0** and **BLOCKED_ZIP_CD** like '0000NULL' will be excluded for Lybalvi Demand Sales.
- Data with **UNITS=0** will be excluded for Vivitrol Demand Sales
- Sales from Retail Pharmacy (DDD ZIP RETAIL SALES) will be excluded for Vivitrol Demand Sales.
- Below Subcategory Codes for Brands & Competitors for Psychiatry and Addiction Market will be excluded.
    - These will be maintained in XREF_DEMAND_SALES_DDD_SUBCAT_EXCLUSION.
        - **Brand:**

Mkt	SUBCAT CODE
Addiction	E1, F3, F4, G1, G2, G3, G4, G5, G6, G7, G9, C1, P0, N4, P2, W5, P1, S4, V4, E1, C2, C4, N2, P3, V2, V1, Z1, V3, N1, W6, Z5, I0, S0, Z3, C3, Z6, P7, W4
Psychiatry	A5, C1-C4, E1, F3, F4, G2-G7, G9, H5, H7, I0, M3, N1, N2, N4, P0-P7, S0, S4, S8, V1-V4, W4-W6, Z1, Z3, Z5, Z6

        - **Competitors:**

Brand	SUBCAT CODE
Addiction	C1, P0, N4, P2, W5, P1, S4, V4, E1, C2, C4, N2, P3, V2, V1, Z1, V3, N1, W6, Z5, I0, S0, Z3, C3, Z6, P7, W4
Psychiatry	C1-C4, E1, IO, N1, N2, N4, P0-P3, P7, S0, S4, V1-V4, W4, W5, W6, Z1, Z3, Z5, Z6

- Outlets exclusion process:
    - Outlets maintained in XREF(XREF_DEMAND_SALES_SOURCE_ID_EXCLUSION_NEW_RULE) for Addiction will be excluded from demand sales process.

SOURCE_OUTLET_NUMBER	Name	Start Date	End Date
43614205	THE UNIVERSITY OF TOLEDO MEDICAL CENTER	1-Jul-21	31-Dec-99
85054401	LUMICERA HEALTH SERVICES, LLC	1-Apr-22	31-Dec-99

		72204442	ASEMBIA - ALLCARE SPECIALTY PHARMACY	1-Jul-21	31-Dec-99	
		21014612	ASHLEY TREATMENT CTR	1-Jul-21	31-Dec-99	
		19060402	ASEMBIA - BIOMATRIX/ELWYN SPECIALTY CARE	1-Jul-21	31-Dec-99	
		84119448	MAGELLAN RX PHARMACY, LLC	1-Jul-21	31-Dec-99	
		33760200	OPERATION PAR HIGHPOINT	1-Jul-21	31-Dec-99	
		21502447	FACTOR ONE SOURCE PHARMACY	1-Jul-21	31-Dec-99	
		7080423	ASEMBIA - QUALITAS PHARMACY SERVICES	1-Jul-21	31-Dec-99	
		84123435	INTERMOUNTAIN SPECIALTY PHARMACY	1-Jul-21	31-Dec-99	
		15071405	CHARTWELL PENNSYLVANIA, LP	1-Jul-21	31-Dec-99	
		53717405	LUMICERA HEALTH SERVICES, LLC	1-Apr-22	31-Dec-99	
		70062434	INFUCARE RX OF LA	1-Sep-22	31-Dec-99	
		81001155	MULTIPLE DOCTORS BESSE	1-Jul-21	31-Dec-99	
		80524181	MULTIPLE DOCTORS BESSE3	1-Jul-21	31-Dec-99	
		2368421	BOSTON MEDICAL CENTER CORP	1-Jul-21	31-Dec-99	
		43606203	TOLEDO HOSPITAL TRANSITIONAL CARE UNIT	1-Jul-21	31-Dec-99	
		99669413	PROFESSIONAL HOME IV	1-Jul-21	31-Dec-99	
		33408201	BEACH HOUSE	1-Jul-21	31-Dec-99	
		60555171	SYMETRIA RECOVERY	1-Jul-21	31-Dec-99	
		51103151	JACKSON RECOVERY CENTER	1-Jul-21	31-Dec-99	
		32837419	PERFORM SPECIALTY	1-Jul-21	31-Dec-99	
		32812412	MAGELLAN RX PHARMACY, LLC	1-Jul-21	31-Dec-99	
		14221435	SPECIALTY PHARMACY MANAGEMENT, LLC	1-Jul-21	31-Dec-99	
		60463621	SYMETRIA RECOVERY - PALOS HEIGHTS	1-Jul-21	31-Dec-99	
		45701171	MULTIPLE DOCTORS BESSE1	1-Jul-21	31-Dec-99	
		60007422	ORSINI HOME MEDICAL	1-Jul-21	31-Dec-99	
		53703169	MONARCH HEALTH ADDICTION RECOVERY CLINICS	1-Jul-21	31-Dec-99	
		21046433	BIOMATRIX SPECIALTY PHARMACY OF MARYLAND, LLC	1-Jul-21	31-Dec-99	
		49686181	ADDICTION TREATMENT SERVICES	1-Jul-21	31-Dec-99	
		60613183	SYMETRIA RECOVERY	1-Jul-21	31-Dec-99	
		23320433	SENTARA HOME CARE SERVICES	1-Jul-21	31-Dec-99	

55912300	SMARTFILL	1-Jan-22	31-Dec-99
38141304	ASSOCIATED PHARMACIES, INC	1-Jan-22	31-Dec-99
19116301	R AND S EAST	1-Jul-21	31-Dec-99
84847251	INTERMOUNTAIN SPECIALTY PHARMACY	1-Jul-21	31-Dec-99
43223252	PHARMACY SERVICE CENTER	1-Jul-21	31-Dec-99

- Psychiatry Market – Outlets maintained in XREF(XREF_DDD_3831_OUTLET_NUMBER_EXCLUSION) will be excluded from demand sales process.

OUTLET_NUMBER	OUTLET_SUBCAT	OUTLET_NAME
91316414	S5	BIOCARE RX SPECIALTY PHCY
33716433	S5	CURANT HEALTH
30082409	S5	CURANT HEALTH GEORGIA
33021445	S5	PRESCRIPTION CARE PHCY

- **SOURCE_1** will be defaulted as 'DDD' for all markets.
- **SOURCE_2** & **SOURCE_3** is defaulted as NULL for Aristada and be populated using below mapping for Vivitrol and Lybalvi.

Attribute	Description	Source 2	Source 3
Sales Category Code	01	Retail Account	Retail Account
Sales Category Code	02	Non-Retail Account	Non-Retail Account
NAME	ZIP MAIL SERVICE (Given year >=2016)	DDD ZIP Mail Service	NA

- **Address details** will be populated from Customer Address based on Outlet Number for respective markets (i.e., Addiction and Psychiatry).
- **Volume Units** will be defaulted to '0' for Aristada Demand Sales**.**
- Below fields will be directly populated from source:

Demand Sales	XPO Projected
SOURCE_OUTLET_NUMBER	SOURCE_ID
NAME	FULL_NAME
ALK_ID	ALK_ID
PRODUCT_NAME	PRODUCT_NAME
PROD_DIM_ID	PROD_DIM_ID
BRAND	BRAND
SALES_CATEGORY_CD	SALES_CATEGORY_CD
SALES_CATEGORY_NAME	SALES_CATEGORY_NAME
WEEK	WEEK

SPLIT_WEEK_DATE	SPLIT_WEEK_DATE
MONTH	MONTH
SALES_ADJUSTMENT_FLAG	SALES_ADJUSTMENT_FLAG
UNITS	UNITS
TQTY	VOLUME_UNITS
MOT	MOT

BRD-REQ-SEM-5

Chargeback:

- Demand sales includes Frozen chargeback data for Psychiatry and Live Chargebacks for Addiction Market and member types as "VETERANS ADMIN, DAPA/DOD, HMO and OGA OTHER GOVT AGENCY" which will not covered by IQVIA for brands.
  - Includes wholesales data >=2016 for Vivitrol
  - Includes wholesales data >Jan-2022 for Aristada
  - Includes wholesales data >=Oct-2022 for Lybalvi
  - Includes Adjustment data for all Brands.
- **Source 1** to be defaulted as 'CBK.'
- **Sources 2 and Source 3** should be populated based on the mapping below.

VIVITROL:

Attribute	Source 2	Source 3
OGA OTHER GOVT AGENCY	OGA OTHER GOVT AGENCY	IHS
HMO	HMO	KAISER
VETERANS ADMIN	VETERANS ADMIN	VETERANS ADMIN
DAPA/DOD	DAPA/DOD	DAPA

ARISTADA:

Attribute	Description	Source 2	Source 3
MEMBER_CUST_TYPE_DESCRIPTION	OGA OTHER GOVT AGENCY	OGA OTHER GOVT AGENCY	OGA OTHER GOVT AGENCY
MEMBER_CUST_TYPE_DESCRIPTION	VETERANS ADMIN	VETERANS ADMIN	VETERANS ADMIN
MEMBER_CUST_TYPE_DESCRIPTION	DAPA/DOD	DAPA/DOD	DAPA/DOD
CONTRACT_NUMBER	0560100004	KAISER	KAISER

LYBALVI:

Attribute	Description	Source 2	Source 3
MEMBER_CUST_TYPE_DESCRIPTION	OGA OTHER GOVT AGENCY	OGA OTHER GOVT AGENCY	OGA OTHER GOVT AGENCY
MEMBER_CUST_TYPE_DESCRIPTION	VETERANS ADMIN	VETERANS ADMIN	VETERANS ADMIN
MEMBER_CUST_TYPE_DESCRIPTION	DAPA/DOD	DAPA/DOD	DAPA/DOD
ACCOUNT_SUB_TYPE	KAISER	KAISER	KAISER

- **Volume Units** will be defaulted to '0'.
- **Address details** are fetched from Customer Address based on 'Member Number' respectively for respective source markets (Psychiatry and Addiction).
- **Adjustments** for Chargebacks will be populated directly for all markets.
- Below fields will be directly populated from source:

Demand Sales	Chargebacks
MEMBER_CUST_NAME	FULL_NAME
MEMBER_ALK_ID	ALK_ID
PRODUCT_NAME	PRODUCT_NAME
PROD_DIM_ID	PROD_DIM_ID
BRAND	BRAND
SALES_CATEGORY_CD	SALES_CATEGORY_CD
SALES_CATEGORY_NAME	SALES_CATEGORY_NAME
WHOLESALER_INVOICE_WEEK	WEEK
WHOLESALER_INVOICE_SPLIT_WEEK_DATE	SPLIT_WEEK_DATE
WHOLESALER_INVOICE_MONTH	MONTH
SALES_ADJUSTMENT_FLAG	SALES_ADJUSTMENT_FLAG
CHARGEBACK_QUANTITY	UNITS
MOT	MOT

BRD-REQ-SEM-6

Specialty Pharmacy:

- Demand Sales will utilize Speciality Pharmacy data for:
  - Vivitrol with Ship date >= 2016 and all adjustments.
  - Aristada
- **Address details** will be populated for Vivitrol and Aristada from Customer Address based on SP_PRESCRIBER_ID and team.
- **Source1** to will be defaulted as "DP".
- **Source2** will be populated as PARENT_NAME_REPORTING, in case PARENT_NAME_REPORTING will be NULL, then use DIRECT_PHARMACY_NAME, if DIRECT_PHARMACY_NAME will also be NULL, then populate with DATA_SOURCE_PROVIDER.
- **Source3** will be populated as DIRECT_PHARMACY_NAME; in case DIRECT_PHARMACY_NAME will be NULL, then populate with DATA_SOURCE_PROVIDER
- **Volume Units** will be defaulted to '0'.
- To eliminate any sales overlap with DDD, pharmacies maintained in XREF (XREF_DEMAND_SALES_SP_INCLUSION) will be included.

Account Name	Direct Pharmacy Name	Start Date	End Date	Brand
ASEMBIA	ALLCARE SPECIALTY PHARMACY, LLC	1-Jul-21	31-Dec-99	VIVITROL
ASEMBIA	BIOMATRIX	1-Jul-21	31-Dec-99	VIVITROL
ASEMBIA	FACTOR ONE SOURCE PHARMACY	1-Jul-21	31-Dec-99	VIVITROL

ASEMBIA	INFUCARE RX	1-Sep-22	31-Dec-99	VIVITROL
ASEMBIA	PRICE CHOPPER	1-Jul-21	31-Dec-99	VIVITROL
ASEMBIA	LUMICERA	1-Apr-22	31-Dec-99	VIVITROL
ASEMBIA	PROFESSIONAL HOME IV, INC	1-Jul-21	31-Dec-99	VIVITROL
ASEMBIA	QUALITAS PHARMACY SERVICES DEPT	1-Jul-21	31-Dec-99	VIVITROL
ASEMBIA	SENTARA HOME INFUSION PHARMACY	1-Jul-21	31-Dec-99	VIVITROL
CHARTWELL		1-Jul-21	31-Dec-99	VIVITROL
CORNERSTONE HEALTH SOLUTIONS		1-Jul-21	31-Dec-99	VIVITROL
EXCELERA	IHC HEALTH SERVICES INC	1-Jul-21	31-Dec-99	VIVITROL
MAGELLAN SPECIALTY / ICORE		1-Jul-21	31-Dec-99	VIVITROL
ORSINI HEALTHCARE		1-Jul-21	31-Dec-99	VIVITROL
PERFORM RX		1-Jul-21	31-Dec-99	VIVITROL
PROMEDICA		1-Jul-21	31-Dec-99	VIVITROL
RELIANCE RX		1-Jul-21	31-Dec-99	VIVITROL
GENOA		1-Jul-23	31-Dec-99	ARISTADA

- Below fields will be directly populated from source:

Demand Sales	Specialty Pharmacy
HCP_NAME	FULL_NAME
HCP_ALK_ID	ALK_ID
PRODUCT_NAME	PRODUCT_NAME
PROD_DIM_ID	PROD_DIM_ID
BRAND	BRAND
SHIP_WEEK	WEEK
SHIP_SPLIT_WEEK_DATE	SPLIT_WEEK_DATE
ADJUSTED_DATE_MONTH	MONTH
SALES_ADJUSTMENT_FLAG	SALES_ADJUSTMENT_FLAG
QUANTITY	UNITS
MOT	MOT

BRD-REQ-SEM-7

Adjustments:

- The Adjustments will be excluded or included from Vivitrol Demand Sales process based on below conditions:
  - Adjustments will be included if the 'Need for Xponent Data" has value 'Yes' and these adjustments are not already present in Vivitrol Demand Sales.
  - If the 'Need for Xponent Data" is Null, 'No' or 'TBD' then these adjustments will be excluded.

<table>
<tr><td></td><td></td></tr>
<tr><td>BRD-REQ-SEM-8</td><td>Specialty Distributor Data:

• Demand Sales will utilize Speciality Distributor data for Vivitrol with date >= 2016 and all adjustments.
• Address details are populated for Vivitrol from Corresponding master table based on Customer DIM ID.
• Defaulted Attributes as per below table
<table><tr><th>Attributes</th><th>Defaulted values</th></tr><tr><td>Source1</td><td>SD</td></tr><tr><td>Source2</td><td>BESSE</td></tr><tr><td>Source3</td><td>BESSE</td></tr><tr><td>Volume Units</td><td>0</td></tr></table>
• Below fields will be directly populated from source:
<table><tr><th>Demand Sales</th><th>Specialty Pharmacy</th></tr><tr><td>NAME</td><td>FULL_NAME</td></tr><tr><td>ALK_ID</td><td>ALK_ID</td></tr><tr><td>PRODUCT_NAME</td><td>PRODUCT_NAME</td></tr><tr><td>PROD_DIM_ID</td><td>PROD_DIM_ID</td></tr><tr><td>BRAND</td><td>BRAND</td></tr><tr><td>WEEK</td><td>WEEK</td></tr><tr><td>SPLIT_WEEK_DATE</td><td>SPLIT_WEEK_DATE</td></tr><tr><td>MONTH</td><td>MONTH</td></tr><tr><td>SALES_ADJUSTMENT_FLAG</td><td>SALES_ADJUSTMENT_FLAG</td></tr><tr><td>QUANTITY</td><td>UNITS</td></tr><tr><td>MOT</td><td>MOT</td></tr></table></td></tr>
<tr><td>BRD-REQ-SEM-9</td><td>Historical Demand Sales
• Historical data and adjustments for Vivitrol Demand sales will be fetched from static tables (XREF_DEMAND_SALES_COMPONENT_ADDICTION_HIST) for years greater than 2011 based on the following conditions:
○ Historical Demand Sales (Beghou):
▪ Include data where source_1 not in (‘ADJ’, ‘DDD’) and units<>0 and source_2<>’Exclude’ and Datatype=’BEGHOU_FROZEN_DEMAND_SALES
○ Historical Adjustments (Beghou):
▪ Include data where Source_1 = ‘ADJ’ and Units<>0 and Datatype=’BEGHOU_FROZEN_DEMAND_SALES
○ Historical DDD weekly:
▪ Include data from XREF_DDD_WEEKLYHISTORICAL_UNPIVOT_DATA for week between Jan-2011 and Jan-2016, and Units <> 0 and Datatype= DDD_WEEKLYHISTORICAL_UNPIVOT’</td></tr>
</table>

	▪ Split week date and month to be populated from SEM_SPLIT_WEEK_CALENDAR based on report date. • Customer, Address, and product information from for the Addiction market from corresponding master tables. • Demand Sales data prior to July-2021(exclusion data for Beghou and DDD Weekly Historical Unpivot) to be populated from Xref (XREF_DEMAND_SALES_COMPONENT_ADDICTION_HIST).

4.9.9 INTEGRICHAIN

4.9.9.1 INTEGRICHAIN 852

S NO	Requirement
BRD-REQ-1 RAW-1	**Feed ID**: 433 **Feed Name**: alkermes_All_852_Daily_6_Weeks_ **Feed Description**: Integrichain Inventory 852 data **Source**: Integrichain **Subject Area**: Integrichain **Markets**: Addiction, Psychiatry, Anti-Psych **Products**: Aristada, Lybalvi, Vivitrol **Load strategy (Incremental/ Full)** – Incremental **Restatement (Yes/ No)**: Yes **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc)** – Daily. **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)**- NA **MDM Mastering (Yes/No)** – No
BRD-REQ-OBJ-2	**Tables Covered –** • RAW_IC_852 • CLNS_IC_852 • SEM_IC_852, SEM_INTEGRICHAIN_852, SEM_852_CALCULATED_INVENTORY
BRD-REQ- SEM-3	**SEM_IC_852** • Incremental Integrichain 852 data for all brands (Aristada, Lybalvi and Vivitrol) will be loaded in Semantic daily where history will also be maintained. o History data from September 2009 is available. • Data will be reinstated based on DAY_DT, historical data for the same DAY_DT as in the latest feed will be replaced with latest data in the file. o In case of multiple new files records from latest file will be loaded in sematic for each DAY_DT. • Below fields are directly populated from source: SEM_IC_852.xlsx

BRD-REQ- SEM-4	**SEM_INTEGRICHAIN_852** • Incremental Integrichain 852 data for all brands (Aristada, Lybalvi and Vivitrol) will be loaded in Semantic daily where history will also be maintained. ▪ History data from July 2021 is available. • **TRADE_PARTNER_NAME** will be populated as SHIP_FROM_JUNIOR_PARENT_NAME if SHIP_FROM_JUNIOR_PARENT_NAME is one of the following 'BESSE MEDICAL SUPPLY', 'HD SMITH WHOLESALE DRUG CO', 'MCKESSON PLASMA AND BIOLOGICS (LA VERGNE, TN)'. Otherwise, TRADE_PARTNER_NAME will be populated as is. • **STANDARDIZED_PARTNER_NAME** will be populated from XREF_852_DIRECT_ACCOUNTS_LOOKUP based on TRADE_PARTNER_NAME. o XREF_852_DIRECT_ACCOUNTS_LOOKUP contains mapping for STANDARDIZED_PARTNER_NAME and CUSTOMER_NAME. XREF_852_DIRECT_ACCOUNTS_LOOKUP.x • **Set HUB_DC** will be populated as 'YES' for all DISTRIBUTION_CENTER_ID_IC present in XREF_852_TRADE_PARTNER_ATTRIBUTES. o XREF_852_TRADE_PARTNER_ATTRIBUTES will be used to identify the Partner Name which use Hub and spoke model. It included fields STANDARDIZED_PARTNER_NAIC, HUBRIBUTION_CENTER_ID_IC, HUB_USING_PARTNER, SINGLE_DC_PARTNER, and FF_FOR_QOH_DROP • **HUB_USING_PARTNER, SINGLE_DC_PARTNER** and **FF_FOR_QOH_DROP** fields will be populated from XREF_852_TRADE_PARTNER_ATTRIBUTES based on STANDARDIZED_PARTNER_NAME XREF_852_TRADE_PARTNER_ATTRIBUTES.x • For the Trade partners that should be forward filled, we will check from Friday to Sunday ▪ If Friday's QTY_SOLD_PU_SUM = 0, QTY_ON_HAND_PU_SUM drops on Friday and QTY_ON_HAND_PU_SUM+ QTY_COM_PU_SUM+ QTY_IN_TRANS_PU_SUM– QTY_RCV_PU_SUM–QTY_TRANS_IN_PU_SUM<> QTY_ON_HAND_PU_SUM of Thursday, then forward fill QTY_ON_HAN from Thursday else do not forward fill ▪ For Saturday, if Friday was forward filled then compare Saturday with Thursday. Else compare Saturday with Friday's last available true data. ▪ For Sunday, if Saturday was forward filled then compare Sunday's data with either Friday or Thursday depending on the last available true data. • For the non-reported calendar days, i.e., for the cases where trade partner doesn't report on Saturday or Sunday, records for the inventory will be created and Oty on Hand is forward filled from the last available data. • If no data is reported or an empty file comes in, then forward fill from the last available data. o Forward Filling will be done at Trade Partner, DC ID and NDC level.

	• **Source** will be added as an identifier that will contain following LOV: ▪ **FF- Missing Data:** where Trade partner didn't provide inventory data at all or provided the files completely blank, therefore FF has happened because of data missing from the trade partner. ▪ **FF-Erroneous:** where Trade partner provided inventory data, but data provided didn't pass our calculation check, hence forward filling was done since the data provided was erroneous. ▪ **852**: rest of the records are using 852 data provided as is.
BRD-REQ-SEM-5	**SEM_852_CALCULATED_INVENTORY** • Integrichain data for all brands will be loaded in Semantic daily where history will also be maintained. ▪ History data from July 2021 is available. • **QTY_RCV_PU_SUM_CALC** and **QTY_ORD_PU_SUM_CALC** will be populated 0 when HUB_USING_PARTNER is 'Yes' and HUB_DC is 'NO'. Otherwise, they will be populated as QTY_RCV_PU_SUM and QTY_ORD_PU_SUM respectively. • Aggregate (Sum) following metric at **STANDARDIZED_PARTNER_NAME, NDC** and **DAY_DT** Level. o QTY_ON_HAND_PU_SUM, QTY_RCV_PU_SUM, QTY_SOLD_PU_SUM, QTY_AVAIL_PU_SUM, QTY_COM_PU_SUM, QTY_TRANS_IN_PU_SUM, QTY_IN_TRANS_PU_SUM, QTY_ORD_PU_SUM, QTY_RCV_PU_SUM_CALC, QTY_ORD_PU_SUM_CALC • **HQ_SHIPMENT & P3R_HQ_SHIPMENT** will be calculated by aggregating QTY from SEM_EX_FACTORY_INV_RPT based on STANDARDIZED_PARTNER_NAME, NDC and COMPLETE_DATE o **HQ_SHIPMENT**: Overall sum of QTY o **P3R_HQ_SHIPMENT:** Sum of QTY for the completed date and the three days immediately prior to the completed date. • The start of an order cycle is a day that has HQ_SHIPMENT >0 and three consecutive previous days of ZERO, NULL or Negative values at STANDARDIZED_PARTNER_NAME and NDC level. The order cycle runs from the starting day until the next order cycle starting day. • **Unrecognized Inventory** for a single "Order Cycle" will be calculated by taking Running total of the HQ_SHIPMENT - Running total of QTY_RCV_PU_SUM_CALC as reported in 852 data will be calculated at the trade partner and NDC level. • Actual Inventory will be calculated as per below logic: o **For Smith Drug** = QTY_ON_HAND_PU_SUM + QTY_COM_PU_SUM + UNRECOGNIZED_INV o **For Cardinal** = QTY_ON_HAND_PU_SUM + QTY_IN_TRANS_PU_SUM + UNRECOGNIZED_INV o **For AmeriSourceBergen** = QTY_ ON_HAND _PU_SUM + QTY_COM_PU_SUM + QTY_TRANS_IN_PU_SUM + UNRECOGNIZED_INV o Else QTY_ON_HAND_PU_SUM + UNRECOGNIZED_INV o **QTY_SOLD_91_DAY_AVG** will be calculated by taking AVG of running sum from current completed date to immediately prior 90 days to the completed date.
BRD-REQ-SEM-6	• SEM_FINAL_INVENTORY will hold the complete inventory data as per below logic: o Inventory Data till latest completed month will be fetched from XREF_852_HISTORICAL_INVENTORY. o Inventory Data for any date greater than the latest completed month will be fetched from SEM_852_CALCULATED_INVENTORY. ▪ The latest completed month will be determined based on max (COMPLETE_DATE) from XREF_852_HISTORICAL_INVENTORY.

<table>
<tr>
<td></td>
<td>
<ul>
<li>Any adjustments (ACTUAL_INVENTORY_ADJUSTED) to the inventory feed are fetched from XREF_852_INVENTORY_ADJUSTMENT based on STANDARDIZED_PARTNER_NAME, NDC and COMPLETE_DATE.</li>
</ul>
<ul>
<li>ACTUAL_INVENTORY will be populated as ACTUAL_INVENTORY_ADJUSTED if there are adjustments available in XREF_852_INVENTORY_ADJUSTMENT for any STANDARDIZED_PARTNER_NAME, NDC and COMPLETE_DATE combination, else ACTUAL_INVENTORY.</li>
<li>Below will be directly populated from source:</li>
</ul>
<table>
<tr><th>Target Column</th><th>Source Column</th></tr>
<tr><td>STANDARDIZED_PARTNER_NAME</td><td>STANDARDIZED_PARTNER_NAME</td></tr>
<tr><td>NDC</td><td>NDC</td></tr>
<tr><td>COMPLETE_DATE</td><td>COMPLETE_DATE</td></tr>
<tr><td>QTY_SOLD_91_DAY_AVG</td><td>QTY_SOLD_91_DAY_AVG</td></tr>
</table>
</td>
</tr>
</table>

4.9.9.2 INTEGRICHAIN - 867

S NO	Requirement
BRD-REQ-RAW-1	**Feed ID:** 434 **Feed Name:** alkermes_All_867_Daily_6_Weeks_ **Feed Description:** Inegrichain Inventory 867 data **Source**: Integrichain **Subject Area:** Integrichain **Markets:** Addiction, Psychiatry, Anti-Psych **Products:** Aristada,Lybalvi, Vivitrol **Load strategy (Incremental/ Full) –** Incremental **Restatement (Yes/ No):** Yes **Monthly/ Quarterly/ Adhoc) –** Daily. **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)**- NA **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	**Tables Covered –** • RAW_IC_867 • CLNS_IC_867 • FCT_IC_867 • SEM_INTEGRICHAIN_867
BRD-REQ-DWH-3	• Integrichain 867 data for all brands will be loaded in warehouse daily, where all the historical data outside the time span of the latest file is retained in warehouse table. o History data from June 2009 is available. • **DAY_DT_DIM_ID, PROC_DT_DIM_ID, INITIAL_LOAD_DT_DIM_ID** will be populated as CALENDAR_ID from DIM_CALENDAR Dimension based on DAY_DT, PROC_DT, INITIAL_LOAD_DT respectively.

<table>
<tr><td></td><td>
<ul>
<li>DISTRIBUTION_CENTER_CUST_DIM_ID will be populated as CUST_DIM_ID from CUSTOMER_IDENTIFIER based on ‘DIST_CNTR_’||DISTRIBUTION_CENTER_ID_IC.</li>
<li>SHIP_TO_POC_CUST_DIM_ID will be populated as CUST_DIM_ID from CUSTOMER_IDENTIFIER based on 'SHIP_TO_'||SHIP_TO_POC_ID.</li>
<li>DISTRIBUTION_CENTER_CUST_DIM_ID and SHIP_TO_POC_CUST_DIM_ID will be updated daily.</li>
<li>PROD_DIM_ID will be populated as PROD_DIM_ID from DIM_PROD_MSTR based on NDC.</li>
<li>DAY_DT_SPLIT_WEEK_ID will be populated as ID from DIM_SPLIT_WEEK_CALENDAR based on DAY_DT</li>
</ul>
</td></tr>
<tr><td>BRD-
REQ-
SEM-

4</td><td>
<ul>
<li>Integrichain data for all brands will be loaded in Sematic daily where history will also be maintained.
<ul>
<li>History data from June 2009 is available.</li>
</ul></li>
<li>BRAND and PRODUCT_NAME will be populated as BRAND_NAME and PRODUCT_NAME from SEM_PRODUCT_MASTER respectively based on PROD_DIM_ID</li>
<li>SPLIT_WEEK_DATE and MONTH will be populated as SW_END_DATE and CALENDAR_MONTH_START_DATE from Split Week Calendar respectively based on DAY_DT.</li>
<li>SPLIT_WEEK_DATE will be populated as SW_END_DATE from Split Week Calendar Dimension based on DAY_DT.</li>
<li>MONTH will be populated as CALENDAR_MONTH_START_DATE from Split Week Calendar Dimension based on DAY_DT.</li>
<li>DAY_DATE and WEEK will be populated as COMPLETE_DATE and WEEKENDING_FRIDAY from Sem Calendar respectively based on DAY_DT field from source.</li>
<li>PROC_DATE will be populated as COMPLETE_DATE from Sem Calendar based on PROC_DT field from source.</li>
<li>INITIAL_LOAD_DATE will be populated as COMPLETE_DATE from Sem Calendar based on INITIAL_LOAD_DT field from source.</li>
<li>SHIP_TO_POC_ALK_ID will be populated as ALK_ID from SEM_CUSTOMER_MASTER based on SHIP_TO_POC_ID field from source.</li>
<li>DISTRIBUTION_CENTER_ALK_ID will be populated as ALK_ID from SEM_CUSTOMER_MASTER based on SHIP_TO_POC_ID field from source.</li>
<li>Below fields are directly populated from source:
<table>
<tr><th>Semantic Table Field</th><th>Source Field</th></tr>
<tr><td>SHIP_TO_POC_CUST_DIM_ID</td><td>SHIP_TO_POC_CUST_DIM_ID</td></tr>
<tr><td>DISTRIBUTION_CENTER_CUST_DIM_ID</td><td>DISTRIBUTION_CENTER_CUST_DIM_ID</td></tr>
<tr><td>PROD_DIM_ID</td><td>PROD_DIM_ID</td></tr>
<tr><td>SHIP_FROM_DEA_HIN_CUST_ID</td><td>SHIP_FROM_DEA_HIN_CUST_ID</td></tr>
<tr><td>SHIP_FROM_ID_TYPE</td><td>SHIP_FROM_ID_TYPE</td></tr>
<tr><td>TRADE_PARTNER_NAME</td><td>TRADE_PARTNER_NAME</td></tr>
<tr><td>SHIP_FROM_JUNIOR_PARENT_NAME</td><td>SHIP_FROM_JUNIOR_PARENT_NAME</td></tr>
<tr><td>SRC_DISTRIBUTION_CENTER_CHANNEL</td><td>DISTRIBUTION_CENTER_CHANNEL</td></tr>
<tr><td>SRC_DISTRIBUTION_CENTER_CLASS_OF_TRADE</td><td>DISTRIBUTION_CENTER_COT</td></tr>
<tr><td>SRC_DISTRIBUTION_CENTER_ID_IC</td><td>DISTRIBUTION_CENTER_ID_IC</td></tr>
<tr><td>SRC_DISTRIBUTION_CENTER_NAME</td><td>DISTRIBUTION_CENTER_NAME</td></tr>
<tr><td>SRC_DISTRIBUTION_CENTER_ADDRESS</td><td>DISTRIBUTION_CENTER_ADDR</td></tr>
<tr><td>SRC_DISTRIBUTION_CENTER_CITY</td><td>DISTRIBUTION_CENTER_CITY</td></tr>
<tr><td>SRC_DISTRIBUTION_CENTER_STATE</td><td>DISTRIBUTION_CENTER_STATE</td></tr>
<tr><td>SRC_DISTRIBUTION_CENTER_ZIP</td><td>DISTRIBUTION_CENTER_ZIP</td></tr>
<tr><td>SHIP_TO_DEA_HIN_CUST_ID</td><td>SHIP_TO_DEA_HIN_CUST_ID</td></tr>
<tr><td>SHIP_TO_SENIOR_PARENT_NAME</td><td>SHIP_TO_SENIOR_PARENT_NAME</td></tr>
<tr><td>SRC_SHIP_TO_ID_TYPE</td><td>SHIP_TO_ID_TYPE</td></tr>
</table></li>
</ul>
</td></tr>
</table>

SHIP_TO_JUNIOR_PARENT_NAME	SHIP_TO_JUNIOR_PARENT_NAME
SRC_SHIP_TO_POINT_OF_CARE_CHANNEL	SHIP_TO_POINT_OF_CARE_CHANNEL
SRC_SHIP_TO_POINT_OF_CARE_CLASS_OF_TRADE	SHIP_TO_POINT_OF_CARE_COT
SRC_SHIP_TO_POINT_OF_CARE_ID	SHIP_TO_POC_ID
SRC_SHIP_TO_POINT_OF_CARE_NAME	SHIP_TO_POC_NAME
SRC_SHIP_TO_POINT_OF_CARE_ADDRESS	SHIP_TO_POC_ADDR
SRC_SHIP_TO_POINT_OF_CARE_CITY	SHIP_TO_POC_CITY
SRC_SHIP_TO_POINT_OF_CARE_STATE	SHIP_TO_POC_STATE
SRC_SHIP_TO_POINT_OF_CARE_ZIP	SHIP_TO_POC_ZIP
IS_CLINIC	IS_CLINIC
BUSINESS_UNIT	BUSINESS_UNIT
STRENGTH	STRENGTH
PACK_SIZE	PACK_SIZE
DOSAGE_DESCRIPTION	DOSAGE_DESC
PACKAGE_DESCRIPTION	PACKAGE_DESC
NDC	NDC
TRANSACTION_TYPE	TRANSACTION_TYPE
INVOICE_NUMBER	INVOICE_NUM
CONTRACT_NUMBER	CONTRACT_NUM
PROC_DATE	COMPLETE_DATE
INITIAL_LOAD_DATE	COMPLETE_DATE
867_QUANTITY_SOLD_EU_SUM	867_QTY_SOLD_EU_SUM
867_QUANTITY_SOLD_PU_SUM	867_QTY_SOLD_PU_SUM
867_QUANTITY_SOLD_MU_SUM	867_QTY_SOLD_MU_SUM
867_QUANTITY_SOLD_WAC_C_SUM	867_QTY_SOLD_WAC_C_SUM
867_QUANTITY_SOLD_WAC_H_SUM	867_QTY_SOLD_WAC_H_SUM

4.9.10 CREDITED SALES

Credited sales constitute of the following –

1. Credited Sales Goals
2. Customer Level Credited Sales – Goals
3. Territory Level Credited Sales - Goals

4.9.10.1 CREDITED SALES GOALS

<table>
<tr><th>S NO</th><th>Requirement</th></tr>
<tr><td>BRD-REQ-RAW-1</td><td>Subject Area: Credited Sales-Goals
Source: ZS
Markets: Psychiatry
Products: Aristada
Load strategy (Incremental/ Full) – Incremental
Restatement (Yes/ No): No
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Quarterly
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- N/A
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>Tables Covered –<ul><li>XREF_CREDITED_SALES_GOALS</li><li>SEM_CREDITED_SALES_GOALS</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-3</td><td><ul><li>Territory level goals will be captured in semantic, which will be directly sourced from XREF (XREF_CREDITED_SALES_GOALS) without any transformations. The goals data will be utilized for Excel demand sales generation and Attainment tracking.</li><li>Below fields are directly populated from source:</li></ul>
<table>
<tr><th>Target fields</th><th>Source fields</th></tr>
<tr><td>TIME_PERIOD</td><td>TIME_PERIOD</td></tr>
<tr><td>DATAMONTH_GOALS</td><td>DATAMONTH_GOALS</td></tr>
<tr><td>TEAM_ID</td><td>TEAM_ID</td></tr>
<tr><td>TERR_ID</td><td>TERR_ID</td></tr>
<tr><td>PRODUCT_ID</td><td>PRODUCT_ID</td></tr>
<tr><td>CHANNEL_ID</td><td>CHANNEL_ID</td></tr>
<tr><td>METRIC_TYPE</td><td>METRIC_TYPE</td></tr>
<tr><td>LEVEL_ID</td><td>LEVEL_ID</td></tr>
<tr><td>GOAL_PERIOD</td><td>GOAL_PERIOD</td></tr>
<tr><td>TOTAL_GOALS</td><td>TOTAL_GOALS</td></tr>
<tr><td>GOAL_VALUE</td><td>GOAL_VALUE</td></tr>
</table></td></tr>
</table>

4.9.10.2 CUSTOMER LEVEL CREDITED SALES - GOALS

<table>
<tr><th>S NO</th><th>Requirement</th></tr>
<tr><td>BRD-REQ-1
RAW-1</td><td>
Feeds Details:
<table>
<tr><th>Feed ID</th><th>Feed Name</th><th>Feed Description</th><th>Frequency</th><th>Restatement</th></tr>
<tr><td>409</td><td>Customer_Territory_Level_Sales_WeeklyReporting</td><td>This feed contains credited Customer level weekly reporting sales data based on the type of alignment</td><td>Weekly (Tuesday)</td><td>Yes</td></tr>
<tr><td>410</td><td>Customer_Territory_Level_Sales_IC</td><td>This feed contains credited Customer level sales for the purpose of incentive compensation</td><td>Monthly (10th of every month)</td><td>No</td></tr>
<tr><td>411</td><td>Customer_Territory_Level_Sales_GoalSetting</td><td>This feed contains credited Customer level sales on a weekly basis for Goal Setting purpose</td><td>Weekly (Tuesday)</td><td>Yes</td></tr>
</table>
Subject Area: Credited Sales-Goals
Source: ZS
Markets: Addiction, Psychiatry
Products: Aristada, Vivitrol, Lybalvi and Competitors
Load strategy (Incremental/ Full) – Incremental
MDM Mastering (Yes/No) – No
</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>
Tables Covered –
<ul>
<li>RAW_SC_CREDITED_CUST_SALES_WKLY_RPT, RAW_SC_CREDITED_CUST_SALES_IC, RAW_SC_CREDITED_CUST_SALES_GOAL_STNG</li>
<li>CLNS_SC_CREDITED_CUST_SALES_WKLY_RPT, CLNS_SC_CREDITED_CUST_SALES_IC, CLNS_SC_CREDITED_CUST_SALES_GOAL_STNG</li>
<li>FCT_CREDITED_CUST_SALES</li>
<li>SEM_CUSTOMER_LEVEL_CREDITED_SALES_METRIC, SEM_CUSTOMER_LEVEL_CREDITED_SALES_VOLUME, VW_SEM_CUST_LEVEL_CREDITED_SALES_VOLUME_CUST_ADDR</li>
</ul>
</td></tr>
<tr><td>BRD-REQ-DWH-3</td><td>
<ul>
<li>Customer Level credited sales goals will be populated in the warehouse from Weekly Reporting, Incentive Compensation and Goal Setting feeds received from ZS, where History will also be maintained.</li>
<li>REPORT_TYPE will be defaulted based data received from respective sources as:
<ul>
<li>WEEKLY REPORT for Weekly Reporting</li>
<li>IC for Incentive Compensation</li>
<li>GOAL SETTING for Goal Setting</li>
</ul></li>
</ul>
</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>
<u>SEM_CUSTOMER_LEVEL_CREDITED_SALES_METRIC</u>
<ul>
<li>Customer Level credited sales goals will be populated in Semantic from Weekly Reporting, Incentive Compensation and Goal Setting feeds received from ZS, where History will also be maintained.</li>
<li>Records with Metric Id = NULL or Metric Id <> “Volume” will be considered.</li>
<li>METRIC_NAME and UNIT_NAME will be fetched from Metric Id. The first part of the Metric Id before the hyphen('-') will be considered as METRIC_NAME and the part after hyphen('-') will be the UNIT_NAME.</li>
</ul>
<table>
<tr><th>Metric Id</th><th>Metric_Name</th><th>Unit_Name</th></tr>
<tr><td>Volume-MOT</td><td>Volume</td><td>MOT</td></tr>
<tr><td>Volume-Unit</td><td>Volume</td><td>Unit</td></tr>
</table>
</td></tr>
</table>

- **Product details (**Product Master Level, Product Master Id, Product Master Name**)** will be populated from Product Master based on Product Id received from source.
    - **Product Master Level** will be either PRODUCT (hardcoded), Product Group Type (Dynamic), MARKET (hardcoded) from Product Master. Product Group, Market Basket respectively based on Product Id.
    - **Product Master Id** will be populated as Product Dimension Id, Product Group Dimension Id, Market Dimension Id from Product Master. Product Group, Market Basket respectively based on Product Id.
    - **Product Master Name** will be populated as Product Name, Product Group Name, Market Name from Product Master. Product Group, Market Basket respectively based on Product Id.
- **Sales Category Name** will be populated as Description from Map Code based on category code, with entity type as 'ACCOUNT' and Code type as 'SALES_CATEGORY_CD'.
- **TEAM NAME** will be populated from Team Master based on Team Dimension Id.
- **ORG_UNIT_LEVEL_NAME** will be populated from **Geography Hierarchy Frozen Mapping** based on **ORG_UNIT_ID** from Geography.
- **Customer details** (CUST_DIM_ID) will be populated from Customer Master based on Alkermes Id.
- Below fields are directly populated from the source:

Target fields	Source fields
SALES_CATEGORY_CD	CHANNEL_ID
ALIGNMENT_TYPE	ALIGNMENT_TYPE
ORG_UNIT_ID	ORG_UNIT_ID
TEAM_DIM_ID	TEAM_ID
DATA_TYPE	DATA_TYPE
TIME_PERIOD	TIME_ID
METRIC_VALUE	METRIC_VAL
PDRP_FLAG	PDRP_FLAG
MASTER_EXCLUSION_FLAG	MASTER_EXCLUSION_FLAG
PROCESSING_DATE	PROCESSING_DT

SEM_CUSTOMER_LEVEL_CREDITED_SALES_VOLUME:

- Customer Level credited sales goals will be populated in Semantic from Weekly Reporting, Incentive Compensation and Goal Setting feeds received from ZS, where History will also be maintained.
- Records with **Metric Id** = "**Volume"** will be considered.
- **UNIT_NAME** will be fetched from **Metric Id**. The part after hyphen ('-') will be the UNIT_NAME.

Metric Id	Unit_Name
Volume-MOT	MOT
Volume-Unit	Unit

- **TIME_PERIOD** will be populated as Time Id (YYYYMMDD) received from the source.
    - Exception being when the value of Data Type is 'Demand_Sales_Monthly' then the date (DD) in the Time ID (YYYYMMDD) defaulted to first of the month.
- **Product details (**Product Master Level, Product Master Id, Product Master Name**)** will be populated from Product Master based on Product Id received from source.
    - **Product Master Level** will be either PRODUCT (hardcoded), Product Group Type (Dynamic), MARKET (hardcoded) from Product Master. Product Group, Market Basket respectively based on Product Id.
    - **Product Master Id** will be populated as Product Dimension Id, Product Group Dimension Id, Market Dimension Id from Product Master. Product Group, Market Basket respectively based on Product Id.

- **Product Master Name** will be populated as Product Name, Product Group Name, Market Name from Product Master. Product Group, Market Basket respectively based on Product Id.

- **Sales Category Name** will be populated as Description from Map Code based on category code, with entity type as 'ACCOUNT' and Code type as 'SALES_CATEGORY_CD'.
- **TEAM NAME** will be populated from Team Master based on Team Id.
- **ORG_UNIT_LEVEL_NAME** will be populated from **Geography Hierarchy Frozen Mapping** based on **ORG_UNIT_ID** from Geography.
- **Customer details** (CUST_DIM_ID) will be populated from Customer Master based on CUST_ID.
- Below fields are directly populated from the source:

Target Table fields	Source fields
SALES_CATEGORY_CD	CHANNEL_ID
ALIGNMENT_TYPE	ALIGNMENT_TYPE
ORG_UNIT_ID	ORG_UNIT_ID
TEAM_DIM_ID	TEAM_ID
DATA_TYPE	DATA_TYPE
METRIC_VALUE	METRIC_VAL
PDRP_FLAG	PDRP_FLAG
MASTER_EXCLUSION_FLAG	MASTER_EXCLUSION_FLAG
PROCESSING_DATE	PROCESSING_DT

Sales Volume Address (VW_SEM_CUST_LEVEL_CREDITED_SALES_VOLUME_CUST_ADDR)**:**

- Customer Level credited sales Volume will be populated from SEM_CUSTOMER_LEVEL_CREDITED_SALES_VOLUME where history will also be maintained.
- **Address details** (ADDR_ALK_ID, ADDR_DIM_ID, ADDRESS_LINE_1, CITY, STATE, ZIP, ZIP_EXT, ADDRESS_TYPE) will be populated from Customer Master based on CUST_ID and Team Id.

4.9.10.3 TERRITORY LEVEL CREDITED SALES GOALS

<table>
<tr><th>S NO</th><th>Requirement</th></tr>
<tr><td>BRD-REQ-1
RAW-1</td><td>
Feed Details:
<table>
<tr><th>Feed ID</th><th>Feed Name</th><th>Feed Description</th><th>Frequency</th><th>Restatement</th></tr>
<tr><td>406</td><td>Territory_Level_Sales_WeeklyReporting</td><td>This feed contains credited Alignment of territory level sales for Weekly Reporting</td><td>Weekly (Tuesday)</td><td>Yes</td></tr>
<tr><td>407</td><td>Territory_Level_Sales_IC</td><td>This feed contains credited Territory level sales for the purpose of Incentive Compensation.</td><td>Monthly (10th of every month)</td><td>No</td></tr>
<tr><td>408</td><td>Territory_Level_Sales_GoalSetting</td><td>This feed contains credited Territory level sales for Goal Setting purpose</td><td>Weekly (Tuesday)</td><td>Yes</td></tr>
</table>
Subject Area: Credited Sales-Goals
Source: ZS
Markets: Addiction, Psychiatry
Products: Aristada, Vivitrol, Lybalvi and Competitors
Load strategy (Incremental/ Full) – Incremental
MDM Mastering (Yes/No) – No
</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>
Tables Covered –
<ul>
<li>RAW_SC_CREDITED_TERR_SALES_WKLY_RPT, RAW_SC_CREDITED_TERR_SALES_IC, RAW_SC_CREDITED_TERR_SALES_GOAL_STNG</li>
<li>CLNS_SC_CREDITED_TERR_SALES_WKLY_RPT, CLNS_SC_CREDITED_TERR_SALES_IC, CLNS_SC_CREDITED_TERR_SALES_GOAL_STNG</li>
<li>FCT_CREDITED_TERR_SALES</li>
<li>SEM_TERRITORY_LEVEL_CREDITED_SALES_METRIC, SEM_TERRITORY_LEVEL_CREDITED_SALES_VOLUME</li>
</ul>
</td></tr>
<tr><td>BRD-REQ-DWH-3</td><td>
<ul>
<li>Territory Level credited sales goals will be populated in the warehouse from Weekly Reporting, Incentive Compensation and Goal Setting feeds received from ZS, where History will also be maintained.</li>
<li>REPORT_TYPE will be defaulted based data received from respective sources as:
<ul>
<li>WEEKLY REPORT for Weekly Reporting</li>
<li>IC for Incentive Compensation</li>
<li>GOAL SETTING for Goal Setting</li>
</ul></li>
</ul>
</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>
<u>SEM_TERRITORY_LEVEL_CREDITED_SALES_METRIC:</u>
<ul>
<li>Territory Level credited sales goals will be populated in Semantic from Weekly Reporting, Incentive Compensation and Goal Setting feeds received from ZS, where History will also be maintained.</li>
<li>Records with Metric Id = NULL or Metric Id <> “Volume” will be considered.</li>
<li>METRIC_NAME and UNIT_NAME will be fetched from Metric Id. The first part of the Metric Id before the hyphen ('-') will be considered as METRIC_NAME and the part after hyphen ('-') will be the UNIT_NAME.</li>
</ul>
<table>
<tr><th>Metric Id</th><th>Metric_Name</th><th>Unit_Name</th></tr>
<tr><td>Volume-MOT</td><td>Volume</td><td>MOT</td></tr>
<tr><td>Volume-Unit</td><td>Volume</td><td>Unit</td></tr>
</table>
</td></tr>
</table>

- **Product details (**Product Master Level, Product Master Id, Product Master Name**)** will be populated from Product Master based on Product Id received from source.
    - **Product Master Level** will be either PRODUCT (hardcoded), Product Group Type (Dynamic), MARKET (hardcoded) from Product Master. Product Group, Market Basket respectively based on Product Id.
    - **Product Master Id** will be populated as Product Dimension Id, Product Group Dimension Id, Market Dimension Id from Product Master. Product Group, Market Basket respectively based on Product Id.
    - **Product Master Name** will be populated as Product Name, Product Group Name, Market Name from Product Master. Product Group, Market Basket respectively based on Product Id.
- **Sales Category Name** will be populated as Description from Map Code based on category code, with entity type as 'ACCOUNT' and Code type as 'SALES_CATEGORY_CD'.
- **TEAM NAME** is populated from Team Master based on Team Id.
- Lookup is done on **Geography Hierarchy Frozen Mapping** table to fetch **ORG_UNIT_LEVEL_NAME**, based on **ORG_UNIT_ID** from Geography table with Team Id from the source table.
- Below fields are directly populated from Employee Assignment List Extract source:

Target Table field	Source field
SALES_CATEGORY_CD	CHANNEL_ID
ALIGNMENT_TYPE	ALIGNMENT_TYPE
ORG_UNIT_ID	ORG_UNIT_ID
TEAM_DIM_ID	TEAM_ID
DATA_TYPE	DATA_TYPE
TIME_PERIOD	TIME_ID
METRIC_VALUE	METRIC_VAL
PROCESSING_DATE	PROCESSING_DT

SEM_TERRITORY_LEVEL_CREDITED_SALES_VOLUME:

- Territory Level credited sales goals will be populated in Semantic from Weekly Reporting, Incentive Compensation and Goal Setting feeds received from ZS, where History will also be maintained.
- Records with **Metric Id** ="**Volume"** will be considered.
- **UNIT_NAME** will be fetched from **Metric Id**. The part after hyphen('-') will be the UNIT_NAME.

Metric Id	Unit_Name
Volume-MOT	MOT
Volume-Unit	Unit

- **TIME_PERIOD** will be populated as Time Id (YYYYMMDD) received from the source.
    - Exception being when the value of Data Type is 'Demand_Sales_Monthly' then the date(DD) in the Time ID (YYYYMMDD) defaulted to first of the month.
- **Product details (**Product Master Level, Product Master Id, Product Master Name**)** will be populated from Product Master based on Product Id received from source.
    - **Product Master Level** will be either PRODUCT (hardcoded), Product Group Type (Dynamic), MARKET (hardcoded) from Product Master. Product Group, Market Basket respectively based on Product Id.
    - **Product Master Id** will be populated as Product Dimension Id, Product Group Dimension Id, Market Dimension Id from Product Master. Product Group, Market Basket respectively based on Product Id.
    - **Product Master Name** will be populated as Product Name, Product Group Name, Market Name from Product Master. Product Group, Market Basket respectively based on Product Id.
- **Sales Category Name** will be populated as Description from Map Code based on category code, with entity type as 'ACCOUNT' and Code type as 'SALES_CATEGORY_CD'.

	• **TEAM NAME** will be populated from Team Master based on Team Id. • **ORG_UNIT_LEVEL_NAME** will be populated from **Geography Hierarchy Frozen Mapping** based on **ORG_UNIT_ID** from Geography. • **Customer details** (CUST_DIM_ID) will be populated from Customer Master based on CUST_ID. • Below fields are directly populated from source:

Semantic Table field	Source field
SALES_CATEGORY_CD	CHANNEL_ID
ALIGNMENT_TYPE	ALIGNMENT_TYPE
ORG_UNIT_ID	ORG_UNIT_ID
TEAM_DIM_ID	TEAM_ID
DATA_TYPE	DATA_TYPE
METRIC_VALUE	METRIC_VAL
PROCESSING_DATE	PROCESSING_DT

4.9.11 DEMAND SALES PSYCHIATRY

S.No.	Requirement
BRD-REQ-SEM-1	Demand Sales Psychiatry is comprised of the Sales Data for Psychiatry market along with Affiliation, Address, Target, Segment, Tier, Decile and Live Alignment details for the customers in Psychiatry Market.
BRD-REQ-OBJ-2	**Tables Covered –** • SEM_DEMAND_SALES_PSYCHIATRY • RPT_DEMAND_SALES_PSYCHIATRY • VW_PSYCHIATRY_CP_TARGET • VW_PSYCHIATRY_SEGMENT • VW_PSYCHIATRY_TIER
BRD-REQ-SEM-3	• Demand Sales Psychiatry will contain sales data for Aristada and Lybalvi along with the competitor's data from SEM_DEMAND_SALES_COMPONENT. • **Child Account type** details (CHILD_ACCOUNT_TYPE, CHILD_ACCOUNT_SUB_TYPE, CHILD_ACCOUNT_SUPER_TYPE , CHILD_ACCOUNT_CLASS_TYPE and CHILD_ACCOUNT_SETTING_OF_CARE) will be populated from Customer Master based on Customer Dimension Id. • **CHILD_CUSTOMER_NAME** will be populated from Customer Master based on Customer Dimension Id along with below condition: ○ If Party Name will be like '%ENCUMBERED%' then concatenation of PARTY_NAME and ZIP. ○ If PDRP FLAG will be 'Y' then 'Restricted Prescriber' ○ If ACCOUNT_SUPER_TYPE will be 'HCO' and PDRP_FLAG as 'N' then PARTY_NAME ○ If MIDDLE_NAME will not be blank then concatenation of FIRST_NAME, MIDDLE_NAME and LAST_NAME. ○ Else, it will be populated as concatenation of FIRST_NAME and LAST_NAME. • **Address Details** (CHILD_CUSTOMER_ADDRESS, CHILD_CUSTOMER_CITY, CHILD_CUSTOMER_STATE and CHILD_CUSTOMER_ZIP) will be populated from Customer Master based on Customer Dimension ID and NULL if PDRP_FLAG will be 'Y'.

	• **CHILD_CUSTOMER_SPECIALTY** will be populated as PRIMARY_SPECIALTY from Customer Master based on Customer Dimension ID. • **CHILD_CUSTOMER_DECILE_ALAI** will be populated from SEM_CUSTOMER_DECILE based on Customer Dimension ID for latest available quarter with VAL_SCOPE as 'ALAI' and PERIOD_TYPE as 'MONTH' and PERIOD as 'R12' and DECILE_SCOPE as 'GROUP' and CUST_TYPE as 'IND' and DATA_TYPE as 'XPO' and SALES_UNITS as 'TRX' and PROJECTED_ENHANCED as 'PROJECTED' and FROZEN_CURRENT as 'FROZEN'. • **CHILD_CUSTOMER_DECILE_ORAL_BRANDED** will be populated from SEM_CUSTOMER_DECILE based on Customer Dimension ID for latest available quarter with VAL_SCOPE as 'Anti-Psych - Atypical branded oral' and PERIOD_TYPE as 'MONTH' and PERIOD as 'R12' and DECILE_SCOPE as 'MARKET' and CUST_TYPE as 'IND' and DATA_TYPE as 'XPO' and SALES_UNITS as 'TRX' and PROJECTED_ENHANCED as 'PROJECTED' and FROZEN_CURRENT as 'CURRENT'. • **CHILD_CUSTOMER_DECILE_ORAL** will be populated from SEM_CUSTOMER_DECILE based on Customer Dimension ID for latest available quarter with VAL_SCOPE as ' Anti-Psych - Atypical oral' and PERIOD_TYPE as 'MONTH' and PERIOD as 'R12' and DECILE_SCOPE as 'MARKET' and CUST_TYPE as 'IND' and DATA_TYPE as 'XPO' and SALES_UNITS as 'TRX' and PROJECTED_ENHANCED as 'PROJECTED' and FROZEN_CURRENT as 'CURRENT'. • **Tier details** (CHILD_CUSTOMER_ARISTADA_TIER and CHILD_CUSTOMER_LYBALVI_TIER) will be populated from Customer Tier based on Customer Dimension Id for the respective products (Aristada and Lybalvi). • **Segment details** (CHILD_CUSTOMER_ARISTADA_BEHAVIORAL_SEGMENT and CHILD_CUSTOMER_LIKELY_ADOPTER_FLAG) will be populated from SEM_CUSTOMER_SEGMENTATION based on Customer Dimension Id for the respective product segments (ARISTADA BEHAVORIAL SEGMENT -1 and Lybalvi Likely Adopter). • **Call Plan target details** (CHILD_CUSTOMER_ARISTADA_CP_TARGET, CHILD_CUSTOMER_LYBALVI_SCZ_CP_TARGET, CHILD_CUSTOMER_LYBALVI_BP_CP_TARGET and CHILD_CUSTOMER_CP_TARGET) will be fetched from SEM_CALL_PLAN based on Customer Dimension Id for the respective product and indication combination till current quarter. • **Target details** (CHILD_CUSTOMER_ARISTADA_BRAND_TARGET, CHILD_CUSTOMER_LYBALVI_SCZ_BRAND_TARGET, CHILD_CUSTOMER_LYBALVI_BP_BRAND_TARGET and CUSTOMER_BRAND_TARGET) will be fetched from SEM_CUSTOMER_TARGET based on Customer Dimension Id for the respective product and indication combination. • **CONCATENATE_BRAND_TARGET** will be populated as concatenation of CHILD_CUSTOMER_ARISTADA_BRAND_TARGET, CHILD_CUSTOMER_LYBALVI_SCZ_BRAND_TARGET and CHILD_CUSTOMER_LYBALVI_BP_BRAND_TARGET • **Alignment Details** (TERRITORY_ID, TERRITORY_NAME, DISTRICT_ID, DISTRICT_NAME, REGION_ID and REGION_NAME) will be populated from SEM_CUSTOMER_POSITION_GEOGRAPHY based on ALK_ID, TEAM_DIM_ID and PRODUCT_MASTER_NAME with ALIGNMENT_TYPE as 'LIVE' and TEAM_NAME as 'PSYCHIATRY'. • **CHANNEL, PAYER_GROUP, PAYER and PLAN** will be populated as PLAN_TYPE_ALKS_CHANNEL_ROLLUP, GRAND_PARENT_NAME, PARENT_NAME and ENTITY_NAME respectively, from SEM_PLAN_MASTER based on SOURCE_PLAN_ID with ENTITY_TYPE as 'PLAN' and PARENT_ENTITY_TYPE as 'PAYER ENTITY'. • **PRODUCT_GROUP** will be populated as RPT_PROD_GROUP from SEM_PRODUCT_GROUP based on PROD_DIM_ID. • **BRAND** will be populated from SEM_DEMAND_SALES_COMPONENT. ○ For Product Group "Typical LAI", Brand should be populated as **"TYPICAL LAI".** ○ For Product Group **"ATYPICAL GENERIC LAI"**, both brands RISPERDAL CONSTA and RISPERIDONE should be grouped together as RISPERIDONE leveraging the SEM PRODUCT GROUP table. • **STRENGTH** will be populated from SEM_PRODUCT_MASTER based on PROD_DIM_ID. • **UNITS, MOT,** and **VOLUME_UNITS** will be populated as below: ○ UNITS = UNITS * COALESCE(SPLIT_FACTOR,1) ○ MOT = MOT * COALESCE(SPLIT_FACTOR,1) ○ VOLUME_UNITS = VOLUME_UNITS * COALESCE(SPLIT_FACTOR,1)

	SPLIT_FACTOR will be fetched from VW_SEM_CUSTOMER_TERRITORY_SPLIT based on ALK_ID, ALIGNMENT_TYPE, TEAM_DIM_ID and TERRITORY_ID. • **PARENT_ALK_ID** will be populated as per below logic: ○ 'Restricted Prescriber' if PDRP_FLAG will be 'Y' and ACCOUNT_SUPER_TYPE as 'IND', which will be fetched from CUSTOMER MASTER based on Customer Dimension Id. ○ It will be populated as ALK_ID from SEM_DEMAND_SALES_COMPONENT if the CUST_DIM_ID will not be in CUSTOMER AFFLIATION or ACCOUNT_SUPER_TYPE from CUSTOMER MASTER will be 'HCO'. ○ Else, it will be populated as PARENT_ALK_ID from CUSTOMER AFFLIATION based on Customer Dimension Id. • **PARENT_ACCOUNT_TYPE and PARENT_ACCOUNT_SUB_TYPE** will be NULL if PDRP_FLAG and ACCOUNT_SUPER_TYPE will be 'Y' and 'IND' respectively, else, will be populated as ACCOUNT_TYPE and ACCOUNT_SUB_TYPE from CUSTOMER MASTER based on CUST_DIM_ID. CUST_DIM_ID will be derived as per below logic: ○ If the CUST_DIM_ID will not be in CUSTOMER AFFLIATION or ACCOUNT_SUPER_TYPE from CUSTOMER MASTER will be 'HCO' then from SEM_DEMAND_SALES_COMPONENT. ○ Else, PARENT_CUST_DIM_ID from CUSTOMER AFFLIATION based on CUST_DIM_ID and TEAM_DIM_ID. • **PARENT_CUSTOMER_NAME** will be populated from Customer Master based on Customer Dimension Id along with below condition: ○ If Party Name will be like '%ENCUMBERED%' then concatenation of PARTY_NAME and ZIP. ○ If PDRP FLAG and ACCOUNT_SUPER_TYPE will be 'Y' and 'IND' respectively, then 'Restricted Prescriber'. ○ If ACCOUNT_SUPER_TYPE will be 'HCO' then PARTY_NAME ○ If MIDDLE_NAME will not be blank then concatenation of FIRST_NAME, MIDDLE_NAME and LAST_NAME. ○ Else, it will be populated as concatenation of FIRST_NAME and LAST_NAME. CUST_DIM_ID will be derived as per below logic: ○ If the CUST_DIM_ID will not be in CUSTOMER AFFLIATION or ACCOUNT_SUPER_TYPE from CUSTOMER MASTER will be 'HCO' then from SEM_DEMAND_SALES_COMPONENT. ○ Else, PARENT_CUST_DIM_ID from CUSTOMER AFFLIATION based on CUST_DIM_ID and TEAM_DIM_ID. • **TIME_PERIOD_GROUP** will serve to determine if a specific week or month falls within the preceding or ongoing rolling periods of 1, 3, 6, 12, or 13 weeks or months. It will also ascertain whether the given week or month falls within the preceding and current quarter and year. • **Parent Address Details** (PARENT_CUSTOMER_ADDRESS, PARENT_CUSTOMER_CITY, PARENT_CUSTOMER_STATE and PARENT_CUSTOMER_ZIP) will be NULL if PDRP_FLAG and ACCOUNT_SUPER_TYPE will be 'Y' and 'IND' respectively, else, will be populated as ADDRESS_LINE_1, CITY, STATE and ZIP from SEM_CUSTOMER_ADDRESS based on TEAM_DIM_ID and CUST_DIM_ID. CUST_DIM_ID will be derived as per below logic: ○ If the CUST_DIM_ID will not be in CUSTOMER AFFLIATION or ACCOUNT_SUPER_TYPE from CUSTOMER MASTER will be 'HCO' then from SEM_DEMAND_SALES_COMPONENT. ○ Else, PARENT_CUST_DIM_ID from CUSTOMER AFFLIATION based on CUST_DIM_ID and TEAM_DIM_ID. • **GRANDPARENT_ALK_ID** will be populated as per below logic: ○ 'Restricted Prescriber' if PDRP_FLAG will be 'Y' and ACCOUNT_SUPER_TYPE as 'IND', which will be fetched from CUSTOMER MASTER based on CUST_DIM_ID. ○ It will be populated as ALK_ID from SEM_DEMAND_SALES_COMPONENT if the CUST_DIM_ID will not be in CUSTOMER AFFLIATION. ○ Else, it will be populated as PARENT_ALK_ID from CUSTOMER AFFLIATION based on Customer Dimension Id. • **GRANDPARENT_CUSTOMER_NAME** will be populated from Customer Master based on Customer Dimension Id along with below condition: ○ If Party Name will be like '%ENCUMBERED%' then concatenation of PARTY_NAME and ZIP.

<table>
<tr>
<td></td>
<td>
<ul>
<li>If PDRP FLAG and ACCOUNT_SUPER_TYPE will be ‘Y’ and ‘IND’ respectively, then 'Restricted Prescriber'.</li>
<li>If ACCOUNT_SUPER_TYPE will be 'HCO' then PARTY_NAME</li>
<li>If MIDDLE_NAME will not be blank then concatenation of FIRST_NAME, MIDDLE_NAME and LAST_NAME.</li>
<li>Else, it will be populated as concatenation of FIRST_NAME and LAST_NAME.</li>
</ul>
CUST_DIM_ID will be derived as per below logic:
<ul>
<li>If the CUST_DIM_ID will not be in CUSTOMER AFFLIATION then it will be fetched from SEM_DEMAND_SALES_COMPONENT.</li>
<li>Else, PARENT_CUST_DIM_ID from CUSTOMER AFFLIATION based on CUST_DIM_ID and TEAM_DIM_ID.</li>
</ul>
<ul>
<li>GRANDPARENT_ACCOUNT_TYPE will be NULL if PDRP_FLAG and ACCOUNT_SUPER_TYPE will be ‘Y’ and ‘IND’ respectively, else, will be populated as ACCOUNT_TYPE from CUSTOMER MASTER based on CUST_DIM_ID.</li>
<li>ACCESSIBILITY_GROUP will be populated from SEM_CUSTOMER_ACCESSIBILITY_GROUP table based on ALK_ID for team Psychiatry (Team Dim Id - 1).
<ul>
<li>ACCESSIBILITY_GROUP has below values
<ol>
<li>NO ACCESS</li>
<li>LOW ACCESS</li>
<li>ACCESSIBLE</li>
<li>UNKNOWN</li>
</ol>
</li>
<li>If any customers are present on the Demand Sales Psychiatry table but not included in the accessibility group table, they should also be flagged as Unknown.</li>
</ul>
</li>
<li>Below fields will be directly populated from source:
<table>
<tr><th>Target Field</th><th>Source Field</th></tr>
<tr><td>CHILD_ALK_ID</td><td>ALK_ID</td></tr>
<tr><td>CHILD_SOURCE_ID</td><td>SOURCE_ID</td></tr>
<tr><td>SOURCE</td><td>SOURCE_1</td></tr>
<tr><td>SALES_CATEGORY</td><td>SALES_CATEGORY_NAME</td></tr>
<tr><td>PRODUCT_NAME</td><td>PRODUCT_NAME</td></tr>
<tr><td>WEEK</td><td>WEEK</td></tr>
<tr><td>MONTH</td><td>MONTH</td></tr>
<tr><td>TYPE</td><td>TYPE</td></tr>
</table>
</li>
</ul>
</td>
</tr>
<tr>
<td>BRD-REQ-RPT-3</td>
<td>
<ul>
<li>RPT_DEMAND_SALES_PSYCHIATRY will contain rolling 27-month sales data for Aristada and Lybalvi along with the competitor’s data from SEM_DEMAND_SALES_PSYCHIATRY.</li>
<li>CONCATENATED_TIER will be populated as concatenation of CHILD_CUSTOMER_ARISTADA_TIER and CHILD_CUSTOMER_LYBALVI_TIER.</li>
<li>CONCATENATED_SEGMENT will be populated as concatenation of CHILD_CUSTOMER_ARISTADA_BEHAVIORAL_SEGMENT and CHILD_CUSTOMER_LIKELY_ADOPTER_FLAG.</li>
<li>CONCATENATED_CP_TARGET will be populated as concatenation of CHILD_CUSTOMER_ARISTADA_CP_TARGET, CHILD_CUSTOMER_LYBALVI_SCZ_CP_TARGET and CHILD_CUSTOMER_LYBALVI_BP_CP_TARGET.</li>
</ul>
</td>
</tr>
</table>

- **USERPERMISSIONS** will be populated from USER_PERMISSION_LEVEL_UP based on DISTRICT_ID.
- Below fields will be populated directly from source:

Target Field	Source Field
CHILD_ALK_ID	CHILD_ALK_ID
CHILD_SOURCE_ID	CHILD_SOURCE_ID
CHILD_ACCOUNT_TYPE	CHILD_ACCOUNT_TYPE
CHILD_ACCOUNT_SUB_TYPE	CHILD_ACCOUNT_SUB_TYPE
CHILD_ACCOUNT_SUPER_TYPE	CHILD_ACCOUNT_SUPER_TYPE
CHILD_ACCOUNT_CLASS_TYPE	CHILD_ACCOUNT_CLASS_TYPE
CHILD_ACCOUNT_SETTING_OF_CARE	CHILD_ACCOUNT_SETTING_OF_CARE
CHILD_CUSTOMER_NAME	CHILD_CUSTOMER_NAME
CHILD_CUSTOMER_ADDRESS	CHILD_CUSTOMER_ADDRESS
CHILD_CUSTOMER_CITY	CHILD_CUSTOMER_CITY
CHILD_CUSTOMER_STATE	CHILD_CUSTOMER_STATE
CHILD_CUSTOMER_ZIP	CHILD_CUSTOMER_ZIP
CHILD_CUSTOMER_SPECIALTY	CHILD_CUSTOMER_SPECIALTY
CHILD_CUSTOMER_DECILE_ALAI	CHILD_CUSTOMER_DECILE_ALAI
CHILD_CUSTOMER_DECILE_ORAL_BRANDED	CHILD_CUSTOMER_DECILE_ORAL_BRANDED
CHILD_CUSTOMER_DECILE_ORAL	CHILD_CUSTOMER_DECILE_ORAL
CHILD_CUSTOMER_ARISTADA_TIER	CHILD_CUSTOMER_ARISTADA_TIER
CHILD_CUSTOMER_LYBALVI_TIER	CHILD_CUSTOMER_LYBALVI_TIER
CHILD_CUSTOMER_ARISTADA_BEHAVIORAL_SEGMENT	CHILD_CUSTOMER_ARISTADA_BEHAVIORAL_SEGMENT
CHILD_CUSTOMER_LIKELY_ADOPTER_FLAG	CHILD_CUSTOMER_LIKELY_ADOPTER_FLAG
CHILD_CUSTOMER_CP_TARGET	CHILD_CUSTOMER_CP_TARGET
PARENT_ALK_ID	PARENT_ALK_ID
PARENT_ACCOUNT_TYPE	PARENT_ACCOUNT_TYPE
PARENT_ACCOUNT_SUB_TYPE	PARENT_ACCOUNT_SUB_TYPE
PARENT_CUSTOMER_NAME	PARENT_CUSTOMER_NAME
PARENT_CUSTOMER_ADDRESS	PARENT_CUSTOMER_ADDRESS
PARENT_CUSTOMER_CITY	PARENT_CUSTOMER_CITY
PARENT_CUSTOMER_STATE	PARENT_CUSTOMER_STATE
PARENT_CUSTOMER_ZIP	PARENT_CUSTOMER_ZIP
GRANDPARENT_ALK_ID	GRANDPARENT_ALK_ID
GRANDPARENT_CUSTOMER_NAME	GRANDPARENT_CUSTOMER_NAME
GRANDPARENT_ACCOUNT_TYPE	GRANDPARENT_ACCOUNT_TYPE
TERRITORY_ID	TERRITORY_ID
TERRITORY_NAME	TERRITORY_NAME
DISTRICT_ID	DISTRICT_ID

		DISTRICT_NAME	DISTRICT_NAME
		REGION_ID	REGION_ID
		REGION_NAME	REGION_NAME
		SOURCE	SOURCE
		SALES_CATEGORY	SALES_CATEGORY
		CHANNEL	CHANNEL
		PAYER_GROUP	PAYER_GROUP
		PAYER	PAYER
		PLAN	PLAN
		PRODUCT_GROUP	PRODUCT_GROUP
		BRAND	BRAND
		WEEK	WEEK
		MONTH	MONTH
		MAX_DATE	MAX_DATE
		ACCESSIBILITY_GROUP	ACCESSIBILITY_GROUP
	• **VW_PSYCHIATRY_CP_TARGET** will contain all the Call Plan Targets for Aristada and Lybalvi from SEM_DEMAND_SALES_PSYCHIATRY. • **VW_PSYCHIATRY_SEGMENT** will contain all the Segment information for Aristada and Lybalvi from SEM_DEMAND_SALES_PSYCHIATRY. • **VW_PSYCHIATRY_TIER** will contain all the Tier information for Aristada and Lybalvi from SEM_DEMAND_SALES_PSYCHIATRY.		

4.9.12 EX-FACTORY

4.9.12.1 EX-FACTORY SALES

S NO	Requirement
BRD-REQ-RAW-1	**Feed Id:** 99 **Feed Name:** ics_shipment_ **Feed Description:** This feed contains sales from the manufacturer to its trade partners and other direct purchasers. **Source**: ICS **Subject Area:** Sales **Markets:** Addiction, Psychiatry **Products:** Aristada, Lybalvi, Vivitrol. **Load strategy (Incremental/ Full) –** Incremental **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** NA **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	**Tables Covered –** • RAW_ICS_SALES • CLNS_ICS_SALES

<table>
<tr><td></td><td>
<ul>
<li>FCT_EX_FACTORY_SALES</li>
<li>SEM_EX_FACTORY</li>
<li>VW_ICS_SALES</li>
</ul>
</td></tr>
<tr><td>BRD-REQ-DWH-3</td><td>
<ul>
<li>Incremental Sales data for all brands will be loaded in the Warehouse daily where History will also be maintained.
<ul>
<li>Historical Cardinal Sales data (Apr’09 – Apr’15) will be populated from static table (CLNS_CARD_SALES).</li>
</ul>
</li>
<li>Source will be defaulted as ‘CARD’ for Historical Cardinal data and ‘ICS’ for sales received from ICS source.</li>
<li>INVOICE_DT_DIM_ID, TRANS_DT_DIM_ID, SHIP_DT_DIM_ID and ORDER_DT_DIM_ID will be populated as Calendar ID from Calendar dimension based on Invoice Date, Transaction Date, Shipped Date and Order Date respectively.</li>
<li>INVOICE_DT_SPLIT_WK_ID and SHIP_DT_SPLIT_WK_ID will be populated as Id from Split Week Calendar Dimension based on Invoice Date and Shipped Date respectively.</li>
<li>Customer Details (BILL_TO_CUST_DIM_ID and SHIP_TO_CUST_DIM_ID) will be populated from Customer Dimension and Customer Identifier based on BILL_TO_NUM and SHIP_TO_NUM, with source as ‘ICS’ or ‘CARD’.</li>
<li>Product details will be populated from Product dimension based on NDC.</li>
</ul>
</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>
<ul>
<li>Semantic (SEM_EX_FACTORY) will include complete Sales data shared by ICS along with Historical data from CARD.
<ul>
<li>Historical Cardinal Sales data (Apr’09 – Apr’15) will be populated from static table (CLNS_CARD_SALES).</li>
</ul>
</li>
<li>Source will be defaulted as ‘CARD’ for Historical Cardinal data and ‘ICS’ for sales received from ICS source.</li>
<li>Customer Details (BILLTOCUSTOMER_ALKID, BILLTOCUSTOMER_NAME, BILL_TO_CUST_DIM_ID, SHIP_TO_CUST_DIM_ID, SHIPTOCUSTOMER_ALKID and SHIPTOCUSTOMER_NAME) will be populated from Customer Master based on BILL_TO_NUM and SHIP_TO_NUM, with source as ‘ICS’.</li>
<li>Address Details for Manufacturer and Customer will be populated from Customer Address based on BILL_TO_NUM and SHIP_TO_NUM, with source as ‘ICS’ or ‘CARD’ and Team as ‘Houston Primary’.</li>
<li>Product details will be populated from Product Master based on NDC.</li>
<li>Shipped Date Day, Shipped Date Week, Invoice Date Day, Invoice Date Week, Order Date and Transaction Date will be populated from Sem Calendar table based on Shipped Date, Invoice Date, Order Date and Transaction Date respectively.</li>
<li>Shipped Split Week Date, Shipped Date Month, Invoice Split Week Date, and Invoice Date Month will be populated as Split Weekend Date and Calendar Month Start Date from Split Week Calendar based on Shipped Date and Invoice Date respectively.</li>
<li>Transaction Type will be populated as Description from Map Code table based on TRANS_TYPE_CD with ENTITY_TYPE as ‘ICS’ and CODE_TYPE as ‘TRANSACTION_TYPE’.</li>
<li>Reason Type will be populated as Description from Map Code table based on REASON_CD with ENTITY_TYPE as ‘ICS’ and CODE_TYPE as ‘REASON_CD’.</li>
<li>Order Type will be populated as Description from Map Code table based on REASON_TYPE_CD with ENTITY_TYPE as ‘ICS’ and CODE_TYPE as ‘ORDER_CD’.</li>
<li>View (VW_ICS_SALES) will also contain the complete data shared by ICS.</li>
<li>Below fields are directly populated from source:
<table>
<tr><th>Semantic Table Field</th><th>Source Field</th></tr>
<tr><td>INVOICE_NUMBER</td><td>INVOICE_NUM</td></tr>
<tr><td>INVOICE_LINE_NUMBER</td><td>INVOICE_LINE_NUM</td></tr>
<tr><td>ORDER_NUMBER</td><td>ORDER_NUM</td></tr>
<tr><td>ORDER_TYPE_CD</td><td>ORDER_TYPE_CD</td></tr>
<tr><td>LOT_NUMBER</td><td>LOT_NUM</td></tr>
<tr><td>TRANSACTION_TYPE_CD</td><td>TRANSACTION_TYPE</td></tr>
<tr><td>CONTRACT_NUMBER</td><td>CONTRACT_NUM</td></tr>
</table>
</li>
</ul>
</td></tr>
</table>

		CONTRACT_NAME	CONTRACT_NAME
		UOM	UOM
		REASON_CD	REASON_CD
		DISCOUNT_TYPE	DISCOUNT_TYPE
		DISCOUNT_AMOUNT	DISCOUNT_AMT
		TOTAL_DISCOUNT	TOTAL_DISCOUNT
		ORDER_PRICE_DISCOUNT	ORDER_PRICE_DISCOUNT
		UNITS	QTY
		NET_PRICE	NET_PRICE
		TOTAL_NET_AMOUNT	NET_AMT
		TOTAL_GROSS_AMOUNT	TOTAL_GROSS_AMT
		ADDITIONAL_CHARGES	ADDITIONAL_CHARGES
		INVOICE_TOTAL_AMOUNT	INVOICE_TOTAL_AMT

4.9.12.2 INVENTORY REPORTING FOR EX-FACTORY

BRD-REQ-SEM-4

- Semantic table (SEM_EX_FACTORY_INV_RPT) will include Sales data for inventory reporting shared by ICS. Sales data will be populated from Jul'21 onwards for Order Type 'ED', 'SC', 'SJ', 'SR' or 'SO'.
- **Customer Details (**CUSTOMER_NAME and TYPE**)** will be populated from XREF_DIRECT_ACCOUNTS_3PL_MAP based on BILL_TO_NUM.
- **Product details** (PRODUCT_NAME, AL_STRENGTH and BRAND_NAME) will be populated from Product Master based on NDC.
- **Calendar ID** will be populated from Sem Calendar table based on Invoice Date.
- **STANDARDIZED_PARTNER_NAME** will be from XREF_852_DIRECT_ACCOUNTS_LOOKUP table based on CUSTOMER_NAME which will be derived from XREF_DIRECT_ACCOUNTS_3PL_MAP based on BILL_TO_NUM.
  - XREF_DIRECT_ACCOUNTS_3PL_MAP provides Wholesaler to SD mapping.
- Below fields are directly populated from source:

Semantic Table Field	Source Field
NDC11	NDC11
INVOICE_DT	INVOICE_DT
QTY	QTY

4.9.12.3 TABLEAU CURRENT GOAL ADDICTION

BRD-REQ-OBJ-1	• CLNS_ICS_SALES • XREF_SOPS_GOALS
BRD-REQ-TABLEAU-2	**Downstream Consumption –** **Markets:** Addiction

	Products: Vivitrol **Dashboard Refresh Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **Dashboard Refresh Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** NA **Owner**: Phylis Fu
BRD-REQ-RPT-3	• This view is based on the source table CLNS_ICS_SALES for Vivitrol. • **TimeFrame** will be defauted as 'Monthly', 'MonthlyPrevious', 'Quarterly',' Yearly', 'YearlyPrevious' based on time period leveraged for aggregation. • **CURRENTDATE** will be populated as maximum of COMPLETE_DT from DIM_CALENDAR based on SHIPPED_DT • **GoalType** will be populated from XREF_SOPS_GOALS based on Effective End Date for the following Goal Types - ('Budget (EXF)', 'Budget (EXF) MOT', 'Flash 3', 'Flash 3 MOT', 'Flash 6', 'Flash 6 MOT', 'Flash 0', 'Flash 0 MOT', 'Flash 9', 'Flash 9 MOT') • **GoalValuePercent** will be populated as (Goal Value/ Sales days in a month) * Sales days.

4.9.12.4 TABLEAU CURRENT GOAL PSYCHIATRY

BRD-REQ-OBJ-1	• CLNS_ICS_SALES • XREF_SOPS_GOALS
BRD-REQ-TABLEAU-2	**Downstream Consumption –** **Markets:** Psychiatry **Products:** Aristada, Initio **Dashboard Refresh Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **Dashboard Refresh Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** NA **Owner**: Phylis Fu
BRD-REQ-RPT-3	• This view is based on the source table CLNS_ICS_SALES for Aristada and Initio. • **TimeFrame** will be defauted as 'Monthly', 'MonthlyPrevious', 'Quarterly',' Yearly', 'YearlyPrevious' based on time period leveraged for aggregation. • **CURRENTDATE** will be populated as maximum of COMPLETE_DT from DIM_CALENDAR based on SHIPPED_DT • **GoalType** will be populated from XREF_SOPS_GOALS based on Effective End Date for the following Goal Types - ('Budget (EXF)', 'Budget (EXF) MOT', 'Flash 3', 'Flash 3 MOT', 'Flash 6', 'Flash 6 MOT', 'Flash 0', 'Flash 0 MOT', 'Flash 9', 'Flash 9 MOT') • **GoalValuePercent** will be populated as (Goal Value/ Sales days in a month) * Sales days. • **ProductStrength** will be populated by deriving strength from Product Name field from XREF_SOPS_GOALS • For all the time frames, GoalValuePercent will be aggregated on Goal types and ProductStrength will be populated as 'All' along with GoalValuePercent being populated separately for each Goal Type

4.9.12.5 TABLEAU CURRENT GOAL ANTI-PSYCHIATRY

BRD-REQ-OBJ-1	• CLNS_ICS_SALES • XREF_SOPS_GOALS
BRD-REQ-TABLEAU-2	**Downstream Consumption –** **Markets:** Anti Psychiatry **Products:** Lybalvi **Dashboard Refresh Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **Dashboard Refresh Day/ Date (in case of Weekly/ Monthly/ Quarterly)**- NA **Owner**: Phylis Fu
BRD-REQ-RPT-3	• This view is based on the source table CLNS_ICS_SALES for Lybalvi. • **TimeFrame** will be defauted as 'Monthly', 'MonthlyPrevious', 'Quarterly',' Yearly', 'YearlyPrevious' based on time period leveraged for aggregation. • **CURRENTDATE** will be populated as maximum of COMPLETE_DT from DIM_CALENDAR based on SHIPPED_DT • **GoalType** will be populated from XREF_SOPS_GOALS based on Effective End Date for the following Goal Types - ('Budget (EXF)', 'Budget (EXF) MOT', 'Flash 3', 'Flash 3 MOT', 'Flash 6', 'Flash 6 MOT', 'Flash 0', 'Flash 0 MOT', 'Flash 9', 'Flash 9 MOT') • **GoalValuePercent** will be populated as (Goal Value/ Sales days in a month) * Sales days. • **ProductStrength** will be populated deriving strength from Product Name field from XREF_SOPS_GOALS • For all the time frames, GoalValuePercent will be aggregated on Goal types and ProductStrength will be populated as 'All' along with GoalValuePercent being populated separately for each Goal Type

4.9.12.6 EX-FACTORY RETURNS

BRD-REQ-RAW-1	**Feed Ids:** 100 **Feed Name:** ICS_RETURNS **Feed Description:** This feed contains returned product information such as billing information, quantity information etc. The data is received directly from ICS. **Source:** ICS **Subject Area:** ICS Returns **Markets:** Psychiatry, Addiction **Products:** Aristada, Lybalvi, Vivitrol **Load strategy (Incremental/ Full) -** Incremental **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)**- NA **MDM Mastering (Yes/No) –** No

<table>
<tr><td>BRD-REQ-OBJ-2</td><td>

- RAW_ICS_RETURNS
- CLNS_ICS_RETURNS
- FCT_RETURNS
- VW_ICS_RETURNS

</td></tr>
<tr><td>BRD-REQ-DWH-3</td><td>

- Incremental return data for all brands will be loaded in warehouse daily.
- **SOURCE** will be defaulted as 'ICS'.
- **Customer Details (**BILL_TO_CUST_DIM_ID and SHIP_TO_CUST_DIM_ID**)** will be populated from Customer Dimension and Customer Identifier based on BILL_TO_NUM and SHIP_TO_NUM, with source as 'ICS' and IS_ACTIVE as 'Y'.
- **DEBIT_MEMO_DT_DIM_ID, RGA_CREATE_DT_DIM_ID, RETURN_CREATE_DT_DIM_ID, RETURN_ITEMIZED_DATE_DIM_ID, RETURN_APPROVED_DT_DIM_ID, AR_TRANS_DT_DIM_ID and PRODUCT_EXPIRATION_DT_DIM_ID** will be populated as Calendar ID from Calendar dimension based on DEBIT_MEMO_DT, RGA_ID_CREATED_DT, RETURN_CREATED_DT, RETURN_ITEMIZED_DT, RETURN_APPROVED_DT, AR_TRANSACTION_DT and PRODUCT_EXPIRATION_DT.
- **Product details** will be populated from Product dimension based on NDC.
- Below fields are directly populated from source:

Source Fields (CLNS)	DWH Fields
BILL_TO_NUM	BILL_TO_NUM
SHIP_TO_NUM	SHIP_TO_NUM
INDIRECT_CUST_NAME	INDIRECT_CUST_NAME
INDIRECT_CUST_ADDRESS1	INDIRECT_CUST_ADDR1
INDIRECT_CUST_ADDRESS2	INDIRECT_CUST_ADDR2
INDIRECT_CUST_ADDRESS3	INDIRECT_CUST_ADDR3
INDIRECT_CUST_CITY	INDIRECT_CUST_CITY
INDIRECT_CUST_STATE	INDIRECT_CUST_STATE
INDIRECT_CUST_ZIP	INDIRECT_CUST_ZIP
TRANSACTION_TYPE	TRANS_TYPE
ORDER_TYPE	ORDER_TYPE_CD
REASON_CD	REASON_CD
PO_NUM	PO_NUM
DEBIT_MEMO_NUM	DEBIT_MEMO_NUM
RGA_ID	RGA_ID
ERP_ORDER_NUM	ERP_ORDER_NUM
ERP_ORDER_LINE_NUM	ERP_ORDER_LINE_NUM
AR_TRANSACTION_NUM	AR_TRANS_NUM
PRODUCT_BAR_CODE	PRODUCT_BARCODE
LOT_NUM	LOT_NUM
INVENTORY_RETURN_QUANTITY	INVENOTRY_RETURN_QTY
UOM	UOM

</td></tr>
</table>

		IS_DAMAGED	IS_DAMAGED
		RETURNABLE_FOR_CREDIT	RETURNABLE_FOR_CREDIT
		FINANCIAL_RETURN_QUANTITY	FINANCIAL_RETURN_QTY
		CREDIT_AMOUNT_PER_UNIT	CREDIT_AMT_PER_UNIT
		FULL_CREDIT_AMOUNT	FULL_CREDIT_AMT
		CCR_NUM	CCR_NUM
BRD-REQ-SEM-3	• View will be created in SEM layer (VW_ICS_RETURNS) containing complete return data shared by ICS.		

4.10 ACTIVITY

Activity data is received from the following Sources in CDE system-

1. **Marketo** – Leads, Partition, Email Campaigns, Campaigns, Activity Type and Leads Activity
2. **AHM and Veeva** - Program Details, Attendee Detail, Speaker Count and Call Data
3. **Reality Engineering** – Conference Data

4.10.1 MARKETO

4.10.1.1 LEADS

BRD-REQ-EXN-1	**Data Description:** This feed contains Leads data from Marketo. **Subject Area:** Activity **Source:** Marketo (Leads) **Markets:** Addiction, Psychiatry, Anti-Psych **Products:** Vivitrol, Aristada, Lybalvi **Load strategy (Incremental/ Full) –** Full **Restatement (Yes/ No):** No **Replication Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Weekly (Friday) **MDM Mastering (Yes/No) –** Yes
BRD-REQ-OBJ-2	• CDE_EXN.MARKETO_LEADS • CDE_DWH.DIM_MARKETO_LEADS • CDE_SEM.SEM_MARKETO_LEADS
BRD-REQ-DWH-3	Leads data consisting of Leads engagement, associated prescriber and email and address details will be captured from the exchange layer. Below fields are populated from their respective dimension tables. • **ALK_ID** will be fetched from Customer Identifier Dimension for active Marketo Leads. • **Address details** for Psychiatry and Addiction teams will be fetched from Address Dimension based on ALK_ID. • **Partition Details** are fetched from Marketo Partitions based on PARTITION_ID
BRD-REQ-SEM-4	Leads data consisting of Leads engagement, associated prescriber and email and address details are captured from exchange layer. Below fields are populated from their respective dimension tables. • **ALK_ID** will be fetched from Customer Identifier Dimension for active Marketo Leads.

- **Address details** for Psychiatry and Addiction teams will be fetched from Address Dimension based on ALK_ID.
- **Partition Details** will be fetched from Marketo Partitions
- Below fields are directly mapped from Maketo Leads source.

Source Fields (EXN)	DIM Marketo Leads
LIST_ID	LIST_ID
LEAD_ID	LEAD_ID
PARTITION_DIM_ID	PARTITION_DIM_ID
ORIGINAL_SRC_TYPE	ORIGINAL_SRC_TYPE
EMAIL	EMAIL
SRC_EMAIL	SRC_EMAIL
LEAD_TYPE_CD	LEAD_TYPE_CD
CALLED_ON_WITHIN_12_MONTHS	CALLED_ON_WITHIN_12_MONTHS
SEGMENTATION_ARISTADA	SEGMENTATION_ARISTADA
SEGMENTATION_VIVITROL_OUD	SEGMENTATION_VIVITROL_OUD
SEGMENTATION_VIVITROL_ALC	SEGMENTATION_VIVITROL_ALC
SEGMENTATION_3831	SEGMENTATION_3831
UNSUBSCRIBED	UNSUBSCRIBED
EMAIL_SUSPENDED	EMAIL_SUSPENDED
PRESCRIBER_INDICATOR	PRESCRIBER_INDICATOR
PROVIDER_TYPE_DESC	PROVIDER_TYPE_DESC
PROVIDER_SUB_TYPE_DESC	PROVIDER_SUB_TYPE_DESC
INDIVIDUAL_STATUS	INDIVIDUAL_STATUS
CRIMINAL_JUSTICE	CRIMINAL_JUSTICE
VETERANS_AFFAIRS	VETERANS_AFFAIRS
ARISTADA_PRESCRIBER_INDICATOR	ARISTADA_PRESCRIBER_INDICATOR
PRIOR_ARISTADA_SEGMENTATION	PRIOR_ARISTADA_SEGMENTATION
LEAD_CREATED_DT	LEAD_CREATED_DT
LEAD_UPDATED_DT	LEAD_UPDATED_DT
LOAD_DT	LOAD_DT
TELE_MEDICINE_ARISTADA	TELE_MEDICINE_ARISTADA
SPECIALTY	SPECIALTY
CREDENTIALS	CREDENTIALS
EMAIL_HARD_BOUNCE	EMAIL_HARD_BOUNCE
OPTOUT_3831_DISEASE_STATE	OPTOUT_3831_DISEASE_STATE

BRD-REQ-SYNC-5	• Marketo leads data is split at Product level (Aristada, Lybalvi, Vivitrol) and synced back to Marketo Weekly (Tuesday). ○ Any new Leads are identified and inserted into Marketo Leads. ○ Any updates to existing Leads record is identified and synced back to Marketo Leads.

4.10.1.2 PARTITIONS

BRD-REQ-EXN-1	**Data Description:** This object contains Product Details and Identifiers from Marketo **Subject Area:** Activity **Source:** Marketo (Partition) **Markets:** Addiction, Psychiatry **Products:** Vivitrol, Aristada, Lybalvi, 5461 **Load strategy (Incremental/ Full) –** Full **Restatement (Yes/ No):** No **Replication Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Weekly (Friday) **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	• CDE_EXN.MARKETO_PARTITIONS • CDE_DWH. DIM_MARKETO_PARTITIONS • CDE_SEM.SEM_ MARKETO_PARTITIONS
BRD-REQ-DWH-3	**Partition details** will be fetched from Marketo partitions source directly without any transformation or business logic.
BRD-REQ-SEM-4	• Marketo Partition provides Partitions data from Marketo. It contains data attributes like Partition ID, Partition Name, Partition Description etc. Partition Names are like Aristada HCP, Aristada Payer, VIV HCP, VIV Non-HCP etc. One ALK_ID can be associated with multiple partitions. • **Partition details** are fetched from Marketo Partitions source directly without any transformation or business logic.

Target Fields	Source Fields (PartitionsEXN)
PARTITION_ID	PARTITION_ID
PARTITION_NAME	PARTITION_NAME
PARTITION_DESC	PARTITION_DESC
LOAD_DATE	LOAD_DATE

4.10.1.3 EMAIL CAMPAIGNS

BRD - REQ-EXN-1	**Data Description:** This feed contains Marketo activity type information like (User activities, Lead addition) details. **Subject Area:** Activity **Source:** Marketo (Email) **Markets:** Addiction, Psychiatry **Products:** Vivitrol, Aristada, Lybalvi, 5461 **Load strategy (Incremental/ Full) –** Incremental **Restatement (Yes/ No):** No **Replication Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily

<table>
<tr><td></td><td>MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>• CDE_EXN. MARKETO_EMAIL
• CDE_DWH. DIM_MARKETO_EMAIL_CAMPAIGNS
• CDE_SEM. SEM_MARKETO_EMAIL_CAMPAIGNS</td></tr>
<tr><td>BRD-REQ-DWH-3</td><td>• Marketo Email Campaign data will be loaded into the warehouse daily where history will also be maintained. All the data is replicated as is from Marketo.</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>• Product level email campaign details will be available in Semantic as is from Marketo source.
o History data is available from April 2018.
• Below is Source to Semantic mapping:

<table>
<tr><th>Source Fields (Email-EXN)</th><th>SEM Marketo Email Campaign</th></tr>
<tr><td>ID</td><td>EMAIL_ID</td></tr>
<tr><td>NAME</td><td>NAME</td></tr>
<tr><td>DESCRIPTION</td><td>DESCRIPTION</td></tr>
<tr><td>CREATEDAT</td><td>CREATEDATE</td></tr>
<tr><td>UPDATEDAT</td><td>UPDATEDATE</td></tr>
<tr><td>SUBJECTTYPE</td><td>SUBJECTTYPE</td></tr>
<tr><td>SUBJECTVALUE</td><td>SUBJECTVALUE</td></tr>
<tr><td>FROMNAMETYPE</td><td>FROMNAMETYPE</td></tr>
<tr><td>FROMNAMEVALUE</td><td>FROMNAMEVALUE</td></tr>
<tr><td>FROMEMAILTYPE</td><td>FROMEMAILTYPE</td></tr>
<tr><td>FROMEMAILVALUE</td><td>FROMEMAILVALUE</td></tr>
<tr><td>REPLYEMAILTYPE</td><td>REPLYEMAILTYPE</td></tr>
<tr><td>REPLYEMAILVALUE</td><td>REPLYEMAILVALUE</td></tr>
<tr><td>FOLDERTYPE</td><td>FOLDERTYPE</td></tr>
<tr><td>FOLDERVALUE</td><td>FOLDERVALUE</td></tr>
<tr><td>FOLDERNAME</td><td>FOLDERNAME</td></tr>
<tr><td>OPERATIONAL</td><td>OPERATIONAL</td></tr>
<tr><td>TEXTONLY</td><td>TEXTONLY</td></tr>
<tr><td>PUBLISHTOMSI</td><td>PUBLISHTOMSI</td></tr>
<tr><td>WEBVIEW</td><td>WEBVIEW</td></tr>
<tr><td>STATUS</td><td>STATUS</td></tr>
<tr><td>TEMPLATE</td><td>TEMPLATE</td></tr>
<tr><td>WORKSPACE</td><td>WORKSPACE</td></tr>
<tr><td>VERSION</td><td>VERSION</td></tr>
</table>
</td></tr>
</table>

4.10.1.4 CAMPAIGNS

BRD-REQ-EXN-1	**Data Description:** This data table provides web Campaign data from Marketo. It contains data attributes like Campaign Name, Campaign Description, Type, Program Name etc. Web campaigns are generated automatically when marketing ops creates forms on HCP/DTC/ASC websites via Marketo, such as requesting a rep and registering for updates. **Subject Area:** Activity **Source:** Marketo (Campaign) **Markets:** Addiction, Psychiatry **Products:** Vivitrol, Aristada, Lybalvi, 5461 **Load strategy (Incremental/ Full) –** Full **Restatement (Yes/ No):** No **Replication Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	• CDE_EXN. MARKETO_CAMPAIGN • CDE_DWH. DIM_MARKETO_CAMPAIGN • CDE_SEM. SEM_MARKETO_CAMPAIGN
BRD-REQ-DWH-3	Marketo Web Campaign data will be loaded into the warehouse daily. All the data is replicated as is from Marketo.
BRD-REQ-SEM-4	• Marketo Web Campaign data will be populated as is from source and will consist of Campaign details like id, program name and Timeframe for campaigns. • Web campaigns are generated automatically when marketing ops creates forms on HCP/DTC/ASC websites via Marketo, such as requesting a rep and registering for updates. • Below is Source to Semantic mapping:

Source Fields (Campaign-EXN)	SEM Marketo Campaign
ID	ID
NAME	NAME
DESCRIPTION	DESCRIPTION
TYPE	TYPE
PROGRAM_NAME	PROGRAM_NAME
WORK_PLACE_NAME	WORK_PLACE_NAME
CREATED_AT	CREATED_AT
UPDATED_AT	UPDATED_AT
ACTIVE	ACTIVE

4.10.1.5 ACTIVITY TYPE

BRD-REQ-EXN-1	**Data Description:** This object contains Marketo activity type information like (User activities, Lead addition) details. **Subject Area:** Activity **Source:** Marketo (Activity Type)

<table>
<tr><td></td><td>Load strategy (Incremental/ Full) – Full
Restatement (Yes/ No): No
Replication Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Daily
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>• CDE_EXN. MARKETO_ACTIVITY_TYPE
• CDE_DWH. DIM_MARKETO_ACTIVITY_TYPE
• CDE_SEM. SEM_MARKETO_ACTIVITY_TYPE</td></tr>
<tr><td>BRD-REQ-DWH-3</td><td>• Marketo Activity Type table consists of User activity details link Clicking links, webhooks, lead generation, deletion details.
• CATEGORY_TYPE is populated per below mapping else null.
<table><tr><th>Name (Activity Type-EXN)</th><th>Category Type</th></tr><tr><td>Visit Webpage
Fill Out Form
Click Link</td><td>Website Activity</td></tr><tr><td>Send Email
Email Delivered
Unsubscribe Email
Click Link
Email Bounced
Unsubscribe Email
Open Email
Click Email
Email Bounced Soft</td><td>Email Activity</td></tr></table></td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>• Marketo Activity Type table consists of User activity details link Clicking links, webhooks, lead generation, deletion details.
• CATEGORY_TYPE is populated from source table if is as per below list else null.
<table><tr><th>Name (Activity Type-EXN)</th><th>Category Type</th></tr><tr><td>Visit Webpage
Fill Out Form
Click Link</td><td>Website Activity</td></tr><tr><td>Send Email
Email Delivered
Unsubscribe Email
Click Link
Email Bounced
Unsubscribe Email
Open Email
Click Email
Email Bounced Soft</td><td>Email Activity</td></tr></table>• Below fields are mapped directly from the Source.</td></tr>
</table>

Source Fields (Activity Type-EXN)	SEM Marketo Activity Type
ID	ID
NAME	NAME
DESCRIPTION	DESCRIPTION
PRIMARY_ATTRIBUTE_NAME	PRIMARY_ATTRIBUTE_NAME
PRIMARY_ATTRIBUTE_DATA_TYPE	PRIMARY_ATTRIBUTE_DATA_TYPE
ATTRIBUTE_NAME	ATTRIBUTE_NAME
ATTRIBUTE_DATA_TYPE	ATTRIBUTE_DATA_TYPE

4.10.1.6 LEADS ACTIVITY

BRD-EXN-EXN-1	**Data Description:** This object contains Leads Activity data from Marketo. **Subject Area:** Activity **Source:** Marketo (Leads Activity) **Markets:** Psychiatry, Addiction **Products:** Aristada, Lybalvi, Vivitrol **Load strategy (Incremental/ Full) –** Incremental **Restatement (Yes/ No):** No **Replication Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	• CDE_EXN. MARKETO_LEADS_ACTIVITY • CDE_DWH. FCT_MARKETO_LEADS_ACTIVITY • CDE_SEM. SEM_MARKETO_LEADS_ACTIVITY
BRD-REQ-DWH-3	Leads Activity data will be loaded in DWH where history will also be maintained. • **Split Week Details** will be populated from Split Week Calendar where Activity date lies between Start date and End date of Split week calendar. • **ALK_ID** will be populated from Customer Identifier Dimension for active Marketo Leads.
BRD-REQ-SEM-4	• Leads Activity consist of Leads associated with campaign and mode of activity, Time frame for Campaigns. • Leads Activity data will be available in Semantic where history will also be maintained. • History from Aug 2021 is available. • **Customer Details** will be populated from **Customer Master** based on ALK_ID. • **Split Week Details** will be populated from Split Week Calendar where Activity date lies between Start date and End date of Split week calendar. • **ALK_ID** will be populated from Customer Identifier Dimension for active Marketo Leads. • **ACTIVITY_TYPE_CATEGORY** will be populated as per below logic:

Name (Activity Type-EXN)	Category Type
Visit Webpage Fill Out Form Click Link	Website Activity

Send Email Email Delivered Unsubscribe Email Click Link Email Bounced Unsubscribe Email Open Email Click Email Email Bounced Soft	Email Activity

- **ACTIVITY_TYPE_DESCRIPTION** is populated from marketo Actvity Type object based on ACTIVITY_TYPE.
- **Lead Details** will be sourced from Marketo Email object based on Lead ID
- **Email Campaign** Details will be sourced from Marketo Email object based on Campaign ID
- **Web Campaign details** will be sourced from Marketo Campaign source based on Campaign ID
- Below columns are directly populated from Marketo Leads Activity Source.

Source Fields (Leads Activity-EXN)	Target Fields-(SEM Marketo Leads Activity)
ID	LEAD_DIM_ID
ACTIVITY_ID	ACTIVITY_ID
ACTIVITY_DATE	ACTIVITY_DATE
ACTIVITY_TYPE_ID	ACTIVITY_TYPE_DIM_ID
CAMPAIGN_DIM_ID	CAMPAIGN_DIM_ID
PRIMARY_ATTRIBUTE_VALUE_ID	PRIMARY_ATTRIBUTE_VALUE_ID
PRIMARY_ATTRIBUTE_VALUE	PRIMARY_ATTRIBUTE_VALUE
PRIMARY_ATTRIBUTE_VALUE_ID	EMAIL_DIM_ID
ATTRIBUTE_NAME	ATTRIBUTE_NAME
ATTRIBUTE_VALUE	ATTRIBUTE_VALUE

4.11 PLAN MASTER

4.10.2 AHM AND VEEVA

4.10.2.1 PROGRAMS

BRD-REQ-RAW-1

Feed Details:

Feed_id	Feed_name	Description	Frequency
157	SALES_OPS_ALL_PROGRAMS_	This feed provides Speaker Programs details for all products.	Bi-Weekly – Monday, Thursday

	Source: AHM **Subject Area:** NPA **Markets:** Psychiatry, Addiction **Products:** Aristada, Lybalvi and Vivitrol **Load strategy (Incremental/ Full) -** Full **Restatement (Yes/ No):** No **MDM Mastering (Yes/No) –** No
BRD-REQ-EXN-2	**Subject Area:** Activity **Source:** Veeva **Source table:** EM_EVENT_VOD__C **Markets:** Psychiatry, Addiction **Products:** Aristada, Lybalvi and Vivitrol **Load strategy (Incremental/ Full) –** Full **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** NA **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-3	**Tables Covered –** • RAW_AHM_ALL_PROGRAM • CLNS_AHM_ALL_PROGRAM • FCT_SPEAKER_PROGRAM_DETAIL • SEM_SPEAKER_PROGRAM_DETAIL **Static tables:** • CLNS_SOPS_ALL_PROGRAMS
BRD-REQ-DWH-4	• Speaker program details for all brands will be loaded in the Warehouse where History will also be maintained. o Historical SOPS data (Jul'15-Dec'16) will be populated from static table (CLNS_SOPS_ALL_PROGRAMS). o Bi-Weekly data received from AHM starting from Jan'17. o Daily data that will be replicated from Veeva. • **DATA_PROVIDER_CD** will be populated as 'SOPS' for Historical SOPS data, 'VEEVA' for data sourced from Veeva else 'AHM'. • **PROGRAM_DT_DIM_ID** will be populated as CALENDAR_ID from DIM_CALENDAR based on PROGRAM_DT for SOPS and AHM and START_DATE_VOD__C for Veeva. • **PROGRAM_DT_SPLIT_WEEK_ID** will be populated as ID from DIM_SPLIT_WEEK_CALENDAR based on PROGRAM_DT for SOPS and AHM and START_DATE_VOD__C for Veeva. • **REGION, DISTRICT, TERRITORY** will be populated as ORG_UNIT_ID from SEM_GEOGRAPHY_HIERARCHY as per below logic: o ORG_UNIT_ID will be fetched based on POSITION_ID and START_DATE_VOD__C. o POSITION_ID will be fetched from SEM_EMPLOYEE_ASSIGNMENT based on EMPLOYEENUMBER and START_DATE_VOD__C. o EMPLOYEENUMBER will be fetched from USER based on OWNERID. o ORG_UNIT_LEVEL_ID=1 for Territory, ORG_UNIT_LEVEL_ID=2 for District, ORG_UNIT_LEVEL_ID=2 for Region. • **STATUS_OF_SPEAKER** will be populated from EM_Event_Speaker_vod__c based on ID.

<table>
<tr><td></td><td>
<ul>
<li>TBM_CLOSE_DT will be populated as ACTION_DATETIME_VOD__C from EM_EVENT_HISTORY_VOD__C based on ID and Ending_Status_vod__c as 'Completed'.</li>
<li>FINANCIAL_CLOSE_DT will be populated as ACTION_DATETIME_VOD__C from EM_EVENT_HISTORY_VOD__C based on ID and Ending_Status_vod__c as ' Closed_vod'.</li>
</ul>
</td></tr>
<tr><td>BRD-REQ-SEM-5</td><td>
<ul>
<li>Speaker program details for all brands will be loaded in the Semantic where History will also be maintained.
<ul>
<li>Historical SOPS data (Jul’15-Dec’16) will be populated from static table (CLNS_SOPS_ALL_PROGRAMS).</li>
<li>Bi-Weekly data received from AHM starting from Jan’17.</li>
<li>Daily data that will be replicated from Veeva.</li>
</ul></li>
<li>DATA_PROVIDER_CD will be populated as ‘SOPS’ for Historical SOPS data, ‘VEEVA’ for data sourced from Veeva else ‘AHM’.</li>
<li>PROGRAM_DT_DIM_ID will be populated as CALENDAR_ID from DIM_CALENDAR based on PROGRAM_DT for SOPS and AHM and START_DATE_VOD__C for Veeva.</li>
<li>PROGRAM_DATE will be populated as COMPLETE_DATE from SEM_CALENDAR based on PROGRAM_DT for SOPS and AHM and START_DATE_VOD__C for Veeva.</li>
<li>PROGRAM_DATE_SPLIT_WEEK and PROGRAM_DATE_MONTH will be populated as SW_END_DATE and CALENDAR_MONTH_START_DATE from SEM_SPLIT_WEEK_CALENDAR based on PROGRAM_DT for SOPS and AHM and START_DATE_VOD__C for Veeva.</li>
<li>REGION, DISTRICT, TERRITORY will be populated as ORG_UNIT_ID from SEM_GEOGRAPHY_HIERARCHY as per below logic:
<ul>
<li>ORG_UNIT_ID will be fetched based on POSITION_ID and START_DATE_VOD__C.</li>
<li>POSITION_ID will be fetched from SEM_EMPLOYEE_ASSIGNMENT based on EMPLOYEENUMBER and START_DATE_VOD__C.</li>
<li>EMPLOYEENUMBER will be fetched from USER based on OWNERID.</li>
<li>ORG_UNIT_LEVEL_ID=1 for Territory, ORG_UNIT_LEVEL_ID=2 for District, ORG_UNIT_LEVEL_ID=2 for Region.</li>
<li>for TBMs the geography details will be fetched for Assignments with Type = ‘Primary’, if there is no assignment with Type ‘Primary’, only then ‘Secondary’ Assignments will be used.</li>
</ul></li>
<li>STATUS_OF_SPEAKER will be populated from EM_Event_Speaker_vod__c based on ID and status_vod__c = 'Attended_vod'.</li>
<li>TBM_CLOSE_DT will be populated as ACTION_DATETIME_VOD__C from EM_EVENT_HISTORY_VOD__C based on ID and Ending_Status_vod__c as 'Completed' and ACTION_TYPE_VOD__C = 'PW_Complete'. In case there are multiple records in EM_Event_History_vod__c, the record with the maximum LASTMODIFIEDDATE will be used.</li>
<li>FINANCIAL_CLOSE_DT will be populated as ACTION_DATETIME_VOD__C from EM_EVENT_HISTORY_VOD__C based on ID and Ending_Status_vod__c as ' Closed_vod'. In case there are multiple records in EM_Event_History_vod__c, the record with the maximum LASTMODIFIEDDATE will be used.</li>
</ul>
<ul>
<li>Below fields are directly populated from source:</li>
</ul>
<table>
<tr><th>Target Field</th><th>Source Field (AHM and SOPS)</th><th>Source Field (Veeva)</th></tr>
<tr><td>FUNDING_SRC</td><td>FUNDING_SRC</td><td>PW_Product__c</td></tr>
<tr><td>PROGRAM_TYPE</td><td>PROGRAM_TYPE</td><td>Program_Type_vod__c</td></tr>
<tr><td>PROGRAM_ID</td><td>PROGRAM_ID</td><td>Event_Number_vpro__c</td></tr>
<tr><td>PROGRAM_SUBMITTED_DT</td><td>PROGRAM_SUBMITTED_DT</td><td>CreatedDate</td></tr>
<tr><td>PROGRAM_TIME</td><td>PROGRAM_TIME</td><td>Start_Time_vod__c</td></tr>
<tr><td>PROGRAM_STATUS</td><td>PROGRAM_STATUS</td><td>Status_vod__c</td></tr>
</table>
</td></tr>
</table>

NO_OF_ATTENDEES	NO_OF_ATTENDEES	Count_of_Total_Attendees_vpro__c
HOST_TBM	HOST_TBM	Event_Owner_Name_vpro__c
HOST_TBM_EID	HOST_TBM_EID	OWNERID
REGION	REGION	-
DISTRICT	DISTRICT	-
TERRITORY	TERRITORY	-
TOPIC	TOPIC	Topic_Name_vpro__c
STATUS_OF_SPEAKER	STATUS_OF_SPEAKER	-
PROGRAM_LOC	PROGRAM_LOC	Location_vod__c
LOC_CITY	LOC_CITY	City_vod__c
LOC_STATE	LOC_STATE	State_Province_vod__c
LOC_ZIP_CD	LOC_ZIP_CD	Postal_Code_vod__c
PROGRAM_DESC	PROGRAM_DESC	Meal_Type_vod__c
TBM_CLOSE_DT	TBM_CLOSE_DT	-
FINANCIAL_CLOSE_DT	FINANCIAL_CLOSE_DT	-
TOTAL_COST	TOTAL_COST	Actual_Cost_vod__c

4.10.2.2 ATTENDEE

BRD-REQ-RAW-1

Feed Details:

Feed_id	Feed_name	Description	Frequency
158	SALES_OPS_ATTENDEE_DETAILS_	This feed provides Attendee details for Speaker Program for all products.	Bi-Weekly – Monday, Thursday

Source: AHM
Subject Area: NPA
Markets: Psychiatry, Addiction
Products: Aristada, Lybalvi and Vivitrol
Load strategy (Incremental/ Full) - Full
Restatement (Yes/ No): No
MDM Mastering (Yes/No) – No

BRD_REQ_EXN_2

Subject Area: Activity
Source: Veeva
Source table: EM_EVENT_VOD__C
Markets: Psychiatry, Addiction
Products: Aristada, Lybalvi and Vivitrol
Load strategy (Incremental/ Full) – Full
Restatement (Yes/ No): No
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Daily
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- NA

<table>
<tr><td></td><td>MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-3</td><td>Tables Covered –<ul><li>RAW_AHM_ATTENDEE_DETAILS</li><li>CLNS_AHM_ATTENDEE_DETAILS</li><li>FCT_SPEAKER_PROGRAM_ATTENDEE_DETAIL</li><li>SEM_SPEAKER_PROGRAM_ATTENDEE_DETAIL</li></ul>Static tables:<ul><li>CLNS_SOPS_ATTENDEE_DETAILS</li></ul></td></tr>
<tr><td>BRD-REQ-DWH-4</td><td><ul><li>Attendee details for all brands will be loaded in the Warehouse where History will also be maintained.<ul><li>Historical SOPS data (Sept’15-Dec’16) will be populated from static table (CLNS_SOPS_ATTENDEE_DETAILS).</li><li>Bi-Weekly data that will be received from AHM starting from Jan’17.</li><li>Daily data that will be replicated from Veeva.</li></ul></li><li>DATA_PROVIDER_CD will be populated as ‘SOPS’ for Historical SOPS data, ‘VEEVA’ for data sourced from Veeva else ‘AHM’.</li><li>PROGRAM_DT_DIM_ID will be populated as CALENDAR_ID from DIM_CALENDAR based on PROGRAM_DT for SOPS and AHM and START_DATE_VOD__C for Veeva.</li><li>PROGRAM_DT_SPLIT_WEEK_ID will be populated as ID from DIM_SPLIT_WEEK_CALENDAR based on PROGRAM_DT for SOPS and AHM and START_DATE_VOD__C for Veeva.</li><li>ATTENDEE_TYPE, CREDENTIALS_DEGREE, ADDR_1, ADDR_2, CITY, STATE, ZIP_CD, TELEPHONE will be populated as STATUS_VOD__C, CREDENTIALS_VOD__C, ADDRESS_LINE_1_VOD__C, ADDRESS_LINE_2_VOD__C, CITY_VOD__C, PW_STATE__C, ZIP_VOD__C, PHONE_VOD__C from EM_ATTENDEE_VOD__C based on ID.</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-5</td><td><ul><li>Speaker program details for all brands will be loaded in the Semantic where History will also be maintained.<ul><li>Historical SOPS data (Sept’15-Dec’16) will be populated from static table (CLNS_SOPS_ALL_PROGRAMS).</li><li>Bi-Weekly data received from AHM starting from Jan’17.</li><li>Daily data that will be replicated from Veeva.</li></ul></li><li>DATA_PROVIDER_CD will be populated as ‘SOPS’ for Historical SOPS data, ‘VEEVA’ for data sourced from Veeva else ‘AHM’.</li><li>PROGRAM_DT_DIM_ID will be populated as CALENDAR_ID from DIM_CALENDAR based on PROGRAM_DT for SOPS and AHM and START_DATE_VOD__C for Veeva.</li><li>PROGRAM_DATE will be populated as COMPLETE_DATE from SEM_CALENDAR based on PROGRAM_DT for SOPS and AHM and START_DATE_VOD__C for Veeva.</li><li>PROGRAM_DATE_SPLIT_WEEK and PROGRAM_DATE_MONTH will be populated as SW_END_DATE and CALENDAR_MONTH_START_DATE from SEM_SPLIT_WEEK_CALENDAR based on PROGRAM_DT for SOPS and AHM and START_DATE_VOD__C for Veeva.</li><li>Below fields are directly populated from source:</li></ul>
<table>
<tr><th>Target Field</th><th>Source Field (AHM and SOPS)</th><th>Source Field (Veeva)</th></tr>
<tr><td>PROGRAM_ID</td><td>PROGRAM_ID</td><td>Event_Number_vpro__c</td></tr>
<tr><td>ALK_ID</td><td>ALK_ID</td><td>ALKID__C</td></tr>
<tr><td>FIRST_NAME</td><td>FIRST_NAME</td><td>First_Name_vod__c</td></tr>
<tr><td>MIDDLE_INITIAL</td><td>MIDDLE_INITIAL</td><td>NULL</td></tr>
<tr><td>LAST_NAME</td><td>LAST_NAME</td><td>Last_Name_vod__c</td></tr>
</table>
</td></tr>
</table>

ATTENDEE_TYPE	ATTENDEE_TYPE	-
CREDENTIALS_DEGREE	CREDENTIALS_DEGREE	-
SPECIALTY	SPECIALTY	PW_Specialty__c
EMAIL_ADDR	EMAIL_ADDR	Email_vod__c
BUSINESS_AFFILIATION_NAME	BUSINESS_NAME_AFFILIATION	NULL
ADDRESS_1	ADDR_1	-
ADDRESS_2	ADDR_2	-
CITY	CITY	-
STATE	STATE	-
ZIP_CD	ZIP_CD	-
TELEPHONE	TELEPHONE	-

4.10.2.3 SPEAKER COUNT

BRD-REQ-RAW-1

Feed Details:

Feed_id	Feed_name	Description	Frequency
159	SALES_OPS_SPEAKER_COUNT_	This feed provides Speaker Programs-Speaker Count for all products	Bi-Weekly – Monday, Thursday

Source: AHM
Subject Area: NPA
Markets: Psychiatry, Addiction
Products: Aristada, Lybalvi and Vivitrol
Load strategy (Incremental/ Full) - Full
Restatement (Yes/ No): No
MDM Mastering (Yes/No) – No

BRD_REQ_EXN_2

Subject Area: Activity
Source: Veeva
Source table: EM_EVENT_VOD__C
Markets: Psychiatry, Addiction
Products: Aristada, Lybalvi and Vivitrol
Load strategy (Incremental/ Full) – Full
Restatement (Yes/ No): No
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Daily
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- NA
MDM Mastering (Yes/No) – No

BRD-REQ-OBJ-3

Tables Covered –

- RAW_AHM_SPEAKER_COUNT
- CLNS_AHM_SPEAKER_COUNT
- FCT_SPEAKER_PROGRAM_SPEAKER_COUNT
- SEM_SPEAKER_PROGRAM_SPEAKER_COUNT

<table>
<tr><td></td><td>Static tables:
• CLNS_SOPS_SPEAKER_COUNT</td></tr>
<tr><td>BRD-REQ-DWH-4</td><td>• Speaker Count for all brands will be loaded in the Warehouse where History will also be maintained.
○ Historical SOPS data (2015-2016) will be populated from static table (CLNS_SOPS_SPEAKER_COUNT).
○ Bi-Weekly data that will be received from AHM starting from 2017.
○ Daily data that will be replicated from Veeva.
• DATA_PROVIDER_CD will be populated as ‘SOPS’ for Historical SOPS data, ‘VEEVA’ for data sourced from Veeva else ‘AHM’.
• For Veeva, PAST_PROGRAM_CNT will be populated as count of records with START_DATE_VOD__C less than current date and STATUS_VOD__C as 'CONFIRMED', 'COMPLETED' or 'CLOSED_VOD'.
• For AHM and SOPS, DERIVED_SPEAKER_RATING will be populated as SPEAKER_RATING_D from XREF_SPEAKER_RATINGS based on SPEAKER_RATING lie between MIN_RATING and MAX_RATING.</td></tr>
<tr><td>BRD-REQ-SEM-5</td><td>• Speaker program details for all brands will be loaded in the Semantic where History will also be maintained.
○ Historical SOPS data (2015-2016) will be populated from static table (CLNS_SOPS_SPEAKER_COUNT).
○ Bi-Weekly data received from AHM starting from 2017.
○ Daily data that will be replicated from Veeva.
• DATA_PROVIDER_CD will be populated as ‘SOPS’ for Historical SOPS data, ‘VEEVA’ for data sourced from Veeva else ‘AHM’.
• For Veeva, PAST_PROGRAM_CNT will be populated as count of records with START_DATE_VOD__C less than current date and STATUS_VOD__C as 'CONFIRMED', 'COMPLETED' or 'CLOSED_VOD'.
• For AHM and SOPS, DERIVED_SPEAKER_RATING will be populated as SPEAKER_RATING_D from XREF_SPEAKER_RATINGS based on SPEAKER_RATING lie between MIN_RATING and MAX_RATING.
• Below fields are directly populated from source:
<table>
<tr><th>Target Field</th><th>Source Field (AHM and SOPS)</th><th>Source Field (Veeva)</th></tr>
<tr><td>PROGRAM_TYPE</td><td>PROGRAM_TYPE</td><td>PW_Product__c</td></tr>
<tr><td>SPEAKER_ALK_ID</td><td>SPEAKER_ALK_ID</td><td>ALKID__C</td></tr>
<tr><td>SPEAKER_FIRST_NAME</td><td>SPEAKER_FIRST_NAME</td><td>First_Name_vod__c</td></tr>
<tr><td>SPEAKER_LAST_NAME</td><td>SPEAKER_LAST_NAME</td><td>Last_Name_vod__c</td></tr>
<tr><td>TOTAL_PROGRAM_COUNT</td><td>CNT_OF_PROGRAM</td><td>NULL</td></tr>
<tr><td>COMPLETED_PROGRAM_COUNT</td><td>PAST_PROGRAM_CNT</td><td>-</td></tr>
<tr><td>CANCELLED_PROGRAM_COUNT</td><td>CANCELLED_PROGRAM_CNT</td><td>-</td></tr>
<tr><td>PROGRAM_YEAR</td><td>YEAR_OF_PROGRAM</td><td>Start_Date_vod__c</td></tr>
<tr><td>SOURCE_SPEAKER_RATING</td><td>SPEAKER_RATING</td><td>NULL</td></tr>
</table></td></tr>
</table>

4.10.2.4 CALL DATA

BRD-REQ-EXN-1	**Feed Description:** This data table provides details of call activities done by sales representatives. The table contains data for all Alkermes products.

	Subject Area: Activity **Source Name:** VEEVA **Source Table:** CALL2_VOD__C **Markets:** Psychiatry, Addiction **Products:** Aristada, Lybalvi, Vivitrol **Load strategy (Incremental/ Full) -** Incremental **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** NA **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	• FCT_CALL_ACTIVITY • SEM_CALL • VW_SEM_CALL
BRD-REQ-DW-3	• Incremental call activities data for all products starting from APR'06 will be loaded in the Warehouse daily where History will also be maintained. • **ACCOUNT_ID** and **PARENT_ACCOUNT_ID** will be fetched from the ACCOUNT table based on ACCOUNT_VOD__C and PRIMARY_PARENT_VOD__C respectively. • **CUST_DIM_ID** and **PARENT_CUST_DIM_ID** will be fetched from DIM_CUSTOMER based on ALK_ID, which will be derived from MAP_CUSTOMER_IDENTIFIER based on ACCOUNT_ID and PARENT_ACCOUNT_ID with Source as 'VEEVA'. • **CALL_DATE_DIM_ID, CALL_LAST_MODIFIED_DT_ID, CALL_CREATED_DT_ID** will be fetched from DIM_CALENDAR based on CALL_DATE_VOD__C, LASTMODIFIEDDATE and CREATEDDATE respectively. • **SPLIT_WEEK_ID** will be fetched from DIM_SPLIT_WEEK_CALENDAR based on CALL_DATE_VOD__C. • **Product Details (PROD_DIM_ID** and **INDICATION_ID)** will be fetched from MAP_PROD_EXT_ID with SRC_PROD_DESC is 'ARISTADA', 'LYBALVI-BD-I','LYBALVI-SZ','VIVITROL' and source as 'VEEVA CALL'. • **PRODUCT_POSITION** will be populated based on ACCOUNT_ID, CALL_ID and PRODUCT_PRIORITY for all products. • **EMPLOYEE_ID** will be fetched from DIM_EMPLOYEE_MASTER based on EMAIL, which will be derived from USER table based on OWNERID.
BRD-REQ-SEM-4	• Semantic (SEM_CALL) will include complete CALL activities data starting from APR'06 shared by VEEVA where history will also be maintained. • **ACCOUNT_ID** and **PARENT_ACCOUNT_ID** will be fetched from the ACCOUNT table based on ACCOUNT_VOD__C and PRIMARY_PARENT_VOD__C respectively. • **TEAM_DIM_ID** will be populated from SEM_TEAM based on TEAM_NAME. • **ACCOUNT_ALK_ID** and **PARENT_ACCOUNT_ALK_ID** will be populated from CUSTOMER MASTER based on ACCOUNT_VOD__C and PRIMARY_PARENT_VOD__C respectively. • **CALL_DATE, CALL_DATE_WEEK** and **CALL_LAST_MODIFIED_DATE** will be populated from SEM_CALENDAR based on CALL_DATE_VOD__C and LASTMODIFIEDDATE respectively. • **CALL_SPLIT_WEEK_DATE** and **CALL_MONTH** will be populated from Split Week Calendar based on CALL_DATE_VOD__C. • **Product Details (PRODUCT_NAME** and **NDICATION)** will be populated from Product Master with SRC_PROD_DESC is 'ARISTADA', 'LYBALVI-BD-I','LYBALVI-SZ','VIVITROL' and source as 'VEEVA CALL'. • **Employee Details** (FIRST_NAME and LAST_NAME) will be populated from SEM_EMPLOYEE based on OWNERID. **EMPLOYEE_NAME** will be populated as concatenation FIRST_NAME and LAST_NAME.

- View (VW_SEM_CALL) will also contain the latest data including history starting from APR'06.
- Below fields will be directly populated from source.

Source Fields (DW)	Semantic Fields
TEAM_NAME	TEAM_NAME
SRC_ACCOUNT_ID	SRC_ACCOUNT_ID
CUST_DIM_ID	CUST_DIM_ID
PARENT_CUST_DIM_ID	PARENT_CUST_DIM_ID
CALL_NAME	CALL_NAME
PARENT_CALL_ID	PARENT_CALL_ID
CALL_DATE_DIM_ID	CALL_DATE_DIM_ID
CALL_DATE_TIME	CALL_DATE_TIME
CALL_TYPE	CALL_TYPE
PROD_DIM_ID	PROD_DIM_ID
SRC_EMPLOYEE_ID	SRC_EMPLOYEE_ID
EMPLOYEE_ID	EMPLOYEE_ID
ACCOUNT_RECORD_TYPE	ACCOUNT_RECORD_TYPE
TASK_REQUEST	TASK_REQUEST
IS_PARENT_CALL	IS_PARENT_CALL
CALL_CREATED_DATE_TIME	CALL_CREATED_DATE
CALL_STATUS	CALL_STATUS
CALL_REGION	CALL_REGION
DURATION_FORMULA__C	DURATION_FORMULA__C
CALL_CHANNEL_VOD__C	CALL_CHANNEL_VOD__C

4.10.3 REALITY ENGINEERING

4.10.3.1 CONFERENCE DATA

BRD-REQ-RAW-1	**Feed Ids:** 358,359 **Feed Name:** RE_ALKS_Export_, RE_ALKS_TOV_Export_ **Feed Description:** This data table provides Speaker and attendees conferences data. The data is available for all Alkermes products and with daily data granularity. **Source Name:** Reality Engineering **Subject Area:** Activity **Markets:** Psychiatry, Addiction

<table>
<tr><td></td><td>Products: Aristada, Lybalvi, Vivitrol
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): No
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Daily
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- NA
MDM Mastering (Yes/No) –Yes</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>• RAW_RES_AANP, RAW_RES_AANP_TOV
• CLNS_RES_AANP, CLNS_RES_AANP_TOV
• FCT_CONFERENCE
• SEM_CONFERENCE</td></tr>
<tr><td>BRD-REQ-DW-3</td><td>• The Speaker and attendees' conferences data for all brands will be loaded in the warehouse daily where history will also be maintained.
• DATA_PROVIDER_CD will be defaulted as 'RES'.
• ATTENDEE_RECEIVED and TRANSFER_OF_VAL will be populated from CLNS_RES_AANP_TOV based on LEAD_ID.
• CUST_DIM_ID will be populated from Customer Dimension based on ALK_ID, where ALK_ID will be fetched from Customer Identifier based on LEAD_ID and SOURCE as 'RES'.
• PROD_DIM_ID will be populated from MAP_PROD_EXT_ID based on PRODUCT.</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>• The Speaker and attendees' conferences data for all brands will be loaded in the semantic daily where history will also be maintained.
• Customer Details (CUST_DIM_ID, ALK_ID, FIRST_NAME, LAST_NAME and DEGREE) will be populated from Customer Master based on LEAD_ID.
• Product Details (PRODUCT_NAME and BRAND) will be populated from Product Master based on PRODUCT.
• Below fields will be directly populated from source.
<table>
<tr><th>Semantic Fields</th><th>Source Fields</th></tr>
<tr><td>ATTENDEE_ID</td><td>ATTENDEE_ID</td></tr>
<tr><td>SOURCE_TITLE</td><td>TITLE</td></tr>
<tr><td>SOURCE_ADDRESS_LINE_1</td><td>ADDR_1</td></tr>
<tr><td>SOURCE_ADDRESS_LINE_2</td><td>ADDR_2</td></tr>
<tr><td>SOURCE_CITY</td><td>CITY</td></tr>
<tr><td>SOURCE_STATE</td><td>STATE_CD</td></tr>
<tr><td>SOURCE_ZIP</td><td>POSTAL_CD</td></tr>
<tr><td>SOURCE_COUNTRY</td><td>COUNTRY</td></tr>
<tr><td>LEAD_ID</td><td>LEAD_ID</td></tr>
<tr><td>SRC_EMAIL_ADDRESS</td><td>SRC_EMAIL_ADDR</td></tr>
<tr><td>MOBILE_PHONE</td><td>MOBILE_PHONE</td></tr>
<tr><td>PHONE</td><td>PHONE</td></tr>
</table></td></tr>
</table>

FAX	FAX
EVENT_ID	EVENT_ID
EVENT_NAME	EVENT_NAME
EVENT_START_DATE	EVENT_START_DT
EVENT_END_DATE	EVENT_END_DT
EVENT_STREET_ADDRESS	EVENT_STREET_ADDR
EVENT_CITY	EVENT_LOC_CITY
EVENT_STATE	EVENT_LOC_STATE
SOURCE_HCP_TYPE	SRC_HCP_TYPE
ACTIVITY	ACTIVITY
STATION	STATION
SESSION_COUNT	SESSION_CNT
SESSION_DURATION	SESSION_DURATION
FOLLOW_UP	FOLLOW_UP
TOPIC_DISCUSSED	TOPIC_DISCUSSED
DATE_CAPTURED	DT_CAPTURED
ATTENDEE_RECEIVED	ATTENDEE_RECEIVED
TRANSFER_OF_VALUE	TRANSFER_OF_VAL

4.10.4 NON REALITY ENGINEERING

BRD-REQ-RAW-1	**Feed Ids:** TBD **Feed Name:** NON_RES **Feed Description:** This data table provides Speaker and attendees conferences data from non reality engineering. The data is available for all Alkermes products and with daily data granularity. **Source Name:** Non Reality Engineering **Subject Area:** Activity **Markets:** Psychiatry, Addiction **Products:** Aristada, Lybalvi, Vivitrol **Load strategy (Incremental/ Full) -** Incremental **Restatement (Yes/ No):** NA **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Adhoc **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** NA **MDM Mastering (Yes/No) –**NA
BRD-REQ-OBJ-2	• RAW_NON_RES • CLNS_NON_RES

4.12 PATIENT

Patient data will be available from following sources:

1. **FIA**
2. **LAAD**
3. **OPC**
4. **SOB**
5. **Revitas** - Contract Rebate data, Medicaid data, Rebate Settlement Report, Medicaid Claims Report
6. **IQVIA** - Copay data
7. **Liquid Hub Status**
8. **Mckesson** – Claims, Enrollment
9. **AssistRx** -PAP (Patient Assistance Program)
10. **Patient HUB —** Hub Enrollment, Hub Enrollment Specialty Pharmacy

4.12.1 FIA

4.12.1.1 FIA FACT DATA

BRD-REQ-RAW-1

Feed Details:

Feed ID	Feed Name	Feed Description
343, 354	IMS_FIA_FACT_<Prod>	These Feeds contain details about Prescription Claims including information about the Insurance Plan and their respective Providers and Patients for Aristada, Vivitrol and their competitor Products. This allows users to see whether claims were paid or not and how much the patient was asked to pay.

<Prod>- ARI, VIV
Source: IQVIA
Subject Area: FORMULARY IMPACT ANALYZER (FIA)
Markets: Psychiatry, Addiction
Products: Aristada, Vivitrol and their competitors
Load strategy (Incremental/ Full) – Incremental
Restatement (Yes/ No): Yes, last 6 months data
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Ad hoc) – Monthly
File Received Day/ Date (in case of Weekly/ Monthly/ Quarterly) –Ad hoc
MDM Mastering (Yes/No) – No
Business Schema – CDE_SEM_FIA

BRD-REQ-OBJ-2

Tables Covered –

Raw Table	Cleanse Table	Semantic Table
RAW_FIA_FACT_<Prod>	CLNS_FIA_FACT_<Prod>	SEM_FIA_FACT_<Prod>

<Prod>- ARI, VIV

BRD-OBJ-SEM-3

- The latest available claims data will be loaded in Semantic where History will also be maintained.
  - The incremental will include rolling 6 months Claims data (latest month+ Previous 6 months)
  - Restatements will be applicable for the previous 6 months' data based on any changes to the existing Claim ID record.
  - All historical data prior to rolling 6 months to be retained in Semantic.
- Below is the mapping of the Source to Semantics field for Vivitrol and Aristada.

SOURCE COLUMN	SEMANTIC COLUMN
CLAIM_ID	CLAIM_ID
PATIENT_ID	PATIENT_ID
PATIENT_SEQUENCE_NUMBER	PATIENT_SEQUENCE_NUM
NDC_CODE	NDC_CD
SVC_DATE	SVC_DT
CLAIM_TYPE	CLAIM_TYPE
REJECT_CODE	REJECT_CD
DAYS_SUPPLY	DAYS_SUPPLY
QUANTITY	QUANTITY
REFILL_CODE	REFILL_CD
PAYER_PLAN_ID	PAYER_PLAN_ID
OPC_ASK	OPC_ASK
SEC_PAYER_PLAN_ID	SEC_PAYER_PLAN_ID
BUY_DOWN	BUY_DOWN
OPC_PAID	OPC_PAID
PROVIDER_ID	PROVIDER_ID
SOB	SOB
SUB_NDC_CODE	SUB_NDC_CD
SUB_OPC	SUB_OPC
INITIAL_CLAIM_ID	INITIAL_CLAIM_ID
PREV_NDC_CODE	PREV_NDC_CD
DAW_CODE	DAW_CD
WRT_DATE	WRT_DT
CLAIM_STATUS	CLAIM_STATUS
COPAY_CARD_FLAG	COPAY_CARD_FLAG
ZIP_CODE	ZIP_CD
ECOUP_FLAG	ECOUP_FLAG
ECOUP_OFFSET_AMOUNT	ECOUP_OFFSET_AMT
STANDARD_COPAY	STANDARD_COPAY
STANDARD_COPAY_YN	STANDARD_COPAY_YN
MARKET_ID	MARKET_ID
CHANNEL	FLEXIBLE_FLD_1_CHAR
FLEXIBLE_FLD_2_CHAR	FLEXIBLE_FLD_2_CHAR
FLEXIBLE_FLD_3_CHAR	FLEXIBLE_FLD_3_CHAR

		FLEXIBLE_FLD_4_CHAR	FLEXIBLE_FLD_4_CHAR

4.12.1.2 FIA - REFERENCE DATA (PLAN, PROVIDER,REJECT,PATIENT DEMOGRAPHICS,GEO,PRODUCT,PATIENT ACTIVITY)

BRD-REQ-RAW-1

Feed Details:

Feed ID	Feed Name	Feed Description
336, 347	IMS_FIA_PLAN_<Prod>	These feeds contain details about the PAYERs and PLANs for the Prescription Claims from FIA
337, 348	IMS_FIA_PROVIDER_<Prod>	These feeds contain details about the Providers for the Prescription Claims from FIA
338, 349	IMS_FIA_REJECT_<Prod>	These feeds contain rejection reasons from FIA.
339, 350	IMS_FIA_PATIENT_DEMOGRAPHICS_<Prod>	These feeds contain patient birth year and gender for the Prescription Claims from FIA.
340, 351	IMS_FIA_GEOGRAPHY_<Prod>	These feeds map zip codes to states and CBSA (core based statistical areas).
342, 353	IMS_FIA_PRODUCT_<Prod>	These feeds are lists of products that can be joined on NDC_CODE.
341, 352	IMS_FIA_PATIENT_ACTIVITY_<Prod>	These feeds contain details about patients and quarters of their activities.

<Prod>: 'ARI' / 'VIV'

Source: IQVIA
Subject Area: FORMULARY IMPACT ANALYZER (FIA)
Markets: Psychiatry/Addiction
Products: Aristada/Vivitrol and their competitors
Load strategy (Incremental/ Full) – Full
Restatement (Yes/ No): No
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Ad hoc) – Monthly
File Received Day/ Date (in case of Weekly/ Monthly/ Quarterly) – Last week of the month (Ad hoc)
MDM Mastering (Yes/No) – No
Business Schema – CDE_SEM_FIA

BRD-REQ-OBJ-2

Tables Covered –

Raw Table	Cleanse Table	Semantic Table
RAW_FIA_PLAN_<PROD>	CLNS_FIA_PLAN_<PROD>	SEM_FIA_PLAN_<PROD>
RAW_FIA_PROVIDER_<PROD>	CLNS_FIA_PROVIDER_<PROD>	SEM_FIA_PROVIDER_<PROD>
RAW_FIA_REJECT_<PROD>	CLNS_FIA_REJECT_<PROD>	SEM_FIA_REJECT_<PROD>
RAW_FIA_PATIENT_DEMOGRAPHICS_<PROD>	CLNS_FIA_PATIENT_DEMOGRAPHICS_<PROD>	SEM_FIA_PATIENT_DEMOGRAPHICS_<PROD>
RAW_FIA_GEO_<PROD>	CLNS_FIA_GEO_<PROD>	SEM_FIA_GEOGRAPHY_<PROD>
RAW_FIA_PROD_<PROD>	CLNS_FIA_PROD_<PROD>	SEM_FIA_PRODUCT_<PROD>
RAW_FIA_PATIENT_ACTIVITY_<PROD>	CLNS_FIA_PATIENT_ACTIVITY_<PROD>	SEM_FIA_PATIENT_ACTIVITY_<PROD>

<Prod>: 'ARI' / 'VIV'

BRD-OBJ-SEM-3	• Semantic table will hold the full data (as is available from IMS) for FIA Reference data- Product, Geo, Plan, Provider, Patient Demographics, Patient Activity and Rejects. • Below is the mapping of the Source to Semantics field: FIA REFERENTIAL DATA - Mapping.xlsm

4.12.2 LAAD

4.12.2.1 MASTER PATIENT CENTRIC REFERENCE DATA

BRD-REQ-RAW-1

Feed Details:

Feed ID	Feed Name	Feed Description
494, 533	LAAD_<MKT>_DIM_PRODUCT	This feed contains product/drugs details
496, 534	LAAD_<MKT>_DIM_PLAN	This feed contains patient payer plan details
498, 528	LAAD_<MKT>_DIM_PATIENT_DEMOGRAPHIC	This feed contains patient demographic detail
500, 535	LAAD_<MKT>_DIM_REJECT	This feed contains claim rejection details
502, 536	LAAD_<MKT>_DIM_PROVIDER	This feed contains provider type identifier
504, 537	LAAD_<MKT>_DIM_GEOGRAPHY	This feed contains valid addresses
508, 538	LAAD_<MKT>_DIM_SERVICE	This feed contains details on place where a drug or service is dispensed or administered
510, 539	LAAD_<MKT>_DIM_FACILITY	This feed contains facility type details
512, 540	LAAD_<MKT>_DIM_DIAGNOSIS_CODE	This feed contains tests & diagnostic details
514, 541	LAAD_<MKT>_DIM_PROCEDURE_CODE	This feed contains medical procedure details
520, 530	LAAD_<MKT>_PATIENT_COMMERCIAL	This feed contains Patient Copay/Coinsurance details
522, 529	LAAD_<MKT>_PATIENT_PART_D	This feed contains Patient Medicare details
524, 531	LAAD_<MKT>_DIM_MODIFIER_CODE	This feed contains modified medical procedure code details

<MKT> ='ADDICTION,' 'ANTI_PSYCH'

Source: IQVIA
Subject Area: Longitudinal Access and Adjudication Data (LAAD)
Markets: Psychiatry, Addiction
Products: Aristada, Vivitrol, Lybalvi and Competitors
Load strategy (Incremental/ Full) – Full
Restatement (Yes/ No): No
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Ad hoc) – Quarterly
File Received Day/ Date (in case of Weekly/ Monthly/ Quarterly) – Around 15th of the Month.
MDM Mastering (Yes/No) – No
Business Schema- CDE_SEM_LAAD

BRD-REQ-OBJ-2 **Tables Covered –**

	Raw Table	**Cleanse Table**	**Semantic Table**
	RAW_LAAD_<MKT>_DIAGNOSIS_CODE	CLNS_LAAD_<MKT>_DIAGNOSIS_CODE	SEM_LAAD_<MKT>_PATIENT_COMMERCIAL
	RAW_LAAD_<MKT>_FACILITY	CLNS_LAAD_<MKT>_FACILITY	SEM_LAAD_<MKT>_PATIENT_DEMOGRAPHIC
	RAW_LAAD_<MKT>_GEOGRAPHY	CLNS_LAAD_<MKT>_GEOGRAPHY	SEM_LAAD_<MKT>_PATIENT_PART_D
	RAW_LAAD_<MKT>_MODIFIER_CODE	CLNS_LAAD_<MKT>_MODIFIER_CODE	SEM_LAAD_DIAGNOSIS_CODE
	RAW_LAAD_<MKT>_PATIENT_COMMERCIAL	CLNS_LAAD_<MKT>_PATIENT_COMMERCIAL	SEM_LAAD_FACILITY
	RAW_LAAD_<MKT>_PATIENT_DEMOGRAPHIC	CLNS_LAAD_<MKT>_PATIENT_DEMOGRAPHIC	SEM_LAAD_GEOGRAPHY
	RAW_LAAD_<MKT>_PATIENT_PART_D	CLNS_LAAD_<MKT>_PATIENT_PART_D	SEM_LAAD_MODIFIER_CODE
	RAW_LAAD_<MKT>_PLAN	CLNS_LAAD_<MKT>_PLAN	SEM_LAAD_PLAN
	RAW_LAAD_<MKT>_PROCEDURE_CODE	CLNS_LAAD_<MKT>_PROCEDURE_CODE	SEM_LAAD_PROCEDURE_CODE
	RAW_LAAD_<MKT>_PRODUCT	CLNS_LAAD_<MKT>_PRODUCT	SEM_LAAD_PRODUCT
	RAW_LAAD_<MKT>_PROVIDER	CLNS_LAAD_<MKT>_PROVIDER	SEM_LAAD_PROVIDER
	RAW_LAAD_<MKT>_REJECT	CLNS_LAAD_<MKT>_REJECT	SEM_LAAD_REJECT
	RAW_LAAD_<MKT>_SERVICE	CLNS_LAAD_<MKT>_SERVICE	SEM_LAAD_SERVICE
	<MKT> =’ADDICTION,’ ‘ANTI_PSYCH’		
BRD-OBJ-SEM-3	• Patient Centric Master reference will be loaded into Semantic layer where complete historical data will be available. ○ PATIENT COMMERCIAL, PATIENT PART D and PATIENT DEMOGRAPHIC details are maintained separately for Addiction and Anti-Psych markets. ○ DIAGNOSIS_CODE, FACILITY, GEOGRAPHY, MODIFIER_CODE, PLAN, PROCEDURE_CODE, PRODUCT, PROVIDER, REJECT, PLACE OF SERVICE CODE details will be maintained in same table for Addiction and Anti-Psych markets. ▪ While aggregating the data, if there are duplicate observed, the record is taken from the source specified from the XREF – CDE_REF.XREF_LAAD_MARKET_PRIORITY • Below is the mapping of the semantic table field to the source field. LAAD Referential Data.xlsx		

4.12.2.2 FACT DATA

BRD-REQ-RAW-1	**Feed Details** **Feed ID** / **Feed Name** / **Feed Description** 492, 525 / LAAD_<MKT>_Rx_FACT / This feed contains Rx claims data 506, 532 / LAAD_<MKT>_Mx_FACT / This feed contains Mx claims data <MKT> =’ADDICTION,’ ‘ANTI_PSYCH’ **Source:** IQVIA

<table>
<tr><td></td><td>Subject Area: Longitudinal Access and Adjudication Data (LAAD)
Markets: Psychiatry, Addiction
Products: Aristada, Vivitrol, Lybalvi and competitors
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): Yes, last 9 months data is replaced, and net new records received in the current file are appended. This is hardcoded in the Semantic Procedures.
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Ad hoc) – Quarterly
File Received Day/ Date (in case of Weekly/ Monthly/ Quarterly) – Around 15th
MDM Mastering (Yes/No) – No
Business Schema- CDE_SEM_LAAD</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>Tables Covered –<table><tr><th>Raw Table</th><th>Cleanse Table</th><th>Semantic Table</th></tr><tr><td>RAW_LAAD_<MKT>_MX
RAW_LAAD_<MKT>_RX</td><td>CLNS_LAAD_<MKT>_MX
CLNS_LAAD_<MKT>_RX</td><td>SEM_LAAD_<MKT>_MX
SEM_LAAD_<MKT>_RX</td></tr></table><MKT> =’ADDICTION,’ ‘ANTI_PSYCH’</td></tr>
<tr><td>BRD-OBJ-SEM-3</td><td>• Incremental data for Rx FACT and Mx FACT will be loaded into Semantic layer where history will also be maintained.
○ Last 9 months data is replaced, and net new records received in the current file are appended. This is hardcoded in the Semantic Procedures.
• Below is the mapping of the semantic table field to the source field.
LAAD Fact Data.xlsx</td></tr>
</table>

4.12.2.3 PATIENT ACTIVITY DATA

<table>
<tr><td>BRD-REQ-RAW-1</td><td>Feed Details<table><tr><th>Feed ID</th><th>Feed Name</th><th>Feed Description</th></tr><tr><td>516, 527</td><td>LAAD_<MKT>_PATIENT_ACTIVITY_Rx</td><td>This feed contains calendar quarter in which patient appears in universe of Rx Claim</td></tr><tr><td>518, 526</td><td>LAAD_<MKT>_PATIENT_ACTIVITY_Dx</td><td>This feed contains calendar quarter in which patient appears in universe of Dx Claim</td></tr></table><MKT> =’ADDICTION,’ ‘ANTI_PSYCH’
Source: IQVIA
Subject Area: Longitudinal Access and Adjudication Data (LAAD)
Markets: Psychiatry, Addiction
Products: Aristada, Vivitrol, Lybalvi and competitors
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): No</td></tr>
</table>

	Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Ad hoc) – Quarterly **File Received Day/ Date (in case of Weekly/ Monthly/ Quarterly) –** Around 15th **MDM Mastering (Yes/No) –** No **Business Schema**- CDE_SEM_LAAD
BRD-REQ-OBJ-2	**Tables Covered –** **Raw Table** / **Cleanse Table** / **Semantic Table** RAW_LAAD_<MKT>_PATIENT_ACTIVITY_DX / CLNS_LAAD_<MKT>_PATIENT_ACTIVITY_DX / SEM_LAAD_<MKT>_PATIENT_ACTIVITY_DX RAW_LAAD_<MKT>_PATIENT_ACTIVITY_RX / CLNS_LAAD_<MKT>_PATIENT_ACTIVITY_RX / SEM_LAAD_<MKT>_PATIENT_ACTIVITY_RX <MKT> ='ADDICTION,' 'ANTI_PSYCH'
BRD-OBJ-SEM-3	• Incremental data for Rx PATIENT ACTIVITY and Mx PATIENT ACTIVITY will be appended into Semantic layer where history will also be maintained. • Below is the mapping of the semantic table field to the source field. **Source Field** / **Semantic Table Field** PATIENT_ID / PATIENT_ID QUARTER / QUARTER FLEXIBLE_FLD_1_CHAR / FLEXIBLE_FLD_1_CHAR FLEXIBLE_FLD_2_CHAR / FLEXIBLE_FLD_2_CHAR

4.12.3 OUT OF POCKET COST (OPC)

BRD REQ-RAW-1	**Feed Details:** **Feed ID** / **Feed Name** / **Feed Description** 579 / OPC / This feed contains Out of Pocket Costs for Vivitrol CNS (Alcohol dependence) Claims 582 / OPC_Aristada / This feed contains Out of Pocket Costs for Aristada mental health (Antipsychotics Class) Claims **Source**: IQVIA **Subject Area:** Claims **Markets:** Addiction,Psychiatry **Products:** Aristada, Vivitrol **Load strategy (Incremental/ Full) -** Full **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Monthly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** 26 **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	**Tables Covered:** • RAW_OPC_IQVIA_MONTHLY, RAW_OPC_MENTAL_HEALTH_IQVIA • CLNS_OPC_IQVIA_MONTHLY, CLNS_OPC_MENTAL_HEALTH_IQVIA

<table>
<tr><td></td><td>
<ul>
<li>SEM_OPC_IQVIA_MONTHLY</li>
<li>RPT_OPC_IQVIA_MONTHLY</li>
</ul>
</td></tr>
<tr><td>BRD-
REQ-
SEM-3</td><td>
<ul>
<li>Out of Pocket Costs for Vivitrol CNS and Aristada Mental Health Claims starting August 2022 is available in Semantic.</li>
<li>This data is loaded as is from Source without any transformations.</li>
<li>Below is the source to target mapping.</li>
</ul>
<table>
<tr><th>Target table field</th><th>Source field</th></tr>
<tr><td>IQVIA_MAJOR_CLASS</td><td>IQVIA_MAJOR_CLASS</td></tr>
<tr><td>MAJOR_CLASS_ID</td><td>MAJOR_CLASS_ID</td></tr>
<tr><td>IQVIA_MINOR_CLASS</td><td>IQVIA_MINOR_CLASS</td></tr>
<tr><td>USC5</td><td>USC5</td></tr>
<tr><td>ACTUAL_DAYS_SUPPLY</td><td>ACTUAL_DAYS_SUPPLY</td></tr>
<tr><td>DAYS_SUPPLY</td><td>DAYS_SUPPLY</td></tr>
<tr><td>PATIENT_ID</td><td>PATIENT_ID</td></tr>
<tr><td>PHARMACY_CHANNEL</td><td>PHARMACY_CHANNEL</td></tr>
<tr><td>STATE</td><td>STATE</td></tr>
<tr><td>LAST_THREE_MONTHS_YN</td><td>LAST_THREE_MONTHS_YN</td></tr>
<tr><td>LAST_TWELVE_MONTHS_YN</td><td>LAST_TWELVE_MONTHS_YN</td></tr>
<tr><td>SVC_MONTH</td><td>SVC_MONTH</td></tr>
<tr><td>SVC_DT</td><td>SVC_DT</td></tr>
<tr><td>METHOD_OF_PAYMENT</td><td>METHOD_OF_PAYMENT</td></tr>
<tr><td>PRODUCT_BRAND_SUM</td><td>PRODUCT_BRAND_SUM</td></tr>
<tr><td>PRODUCT_FORM_STRENGTH</td><td>PRODUCT_FORM_STRENGTH</td></tr>
<tr><td>FINAL_OPC</td><td>FINAL_OPC</td></tr>
<tr><td>FINAL_OPC_30</td><td>FINAL_OPC_30</td></tr>
<tr><td>NORMALIZED_CLAIMS</td><td>NORMALIZED_CLAIMS</td></tr>
<tr><td>CYC_DATE</td><td>CYC_DATE</td></tr>
<tr><td>RUN_DATE</td><td>RUN_DATE</td></tr>
</table>
</td></tr>
<tr><td>BRD-
REQ-
RPT-4</td><td>
<ul>
<li>Out of Pocket Costs for Vivitrol CNS and Aristada Mental Health Claims starting August 2022 is available in Reporting.</li>
<li>This data is loaded as is from Source without any transformations.</li>
</ul>
</td></tr>
</table>

4.12.4 SOURCE OF BUSINESS (SOB)

4.12.4.1 SOB MONTHLY DATA

BRD-REQ-RAW-1

Feed Details:

Feed ID	Feed Name	Feed Description
182	IMS_SOB_PATIENT	This Feed provides all assigned Source of Business (SOB) to patient for every patient in the cohort
184	IMS_AO	This Feed provides only Add on Source of Business (SOB) to Pharmacy Claims for every patient in the cohort.
186	IMS_SOB	This Feed provides all assigned Source of Business (SOB) to Pharmacy Claims such as Switch, Continue New, Continue Refill, New Therapy Start & Add On
188	IMS_SWT	This Feed provides only Switch Source of Business (SOB) to Pharmacy Claims for every patient in the cohort.
190	IMS_AOSWT	This Feed provides Add On & Switch Source of Business (SOB) to Pharmacy Claims for every patient in the cohort
616	IMS_SOB_PAT_GROUP_SUBNAT_MONTHLY	This data table provides sub-national monthly report for all Source of Business (SOB) to patient for same product group and data is received directly from IQVIA.

Source: IQVIA
Subject Area: Source of Business (SOB)
Markets: Psychiatry
Products: Aristada, Lybalvi and competitors
Load strategy (Incremental/ Full) – Incremental
Restatement (Yes/ No): Yes
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Ad hoc) – Monthly
File Received Day/ Date (in case of Weekly/ Monthly/ Quarterly) – Around last week of Month.
MDM Mastering (Yes/No) – No

BRD-REQ-OBJ-2

Tables Covered –

- RAW_IMS_SOB_PATIENT
- RAW_IMS_AO
- RAW_IMS_SOB

	• RAW_IMS_SWT • RAW_IMS_AOSWT • RAW_IMS_SOB_PAT_GROUP_MONTHLY • CLNS_IMS_SOB_PATIENT • CLNS_IMS_AO • CLNS_IMS_SOB • CLNS_IMS_SWT • CLNS_IMS_AOSWT • CLNS_IMS_SOB_PAT_GROUP_MONTHLY • SEM_SOB_PATIENT • SEM_SOB_ADDON • SEM_SOB • SEM_SOB_SWITCH • SEM_SOB_ADDON_SWITCH • SEM_IMS_SOB_PAT_GROUP_MONTHLY
BRD-OBJ-SEM-4	• SOB Monthly Incremental data will be loaded as is in Semantic where history data will be maintained. • In case of Overlapping MONTH_ID in latest feed and historical data, records from latest feed will be retained. • Below is the mapping of the semantic table field to the source field. SOB%20Source%20Target%20Mapping.

4.12.4.2 SOB PRESCRIBER MONTHLY DATA

BRD-REQ-RAW-1

Feed Details

Feed ID	Feed Name	Feed Description
552	IMS_SOB_PRESCRIBER_MONTHLY	This feed provides sub-national monthly report for all Source of Business (SOB) and data is received directly from IQVIA
553	IMS_SOB_PRESCRIBER_SWT_MONTHLY	This feed provides sub-national monthly report for Switch Source of Business (SOB) and data is received directly from IQVIA
554	IMS_SOB_PRESCRIBER_ADDON_MONTHLY	This feed provides sub-national monthly report for Add On Source of Business (SOB) and data is received directly from IQVIA

	555	IMS_SOB_PRESCRIBER_COMB_MONTHLY	This feed provides sub-national monthly report for both Add On and Switch Source of Business (SOB) and data is received directly from IQVIA
	556	IMS_SOB_PRESCRIBER_PAT_CLASS_MONTHLY	This feed provides sub-national monthly report for all Source of Business (SOB) to patient for same product class and data is received directly from IQVIA
	557	IMS_SOB_PRESCRIBER_PAT_GROUP_MONTHLY	This data table provides sub-national monthly report for all Source of Business (SOB) to patient for same product group and data is received directly from IQVIA

Source: IQVIA
Subject Area: Source of Business
Markets: Psychiatry
Products: Aristada, Lybalvi and their competitors
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): Yes, 11 months of reinstated data
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Ad hoc) – Monthly
File Received Day/ Date (in case of Weekly/ Monthly/ Quarterly) – Last week of Month
MDM Mastering (Yes/No) – No

BRD-REQ-OBJ-2

Tables Covered –

- RAW_IMS_SOB_PRESCRIBER_MONTHLY
- RAW_IMS_SOB_PRESCRIBER_SWT_MONTHLY
- RAW_IMS_SOB_PRESCRIBER_ADDON_MONTHLY
- RAW_IMS_SOB_PRESCRIBER_COMB_MONTHLY
- RAW_IMS_SOB_PRESCRIBER_PAT_CLASS_MONTHLY
- RAW_IMS_SOB_PRESCRIBER_PAT_GROUP_MONTHLY
- CLNS_IMS_SOB_PRESCRIBER_MONTHLY
- CLNS_IMS_SOB_PRESCRIBER_SWT_MONTHLY
- CLNS_IMS_SOB_PRESCRIBER_ADDON_MONTHLY
- CLNS_IMS_SOB_PRESCRIBER_COMB_MONTHLY
- CLNS_IMS_SOB_PRESCRIBER_PAT_CLASS_MONTHLY
- CLNS_IMS_SOB_PRESCRIBER_PAT_GROUP_MONTHLY
- FCT_IMS_SOB_PRESCRIBER_MONTHLY
- FCT_IMS_SOB_PRESCRIBER_SWT_MONTHLY
- FCT_IMS_SOB_PRESCRIBER_ADDON_MONTHLY
- FCT_IMS_SOB_PRESCRIBER_COMB_MONTHLY
- FCT_IMS_SOB_PRESCRIBER_PAT_CLASS_MONTHLY
- FCT_IMS_SOB_PRESCRIBER_PAT_GROUP_MONTHLY
- SEM_IMS_SOB_PRESCRIBER_MONTHLY

<table>
<tr><td></td><td>
<ul>
<li>SEM_IMS_SOB_PRESCRIBER_SWT_MONTHLY</li>
<li>SEM_IMS_SOB_PRESCRIBER_ADDON_MONTHLY</li>
<li>SEM_IMS_SOB_PRESCRIBER_COMB_MONTHLY</li>
<li>SEM_IMS_SOB_PRESCRIBER_PAT_CLASS_MONTHLY</li>
<li>SEM_IMS_SOB_PRESCRIBER_PAT_GROUP_MONTHLY</li>
</ul>
</td></tr>
<tr><td>BRD-OBJ-DWH-3</td><td>
<ul>
<li>Incremental data for SOB Prescriber will be loaded in to DWH layer in respective tables where history will also be maintained.
<ul>
<li>Each Monthly Feed will contain rolling 12 months data (latest 1 month + restatements for last 11 months).</li>
<li>Previous 11 months data on basis of MONTH_ID from latest file will be deleted from historic data.</li>
</ul>
</li>
<li>RPT_PROD_GRP will be populated from dimension tables Product group on basis of Brand with below filters.
<ul>
<li>Product group name as ‘MOLECULE_GROUPING’ and Product group type =’ BRAND’ from Product Group .</li>
<li>Market name as ‘ANTI-PSYCH - ATYPICAL ORAL’ in Market Basket .</li>
</ul>
</li>
<li>Brand Details will be populated from Product Master based on PRODUCT_GROUP</li>
</ul>
</td></tr>
<tr><td>BRD-OBJ-SEM-4</td><td>
<ul>
<li>Incremental data for SOB Prescriber will be loaded into Semantic where history will also be maintained.
<ul>
<li>Each Monthly Feed will contain rolling 12 months data (latest 1 month + restatements for last 11 months).</li>
<li>Previous 11 months data will be considered from latest file; identified based on MONTH_ID</li>
</ul>
</li>
<li>Customer Details will be populated from Customer Master based on Prescriber ID.
<ul>
<li>ALK_ID and Specialty Grouping are sourced from Customer master.</li>
</ul>
</li>
<li>RPT_PROD_GRP will be populated from Product group dimension on basis of Brand with below filters.
<ul>
<li>Product group name as ‘MOLECULE_GROUPING’ and Product group type =’ BRAND’ from Product Group.</li>
<li>Market name as ‘ANTI-PSYCH - ATYPICAL ORAL’ in Market Basket.</li>
<li>**Note-RPT_PROD_GROUP will be populated as NULL for any other Market Basket apart from ANTI-PSYCH - ATYPICAL ORAL.</li>
</ul>
</li>
<li>Brand Details will be populated from Product Master based on PROD_GRP_NAME, fields in this category are mentioned below.
<ul>
<li>BRAND – Populated as PRODUCT_GROUP from Product Group dimension table for PRD_GRP_TYPE as ‘Brand’ based on PROD_GRP from source.</li>
<li>BRAND_COMPETITOR_FLAG- Populated directly from Product Master dimension table based on PROD_GRP from source.</li>
<li>BRANDED_GENERIC - from Product Master dimension table based on PROD_GRP from source.</li>
</ul>
</li>
<li>SPECIALTY_GROUPING will be populated based on Primary Speciality as per below mapping. For Primary Specialty other than specified below, ‘OTHERS’ will be populated.</li>
</ul>
<table>
<tr><th>Source Value (PRIMARY SPECIALTY)</th><th>SPECIALTY GROUPING (Transformed)</th></tr>
<tr><td>NURSE, ASSISTANT</td><td>NP/PA</td></tr>
<tr><td>GENERAL SURGERY</td><td>OTHER</td></tr>
<tr><td>PSYCH, NEUROLOGY</td><td>PSYCHIATRY</td></tr>
<tr><td>FAMILY, INTERNAL, GENERAL</td><td>IM/GP/FM</td></tr>
</table>
</td></tr>
</table>

<table>
<tr>
<td></td>
<td>
<ul>
<li>Indication Group will be populated on Indication as per below mapping for any other cases ‘OTHERS’ will be populated.
<table>
<tr><th>Indication Containing below from Source</th><th>Indication Group</th></tr>
<tr><td>Schizophrenia</td><td>Schizophrenia</td></tr>
<tr><td>Bipolar Disorder</td><td>Bipolar Disorder</td></tr>
</table>
</li>
<li>Below fields are directly mapped from source.</li>
</ul>

SOB%20Prescriber%20Source%20target%
</td>
</tr>
</table>

4.12.5 REVITAS

4.12.5.1 CONTRACT REBATE

<table>
<tr>
<td>BRD-REQ-EXN-1</td>
<td>Feed Description: This file contains Contract Rebate data.
Source: Revitas
Source table: REVITAS_CONTRACT_REBATE_DATA
Markets: Psychiatry, Addiction
Products: Aristada, Lybalvi, Vivitrol
Load strategy (Incremental/ Full) – Full
Restatement (Yes/ No): No
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Weekly
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- Every Thursday
MDM Mastering (Yes/No) – No</td>
</tr>
<tr>
<td>BRD-REQ-OBJ-2</td>
<td>
<ul>
<li>CDE_EXN. REVITAS_CONTRACT_REBATE_DATA</li>
<li>SEM_REVITAS_MEDICAID</li>
</ul>
</td>
</tr>
<tr>
<td>BRD-REQ-SEM-3</td>
<td>
<ul>
<li>Full Revitas Contract Rebate data (from Oct’12) will be fetched (replicated) from Revitas system generated table (REVITAS_CONTRACT_REBATE_DATA).</li>
<li>Below fields will be directly populated from source:
<table>
<tr><th>Source Fields (Exchange)</th><th>Semantic Fields</th></tr>
<tr><td>CONT_NUM</td><td>CONTRACT_NUMBER</td></tr>
<tr><td>CONTRACT_NM</td><td>CONTRACT_NAME</td></tr>
<tr><td>MARKET_TYPE</td><td>MARKET_TYPE</td></tr>
<tr><td>PERIOD</td><td>PERIOD</td></tr>
</table>
</li>
</ul>
</td>
</tr>
</table>

		EARNED_START_DT	EARNED_START_DATE	
		EARNED_END_DT	EARNED_END_DATE	
		SETTLEMENT_DT	SETTLEMENT_DATE	
		TRADING_PARTNER_NAME	TRADING_PARTNER_NAME	
		TRADING_PARTNER_ID	TRADING_PARTNER_ID	
		PRODUCT_ID	PRODUCT_ID	
		PRODUCT_DESCR	PRODUCT_DESCRIPTION	
		WAC_BASIS_PRICE	WAC_BASIS_PRICE	
		REBATE_PCT	REBATE_PCT	
		REBATE_AMT	REBATE_AMOUNT	
		ADMIN_FEE_PCT	ADMIN_FEE_PCT	
		ADMIN_FEE_AMT	ADMIN_FEE_AMOUNT	
		TOTAL_DISCOUNT	TOTAL_DISCOUNT	
		AUTH_QTY	AUTH_QUANTITY	
		REBATE_GL_CODE	REBATE_GL_CODE	
		REBATE_GL_CODE_DESC	REBATE_GL_CODE_DESC	
		ADMIN_FEE_CODE	ADMIN_FEE_CODE	
		ADMIN_GL_CODE_DESC	ADMIN_GL_CODE_DESC	

4.12.5.2 REVITAS MEDICAID

BRD-REQ-EXN-1	**Data Description:** This file contains Revitas Medicaid data. **Subject Area:** Payer Data **Source:** Revitas **Source Table:** REVITAS_MEDICAID_DATA **Markets:** Psychiatry, Addiction **Products:** Aristada, Lybalvi, Vivitrol **Load strategy (Incremental/ Full) -** Full **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Weekly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** Every Friday **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	• CDE_EXN.REVITAS_MEDICAID_DATA • SEM_REVITAS_MEDICAID
BRD-REQ-SEM-3	• Full Revitas Medicaid data (from MAR'15) will be fetched (replicated) from Revitas System generated table (REVITAS_MEDICAID_DATA). • Below fields will be directly populated from source:

Source Fields	Semantic Fields
PERIOD	PERIOD
EARNED_START_DT	EARNED_START_DT
EARNED_END_DT	EARNED_END_DT
SETTLEMENT_DT	SETTLEMENT_DT
STATE_DESC	STATE_DESC
STATE	STATE
CONTRACT_ID	CONTRACT_ID
CONTRACT_NM	CONTRACT_NM
SUPPLEMENTAL	SUPPLEMENTAL
PRODUCT_ID	PRODUCT_ID
PRODUCT_DESCR	PRODUCT_DESCR
STATUS	STATUS
UNITS	UNITS
RPU	RPU
REBATE	REBATE

4.12.5.3 PAYER REBATE SETTLEMENT REPORT

BRD-REQ-EXN-1	**Data Description:** This feed contains Revitas payer rebate settlement report data. **Subject Area:** Payer Data **Source:** Revitas **Source Table:** REVITAS_PAYER_REBATE_SETTLEMENT_REPORT **Markets:** Psychiatry, Addiction **Products:** Aristada, Lybalvi, Vivitrol **Load strategy (Incremental/ Full) -** Full **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Weekly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** Every Sunday **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	• REVITAS_PAYER_REBATE_SETTLEMENT_REPORT • VW_ REVITAS_PAYER_REBATE_SETTLEMENT_REPORT
BRD-REQ-VW-3	• VW_REVITAS_PAYER_REBATE_SETTLEMENT_REPORT will contain Payer Rebate Settlement data from OCT'12 from Revitas System generated table (REVITAS_PAYER_REBATE_SETTLEMENT_REPORT). • Below fields will be directly populated from source:

Source Fields	Semantic Fields
CONTRACT_ID	CONTRACT_ID

		CONTRACT_NAME	CONTRACT_NAME
		PERIOD	PERIOD
		EARNED_START_DATE	EARNED_START_DATE
		EARNED_END_DATE	EARNED_END_DATE
		SETTLEMENT_DATE	SETTLEMENT_DATE
		TRADING_PARTNER_NAME	TRADING_PARTNER_NAME
		TRADING_PARTNER_ID	TRADING_PARTNER_ID
		PRODUCT_ID	PRODUCT_ID
		PRODUCT_DESCRIPTION	PRODUCT_DESCRIPTION
		MARKET_TYPE	MARKET_TYPE
		WAC_BASIS_PRICE	WAC_BASIS_PRICE
		AUTH_QTY	AUTH_QTY
		REBATE_GL_CODE	REBATE_GL_CODE
		REBATE_GL_CODE_DESCRIPTION	REBATE_GL_CODE_DESCRIPTION
		REBATE_PERCENTAGE_MAX	REBATE_PERCENTAGE_MAX
		REBATE_DOLLARS_PAY_AMT	REBATE_DOLLARS_PAY_AMT
		ADMIN_FEE_CODE	ADMIN_FEE_CODE
		ADMIN_GL_CODE_DESCRIPTION	ADMIN_GL_CODE_DESCRIPTION
		ADMIN_FEE_PERCENTAGE_MAX	ADMIN_FEE_PERCENTAGE_MAX
		ADMIN_FEE_DOLLARS_PAY_AMT	ADMIN_FEE_DOLLARS_PAY_AMT
		TOTAL_DISCOUNT_DOLLARS	TOTAL_DISCOUNT_DOLLARS

4.12.5.4 MEDICAID CLAIMS REPORT DATA

BRD-REQ-EXN-1	**Data Description:** This file contains final Revitas Medicaid claims report data. **Subject Area:** Payer Data **Source:** Revitas **Source Table:** REVITAS_MEDICAID_CLAIMS_REPORT_FINAL **Markets:** Psychiatry, Addiction **Products:** Aristada, Lybalvi, Vivitrol **Load strategy (Incremental/ Full) -** Full **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Weekly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** Every Friday **MDM Mastering (Yes/No) –** No

<table>
<tr><td>BRD-REQ-OBJ-2</td><td>• REVITAS_MEDICAID_CLAIMS_REPORT_FINAL
• VW_ REVITAS_MEDICAID_CLAIMS_REPORT_FINAL</td></tr>
<tr><td>BRD-REQ-VW-3</td><td>• VW_REVITAS_MEDICAID_CLAIMS_REPORT_FINAL will contain Medicaid Claims data starting MAR’15, from Revitas system generated table (REVITAS_MEDICAID_CLAIMS_REPORT_FINAL).
• Below fields will be directly populated from source:
<table>
<tr><th>Source Fields</th><th>Semantic Fields</th></tr>
<tr><td>CLAIM_NUMBER</td><td>CLAIM_NUMBER</td></tr>
<tr><td>CLAIM_TYPE</td><td>CLAIM_TYPE</td></tr>
<tr><td>RESUBMISSION_TYPE</td><td>RESUBMISSION_TYPE</td></tr>
<tr><td>ADJUDICATION_ITEM_STA
RT_DATE</td><td>ADJUDICATION_ITEM_START
_DATE</td></tr>
<tr><td>QUARTER</td><td>QUARTER</td></tr>
<tr><td>CMS_RECORD_ID</td><td>CMS_RECORD_ID</td></tr>
<tr><td>STATE_DESC</td><td>STATE_DESC</td></tr>
<tr><td>STATE</td><td>STATE</td></tr>
<tr><td>CONT_NUM</td><td>CONT_NUM</td></tr>
<tr><td>CONTRACTID</td><td>CONTRACTID</td></tr>
<tr><td>CONTRACTNAME</td><td>CONTRACTNAME</td></tr>
<tr><td>SUPPLEMENTAL</td><td>SUPPLEMENTAL</td></tr>
<tr><td>PRODUCT_IDENTIFIER</td><td>PRODUCT_IDENTIFIER</td></tr>
<tr><td>PRODUCT_DESCRIPTION</td><td>PRODUCT_DESCRIPTION</td></tr>
<tr><td>Status</td><td>Status</td></tr>
<tr><td>PAID_UNITS</td><td>PAID_UNITS</td></tr>
<tr><td>PAID_DOLLARS</td><td>PAID_DOLLARS</td></tr>
<tr><td>PRIOR_PAID_UNITS</td><td>PRIOR_PAID_UNITS</td></tr>
<tr><td>PRIOR_PAID_DOLLARS</td><td>PRIOR_PAID_DOLLARS</td></tr>
<tr><td>TOTAL_PAID_DOLLARS</td><td>TOTAL_PAID_DOLLARS</td></tr>
<tr><td>RPU</td><td>RPU</td></tr>
<tr><td>DISPUTED_UNITS</td><td>DISPUTED_UNITS</td></tr>
<tr><td>DISPUTED_DOLLARS</td><td>DISPUTED_DOLLARS</td></tr>
<tr><td>DISMISSED_UNITS</td><td>DISMISSED_UNITS</td></tr>
<tr><td>DISMISSED_DOLLARS</td><td>DISMISSED_DOLLARS</td></tr>
<tr><td>RESOLVED_UNITS</td><td>RESOLVED_UNITS</td></tr>
<tr><td>RESOLVED_DOLLARS</td><td>RESOLVED_DOLLARS</td></tr>
<tr><td>EXTRA_REBATE_FLAG</td><td>EXTRA_REBATE_FLAG</td></tr>
<tr><td>EXTRA_REBATE_TYPE</td><td>EXTRA_REBATE_TYPE</td></tr>
</table></td></tr>
</table>

		EXTRA_AMOUNT	EXTRA_AMOUNT
		ADJ_ITEM_VTEST_FAIL_FLAG	ADJ_ITEM_VTEST_FAIL_FLAG
		LAST_MODIFIED_DATE	LAST_MODIFIED_DATE
		INVOICED_UNITS	INVOICED_UNITS
		INVOICED_DATE	INVOICED_DATE
		SETTLEMENT_KEY	SETTLEMENT_KEY
		ACCOUNTING_ID	ACCOUNTING_ID
		DATE_SENT_TO_ACCOUNTING	DATE_SENT_TO_ACCOUNTING
		DATE_PAID	DATE_PAID
		DATE_PROCESSED_BY_ACCOUNTING	DATE_PROCESSED_BY_ACCOUNTING
		SETTLEMENT_STATUS	SETTLEMENT_STATUS
		SETTLEMENT_METHOD_STATUS	SETTLEMENT_METHOD_STATUS
		IS_PARTIAL_APPLIED_AMOUNT	IS_PARTIAL_APPLIED_AMOUNT
		IS_INTREST_AMOUNT	IS_INTREST_AMOUNT
		INTREST_AMOUNT	INTREST_AMOUNT

4.12.6 IQVIA COPAY DATA

BRD-REQ-RAW-1	**Feed Ids:** 580 **Feed Name:** ALKVIV_DEN_TP_ **Feed Description:** This feed contains copay data for Vivitrol product. **Subject Area:** Patient **Source Name:** IQVIA **Markets:** Addiction **Products:** Vivitrol **Load strategy (Incremental/ Full) -** Incremental **Restatement (Yes/ No):** Yes **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Bi - Monthly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** 2nd and 16th of the month **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	• RAW_COPAY_DATA • CLNS_COPAY_DATA • FCT_COPAY_DATA • SEM_COPAY_DATA • VW_SEM_COPAY_DATA
BRD-REQ-DW-3	• Incremental copay data for Vivitrol will be loaded into the warehouse bi-monthly where history will also be maintained.

<table>
<tr><td></td><td>
<ul>
<li>History is available from May 2001.</li>
</ul>
<ul>
<li>The REVERSAL_FLAG will be populated as ‘Y’ if REDEMPTION is 1 and CLAIM_NUMBER is present as ADJUSTED_CLAIM_NUMBER in complete data (History + Latest File) else it will be populated as ‘N’.</li>
</ul>
</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>
<ul>
<li>Incremental copay data for Vivitrol will be loaded into the semantic bi-monthly where history will also be maintained.
<ul>
<li>History is available from May 2001.</li>
</ul>
</li>
<li>The REVERSAL_FLAG will be populated as ‘Y’ if REDEMPTION is 1 and CLAIM_NUMBER is present as ADJUSTED_CLAIM_NUMBER in complete data (History + Latest File) else it will be populated as ‘N’.</li>
<li>View (VW_SEM_COPAY_DATA) will also contain the latest data including history starting from Jan’2010.</li>
<li>Below fields will be directly populated from source</li>
</ul>
<table>
<tr><th>Source Fields (SEM)</th><th>View Fields</th></tr>
<tr><td>GROUP_NUMBER</td><td>GROUP_NUMBER</td></tr>
<tr><td>GROUP_NAME</td><td>GROUP_NAME</td></tr>
<tr><td>CLAIM_TYPE</td><td>CLAIM_TYPE</td></tr>
<tr><td>REDEMPTION</td><td>REDEMPTION</td></tr>
<tr><td>PATIENT_ID</td><td>PATIENT_ID</td></tr>
<tr><td>CARD_ID_NUMBER</td><td>CARD_ID_NUMBER</td></tr>
<tr><td>CLAIM_NUMBER</td><td>CLAIM_NUMBER</td></tr>
<tr><td>ADJUSTED_CLAIM_NUMBER</td><td>ADJUSTED_CLAIM_NUMBER</td></tr>
<tr><td>SUBMISSION_METHOD</td><td>SUBMISSION_METHOD</td></tr>
<tr><td>NUMBER_OF_BENEFITS</td><td>NUMBER_OF_BENEFITS</td></tr>
<tr><td>INGREDIENT_COST_PAID</td><td>INGREDIENT_COST_PAID</td></tr>
<tr><td>DISPENSING_FEE_PAID</td><td>DISPENSING_FEE_PAID</td></tr>
<tr><td>SALES_TAX_PAID</td><td>SALES_TAX_PAID</td></tr>
<tr><td>COPAY_AMOUNT</td><td>COPAY_AMOUNT</td></tr>
<tr><td>TOTAL_AMOUNT_PAID</td><td>TOTAL_AMOUNT_PAID</td></tr>
<tr><td>USUAL_AND_CUSTOMARY_AMOUNT</td><td>USUAL_AND_CUSTOMARY_AMOUNT</td></tr>
<tr><td>DATE_WRITTEN</td><td>DATE_WRITTEN</td></tr>
<tr><td>DATE_OF_FILL</td><td>DATE_OF_FILL</td></tr>
<tr><td>RECEIVED_DATE</td><td>RECEIVED_DATE</td></tr>
<tr><td>RX_NUMBER</td><td>RX_NUMBER</td></tr>
<tr><td>RX_ORIGIN_CODE</td><td>RX_ORIGIN_CODE</td></tr>
<tr><td>NEW_REFILL_CODE</td><td>NEW_REFILL_CODE</td></tr>
<tr><td>NUMBER_OF_REFILLS</td><td>NUMBER_OF_REFILLS</td></tr>
<tr><td>DAW_CODE</td><td>DAW_CODE</td></tr>
<tr><td>OTHER_COVERAGE</td><td>OTHER_COVERAGE</td></tr>
<tr><td>BASIS_OF_REIMBURSEMENT</td><td>BASIS_OF_REIMBURSEMENT</td></tr>
</table>
</td></tr>
</table>

		NDC	NDC	
		DRUG_NAME	DRUG_NAME	
		DRUG_DOSAGE_FORM	DRUG_DOSAGE_FORM	
		DRUG_STRENGTH	DRUG_STRENGTH	
		PAID_QUANTITY	PAID_QUANTITY	
		DAYS_SUPPLY	DAYS_SUPPLY	
		PHARMACY_NPI	PHARMACY_NPI	
		PHARMACY_NABP_NUMBER	PHARMACY_NABP_NUMBER	
		PHARMACY_NAME	PHARMACY_NAME	
		PHARMACY_ADDRESS_1	PHARMACY_ADDRESS_1	
		PHARMACY_ADDRESS_2	PHARMACY_ADDRESS_2	
		PHARMACY_CITY	PHARMACY_CITY	
		PHARMACY_STATE	PHARMACY_STATE	
		PHARMACY_ZIP	PHARMACY_ZIP	
		PHARMACY_PHONE	PHARMACY_PHONE	
		PHARMACY_GROUP_CODE	PHARMACY_GROUP_CODE	
		MAIL_ORDER_INDICATOR	MAIL_ORDER_INDICATOR	
		DEA	DEA	
		NPI	NPI	
		IMS_ID	IMS_ID	
		PRESCRIBER_FIRST_NAME	PRESCRIBER_FIRST_NAME	
		PRESCRIBER_MIDDLE_NAME	PRESCRIBER_MIDDLE_NAME	
		PRESCRIBER_LAST_NAME	PRESCRIBER_LAST_NAME	
		PRESCRIBER_ADDRESS_1	PRESCRIBER_ADDRESS_1	
		PRESCRIBER_ADDRESS_2	PRESCRIBER_ADDRESS_2	
		PRESCRIBER_CITY	PRESCRIBER_CITY	
		PRESCRIBER_STATE	PRESCRIBER_STATE	
		PRESCRIBER_ZIP_CODE	PRESCRIBER_ZIP_CODE	
		PRESCRIBER_SPECIALTY	PRESCRIBER_SPECIALTY	
		PDRP	PDRP	
		REVERSAL_FLAG	REVERSAL_FLAG	

4.12.7.1 LIQUID HUB STATUS

<table>
<tr><td>BRD-REQ-RAW-1</td><td>Feed Ids: 253
Feed Name: VIVITROL_PATIENT_STATUS_
Feed Description: This feed contains Patient Status data for patients who have used VIVITROL product.
Subject Area: Patient
Markets:
Products: Vivitrol
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): Yes (based on LH_STATUS_KEY)
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Daily
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- NA
MDM Mastering (Yes/No) – Yes</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>• RAW_LQHUB_STATUS
• CLNS_LQHUB_STATUS
• SEM_LQHUB_STATUS</td></tr>
<tr><td>BRD-REQ-SEM-3</td><td>• The Status data for all brands will be received daily and restatements will be applied based on LH_STATUS_KEY. The data for a particular LH_STATUS_KEY will be populated from latest file.
• Prescriber Details (PRESCRIBER_CUST_DIM_ID, HCP_ALK_ID, PRESCRIBER_FIRST_NAME, PRESCRIBER_MIDDLE_NAME and PRESCRIBER_LAST_NAME) will be populated from Customer Master based on ALK_ID, which will be derived from Customer Identifier based on SP_PRESCRIBER_ID.
• Below fields will be directly populated from source
<table>
<tr><th>Target Column</th><th>Source Column</th></tr>
<tr><td>LH_STATUS_KEY</td><td>LH_STATUS_KEY</td></tr>
<tr><td>SP_RECORD_ID</td><td>SP_RECORD_ID</td></tr>
<tr><td>SP_PRESCRIBER_ID</td><td>SP_PRESCRIBER_ID</td></tr>
<tr><td>SR_NO</td><td>SR_NO</td></tr>
<tr><td>REFERRAL_NUMBER</td><td>REFERRAL_NUM</td></tr>
<tr><td>REFERRAL_DATE</td><td>REFERRAL_DT</td></tr>
<tr><td>REFERRAL_SRC</td><td>REFERRAL_SRC</td></tr>
<tr><td>BRAND_NAME</td><td>BRAND_NAME</td></tr>
<tr><td>REFERRED_NDC_CODE</td><td>REFERRED_NDC_CD</td></tr>
<tr><td>RX_NUMBER</td><td>RX_NUM</td></tr>
<tr><td>ICD_CODE</td><td>ICD_CD</td></tr>
<tr><td>PRESCRIBER_NPI</td><td>PRESCRIBER_NPI</td></tr>
<tr><td>PRESCRIBER_DEA</td><td>PRESCRIBER_DEA</td></tr>
<tr><td>PRIMARY_PAYER_BIN</td><td>PRIMARY_PAYER_BIN</td></tr>
</table>
</td></tr>
</table>

		PRIMARY_PAYER_PCN	PRIMARY_PAYER_PCN
		PRIMARY_GROUP	PRIMARY_GRP
		PRIMARY_PAYER_NAME	PRIMARY_PAYER_NAME
		PRIMARY_PAYER_TYPE	PRIMARY_PAYER_TYPE
		PRIMARY_BENEFIT_TYPE	PRIMARY_BENEFIT_TYPE
		PRIMARY_PLAN_NAME	PRIMARY_PLAN_NAME
		PRIMARY_PLAN_TYPE	PRIMARY_PLAN_TYPE
		PRIMARY_PBM_NAME	PRIMARY_PBM_NAME
		PRIMARY_COST_SHARE_AMOUNT	PRIMARY_COST_SHARE_AMT
		PRIMARY_COST_SHARE_TYPE	PRIMARY_COST_SHARE_TYPE
		PRIMARY_DEDUCTIBLE	PRIMARY_DEDUCTIBLE
		PRIMARY_PATIENT_OUT_OF_POCKET_AMOUNT	PRIMARY_PATIENT_OUT_OF_POCKET_AMT
		PRIMARY_PA_REQUIRED	PRIMARY_PA_REQUIRED
		PRIMARY_PA_EXPIRATION_DATE	PRIMARY_PA_EXPIRATION_DT
		LH_PATIENT_ID	LH_PATIENT_ID
		HUB_ID	HUB_ID
		SP_PATIENT_ID	SP_PATIENT_ID
		PATIENT_STATE	PATIENT_STATE
		PATIENT_YOB	PATIENT_YOB
		PATIENT_GENDER	PATIENT_GENDER
		PATIENT_PHI_CONSENT_DATE	PATIENT_PHI_CONSENT_DT
		CURRENT_REFERRAL_STATUS	CURRENT_REFERRAL_STATUS
		STATUS_REASON_CODE	STATUS_REASON_CD
		STATUS_REASON_CODE_DESCRIPTION	STATUS_REASON_CD_DESC
		STATUS_DATE	STATUS_DT
		TRANSFERRED_TO_SP	TRANSFERRED_TO_SP

		PHARMACY_NAME	PHARMACY_NAME
		SRC_KEY	SRC_KEY
		LOC_NPI_NUMBER	LOC_NPI_NUM
		LOC_NCPDP_NUMBER	LOC_NCPDP_NUM
		LOC_DEA	LOC_DEA
		ENROLLMENT_RECEIVED_DATE	ENROLLMENT_RECEIVED_DT
		FFD_REQUEST	FFD_REQUEST
		DATE_FFD_SHIPPED	DT_FFD_SHIPPED
		TRIAGE_DATE	TRIAGE_DT
		INSERT_SRC_FILE_NAME	INSERT_SRC_FILE_NAME
		UPDATE_SRC_FILE_NAME	UPDATE_SRC_FILE_NAME
		INSERT_TIMESTAMP	INSERT_TIMESTAMP
		UPDATE_TIMESTAMP	UPDATE_TIMESTAMP

4.12.7.2 ASEMBIA STATUS/ ASEMBIA ORDER

BRD-REQ-RAW-1	**Feed Ids:** TBD **Feed Name:** Lybalvi_Asembia_HubStatus_Daily_ , Lybalvi_Asembia_HubOrders_Daily_ **Feed Description:** This feed contains Patient Status/Order data for patients who have used Lybalvi product. **Subject Area:** Patient **Markets:** Anti Psychiatry **Products:** Lybalvi **Load strategy (Incremental/ Full) -** Full **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** NA **MDM Mastering (Yes/No) –** Yes
BRD-REQ-OBJ-2	• RAW_ASPN_STATUS, RAW_ASPN_ORDER • CLNS_ASPN_STATUS,CLNS_ASPN_ORDER • SEM_ASPN_STATUS
BRD-REQ-SEM-3	• The Prescriber's ALKID, Prescriber's First and Last Name and CUST_DIM_IDs will be populated from Customer Master based on Prescriber ID

- STATUS_DATETIME will be populated from CLNS_ASPN_STATUS based on HUB_CASEID
- Below fields will be populated from CLNS_ASPN_ORDER

Target fields	Source fields
PRESCRIBER_ID	PRESCRIBER_ID
PRESCRIBER_CUST_DIM_ID	PRESCRIBER_CUST_DIM_ID
HCP_ALK_ID	HCP_ALK_ID
COPAY_CARD_APPLIED	COPAY_CARD_APPLIED
FILL_DATE	FILL_DATE
FILL_QUANTITY	FILL_QUANTITY
SHIP_DATE	SHIP_DATE
TRIAGE_PHARMACY_ADDRESS1	TRIAGE_PHARMACY_ADDRESS1
TRIAGE_PHARMACY_ADDRESS2	TRIAGE_PHARMACY_ADDRESS2
TRIAGE_PHARMACY_CITY	TRIAGE_PHARMACY_CITY
TRIAGE_PHARMACY_NAME	TRIAGE_PHARMACY_NAME
TRIAGE_PHARMACY_NCPDP	TRIAGE_PHARMACY_NCPDP
TRIAGE_PHARMACY_STATE	TRIAGE_PHARMACY_STATE
TRIAGE_PHARMACY_ZIPCODE	TRIAGE_PHARMACY_ZIPCODE
HCP_FACILITY_ID	HCP_FACILITY_ID
HCP_FACILITY_NAME	HCP_FACILITY_NAME
HCP_FACILITY_ZIP	HCP_FACILITY_ZIP
HCP_FIRST_NAME	HCP_FIRST_NAME
HCP_LAST_NAME	HCP_LAST_NAME
HCP_NPI_NUMBER	HCP_NPI_NUMBER
OFFICE_CONTACT_EMAIL	OFFICE_CONTACT_EMAIL
OFFICE_CONTACT_FAX	OFFICE_CONTACT_FAX
OFFICE_CONTACT_PHONE	OFFICE_CONTACT_PHONE
OFFICE_CONTACT_TITLE	OFFICE_CONTACT_TITLE
PRIMARY_BIN	PRIMARY_BIN
PRIMARY_GROUP_NUMBER	PRIMARY_GROUP_NUMBER
PRIMARY_PAYER_NAME	PRIMARY_PAYER_NAME
PRIMARY_PAYER_TYPE	PRIMARY_PAYER_TYPE
PRIMARY_PCN	PRIMARY_PCN
PRIMARY_PLAN_NAME	PRIMARY_PLAN_NAME
SECONDARY_BIN	SECONDARY_BIN
SECONDARY_GROUP_NUMBER	SECONDARY_GROUP_NUMBER

	SECONDARY_ICD_CODE	SECONDARY_ICD_CODE
	SECONDARY_PAYER_NAME	SECONDARY_PAYER_NAME
	SECONDARY_PAYER_TYPE	SECONDARY_PAYER_TYPE
	SECONDARY_PCN	SECONDARY_PCN
	SECONDARY_PLAN_NAME	SECONDARY_PLAN_NAME
	CASE_STATUS	CASE_STATUS
	CASE_SUBSTATUS	CASE_SUBSTATUS
	STATUS_DATETIME	STATUS_DATETIME
	ENROLLMENT_SOURCE	ENROLLMENT_SOURCE
	HUB_CASEID	HUB_CASEID
	HUB_PATIENTID	HUB_PATIENTID
	REFERRAL_RECEIPT_DATE	REFERRAL_RECEIPT_DATE
	REFERRAL_TYPE	REFERRAL_TYPE
	FILL_TYPE	FILL_TYPE
	APPEAL_DENIAL_REASON	APPEAL_DENIAL_REASON
	APPEAL_OUTCOME	APPEAL_OUTCOME
	PA_DENIAL_REASON	PA_DENIAL_REASON
	PA_EFFECTIVE_DATE	PA_EFFECTIVE_DATE
	PA_EXPIRATION_DATE	PA_EXPIRATION_DATE
	PRIMARY_BENEFITS_INVESTIGATION_START_DATETIME	PRIMARY_BENEFITS_INVESTIGATION_START_DATETIME
	PRIMARY_BENEFITS_INVESTIGATION_STOP_DATETIME	PRIMARY_BENEFITS_INVESTIGATION_STOP_DATETIME
	PRIOR_AUTHORIZATION_OUTCOME	PRIOR_AUTHORIZATION_OUTCOME
	PRIOR_AUTHORIZATION_STARTDATETIME	PRIOR_AUTHORIZATION_STARTDATETIME
	PRIOR_AUTHORIZATION_STOPDATETIME	PRIOR_AUTHORIZATION_STOPDATETIME
	BENEFIT_COVERED	BENEFIT_COVERED
	DAYS_SUPPLY	DAYS_SUPPLY
	DRUG_NAME	DRUG_NAME
	DRUG_STRENGTH	DRUG_STRENGTH
	FILL_NUMBER	FILL_NUMBER
	NDC_NUMBER	NDC_NUMBER
	PRIMARY_ICD_CODE	PRIMARY_ICD_CODE
	RX_DIRECTIONS	RX_DIRECTIONS
	RX_UNIT_OF_MEASURE	RX_UNIT_OF_MEASURE
	RX_WRITTEN_DATE	RX_WRITTEN_DATE
	RX_WRITTEN_QUANTITY	RX_WRITTEN_QUANTITY

	RX_WRITTEN_REFILLS	RX_WRITTEN_REFILLS

4.12.8 MCKESSON

4.12.8.1 MCKESSON CLAIMS

BRD-REQ-RAW-1	**Feed Ids:** 468 **Feed Name:** 7158_CLAIMS_ **Feed Description:** This feed contains Claims data for Aristada and Vivitrol products only. **Subject Area:** Patient **Markets:** Psychiatry, Addiction **Products:** Aristada and Vivitrol **Load strategy (Incremental/ Full) -** Incremental **Restatement (Yes/ No):** Yes **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Weekly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** Tuesday **MDM Mastering (Yes/No) –** Yes
BRD-REQ-OBJ-2	• RAW_MCKESSON_CLAIMS • CLNS_MCKESSON_CLAIMS • FCT_MCKESSON_CLAIMS • SEM_MCKESSON_CLAIMS • VW_SEM_MCKESSON_CLAIMS
BRD-REQ-DW-2	• The Claims data for Aristada and Vivitrol will be received weekly, and restatements will be applied based on TRANSACTION_ID and TRANSACTION_STATUS. The data for a particular combination of TRANSACTION_ID and TRANSACTION_STATUS will be populated from latest file. • **PHARMACY_CUST_DIM_ID and PRESCRIBER_CUST_DIM_ID** will be populated from Customer Dimension based on ALK_ID, which will be derived from Customer Identifier based on MCKESSON_PHARM_ID and MCKESSON_PRESCRIBER_ID respectively, and SOURCE as 'MCKSN'. • **PROD_DIM_ID** will be populated from Product Master based on NDC_NUM. • **DT_SUBMITTED_ID** will be populated as CALENDAR_ID from Calendar Dimension based on DT_SUBMITTED. • **DT_SUBMITTED_SPLIT_WEEK_ID** will be populated from Split Week Calendar based on DT_SUBMITTED. • VW_SEM_MCKESSON_CLAIMS will also hold Claims detail starting Jan 2016. • Below fields will be populated based on CLAIM_COUNTER value:

Fields	Logic Used
OPC_AFTER_BENEFIT	If CLAIM_COUNTER is -1 Then OPC_AFTER_BENEFIT*(-1), else OPC_AFTER_BENEFIT
OPC_BEFORE_BENEFIT	If CLAIM_COUNTER is -1 Then OPC_BEFORE_BENEFIT*(-1), else OPC_BEFORE_BENEFIT
BENEFIT_PAID	If CLAIM_COUNTER is -1 Then BENEFIT_PAID*(-1), else BENEFIT_PAID

		PROGRAM_LIFETIME_BENEFIT	If CLAIM_COUNTER is -1 Then PROGRAM_LIFETIME_BENEFIT*(-1), else PROGRAM_LIFETIME_BENEFIT
		SUBMITTED_COPAY	If CLAIM_COUNTER is -1 Then SUBMITTED_COPAY*(-1), else SUBMITTED_COPAY
		QUANTITY	If CLAIM_COUNTER is -1 Then QUANTITY *(-1), else QUANTITY

BRD-REQ-SEM-3

- The Claims data for Aristada and Vivitrol will be received weekly, and restatements will be applied based on TRANSACTION_ID and TRANSACTION_STATUS. The data for a particular combination of TRANSACTION_ID and TRANSACTION_STATUS will be populated from latest file.
- **Pharmacy and Prescriber details** (PHARMACY_CUST_DIM_ID, PHARMACY_ALK_ID, PRESCRIBER_CUST_DIM_ID and PRESCRIBER_ALK_ID) will be populated from Customer Master based on MCKESSON_PHARM_ID and MCKESSON_PRESCRIBER_ID respectively.
- **Product details** (PROD_DIM_ID, BRAND and PRODUCT_NAME) will be populated from Product Master based on NDC_NUM.
- **Enrollment_Flag** will be populated as 'False' if CARD_ID and GROUP_NUMBER will not be available in SEM_MCKESSON_ENROLLMENT, else it will be 'True'.
- **SPLIT_WEEK_DATE** & **MONTH** will be populated as SW_END_DATE & CALENDAR_MONTH_START_DATE from SEM_SPLIT_WEEK_CALENDAR based on DT_SUBMITTED.
- Below fields will be populated based on CLAIM_COUNTER value:

Fields	Logic Used
OPC_AFTER_BENEFIT	If CLAIM_COUNTER is -1 Then OPC_AFTER_BENEFIT*(-1), else OPC_AFTER_BENEFIT
OPC_BEFORE_BENEFIT	If CLAIM_COUNTER is -1 Then OPC_BEFORE_BENEFIT*(-1), else OPC_BEFORE_BENEFIT
BENEFIT_PAID	If CLAIM_COUNTER is -1 Then BENEFIT_PAID*(-1), else BENEFIT_PAID
PROGRAM_LIFETIME_BENEFIT	If CLAIM_COUNTER is -1 Then PROGRAM_LIFETIME_BENEFIT*(-1), else PROGRAM_LIFETIME_BENEFIT
SUBMITTED_COPAY	If CLAIM_COUNTER is -1 Then SUBMITTED_COPAY*(-1), else SUBMITTED_COPAY
QUANTITY	If CLAIM_COUNTER is -1 Then QUANTITY *(-1), else QUANTITY

- **Week** will be populated as WEEKENDING_FRIDAY from SEM_CALENDAR based on DT_SUBMITTED.
- VW_SEM_MCKESSON_CLAIMS will also hold Claims detail starting Jan 2016.
- Below fields will be directly populated from Source -

Target Column	Source Column
AGE	AGE
PATIENT_GENDER	PATIENT_GENDER
GROUP_NUMBER	GRP_NUM
GROUP_DESCRIPTION	GRP_DESC
CARD_ID	CARD_ID
NDC_NUMBER	NDC_NUM
SRC_NCPDP	NCPDP
SRC_PHARMACY_NPI	PHARMACY_NPI
SRC_PHARMACY_NAME	PHARMACY_NAME
SRC_PHARMACY_ADDRESS_1	PHARMACY_ADDR_1
SRC_PHARMACY_ADDRESS_2	PHARMACY_ADDR_2
SRC_PHARMACY_CITY	PHARMACY_CITY
SRC_PHARMACY_STATE	PHARMACY_STATE
SRC_PHARMACY_ZIP	PHARMACY_ZIP
SRC_PHARMACY_TYPE	PHARMACY_TYPE
SRC_PHARMACY_CLASS	PHARMACY_CLASS
PHARMACY_CHAIN_CD	PHARMACY_CHAIN_CD
PHARMACY_CHAIN_NAME	PHARMACY_CHAIN_NAME
SRC_PRESCRIBER_NPI_NUMBER	PRESCRIBER_NPI_NUM
SRC_PRESCRIBER_DEA_NUMBER	PRESCRIBER_DEA_NUM
SRC_PRESCRIBER_ME_NUMBER	PRESCRIBER_ME_NUM
SRC_PRESCRIBER_FIRST_NAME	PRESCRIBER_FIRST
SRC_PRESCRIBER_MIDDLE_NAME	PRESCRIBER_MIDDLE
SRC_PRESCRIBER_LAST_NAME	PRESCRIBER_LAST
SRC_PRESCRIBER_NAME	PRESCRIBER_NAME
SRC_PRESCRIBER_ADDRESS_1	PRESCRIBER_ADDR_1
SRC_PRESCRIBER_ADDRESS_2	PRESCRIBER_ADDR_2
SRC_PRESCRIBER_CITY	PRESCRIBER_CITY
SRC_PRESCRIBER_STATE	PRESCRIBER_STATE
SRC_PRESCRIBER_ZIP	PRESCRIBER_ZIP
NPI_TAXONOMY_CD	NPI_TAXONOMY_CD
SRC_PRESCRIBER_SPECIALTY	PRESCRIBER_SPECIALTY
PRESCRIBER_SPECIALTY_DESCRIPTION	PRESCRIBER_SPECIALTY_DESC
SRC_AMA_OPT_OUT	AMA_OPT_OUT

		TRANSACTION_ID	TRANSACTION_ID
		TRANSACTION_STATUS	TRANSACTION_STATUS
		TRANSACTION_STATUS_DESCRIPTION	TRANSACTION_STATUS_DESC
		CLAIM_TYPE	CLAIM_TYPE
		OTHER_COVERAGE_CD	OTHER_COVERAGE_CD
		PRIMARY_SECONDARY_CD	PRIMARY_SECONDARY_CD
		PRIMARY_SECONDARY_DESCRIPTION	PRIMARY_SECONDARY_DESC
		COMMERCIAL_COVERAGE	COMMERCIAL_COVERAGE
		RX_ORIGIN	RX_ORIGIN
		DATE_SUBMITTED	DT_SUBMITTED
		QUANTITY	QUANTITY
		DAYS_SUPPLIED	DAYS_SUPPLIED
		MAX_REFILLS	MAX_REFILLS
		REFILL_NUMBER	REFILL_NUM
		OPC_AFTER_BENEFIT	OPC_AFTER_BENEFIT
		OPC_BEFORE_BENEFIT	OPC_BEFORE_BENEFIT
		BENEFIT_PAID	BENEFIT_PAID
		PROGRAM_LIFETIME_BENEFIT	PROGRAM_LIFETIME_BENEFIT
		SUBMITTED_COPAY	SUBMITTED_COPAY
		DISPENSING_CLASS_DESCRIPTION	DISPENSING_CLASS_DESC
		PRICE_SCHEDULE_PRICE_TYPE	PRICE_SCHEDULE_PRICE_TYPE
		PROGRAM_FILL_COUNT	PROGRAM_FILL_CNT
		CLAIM_COUNTER	CLAIM_COUNTER
		INGREDIENT_COST	INGREDIENT_COST
		WAC	WAC
		PRIMARY_PAYER_BIN	PRIMARY_PAYER_BIN
		DRUG_STRENGTH	DRUG_STRENGTH

4.12.8.2 MCKESSON ENROLLMENT

BRD-REQ-RAW-1	**Feed Ids:** 467 **Feed Name:** 7158_ENROLLMENT_ **Feed Description:** This feed contains Patient Enrollment data. **Subject Area:** Patient **Markets:** Psychiatry **Products:** Aristada and Lybalvi **Load strategy (Incremental/ Full) -** Incremental

<table>
<tr><td></td><td>Restatement (Yes/ No): Yes
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Weekly
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- Tuesday
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td><ul><li>RAW_MCKESSON_ENROLLMENT</li><li>CLNS_MCKESSON_ENROLLMENT</li><li>SEM_MCKESSON_ENROLLMENT</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-3</td><td><ul><li>The Enrollment data for Aristada and Lybalvi will be received weekly, and restatements will be applied based on CARD_ID, ENROLLMENT_DATE and GROUP_NUMBER. The data for a particular combination of CARD_ID, ENROLLMENT_DATE and GROUP_NUMBER will be populated from latest file.</li><li>Product details (PROD_DIM_ID, BRAND and PRODUCT_NAME) will be populated from Product Master and MAP_PROD_EXT_ID based on GROUP_NUMBER with SRC as 'MCKESSON ENROLLMENT'.</li><li>Below fields will be populated directly from source:</li></ul>
<table>
<tr><th>Target Field</th><th>Source Field</th></tr>
<tr><td>PATIENT_ZIP</td><td>PATIENT_ZIP</td></tr>
<tr><td>GROUP_NUMBER</td><td>GRP_NUM</td></tr>
<tr><td>GROUP_DESCRIPTION</td><td>GRP_DESC</td></tr>
<tr><td>CARD_ID</td><td>CARD_ID</td></tr>
<tr><td>CARD_TYPE</td><td>CARD_TYPE</td></tr>
<tr><td>DISTRIBUTION_METHOD</td><td>DISTRIBUTION_METHOD</td></tr>
<tr><td>ENROLLMENT_CHANNEL</td><td>ENROLLMENT_CHANNEL</td></tr>
<tr><td>ENROLLMENT_DATE</td><td>ENROLLMENT_DT</td></tr>
<tr><td>RE_ENROLLMENT_DATE</td><td>RE_ENROLLMENT_DT</td></tr>
<tr><td>CARD_REPLACEMENT</td><td>CARD_REPLACEMENT</td></tr>
<tr><td>COPAY_OPT_IN</td><td>COPAY_OPT_IN</td></tr>
<tr><td>AGE_ATTESTATION</td><td>AGE_ATTESTATION</td></tr>
<tr><td>COPAY_OPT_IN_EMAIL</td><td>COPAY_OPT_IN_EMAIL</td></tr>
<tr><td>OPT_IN_TEXT</td><td>OPT_IN_TEXT</td></tr>
</table></td></tr>
</table>

4.12.9 ASSIST RX PAP (PATIENT ASSISTANCE PROGRAM)

BRD-REQ-RAW-1	**Feed Ids:** 485 **Feed Name:** ALLCARE_PAP_SHIPMENTS_ **Feed Description:** This feed contains data from Patient Assistance Program for Aristada, Vivitrol and Lybalvi products such as shipment data, transactional etc. **Subject Area:** Patient **Source Name:** AssistRx **Markets:** Addiction, Psychiatry

<table>
<tr><td></td><td>Products: Aristada, Vivitrol, Lybalvi
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): Yes
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Daily
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- NA
MDM Mastering (Yes/No) – Yes</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>• RAW_PAP
• CLNS_PAP
• FCT_PAP
• SEM_PAP</td></tr>
<tr><td>BRD-REQ-DW-3</td><td>• The PAP (Patient Assistance Program) data for all products will be received daily, and restatements will be applied based on PM_ID, ORDER_NUM, SRC_DG_NDC_NBR, TX_DT_FILLED_DIM_ID and SHIP_ON_DT_DIM_ID. The data for a particular combination of PM_ID, ORDER_NUM, SRC_DG_NDC_NBR, TX_DT_FILLED_DIM_ID and SHIP_ON_DT_DIM_ID will be populated from latest file.
• PAP_PRESC_CUST_DIM_ID will be populated from Customer Dimension based on ALK_ID, which will be derived from Customer Identifier based on PAP_PRESC_ID, and SOURCE as ‘PAP’.
• TX_DT_FILLED_DIM_ID, SHIP_ON_DT_DIM_ID and RX_DT_WRITTEN_DIM_ID will be populated from DIM_CALENDAR based on TX_DT_FILLED, SHIP_ON_DT and RX_DT_WRITTEN respectively.
• TX_DT_FILLED_SPLIT_WEEK_ID will be populated from DIM_SPLIT_WEEK_CALENDAR based on TX_DT_FILLED.
• PROD_DIM_ID will be populated from DIM_PROD_MSTR based on DG_NDC_NBR.</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>• The PAP (Patient Assistance Program) data for all products will be received daily, and restatements will be applied based on PM_ID, ORDER_NUM, SRC_DG_NDC_NBR, TX_DT_FILLED_DIM_ID and SHIP_ON_DT_DIM_ID. The data for a particular combination of PM_ID, ORDER_NUM, SRC_DG_NDC_NBR, TX_DT_FILLED_DIM_ID and SHIP_ON_DT_DIM_ID will be populated from latest file.
• Customer details (ALK_ID) will be populated from Customer Master table based on PAP_PRESC_ID.
• Product details (PROD_DIM_ID, BRAND and PRODUCT_NAME) will be populated from Product Master table based on DG_NDC_NBR.
• WEEK will be populated as WEEKENDING_FRIDAY from SEM_CALENDAR based on TX_DT_FILLED.
• SPLIT_WEEK_DATE and MONTH will be populated as SW_END_DATE and CALENDAR_MONTH_START_DATE from SEM_SPLIT_WEEK_CALENDAR based on TX_DT_FILLED.
• Below fields are directly populated from source:
<table>
<tr><th>Source Column</th><th>Target Column</th></tr>
<tr><td>QUANTITY</td><td>VIAL_QUANTITY</td></tr>
<tr><td>PRESCRIBER_NAME</td><td>SRC_PRESCRIBER_NAME</td></tr>
<tr><td>PRESCRIBER_NPI</td><td>SRC_PRESCRIBER_NPI</td></tr>
<tr><td>DR_DOCTOR_ADDR</td><td>SRC_DR_DOCTOR_ADDR</td></tr>
</table></td></tr>
</table>

		DR_CITY	SRC_DR_CITY	
		DR_STATE	SRC_DR_STATE	
		DR_MAIN_PHONE	SRC_DR_MAIN_PHONE	
		DR_DOCTOR_DEA_NBR	SRC_DR_DOCTOR_DEA_NBR	
		DG_NDC_NBR	SRC_DG_NDC_NBR	
		NEW_RX	NEW_RX	
		NEW_PATIENT	NEW_PATIENT	
		TX_DATE_FILLED	TX_DATE_FILLED	
		SHIP_ON_DATE	SHIP_ON_DATE	
		RX_DATE_WRITTEN	RX_DATE_WRITTEN	

4.12.10 PATIENT HUB

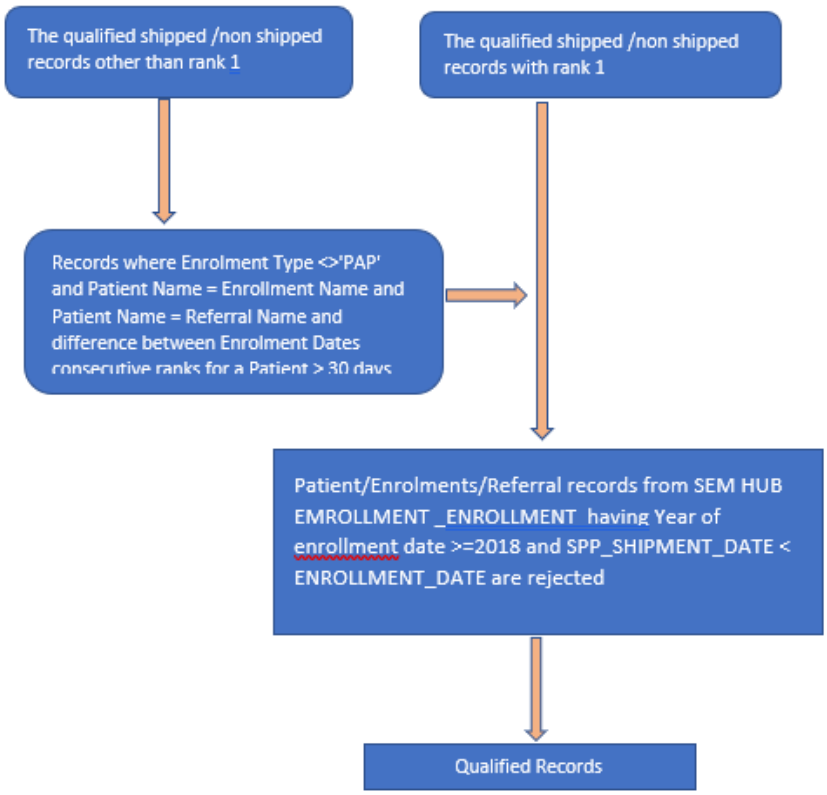
4.12.10.1 HUB ENROLLMENT

BRD-REQ-EXN-1	**Source:** Patient HUB **Source Objects-Load Strategy/ Frequency:** SEM HUB Enrolment sourced from the below objects in patient hub which are synced to CDE3.0 system. **Full Replication** (Daily →Mon-Fri) 1. HUB_PROGRAM_MEMBER_MVN__C – Program Member 2. HUB_ENROLLMENT_ALK__C- Enrollment_ALK__c • Data filtered by Program_ALK__C field for Product **Vivitrol** only. 3. HUB_REFERRAL_MVN__C- Referral 4. HUB_STATUS_ALK__C- Status 5. HUB_SHIPMENT_ALK__C- Shipment 6. HUB_ALL_ENROLLMENT_ALK__C- Enrollment **Incremental Replication** (Daily →Mon-Fri) 7. HUB_ENROLLMENT- Enrollment_ALK__c 8. HUB_ENROLLMENT_REFERRAL--Referral_MVN__c **Subject Area:** Patient Enrollments/Referrals **Markets:** Psychiatry, Addiction **Products:** Aristada, Lybalvi ,Vivitrol **MDM Mastering:** NO
BRD-REQ-SEM-2	**SEM_HUB_ENROLLEMENT** captures data from **(**Program Member, Enrollment_ALK__c, Referral, Status, Shipment and Enrolment, Enrollment_ALK__c, Referral_MVN__c) from Service Cloud for Patient access at

	the Enrollment Granularity. Here unique key is ENROLLMENT_ID+REFERRAL_ID. It contains current and historic enrollments from Exchange. Enrollments are available from 2018-08-01 till date. **Logic for Identification of Shipped and Non-Shipped Patients from HUB_PROGRAM_MEMBER_MVN__C, HUB_ENROLLMENT_ALK__C, HUB_REFERRAL_MVN__C** • Fetch patients, enrollments and referrals from source Program Member (HUB_PROGRAM_MEMBER_MVN__C) , Enrollment_ALK__c (HUB_ENROLLMENT_ALK__C), Referral (HUB_REFERRAL_MVN__C) for shipped (triage date and ship date is not null) and non-shipped records where CREATEDDATE greater than '2017-08-01' are qualified for SEM_HUB_ENROLLMENT. • Shipped/Non-Shipped Patients are ranked based on enrollment date, ship date, triage date, createdate and records with earliest date from following date combinations- Referral Latest Shipment Date, Status Last Shipment Date, Status Record Date, Status Created Date, Shipment Create Date, Shipment Shipped Date.

Business logic based on Rank:

- Consider Patient records with Rank=1 and any records where Enrolment Type <>'PAP' and Patient Name = Enrollment Name and Patient Name = Referral Name and difference between Enrolment Dates consecutive ranks for a Patient > 30 days.



Field with Business Logic involved:

1. **Logic for REROUTES**:
   REROUTES is set to 'Y' if There are multiple 'sppdisplayname' against a particular enrolment in Pharmacy Alignment XREF OR If enrolment name in Hub referral is not null and its reason in Hub Status is either 'PATIENT TRANSFERRED BACK TO HUB' or 'TRIAGED TO OTHER SP'
   For all other scenarios except above, it is set to 'N'.
2. **Fill Status** flag will be 'F' either if SHIP DATE is not null or [SHIP DATE IS NULL AND SPP SHIPMENT DATE from HUB_ENROLLMENT_REFERRAL IS NULL and MIN_SHIP_DATE IS not NULL] else 'U'.

   For reference: Look Ship date and MIN_SHIP_DATE population logic **at point 5.**
3. **SPP SHIPMENT DATE** will be populated as SPP SHIPMENT DATE from Referral_MVN__c when SHIP DATE is null and SPP SHIPMENT DATE is not null else SHIP DATE when SHIP DATE is not null. In case above two scenario is not applicable the MINIMUM SHIP DATE when both (SHIP DATE, SPP SHIPMENT DATE) are NULL and MINIMUM SHIP DATE is not null.

   For reference: Look Ship date and MIN_SHIP_DATE population logic **at point 5.**
4. **SECONDARY_DIAGNOSIS** will be set as 'Alcohol and Opioid Dependence' If [indication from HUB_ENROLLMENT is ALCOHOL DEPENDENCE and secondary diagnostics contains '11.2'] or [Indication is OPIOID DEPENDENCE and secondary diagnostics contains '10.2']. All other scenarios Indication from HUB_ENROLLMENT is populated.
5. **SHIP_DATE Population logic**
   SHIP_DATE will be populated based on combination of "Patient Name, Enrolment Name, Referral Name, Enrolment Date ALK, Referral Create Date, Triage Date, Dispensing Pharmacy Name", earliest date is chosen among Referral Latest Shipment Date, Status Last Shipment Date, Status Record Date, Status Created Date, Shipment Create Date, Shipment Shipped Date'
   MIN_SHIP_DATE Population Logic
   MIN_SHIP_DATE is populated based on combination of ENROLLMENT NAME and ENROLLMENT ID, earliest SPP_SHIPMENT_DATE is chosen from 'SEM_HUB_ENROLLMENT_SPECIALTY_PHARMACY' table.
6. **PRESCRIBING_PROVIDER_ALK_ID** will be populated as ALK_ID from Customer Identifier If prescribing provider hub id exists, else PRESCRIBING_PROVIDER_ALK_ID from HUB_ENROLLMENT.
7. **PRESCRIBING_PROVIDER_IS_INJECTION_PROVIDER** will be 'Y' in case either prescribing provider hub id or Injection Provider Hub ID is available in Customer Identifier. Else 'N'
8. **ENROLLMENT_INJECTION_PROVIDER_ALK_ID** will be populated as ALKID from customer identifier for source id Injection Provider Hub ID else INJECTION_PROVIDER_ALK_Id from HUB_ENROLLMENT.
9. **ENROLLMENT_PRESCRIBER_ALK_ID** will be populated as ALKID from customer identifier for source id Prescriber Hub ID else Prescriber ALK ID from HUB_ENROLLMENT.
10. Fetch **PRESCRIBER_HUB_ID** from HUB_ENROLLMENT if prescriber hub id in HUB_ENROLLMENT_REFERRAL is null else from HUB_ENROLLMENT_REFERRAL.
11. **PRESCRIBER_ALK_ID** will be populated as ALKID from customer identifier for source id- prescriber hub id from HUB_ENROLLMENT or HUB_ENROLLMENT_REFERRAL in respective order else prescriber ALKID from HUB_ENROLLMENT.

12. **PRESCRIBER NAME and ADDRESS DETAILS** will be populated as below logic**:**
If prescriber hub id is null, Include PRESCRIBER NAME and ADDRESS details from HUB_ENROLLMENT else from HUB_ENROLLMENT_REFERRAL.

13. **REFERRAL_INJECTION_PROVIDER_HUB_ID** will be populated from referral MVN if injection provider hub id is not null else from Enrollment Alk.
14. **REFERRAL_INJECTION_PROVIDER_ALK_ID** will be populated as
ALKID from customer identifier for source id injection provider hub id from HUB_ENROLLMENT or HUB_ENROLLMENT_REFERRAL in respective order else injection provider ALKID from HUB_ENROLLMENT.

15. **INJECTION PROVIDER FACILITY NAME/ADDRESS DETAILS**
Populate INJECTION PROVIDER FACILITY NAME/ADDRESS DETAILS from HUB_ENROLLMENT_REFERRAL If injection provider hub id is not null else from HUB_ENROLLMENT.

Below fields are directly Mapped from their respective source table:

Target Fields	Source Field (HUB_ENROLLMENT)
REFERRAL_ID	REFERRAL_ID
REFERRAL_NAME	REFERRAL_NAME
REFERRAL_STATUS	REFERRAL_STATUS
REFERRAL_STATUS_REASON	REFERRAL_STATUS_REASON
REFERRAL_STATUS_DATE	REFERRAL_STATUS_DATE
REFERRAL_PRIMARY_INSURANCE_NAME	REFERRAL_PRIMARY_INSURANCE_NAME
REFERRAL_PRIMARY_INSURANCE_PLANNAME	REFERRAL_PRIMARY_INSURANCE_PLANNAME
POLICY_PAYER_NAME	POLICY_PAYER_NAME
ENROLLMENT_SENT_TO_SPP	ENROLLMENT_SENT_TO_SPP
ENROLLMENT_SENT_TO_SPP_DATE	ENROLLMENT_SENT_TO_SPP_DATE
SPP_RECEIVING_ENROLLMENT	SPP_RECEIVING_ENROLLMENT
PRESCRIBER_STATE_LICENSE_NUMBER	PRESCRIBER_STATE_LICENSE_NUMBER
REFERRAL_NUMBER_OF_SHIPMENTS	REFERRAL_NUMBER_OF_SHIPMENTS

Target Fields	Source Field (HUB_ENROLLMENT_REFERRAL)
PATIENT_ID	PATIENT_ID
ENROLLMENT_ID	ENROLLMENT_ID
ENROLLMENT_NAME	ENROLLMENT_NAME
ENROLLMENT_TYPE	ENROLLMENT_TYPE
PROGRAM_MEMBER_NAME	PROGRAM_MEMBER_NAME
ENROLLMENT_DATE	ENROLLMENT_DATE
ENROLLMENT_FAXED_DATE	ENROLLMENT_FAXED_DATE
ENROLLMENT_ENTERED_DATE	ENROLLMENT_ENTERED_DATE
ENROLLMENT_INITIALLY_COMPLETE	ENROLLMENT_INITIALLY_COMPLETE
MISSING_INFO_STARTED_ON	MISSING_INFO_STARTED_ON
ENROLLMENT_PRIMARY_INSURANCE_NAME	ENROLLMENT_PRIMARY_INSURANCE_NAME
ENROLLMENT_PRIMARY_INSURANCE_TYPE	ENROLLMENT_PRIMARY_INSURANCE_TYPE
ENROLLMENT_PRIMARY_INSURANCE_PLAN NAME	ENROLLMENT_PRIMARY_INSURANCE_PLANNAME
PRIOR_AUTH_REQUIRED	PRIOR_AUTH_REQUIRED
PRIOR_AUTH_OBTAINED	PRIOR_AUTH_OBTAINED
PRESCRIBING_PROVIDER_HUB_ID	PRESCRIBING_PROVIDER_HUB_ID
PRESCRIBING_PROVIDER_FACILITY_NAME	PRESCRIBING_PROVIDER_FACILITY_NAME
PATIENT_DIAGNOSIS	PATIENT_DIAGNOSIS
PRESCRIBING_PROVIDER_ADDRESS	PRESCRIBING_PROVIDER_ADDRESS
PRESCRIBING_PROVIDER_CITY	PRESCRIBING_PROVIDER_CITY
PRESCRIBING_PROVIDER_STATE	PRESCRIBING_PROVIDER_STATE
PRESCRIBING_PROVIDER_ZIP	PRESCRIBING_PROVIDER_ZIP
ENROLLMENT_INJECTION_PROVIDER_HUB_I D	ENROLLMENT_INJECTION_PROVIDER_HUB_ID
ENROLLMENT_INJECTION_PROVIDER_FACILI TY_NAME	ENROLLMENT_INJECTION_PROVIDER_FACILITY_NAME
ENROLLMENT_INJECTION_PROVIDER_ADDR ESS	ENROLLMENT_INJECTION_PROVIDER_ADDRESS
ENROLLMENT_INJECTION_PROVIDER_CITY	ENROLLMENT_INJECTION_PROVIDER_CITY
ENROLLMENT_INJECTION_PROVIDER_STATE	ENROLLMENT_INJECTION_PROVIDER_STATE

ENROLLMENT_INJECTION_PROVIDER_ZIP	ENROLLMENT_INJECTION_PROVIDER_ZIP
ENROLLMENT_PRESCRIBER_HUB_ID	ENROLLMENT_PRESCRIBER_HUB_ID
ENROLLMENT_PRESCRIBER_FIRSTNAME	ENROLLMENT_PRESCRIBER_FIRSTNAME
ENROLLMENT_PRESCRIBER_LASTNAME	ENROLLMENT_PRESCRIBER_LASTNAME
ENROLLMENT_PRESCRIBER_ADDRESS	ENROLLMENT_PRESCRIBER_ADDRESS
ENROLLMENT_PRESCRIBER_CITY	ENROLLMENT_PRESCRIBER_CITY
ENROLLMENT_PRESCRIBER_STATE	ENROLLMENT_PRESCRIBER_STATE
ENROLLMENT_PRESCRIBER_ZIP	ENROLLMENT_PRESCRIBER_ZIP
ENROLLMENT_NUMBER_OF_SHIPMENTS	ENROLLMENT_NUMBER_OF_SHIPMENTS
COPAY_CARD_ID	COPAY_CARD_ID
COPAY_CARD_RECEIVED	COPAY_CARD_RECEIVED
INSURANCE_CARD_INCLUDED	INSURANCE_CARD_INCLUDED
FULFILLMENT_STATUS	FULFILLMENT_STATUS
FULFILLMENT_STATUS_REASON	FULFILLMENT_STATUS_REASON
FULFILLMENT_STATUS_DATE	FULFILLMENT_STATUS_DATE
DESIGNEE_PROVIDED	DESIGNEE_PROVIDED

4.12.10.2 HUB ENROLLMENT SPECIALTY PHARMACY

BRD-REQ-EXN-1

Source: Patient HUB

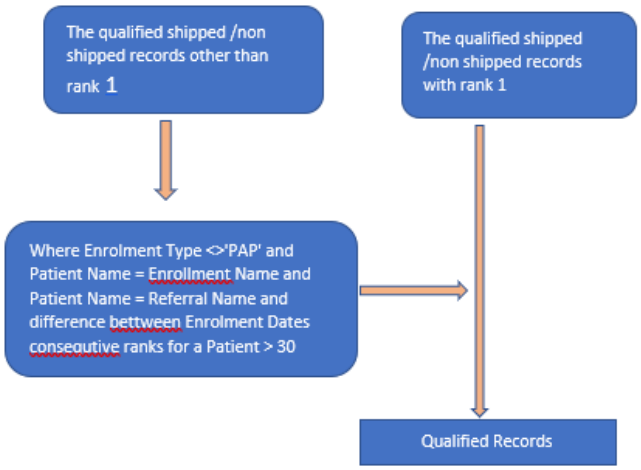
Source Objects -Load Strategy/ Frequency:

SEM HUB Enrolment Specialty sourced from the below feeds in patient hub which are synced to CDE3.0 system.:

Full Replication (Daily →Mon-Fri)

1. HUB_PROGRAM_MEMBER_MVN__C – Program Member
2. HUB_ENROLLMENT_ALK__C- Enrollment_ALK__c
   - Data filtered by Program_ALK__C field for Product **Vivitrol** only.
3. HUB_REFERRAL_MVN__C- Referral
4. HUB_STATUS_ALK__C- Status
5. HUB_SHIPMENT_ALK__C- Shipment
6. HUB_ALL_ENROLLMENT_ALK__C- Enrollment

	Incremental Replication (Daily →Mon-Fri) 7. HUB_ENROLLMENT- Enrollment_ALK__c 8. HUB_ENROLLMENT_REFERRAL--Referral_MVN__c **Subject Area:** Patient Enrollments/ Referrals **Markets:** Psychiatry, Addiction **Products:** Aristada, Lybalvi ,Vivitrol **MDM Mastering:** NO

BRD-REQ-SEM-2	**SEM_HUB_ENROLLEMENT_SPECIALTY_PHAMRACY captures data from (**Program Member, Enrollment_ALK__c, Referral, Status, Shipment and Enrolment, Enrollment_ALK__c, Referral_MVN__c) and SEM_HUB_ENROLLMENT from Service Cloud for Patient access at the Referral Granularity. Here unique key is ENROLLMENT_ID+REFERRAL_ID. It contains current and historic referrals from Exchange. Referrals are available from '2017-02-01' till date. **Logic for Identification of Shipped and Non-Shipped Patients from HUB_PROGRAM_MEMBER_MVN__C, HUB_ENROLLMENT_ALK__C, HUB_REFERRAL_MVN__C** • ALL patients, enrollments and referrals from source Program Member (HUB_PROGRAM_MEMBER_MVN__C) , Enrollment_ALK__c (HUB_ENROLLMENT_ALK__C), Referral (HUB_REFERRAL_MVN__C) for shipped (triage date and ship date is not null) and non-shipped records where CREATEDDATE greater than '2017-08-01' are qualified for SEM_HUB_ENROLLMENT. • Shipped/Non-Shipped Patients are ranked based on enrollment date, ship date, triage date, createdate and patient records with earliest date from following date combinations- Referral Latest Shipment Date, Status Last Shipment Date, Status Record Date, Status Created Date, Shipment Create Date, Shipment Shipped Date. **Business logic on basis of Rank:** The qualified shipped /non shipped records are with rank 1 and records other than rank 1 where Enrolment Type <>'PAP' and Patient Name = Enrollment Name and Patient Name = Referral Name and difference between Enrolment Dates consecutive ranks for a Patient > 30 days.  **Fields with business logic:** 1. **REROUTES** will be set to 'Y' if there are multiple 'sppdisplayname' for one enrolment in Pharmacy Alignment XREF OR If enrolment name in Hub referral is not null and its reason in Hub Status is either 'PATIENT TRANSFERRED BACK TO HUB' or 'TRIAGED TO OTHER SP' For all other scenarios except above, it is set to 'N'.

2. **Fill Status** flag will be 'U' if SHIP DATE is null else 'F'.

   Refer 3rd point for SHIP_DATE for reference.

3. **SPP_SHIPMENT_DATE /SHIP_DATE:**
   Fetch SPP SHIPMENT DATE as earliest date among (Referral Latest Shipment Date, Status Last Shipment Date, Status Record Date, Status Created Date, Shipment Create Date, Shipment Shipped Date)

4. **SECONDARY_DIAGNOSIS** will be
   set as 'Alcohol and Opioid Dependence' If [indication from HUB_ENROLLMENT is ALCOHOL DEPENDENCE and secondary diagnostics contains '11.2'] or [Indication is OPIOID DEPENDENCE and secondary diagnostics contains '10.2']. All other scenarios Indication from HUB_ENROLLMENT is populated.

5. **PRESCRIBING_PROVIDER_ALK_ID** will be populated as ALK_ID from Customer Identifier If prescribing provider hub id exists, else PRESCRIBING_PROVIDER_ALK_ID from HUB_ENROLLMENT.

6. **PRESCRIBING_PROVIDER_IS_INJECTION_PROVIDER** will be 'Y' in case either prescribing provider hub id or Injection Provider Hub ID is available in Customer Identifier. Else 'N'.

7. **ENROLLMENT_INJECTION_PROVIDER_ALK_ID** will be populated as ALKID from customer identifier for source id Injection Provider Hub ID else INJECTION_PROVIDER_ALK_Id from HUB_ENROLLMENT.

8. **ENROLLMENT_PRESCRIBER_ALK_ID** will be populated as ALKID from customer identifier for source id Prescriber Hub ID else Prescriber ALK ID from HUB_ENROLLMENT.

9. **PRESCRIBER_HUB_ID** will be populated from HUB_ENROLLMENT if prescriber hub id in HUB_ENROLLMENT_REFERRAL is null else from HUB_ENROLLMENT_REFERRAL.

10. **PRESCRIBER_ALK_ID** will be populated as ALKID from customer identifier for source id- prescriber hub id from HUB_ENROLLMENT or HUB_ENROLLMENT_REFERRAL in respective order else prescriber ALKID from HUB_ENROLLMENT.

11. **PRESCRIBER NAME and ADDRESS DETAILS** Will be populated as per below logic:
    If prescriber hub id is null, Include PRESCRIBER NAME and ADDRESS details from HUB_ENROLLMENT else from HUB_ENROLLMENT_REFERRAL.

12. **REFERRAL_INJECTION_PROVIDER_HUB_ID** will be populated from referral MVN if injection provider hub id is not null else from Enrollment Alk.

13. **REFERRAL_INJECTION_PROVIDER_ALK_ID** will be populated as ALKID from customer identifier for source id injection provider hub id from HUB_ENROLLMENT or HUB_ENROLLMENT_REFERRAL in respective order else injection provider ALKID from HUB_ENROLLMENT.

14. **INJECTION PROVIDER FACILITY NAME/ADDRESS DETAILS** will be populated as
    from HUB_ENROLLMENT_REFERRAL If injection provider hub id is not null else from HUB_ENROLLMENT.

Below fields are directly mapped from their respective tables:

Target Fields	Source Field (HUB_ENROLLMENT)
PATIENT_ID	PATIENT_ID
ENROLLMENT_ID	ENROLLMENT_ID
ENROLLMENT_NAME	ENROLLMENT_NAME
ENROLLMENT_TYPE	ENROLLMENT_TYPE
PROGRAM_MEMBER_NAME	PROGRAM_MEMBER_NAME
ENROLLMENT_DATE	ENROLLMENT_DATE
ENROLLMENT_FAXED_DATE	ENROLLMENT_FAXED_DATE
ENROLLMENT_ENTERED_DATE	ENROLLMENT_ENTERED_DATE
ENROLLMENT_INITIALLY_COMPLETE	ENROLLMENT_INITIALLY_COMPLETE
MISSING_INFO_STARTED_ON	MISSING_INFO_STARTED_ON
ENROLLMENT_PRIMARY_INSURANCE_NAME	PRIMARY_INSURANCE_NAME
ENROLLMENT_PRIMARY_INSURANCE_TYPE	PRIMARY_INSURANCE_TYPE
ENROLLMENT_PRIMARY_INSURANCE_PLANNAME	PRIMARY_INSURANCE_PLANNAME
PRIOR_AUTH_REQUIRED	PRIOR_AUTH_REQUIRED
PRIOR_AUTH_OBTAINED	PRIOR_AUTH_OBTAINED
PRESCRIBING_PROVIDER_HUB_ID	PRESCRIBING_PROVIDER_HUB_ID
PRESCRIBING_PROVIDER_FACILITY_NAME	PRESCRIBING_PROVIDER_FACILIY
PATIENT_DIAGNOSIS	PATIENT_DIAGNOSIS
PRESCRIBING_PROVIDER_ADDRESS	PRESCRIBING_PROVIDER_ADDRESS
PRESCRIBING_PROVIDER_CITY	PRESCRIBING_PROVIDER_CITY
PRESCRIBING_PROVIDER_STATE	PRESCRIBING_PROVIDER_STATE
PRESCRIBING_PROVIDER_ZIP	PRESCRIBING_PROVIDER_ZIP

ENROLLMENT_INJECTION_PROVIDER_HUB_ID	INJECTION_PROVIDER_HUB_ID
ENROLLMENT_INJECTION_PROVIDER_FACILITY_NAME	INJECTION_PROVIDER_FACILITY_NAME
ENROLLMENT_INJECTION_PROVIDER_ADDRESS	INJECTION_PROVIDER_ADDRESS
ENROLLMENT_INJECTION_PROVIDER_CITY	INJECTION_PROVIDER_CITY
ENROLLMENT_INJECTION_PROVIDER_STATE	INJECTION_PROVIDER_STATE
ENROLLMENT_INJECTION_PROVIDER_ZIP	INJECTION_PROVIDER_ZIP
ENROLLMENT_PRESCRIBER_HUB_ID	PRESCRIBER_HUB_ID
ENROLLMENT_PRESCRIBER_FIRSTNAME	PRESCRIBER_FIRSTNAME
ENROLLMENT_PRESCRIBER_LASTNAME	PRESCRIBER_LASTNAME
ENROLLMENT_PRESCRIBER_ADDRESS	PRESCRIBER_ADDRESS
ENROLLMENT_PRESCRIBER_CITY	PRESCRIBER_CITY
ENROLLMENT_PRESCRIBER_STATE	PRESCRIBER_STATE
ENROLLMENT_PRESCRIBER_ZIP	PRESCRIBER_ZIP
ENROLLMENT_NUMBER_OF_SHIPMENTS	NUMBER_OF_SHIPMENTS
COPAY_CARD_ID	COPAY_CARD_ID
COPAY_CARD_RECEIVED	COPAY_CARD_RECEIVED
INSURANCE_CARD_INCLUDED	INSURANCE_CARD_INCLUDED
FULFILLMENT_STATUS	FULFILLMENT_STATUS
FULFILLMENT_STATUS_REASON	FULFILLMENT_STATUS_REASON
FULFILLMENT_STATUS_DATE	FULFILLMENT_STATUS_DATE

DESIGNEE_PROVIDED	DESIGNEE_PROVIDED

Target Fields	Source Field (HUB_ENROLLMENT_REFERRAL)
REFERRAL_ID	REFERRAL_ID
REFERRAL_NAME	REFERRAL_NAME
REFERRAL_STATUS	REFERRAL_STATUS
REFERRAL_STATUS_REASON	REFERRAL_STATUS_REASON
REFERRAL_STATUS_DATE	REFERRAL_STATUS_DATE
REFERRAL_PRIMARY_INSURANCE_NAME	PRIMARY_INSURANCE_NAME
REFERRAL_PRIMARY_INSURANCE_PLANNAME	PRIMARY_INSURANCE_PLANNAME
POLICY_PAYER_NAME	POLICY_PAYER_NAME
ENROLLMENT_SENT_TO_SPP	ENROLLMENT_SENT_TO_SPP
ENROLLMENT_SENT_TO_SPP_DATE	ENROLLMENT_SENT_TO_SPP_DATE
SPP_RECEIVING_ENROLLMENT	SPP_RECEIVING_ENROLLMENT
PRESCRIBER_STATE_LICENSE_NUMBER	PRESCRIBER_STATE_LICENSE_NUMBER
REFERRAL_NUMBER_OF_SHIPMENTS	NUMBER_OF_SHIPMENTS

4.12.11 PATIENT SERVICES

<table>
<tr><th>S NO</th><th>Requirement</th></tr>
<tr><td>BRD-REQ-1
EXN-1</td><td>Data Description: This data table contains Case Aging data from Patient Hub. This data is sourced using Enrollment data.
Subject Area: Patient
Source: Patient Services
Source Table: Enrollment_ALK__c, Case
Markets: Psychiatry, Addiction
Products: Lybalvi, Vivitrol, Aristada
Load strategy (Incremental/ Full) – Full
Restatement (Yes/ No): No
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Daily
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- N/A
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>Tables Covered –<ul><li>CDE_EXN.HUB_ALL_ENROLLMENT_ALK__C</li><li>CDE_EXN.HUB_CASE</li><li>CDE_SEM.SEM_OPEN_CASE_AGING</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-3</td><td><ul><li>Patient Services data (from July ‘17) will be fetched (replicated) from Patient Services system generated table (Enrollment_ALK__c).</li><li>CalculatedDaysUntilDue will be populated (as DAYS_UNTIL_DUE_ALK__C + 1) from Case based on ID.</li><li>CASENUMBER, TEAM, CASE_CLOSED_DATE, SUBJECT, SUBJECT_TYPE, TYPE, CREATED_BEFORE_3_PM, CASE_CREATED_DATE, DUE_DATE will be populated from HUB_CASE based on ID from CASENUMBER, TEAM_ALK__C, CLOSEDDATE, SUBJECT, SUB_TYPE_ALK__C, TYPE, CREATED_BEFORE_3_PM_ALK__C, CREATEDDATE, DUE_DATE_ALK__C .</li><li>Name will be populated from User based on OwnerID from Name.</li><li>Below fields will be directly populated from source:</li></ul>
<table>
<tr><th>Source Column</th><th>Target Column</th></tr>
<tr><td>PROGRAM_ALK__C</td><td>PROGRAM</td></tr>
<tr><td>PATIENT_id_ALK__C</td><td>PATIENT_ID</td></tr>
<tr><td>TYPE_ALK__C</td><td>CASE_TYPE</td></tr>
<tr><td>PROVIDER_NAME_ALK__C</td><td>PROVIDER_NAME</td></tr>
<tr><td>NAME</td><td>ENROLLMENT_NAME</td></tr>
<tr><td>CREATEDDATE</td><td>ENROLLMENT_DATE</td></tr>
</table></td></tr>
</table>

4.12.12 PAS ADHERENCE

S NO	Requirement

BRD-REQ-1 EXN-1	**Data Description:** This data table contains Enrollment and Program details for Prescribers from Patient Services. **Subject Area:** NA **Source:** Patient Services **Source Table:** Program Member **Markets:** Psychiatry, Addiction **Products:** Lybalvi, Vivitrol, Aristada **Load strategy (Incremental/ Full) –** Full **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)**- N/A **MDM Mastering (Yes/No) –** Yes
BRD-REQ-OBJ-2	**Tables Covered –** • CDE_SEM.SEM_PAS_ADHERENCE_BASE_TABLE
BRD-REQ-SEM-3	• Full data will be fetched (replicated) directly from Patient Services system generated source table (Program Member). • **RR_SUCCESSFUL_COUNT** & **RR_ATTEMPTS_COUNT** will be populated as count of records aggregated based on NAME from HUB_PROGRAM_MEMBER_MVN__C for both Aristata and Vivitrol. • **SWC_ID, SWC_TYPE, SWC_SUB_TYPE_ALK_C, SWC_OUTCOME_ALK__C, SWC_OUTCOME_REASON_ALK__C, SWC_CLOSEDDATE, TRR_ID, TRR_TYPE, TRR_SUB_TYPE_ALK_C, TRR_OUTCOME_ALK__C, TRR_OUTCOME_REASON_ALK__C** & **TRR_CLOSEDDATE** will be populated from HUB_CASE for both Aristata and Vivitrol from HUB_ALL_ENROLLMENT_ALK__C based on ENROLLMENT_ALK__C to fetch the Active only which will be derived from HUB_CASE based on ENROLLMENT_ALK__C which will be further derived from HUB_PROGRAM_MEMBER_MVN__C and HUB_CASE based on PROGRAM_MEMBER_ALK__C and ID respectively. • **RFR1_ID, RFR1_TYPE, RFR1_SUB_TYPE_ALK_C, RFR1_OUTCOME_ALK__C, RFR1_OUTCOME_REASON_ALK__C** and **RFR1_CLOSEDDATE** will be populated from HUB_CASE for both Aristata and Vivitrol from HUB_ALL_ENROLLMENT_ALK__C based on ENROLLMENT_ALK__C to fetch the Active only which will be derived from HUB_CASE based on ENROLLMENT_ALK__C which will be further derived from HUB_PROGRAM_MEMBER_MVN__C and HUB_CASE based on PROGRAM_MEMBER_ALK__C and ID respectively on NAME and CLOSEDDATE. • **RFR2_ID, RFR2_TYPE, RFR2_SUB_TYPE_ALK_C, RFR2_OUTCOME_ALK__C, RFR2_OUTCOME_REASON_ALK__C** and **RFR2_CLOSEDDATE** will be populated from HUB_CASE for both Aristata and Vivitrol from HUB_ALL_ENROLLMENT_ALK__C based on ENROLLMENT_ALK__C to fetch the Active only which will be derived from HUB_CASE based on ENROLLMENT_ALK__C which will be further derived from HUB_PROGRAM_MEMBER_MVN__C and HUB_CASE based on PROGRAM_MEMBER_ALK__C and ID respectively on NAME and CLOSEDDATE and data will be fetched for latest 2 months. • **RFR3_ID, RFR3_TYPE, RFR3_SUB_TYPE_ALK_C, RFR3_OUTCOME_ALK__C, RFR3_OUTCOME_REASON_ALK__C** and **RFR3_CLOSEDDATE** will be populated from HUB_CASE for both Aristata and Vivitrol from HUB_ALL_ENROLLMENT_ALK__C based on ENROLLMENT_ALK__C to fetch the Active only which will be derived from HUB_CASE based on ENROLLMENT_ALK__C which will be further derived from HUB_PROGRAM_MEMBER_MVN__C and HUB_CASE based on PROGRAM_MEMBER_ALK__C and ID respectively on NAME and CLOSEDDATE and data will be fetched for latest 3 months. • **RFR4_ID, RFR4_TYPE, RFR4_SUB_TYPE_ALK_C, RFR4_OUTCOME_ALK__C, RFR4_OUTCOME_REASON_ALK__C** and **RFR4_CLOSEDDATE** will be populated from HUB_CASE for both Aristata and Vivitrol from HUB_ALL_ENROLLMENT_ALK__C based on ENROLLMENT_ALK__C to fetch the Active only which will be derived from HUB_CASE based on ENROLLMENT_ALK__C which will be further derived from HUB_PROGRAM_MEMBER_MVN__C and HUB_CASE based on PROGRAM_MEMBER_ALK__C and ID respectively on NAME and CLOSEDDATE and data will be fetched for latest 4 months.

- **RFR5_ID, RFR5_TYPE, RFR5_SUB_TYPE_ALK_C, RFR5_OUTCOME_ALK__C, RFR5_OUTCOME_REASON_ALK__C** and **RFR5_CLOSEDDATE** will be populated from HUB_CASE for both Aristata and Vivitrol from HUB_ALL_ENROLLMENT_ALK__C based on ENROLLMENT_ALK__C to fetch the Active only which will be derived from HUB_CASE based on ENROLLMENT_ALK__C which will be further derived from HUB_PROGRAM_MEMBER_MVN__C and HUB_CASE based on PROGRAM_MEMBER_ALK__C and ID respectively on NAME and CLOSEDDATE and data will be fetched for latest 5 months.
- **RFR6_ID, RFR6_TYPE, RFR6_SUB_TYPE_ALK_C, RFR6_OUTCOME_ALK__C, RFR6_OUTCOME_REASON_ALK__C** and **RFR6_CLOSEDDATE** will be populated from HUB_CASE for both Aristata and Vivitrol from HUB_ALL_ENROLLMENT_ALK__C based on ENROLLMENT_ALK__C to fetch the Active only which will be derived from HUB_CASE based on ENROLLMENT_ALK__C which will be further derived from HUB_PROGRAM_MEMBER_MVN__C and HUB_CASE based on PROGRAM_MEMBER_ALK__C and ID respectively on NAME and CLOSEDDATE and data will be fetched for latest 6 months.
    - Below fields are directly populated from source:

HUB_ACCOUNT –

Source Column	Target Column
NAME	PRESCRIBER_NAME

HUB_ALL_ENROLLMENT_ALK__C –

Source Column	Target Column
ID	ID
NAME	ENROLLMENT_NAME
ENROLLMENT_FAXED_DATE_ALK__C	ENROLLMENT_FAXED_DATE_ALK__C
CREATEDDATE	ENROLLMENT_CREATEDDATE
TYPE_ALK__C	ENROLLMENT_TYPE_ALK__C
PRESCRIBER_ALK__C	PRESCRIBER_ALK__C
STATUS_ALK__C	ENROLLMENT_STATUS
INDICATION_ALK__C	INDICATION_ALK__C
ENROLLMENT_DATE_ALK__C	ENROLLMENT_DATE_ALK__C

HUB_CASE –

Source Column	Target Column
Type	ENROLLMENT_MILESTONE
SUB_TYPE_ALK__C	ENROLLMENT_ACKNOWLEDGEMENT

HUB_PROGRAM_MEMBER_MVN__C –

Source Column	Target Column
NAME	PROGRAM_MEMBER_NAME
PROGRAM_MEMBER_ALK__C	PROGRAM_MEMBER_ALK__C

PROGRAM_NAME_ALK__C	PROGRAM_NAME_ALK__C
NURSE_STATUS_ALK__C	NURSE_STATUS_ALK__C
NURSE_SERVICES_ENGAGEMENT_DATE_ALK__C	NURSE_SERVICES_ENGAGEMENT_DATE_ALK__C
NURSE_SERVICES_UN_ENROLLMENT_DATE_ALK__C	NURSE_SERVICES_UN_ENROLLMENT_DATE_ALK__C
NURSE_SERVICES_DAYS_ENROLLED_ALK__C	NURSE_SERVICES_DAYS_ENROLLED_ALK__C

HUB_SHIPMENT_ALK__C –

Source Column	Target Column
REFERRAL_ALK__C	SHP_REFERRAL_ALK__C
CREATEDDATE	SHP_CREATEDDATE
SHIPMENT_DATE_ALK__C	SHP_SHIPMENT_DATE_ALK__C
NAME	SHP_NAME
ENROLLMENT_ALK__C	SHP_ENROLLMENT_ALK__C
PRODUCT_ALK__C	SHP_PRODUCT_ALK__C
PROGRAM_MEMBER_ALK__C	SHP_PROGRAM_ALK__C
PROGRAM_MEMBER_ALK__C	SHP_PROGRAM_MEMBER_ALK__C
PROVIDER_ALK__C	SHP_PROVIDER_ALK__C
STATUS_REASON_ALK__C	SHP_STATUS_REASON_ALK__C
QUANTITY_SHIPPED_ALK__C	SHP_QUANTITY_SHIPPED_ALK__C

4.13 SHIPMENT DATA

Shipment data will be received from the following sources:

1. Shipment – Liquid Hub, Genoa, Reliance Ship, etc.
2. Hibbert – Sample Shipment, Demo Kits

4.13.1 SHIPMENT

BRD-REQ-RAW-1	**Feed Ids:** 167 **Feed Name:** VIVITROL_DISPENSE_ **Feed Description:** This feed contains Shipment data from different pharmacy sources like Liquid Hub, Genoa, Reliance Ship etc. **Subject Area:** Shipment **Markets:** Psychiatry, Addiction **Products:** Aristada, Lybalvi, Vivitrol **Load strategy (Incremental/ Full) -** Incremental **Restatement (Yes/ No):** Yes (based on LH_SHIPMENT_KEY) **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)**- NA **MDM Mastering (Yes/No) –** Yes

<table>
<tr><td></td><td></td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>• RAW_LQHUB_SHIP
• CLNS_LQHUB_SHIP
• SEM_LQHUB_SHIPMENT</td></tr>
<tr><td>BRD-REQ-SEM-3</td><td>• The Shipment data for all brands will be received daily and restatements will be applied based on LH_SHIPMENT_KEY. The data for a particular LH_SHIPMENT_KEY will be populated from latest file.
• Prescriber Details (PRESCRIBER_CUST_DIM_ID, HCP_ALK_ID, PRESCRIBER_FIRST_NAME, PRESCRIBER_MIDDLE_NAME and PRESCRIBER_LAST_NAME) will be populated from Customer Master based on ALK_ID, which will be derived from Customer Identifier based on SP_PRESCRIBER_ID.
• Below fields will be directly populated from source
<table>
<tr><th>Target Column</th><th>Source Column</th></tr>
<tr><td>SP_PRESCRIBER_ID</td><td>SP_PRESCRIBER_ID</td></tr>
<tr><td>PRESCRIBER_DEA</td><td>PRESCRIBER_DEA</td></tr>
<tr><td>PRESCRIBER_NPI</td><td>PRESCRIBER_NPI</td></tr>
<tr><td>LH_SHIPMENT_KEY</td><td>LH_SHIPMENT_KEY</td></tr>
<tr><td>MASKED_PATIENT_ID</td><td>MASKED_PATIENT_ID</td></tr>
<tr><td>HUB_PATIENT_ID</td><td>HUB_PATIENT_ID</td></tr>
<tr><td>NDC</td><td>NDC</td></tr>
<tr><td>BIN</td><td>BIN</td></tr>
<tr><td>PCN</td><td>PCN</td></tr>
<tr><td>PATIENT_INSURANCE_GRP_ID</td><td>PATIENT_INSURANCE_GRP_ID</td></tr>
<tr><td>NCPDP</td><td>NCPDP</td></tr>
<tr><td>PLAN_NAME</td><td>PLAN_NAME</td></tr>
<tr><td>PHARMACY_NAME</td><td>PHARMACY_NAME</td></tr>
<tr><td>PAYER_NAME</td><td>PAYER_NAME</td></tr>
<tr><td>PAYER_TYPE</td><td>PAYER_TYPE</td></tr>
<tr><td>PHARMACY_LOC_NAME</td><td>PHARMACY_LOC_NAME</td></tr>
<tr><td>INITIAL_PRESCRIPTION_SRC</td><td>INITIAL_PRESCRIPTION_SRC</td></tr>
<tr><td>SHIPTO_NAME</td><td>SHIPTO_NAME</td></tr>
<tr><td>SHIP_TO_ADDRESS_LINE1</td><td>SHIPTO_ADDR_1</td></tr>
<tr><td>SHIP_TO_ADDRESS_LINE2</td><td>SHIPTO_ADDR_2</td></tr>
<tr><td>SHIP_TO_CITY</td><td>SHIPTO_CITY</td></tr>
<tr><td>SHIP_TO_STATE</td><td>SHIPTO_STATE</td></tr>
<tr><td>SHIP_TO_ZIP</td><td>SHIPTO_ZIP</td></tr>
<tr><td>QTY</td><td>QTY</td></tr>
<tr><td>ICD9_CD</td><td>ICD9_CD</td></tr>
<tr><td>SHIP_DT</td><td>SHIP_DT</td></tr>
<tr><td>SP_RECORD_ID</td><td>SP_RECORD_ID</td></tr>
</table></td></tr>
</table>

REFERRAL_NUM	REFERRAL_NUM
REFERRAL_DT	REFERRAL_DT
QTY_RAW	QTY_RAW
QTY_UOM	QTY_UOM
DAYS_SUPPLIED	DAYS_SUPPLIED
RX_NUM	RX_NUM
RX_TYPE	RX_TYPE
PRESCRIBER_SUFFIX	PRESCRIBER_SUFFIX
PRESCRIBER_PHONE_NUM	PRESCRIBER_PHONE_NUM
BENEFIT_TYPE	BENEFIT_TYPE
PLAN_TYPE	PLAN_TYPE
PBM_NAME	PBM_NAME
COST_SHARE_AMT	COST_SHARE_AMT
COST_SHARE_TYPE	COST_SHARE_TYPE
PATIENT_OUT_OF_POCKET_AMT	PATIENT_OUT_OF_POCKET_AMT
COPAY_CARD_USED	COPAY_CARD_USED
COPAY_CARD_DOLLAR_AMT	COPAY_CARD_DOLLAR_AMT
PRIMARY_PA_EXPIRATION_DT	PRIMARY_PA_EXPIRATION_DT
LH_PATIENT_ID	LH_PATIENT_ID
PATIENT_STATE	PATIENT_STATE
PATIENT_YOB	PATIENT_YOB
PATIENT_GENDER	PATIENT_GENDER
SRC_KEY	SRC_KEY
PHARMACY_DEA	PHARMACY_DEA
PHARMACY_NPI	PHARMACY_NPI
INSERT_SRC_FILENAME	INSERT_SRC_FILENAME
UPDATE_SRC_FILENAME	UPDATE_SRC_FILENAME
INSERT_TIMESTAMP	INSERT_TIMESTAMP
UPDATE_TIMESTAMP	UPDATE_TIMESTAMP

4.13.2 HIBBERT

4.13.2.1 SAMPLE SHIPMENT

BRD-REQ- RAW-1	**FEED ID:** 146 **Feed Name:** ALK_WEEKLY_SHIPMENTS_ **Description:** This feed contains sample shipment data from Hibbert and QPHR (Historic data). **Source:** Hibbert **Subject Area:** Sampling Shipment Data **Markets:** Psychiatry, Addiction

<table>
<tr><td></td><td>Products: Aristada, Lybalvi, Vivitrol
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): No
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- Weekly (Monday)
MDM Mastering (Yes/No) – Yes</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>• CDE_RAW.RAW_HIBT_SAMPLE
• CDE_CLNS.CLNS_HIBT_SAMPLE
• CDE_CLNS.CLNS_QPHR_SAMP (Historic data)
• CDE_DWH.FCT_SAMPLE_SHIP
• CDE_SEM.SEM_HCP_SAMPLE</td></tr>
<tr><td>BRD-REQ-DWH-3</td><td>• Incremental Sample Shipment data for all brands will be populated in the Warehouse weekly where history will also be maintained.
○ Historical Sample shipment data (Jan’14-Nov’16) will be populated from static table (CLNS_QPHR_SAMP).
• CUST_DIM_ID will be populated from Customer Dimension based on ALK_ID, which will be derived from Customer Identifier based on SOURCE_ID and source as ‘QPHR’ or ‘HIBT’.
• PROD_DIM_ID will be populated from Product Master based on PRODUCT_ID.
• SHIP_DT_DIM_ID will be populated from Calendar dimension table based on SHIPPED_DT.
• SPLIT_WEEK_ID will be populated from Split Week calendar dimension based on SHIPPED_DT.
• MOT will be populated as per below logic:
○ MOT = QTY* MOT_CONV_FACTOR (‘1’ in case of null value)
MOT_CONV_FACTOR will be fetched from Product Master based on PRODUCT_ID.</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>• Semantic will include complete sample data shared by Hibbert along with Historical data from QPHR.
○ Historical Sample shipment data (Jan’14-Nov’16) will be populated from static table (CLNS_QPHR_SAMP).
• Customer Details (CUST_DIM_ID, ALK_ID, FIRST_NAME and LAST_NAME) will be populated from Customer Master based on SOURCE_ID.
• Product Details (PROD_DIM_ID, PRODUCT_NAME and BRAND) will be populated from Product Master based on PRODUCT_ID.
• SHIPPED_DATE and SHIP_DATE_WEEK will be as COMPLETE_DATE and WEEKENDING_FRIDAY populated from SEM_CALENDAR based on SHIPPED_DT.
• SHIPPED_SPLIT_WEEK_DATE and SHIPPED_MONTH_DATE will be populated as SW_END_DATE and CALENDAR_MONTH_START_DATE from SEM_SPLIT_WEEK_CALENDAR based on SHIPPED_DT
• ORDER_TYPE will be populated as ORDER_TYPE_CD for Hibbert while for QPRH it will be populated as DESCRIPTION from MAP_CODE based on ORDER_TYPE_CD with ENTITY_TYPE as 'HIBT_SAMPLE_SHIPMENT' and CODE_TYPE as 'ORDER_TYPE_CD'.
• MOT will be populated as per below logic:
○ MOT = QTY* MOT_CONV_FACTOR (‘1’ in case of null value)
MOT_CONV_FACTOR will be fetched from Product Master based on PRODUCT_ID.
• Below fields are directly mapped without any transformation in Semantic HCP Sample.
<table><tr><th>Target Field</th><th>Source Field</th></tr></table></td></tr>
</table>

		SAMPLE_QUANTITY	QTY
		POSITION_ID	ORDER_TERR_ID
		ORDER_ID	ORDER_ID
		SAMPLE_PRESCRIBER_ID	ORDER_ID

4.13.2.2 DEMO KITS

BRD REQ-RAW-1	**Feed Id:** 577 **Feed Name:** DEMO_KITS **Feed Description:** This feed contains the demo kits shipment data from Hibbert. **Source:** Hibbert **Subject Area:** Shipment **Markets:** Psychiatry and Addiction **Products:** Vivitrol and Aristada **Load strategy (Incremental/ Full) -** Full **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Weekly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** Monday **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	• RAW_DEMO_KITS • CLNS_DEMO_KITS • SEM_DEMO_KITS
BRD-REQ-SEM-3	• Demo Kits Shipment data will be available in Semantic where history will also be available. o **SHIP_WEEK** will be populated as weekending Thursday from Calendar based on SHIPPED_DATE, where SHIPPED_DATE falls between Friday-Thursday. • Below columns will be directly loaded from source:

Target field	Source field
ORDER_ID	ORDER_ID
FIRST_NAME	FIRST_NAME
LAST_NAME	LAST_NAME
EMPLOYEE_NUMBER	EMPLOYEE_NUMBER
EMAIL_ADDRESS	EMAIL_ADDRESS
PHONE_NUMBER	PHONE_NUMBER
SHIPPED_DATE	SHIPPED_DATE
PRODUCT_ID	PRODUCT_ID
PRODUCT_DESCRIPTION	PRODUCT_DESCRIPTION
QUANTITY	QUANTITY
ADDRESS_1	ADDRESS_1

		ADDRESS_2	ADDRESS_2
		CITY	CITY
		STATE	STATE
		ZIP	ZIP
		ORDER_TYPE_CODE	ORDER_TYPE_CODE
		SHIPMENT_TRACKING	SHIPMENT_TRACKING

4.14 PHARMACY DATA

4.14.1 PHARMACY ROSTER

S.No.	Requirement
BRD-REQ-RAW-1	**Feed Id:** 575,576 **Feed Name:** GENOA_ , ALBERTSON_ **Feed Description:** This feed contains the monthly roster data of Genoa & Albertson pharmacies. **Subject Area:** Pharmacy Roster **Load strategy (Incremental/ Full) –** Full **Restatement (Yes/ No):** No. **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Monthly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** On or before 27th of every month **MDM Mastering (Yes/No) –** Yes
BRD-REQ-OBJ-2	**Tables Covered –** • RAW_GENOA_ROSTER, RAW_ALBERTSON_ROSTER • CLNS_GENOA_ROSTER, CLNS_ALBERTSON_ROSTER • FCT_GENOA_ALBERTSON_ROSTER • SEM_GENOA_ALBERTSON_ROSTER • VW_GENOA_ALBERTSON_ROSTER
BRD-REQ-CLNS-2	• For Genoa and Albertson Store/Site Number will be prefixed with 'GENOA_' and 'ALBERTSON_' to distinguish between two sources. Eg. if Store Number will be 01 for both then it will be populated as 'GENOA_01' and 'ALBERTSON_01' for Genoa and Albertson respectively.
BRD-REQ-DW-3	• Genoa and Albertson Pharmacy Rosters will be received from respective sources and aggregated in Warehouse layer where latest data will be available. • **Customer Dimension ID** will be fetched from MAP_CUSTOMER_IDENTIFIER and DIM_CUSTOMER based on Source (Genoa and Albertson) Albertson/Genoa Pharm ID ~~which is calculated based on below fields:~~

<table>
<tr><td></td><td>
<ul>
<li>Albertson Pharm ID: - BANNER_PHARMACY, STREET_ADDRESS, CITY, ST, ZIP, NPI_NO, NABP_NCPDP, PHARMACY_PHONE, PHARMACY_FAX, CURRENT_STORE_NO</li>
<li>Genoa Pharm ID: - STREET_ADDRESS_1, CITY, STATE, ZIP_CODE, ACTIVE_DEA_LICENSE, NPI, NCPDP, GENOA_SITE_NO, DEA_EXPIRATION, MAIN_PHONE, STREET_ADDRESS_2, FAX, PHARMACY_STATUS</li>
</ul>
<ul>
<li>BANNER_PHARMACY will be populated as NULL for Genoa data.</li>
<li>DEA will be populated as NULL for Albertson data.</li>
</ul>
</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>
<ul>
<li>Aggregated latest Pharmacy Roster data from both sources (Genoa and Albertson) will be available in Semantic.</li>
<li>Customer Details (ALK_ID) will be fetched from Customer Master based on Source (Genoa and Albertson) Albertson/Genoa Pharm ID which is calculated based on below fields:
<ul>
<li>Albertson Pharm ID: - BANNER_PHARMACY, STREET_ADDRESS, CITY, ST, ZIP, NPI_NO, NABP_NCPDP, PHARMACY_PHONE, PHARMACY_FAX, CURRENT_STORE_NO</li>
<li>Genoa Pharm ID: - STREET_ADDRESS_1, CITY, STATE, ZIP_CODE, ACTIVE_DEA_LICENSE, NPI, NCPDP, GENOA_SITE_NO, DEA_EXPIRATION, MAIN_PHONE, STREET_ADDRESS_2, FAX, PHARMACY_STATUS</li>
</ul>
</li>
<li>BANNER_PHARMACY will be populated as NULL for Genoa data.</li>
<li>DEA and SRC_PHARMACY_STATUS will be populated as NULL for Albertson data.</li>
<li>Below columns are populated directly from source.</li>
</ul>
<table>
<tr><th>Semantic Table Field</th><th>Albertson Field</th><th>Genoa Field</th></tr>
<tr><td>SRC_PHARMACY_STATUS</td><td>NULL</td><td>PHARMACY_STATUS</td></tr>
<tr><td>CURRENT_STORE_NO</td><td>CURRENT_STORE_NO</td><td>GENOA_SITE_NO</td></tr>
<tr><td>BANNER_PHARMACY</td><td>BANNER_PHARMACY</td><td>NULL</td></tr>
<tr><td>STREET_ADDRESS</td><td>STREET_ADDRESS</td><td>Concat (STREET_ADDRESS1, STREET_ADDRESS)</td></tr>
<tr><td>CITY</td><td>CITY</td><td>CITY</td></tr>
<tr><td>ST</td><td>ST</td><td>ST</td></tr>
<tr><td>ZIP</td><td>ZIP</td><td>ZIP</td></tr>
<tr><td>DEA</td><td>NULL</td><td>DEA</td></tr>
<tr><td>NPI</td><td>NPI_NO</td><td>NPI</td></tr>
<tr><td>NCPDP</td><td>NABP_NCPDP</td><td>NCPDP</td></tr>
<tr><td>PHARMACY_PHONE</td><td>PHARMACY_PHONE</td><td>MAIN_PHONE</td></tr>
<tr><td>PHARMACY_FAX</td><td>PHARMACY_FAX</td><td>FAX</td></tr>
</table>
</td></tr>
<tr><td>BRD-REQ-SEM-5</td><td>VW_GENOA_ALBERTSON_ROSTER will capture monthly delta changes with one additional column to indicate addition/removal of record.
<ul>
<li>Status will be populated as Existing, New and Deleted based on key combination -CURRENT_STORE_NO, BANNER_PHARMACY, STREET_ADDRESS, CITY, ST, ZIP, DEA, NPI.</li>
<li>Pharmacy Status from source will be populated as SRC_PHARMACY_STATUS</li>
<li>Delta detection will be monthly and include delta for 2 consecutive monthly feeds.</li>
</ul>
</td></tr>
</table>

4.15 MARKETING

Marketing data is received from the following Sources in CDE system-

1. Good Apple- Nielsen Audience Spend, Custom Program, Search Display, Paid Media, Physician Level Marketing Data and GA Website Data.
2. Juice- Email and Website Campaign
3. Precision Xtract – Marketo Dynamic Email Campaign, Precision Trigger
4. Alkermes- TV Market Research and Call Campaign- Five9

4.15.1 GOOD APPLE

4.15.1.1 NIELSEN AUDIENCE SPEND

S NO	**Requirement**
BRD-REQ-1 EXN-1	**Data Description:** This feed contains Marketing data (Impressions, Spends and TRP) at product level from GoodApple Data share for Lybalvi Nielsen Audience Spend Data **Subject Area:** Marketing **Source:** Good Apple **Snowflake share tables:** ALKERMES_LYBALVI_NIELSEN_AUDIENCE_SPEND_DATA (**schema: GA_ALKERMES_LYBALVI**) **Markets:** Psychiatry **Products:** Lybalvi **Load strategy (Incremental/ Full) –** Full **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Monthly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** 15th of every month **MDM Mastering (Yes/No) –** No **Snowflake share tables:** ALKERMES_LYBALVI_NIELSEN_COMPETITIVE_DATA (**schema: GA_ALKERMES_LYBALVI**) **Markets:** Psychiatry **Products:** Lybalvi and Competitors **Load strategy (Incremental/ Full) –** Full **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Quarterly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** 15th of every month of each quarter start **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	**Tables Covered –** • VW_ALKERMES_LYBALVI_NIELSEN_AUDIENCE_SPEND_DATA, VW_ALKERMES_LYBALVI_NIELSEN_COMPETITIVE_DATA • SEM_NIELSEN_AUDIENCE_SPEND_DATA, SEM_NIELSEN_COMPETITIVE_DATA
BRD-REQ-SEM-3	**SEM_NIELSEN_AUDIENCE_SPEND_DATA** • The data will be populated directly from VW_ALKERMES_LYBALVI_NIELSEN_AUDIENCE_SPEND_DATA(where history is available) without any transformation to Semantic table. ○ History data from May 2023 is available.

- Below fields are directly populated from source:

Target Table	Source Table
BRAND	BRAND
DAYPART	DAYPART
TV_MEDIA_TYPE	TV_MEDIA_TYPE
LENGTH	LENGTH
DATES	DATES
TIME	TIME
VIEWING_SOURCE	VIEWING_SOURCE
P25_54_US_RATING_PERCENT	P25_54_US_RATING_PERCENT
P25_54_US_PROJ_IMPRESSIONS_000	P25_54_US_PROJ_IMPRESSIONS_000
SPEND	SPEND
CPP	CPP
CPM	CPM
BROADCAST_DATE	BROADCAST_DATE
BROADCAST_MONTH	BROADCAST_MONTH

SEM_NIELSEN_COMPETITIVE_DATA

- The data is populated directly from VW_ALKERMES_LYBALVI_NIELSEN_COMPETITIVE_DATA (where history is available) without any transformation to Semantic table.
    - History data from December 2022 is available.
- Below fields are directly populated from source:

Target Table	Source Table
MARKET	MARKET
TV_MEDIA_TYPE	TV_MEDIA_TYPE
PARENT	PARENT
BRAND	BRAND
DISTRIBUTOR	DISTRIBUTOR
OCCURRENCE_START_TIME	OCCURRENCE_START_TIME
DATES DATE	DATES DATE
MONTH DATE	MONTH DATE
CREATIVE_DESCRIPTION	CREATIVE_DESCRIPTION
EPISODE_TITLE	EPISODE_TITLE
VIEWING_SOURCE	VIEWING_SOURCE
DAYPART	DAYPART
LENGTH NUMBER	LENGTH NUMBER
PROGRAM_NAME	PROGRAM_NAME

		PROGRAM_GENRE	PROGRAM_GENRE
		SPEND	SPEND
		P25_54_US_RATING	P25_54_US_RATING
		P25_54_PROJ_IMPRESSIONS	P25_54_PROJ_IMPRESSIONS
		CPP	CPP
		CPM	CPM
		BROADCAST_DATE	BROADCAST_DATE
		BROADCAST_MONTH	BROADCAST_MONTH

4.15.1.2 CUSTOM PROGRAM

S NO	Requirement
BRD-REQ-1 RAW-1	**Feed Id:** 482 **Feed Name:** GOOD_APPLE_CUSTOM_PROGRAM **Feed Description:** This feed contains Good Apple data for 3rd party Custom Programs (Engagement and Site Visit) and is received directly from Good Apple. **Subject Area:** Marketing **Source:** Good Apple **Markets:** Psychiatry **Products:** Lybalvi **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Weekly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** Tuesday **Load strategy (Incremental/ Full) –** Incremental **Restatement (Yes/ No):** Yes **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	**Tables Covered –** • RAW_GOOD_APPLE_CUSTOM_PROGRAM • CLNS_GOOD_APPLE_CUSTOM_PROGRAM • SEM_GOOD_APPLE_CUSTOM_PROGRAM
BRD-REQ-SEM-3	• Custom Programs data from Good Apple will be loaded as is in Semantic where history will also be maintained. ○ History from Jan 2021 is available. ○ All the historical data outside the time span of the latest file based on **Month** will be retained in semantic table. For Instance, If the latest file has data for 3 months say, June 2023 to August 2023, then any data for these months will be replaced with data in the latest feed. • Below fields are directly populated from source:

Target Table	Source Table
PRODUCT	PRODUCT
OVERALL_CAMPAIGN	OVRL_CAMPAIGN

		MEDIA_TYPE	MEDIA_TYPE
		HCP_CONSUMER_FLAG	HCP_CONSUMER_FLAG
		MONTH	MONTH
		CONTACTS	CONTACTS
		ENGAGEMENTS	ENGAGEMENTS
		SITE_VISITS_IF_APPLICABLE	SITE_VISITS_IF_APPLICABLE

4.15.1.3 GOOD APPLE – SEARCH DISPLAY

S NO	Requirement
BRD-REQ-1 RAW-1	**Feed Id:** 481 **Feed Name:** GOOD_APPLE_SEARCH_DISPLAY **Feed Description:** This feed contains Good Apple data for Search Display and is received directly from Good Apple. **Subject Area:** Marketing **Source:** Good Apple **Markets:** Addiction, Psychiatry **Products:** Vivitrol, Lybalvi and Aristada **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Weekly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** Tuesday **Load strategy (Incremental/ Full) –** Incremental **Restatement (Yes/ No):** Yes **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	**Tables Covered –** • RAW_GOOD_APPLE_SEARCH_DISPLAY • CLNS_GOOD_APPLE_SEARCH_DISPLAY • SEM_GOOD_APPLE_SEARCH_DISPLAY
BRD-REQ-SEM-3	• Search Display data from Good Apple will be loaded as is in Semantic where history will also be maintained. ○ History from December 2020 is available. ○ All the historical data outside the time span of the latest file based on **WEEK_START, PRODUCT, MEDIA_TYPE, HCP_CONSUMER_FLAG** will be retained in semantic table. ○ For Instance, If the latest file has record for WEEK_START '23-07-16' for PRODUCT=' Lybalvi ', MEDIA_TYPE=' Paid Search - Branded' and HCP_CONSUMER_FLAG=' DTC ', and this combination also exists in History data, then data from the latest feed will be considered. • Below fields are directly populated from Search Display source:

Target Table	Source Table
PRODUCT	PRODUCT
OVERALL_CAMPAIGN	OVRL_CAMPAIGN

		MEDIA_TYPE	MEDIA_TYPE
		HCP_CONSUMER_FLAG	HCP_CONSUMER_FLAG
		WEEK_START	WK_START
		WEEK	WK_END
		SPLIT_WEEK_DATE	SPLIT_WEEK
		IMPRESSIONS	IMPRESSIONS
		CLICKS	CLICKS
		CLICK_THROUGH_RATE	CLICK_THROUGH_RATE
		MEDIA_COST	MEDIA_COST
		VISITS	VISITS
		QUALIFIED_VISITS	QUALIFIED_VISITS
		VIDEO_VIEWS	VIDEO_VIEWS

4.15.1.4 GOOD APPLE PAID MEDIA

S NO	**Requirement**
BRD-REQ-1 EXN -1	**Data Description:** This feed contains Non-Promotional Paid product level Media data. **Subject Area:** Marketing **Source:** Good Apple **Snowflake share tables:** ALKERMES_GOODAPPLE_ALL_BRANDS_NPPMEDIA_FOR_DATASHARE (**schema:** GA_ALKERMES_LYBALVI) **Markets:** Addiction, Psychiatry, Anti-Psych **Products:** Vivitrol, Aristada, Lyabalvi **Load strategy (Incremental/ Full) –** Incremental **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Monthly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** 15th of every Month **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	**Tables Covered –** • VW_ALKERMES_GOODAPPLE_ALL_BRANDS_NPPMEDIA_FOR_DATASHARE • FCT_PAID_MEDIA • SEM_PAID_MEDIA
BRD-REQ-DWH-3	• Incremental Non-Promotional Marketing monthly data for all brands will be appended in warehouse where History will also be maintained. ○ History is available from January 2021. • **SPLIT_WEEK_ID** will be populated from Split Week Calendar Dimension based on Date received from Good Apple.
BRD-REQ-SEM-4	• Incremental Non-Promotional Marketing monthly data for all brands will be loaded in Semantic where History will also be maintained. ○ History is available from January 2021.

	• **SPLIT_WEEK_DATE, WEEKENDING_FRIDAY** and **MONTH** will be populated from Split week Calendar based on Date received from Good Apple. • Below fields are directly populated from source:

Target table	Source Table
PRODUCT	PRODUCT
TIME_BREAKOUT	TIME_BREAKOUT
DATE	DATE
CAMPAIGN_NAME	CAMPAIGN_NAME
MEDIA_TYPE	MEDIA_TYPE
HCP_CONSUMER_FLAG	HCP_CONSUMER_FLAG
CAMPAIGN	CAMPAIGN
DCM_CAMPAIGN_ID	DCM_CAMPAIGN_ID
SITE	SITE
PLACEMENT	PLACEMENT
PLACEMENT_ID	PLACEMENT_ID
PACKAGE_ROADBLOCK	PACKAGE_ROADBLOCK
PACKAGE_ROADBLOCK_ID	PACKAGE_ROADBLOCK_ID
CREATIVE_OR_KEYWORD	CREATIVE_OR_KEYWORD
CREATIVE_ID	CREATIVE_ID
METRIC_TYPE	METRIC_TYPE
METRIC_VALUE	METRIC_VALUE

4.15.1.5 GOOD APPLE – PHYSICIAN LEVEL MARKETING DATA

S NO	Requirement
BRD-REQ-1 EXN-1	**Data Description:** This feed contains Non-Promotional Marketing data (Interactions) at physician level. **Subject Area:** Marketing **Source:** Good Apple **Snowflake share tables:** ALKERMES_ALL_BRANDS_PLD_FOR_DATASHARE **(schema:** GA_ALKERMES_LYBALVI) **Markets:** Addiction, Psychiatry, Anti-Psych **Products:** Vivitrol, Aristrada, Lyabalvi **Load strategy (Incremental/ Full) –** Incremental **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Monthly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** 15th of every Month **MDM Mastering (Yes/No) –** No

<table>
<tr><td>BRD-REQ-OBJ-2</td><td>Tables Covered –<ul><li>VW_ALKERMES_ALL_BRANDS_PLD_FOR_DATASHARE</li><li>FCT_GOOD_APPLE_DISPLAY_PHYSICIAN_LEVEL_DATA</li><li>SEM_GOOD_APPLE_DISPLAY_PHYSICIAN_LEVEL_DATA</li></ul></td></tr>
<tr><td>BRD-REQ-DWH-3</td><td><ul><li>Incremental Non-Promotional physician level Marketing monthly data for all brands will be appended in warehouse where History will also be maintained.<ul><li>History is available from January 2021.</li></ul></li><li>CUST_DIM_ID will be populated from DIM_CUSTOMER based on NPI received from Good Apple.</li><li>SPLIT_WEEK_ID will be populated from Split Week Calendar Dimension based on Date received from Good Apple.</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-4</td><td><ul><li>Incremental Non-Promotional physician level Marketing monthly data for all brands will be loaded in Semantic where History will also be maintained.<ul><li>History is available from January 2021.</li></ul></li><li>ALK_ID will be populated from SEM_CUSTOMER_MASTER based on CUST_DIM_ID.</li><li>SPLIT_WEEK_DATE, WEEKENDING_FRIDAY and MONTH will be populated from Split week Calendar based on Date received from Good Apple.</li><li>Below fields are directly populated from source:</li></ul>
<table>
<tr><th>Target Table</th><th>Source Table</th></tr>
<tr><td>PRODUCT</td><td>PRODUCT</td></tr>
<tr><td>BREAKOUT</td><td>BREAKOUT</td></tr>
<tr><td>SRC_NPI</td><td>NPI</td></tr>
<tr><td>ALT_IDENTIFIER</td><td>ALT_IDENTIFIER</td></tr>
<tr><td>ALT_IDENTIFIER_DESC</td><td>ALT_IDENTIFIER_DESC</td></tr>
<tr><td>CAMPAIGN_NAME</td><td>CAMPAIGN_NAME</td></tr>
<tr><td>PUBLISHER</td><td>PUBLISHER</td></tr>
<tr><td>CHANNEL</td><td>CHANNEL</td></tr>
<tr><td>DATE</td><td>DATE</td></tr>
<tr><td>TACTIC</td><td>TACTIC</td></tr>
<tr><td>DEVICE_TYPE</td><td>DEVICE_TYPE</td></tr>
<tr><td>PLACEMENT</td><td>PLACEMENT</td></tr>
<tr><td>PROGRAM_DETAIL</td><td>PROGRAM_DETAIL</td></tr>
<tr><td>INTERACTION_TYPE</td><td>INTERACTION_TYPE</td></tr>
<tr><td>ENGAGEMENT_LEVEL</td><td>ENGAGEMENT_LEVEL</td></tr>
<tr><td>INTERACTION_COUNT</td><td>INTERACTION_COUNT</td></tr>
</table>
</td></tr>
</table>

4.15.1.6 GA WEBSITE DATA

BRD-REQ-1 EXN-1	**Data Description:** This feed contains Google analytics product level website data. **Subject Area:** Marketing

<table>
<tr><td></td><td>Source: Good Apple
Snowflake share tables: ALKERMES_ARISTADA_WEBSITE_FOR_DATASHARE, ALKERMES_LYBALVI_WEBSITE_FOR_DATASHARE, ALKERMES_VIVITROL_WEBSITE_FOR_DATASHARE (schema: GA_ALKERMES_LYBALVI)
Markets: Addiction, Psychiatry, Anti-Psych
Products: Vivitrol, Aristrada, Lyabalvi
Load strategy (Incremental/ Full) – Incremental
Restatement (Yes/ No): Yes (Latest week + 12 Weeks reinstated data)
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Weekly
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly) - Every Monday
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD REQ-OBJ-2</td><td>Tables Covered –<ul><li>VW_ALKERMES_LYBALVI_WEBSITE_FOR_DATASHARE</li><li>VW_ALKERMES_ARISTADA_WEBSITE_FOR_DATASHARE</li><li>VW_ALKERMES_VIVITROL_WEBSITE_FOR_DATASHARE</li><li>FCT_WEBSITE_ACTIVITY</li><li>SEM_WEBSITE_ACTIVITY</li></ul></td></tr>
<tr><td>BRD-REQ-DWH-3</td><td><ul><li>Google Analytics website weekly data for all brands will be loaded in the Warehouse (FCT_WEBSITE_ACTIVITY) where History will also be maintained.</li><li>The process will check for the latest available data in the source and load the incremental data in warehouse.</li><li>Data will be reinstated based on following column combination - PRODUCT, CHANNEL, DEVICE, SITE_TYPE, PROPERTY_APP_ID, PROPERTY_NAME, DATE</li><li>SPLIT_WEEK_ID will be populated as Id from Split Week Calendar Dimension based on Date received from Good Apple.</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-4</td><td><ul><li>Data for all the available weeks will be available in semantic. (SEM_WEBSITE_ACTIVITY)</li><li>SPLIT_WEEK_DATE will be populated as SW_END_DATE from Split week Calendar based on Date received from Good Apple.</li><li>WEEKENDING_FRIDAY will be populated as WEEKENDING_FRIDAY from Split week Calendar based on Date received from Good Apple.</li><li>MONTH will be populated as CALENDAR_MONTH_START_DATE from Split week Calendar based on Date received from Good Apple.</li><li>Below fields are directly populated from source:</li></ul>
<table>
<tr><th>Semantic table field</th><th>Source field</th></tr>
<tr><td>PRODUCT</td><td>PRODUCT</td></tr>
<tr><td>CHANNEL</td><td>CHANNEL</td></tr>
<tr><td>DEVICE</td><td>DEVICE</td></tr>
<tr><td>SITE_TYPE</td><td>SITE_TYPE</td></tr>
<tr><td>PROPERTY_APP_ID</td><td>PROPERTY_APP_ID</td></tr>
<tr><td>PROPERTY_NAME</td><td>PROPERTY_NAME</td></tr>
<tr><td>VIEW_ID</td><td>VIEW_ID</td></tr>
<tr><td>DATE</td><td>DATE</td></tr>
</table></td></tr>
</table>

SESSIONS	SESSIONS
QUALIFIED_VISITS	QUALIFIED_VISITS
AVG_SESSION_DURATION	AVG_SESSION_DURATION
TOTAL_PDF_DOWNLOADS	TOTAL_PDF_DOWNLOADS
TOTAL_VIDEO_VIEWS	TOTAL_VIDEO_VIEWS (For ARISTADA & VIVITROL)
TOTAL_EMAIL_REGISTRATION_SIGNUPS	EMAIL_REGISTRATION_SIGNUPS – For LYBALVI TOTAL_EMAIL_REGISTRATION_SIGNUPS – For VIVITROL
HCP_REQUEST_A_REP_FORM_SUBMISSIONS	HCP_REQUEST_A_REP_FORM_SUBMISSIONS (For ARISTADA & LYBALVI) VIVITROLHCP_REQUEST_A_REP_FORM_SUBMISSIONS (For VIVITROL)
DTC_DOCTOR_DISCUSSION_GUIDE_DOWNLOADS	DTC_DOCTOR_DISCUSSION_GUIDE_DOWNLOADS SUBMISSIONS (For ARISTADA & LYBALVI) VIVITROLDTC_DR_DISCUSSION_GUIDE_DOWNLOADS (For VIVITROL)
DTC_COPAY_CARD_DOWNLOADS	DTC_COPAY_CARD_DOWNLOADS (For LYBALVI) VIVITROLDTC_COPAY_CARD_DOWNLOADS (For VIVITROL)
DTC_PROVIDER_LOCATOR	DTC_PROVIDER_LOCATOR (For ARISTRADA) VIVITROLDTC_PROVIDER_LOCATOR (For VIVITROL)
HCP_PK_SIMULATOR_STARTS	HCP_PK_SIMULATOR_STARTS (Only for ARISTRADA)
HCP_AD_EFFICACY_SAFETY_PAGE_SCROLL_FIFTY_PERCENT	VIVITROLHCP_AD_EFFICACY_SAFETY_PAGE_SCROLL_FIFTY_PERCENT (For VIVITROL only)
HCP_V2G_ENROLLMENT_FORM_DOWNLOAD	VIVITROLHCP_V2G_ENROLLMENT_FORM_DOWNLOAD (For VIVITROL only)
HCP_PROVIDER_LOCATOR_AGREEMENT_FORM_DOWNLOAD	VIVITROLHCP_PROVIDER_LOCATOR_AGREEMENT_FORM_DOWNLOAD (For VIVITROL only)
TOTAL_PRESCRIBING_INFO_DOWNLOADS	TOTAL_PRESCRIBING_INFO_DOWNLOADS (For VIVITROL only)
TOTAL_MEDICATION_GUIDE_DOWNLOADS	TOTAL_MEDICATION_GUIDE_DOWNLOADS (For VIVITROL only)
TOTAL_PAIN_MANAGEMENT_CARD_DOWNLOADS	TOTAL_PAIN_MANAGEMENT_CARD_DOWNLOADS (For VIVITROL only)
MRWA_BEGIN_QUESTIONNAIRE	MRWA_BEGIN_QUESTIONNAIRE (For VIVITROL only)
MRWA_DOWNLOAD_QUESTIONNAIRE	MRWA_DOWNLOAD_QUESTIONNAIRE (For VIVITROL only)

4.15.2 JUICE– EMAIL AND WEBSITE CAMPAIGN

S NO	**Requirement**		
BRD-REQ-1 RAW-1	**Feed Details:**		
	Feed ID	**Feed Name**	**Feed Description**
	483	JUICE_EMAIL	This feed contains email campaign data.

	484	JUICE_WEBSITE_DATASET	This feed contains website campaign data.

Subject Area: Marketing
Source: Juice
Markets: Psychiatry
Products: Lybalvi
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Weekly
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- Tuesday
Load strategy (Incremental/ Full) – Incremental
Restatement (Yes/ No): Yes
MDM Mastering (Yes/No) – No

BRD-REQ-OBJ-2

Tables Covered –

- RAW_JUICE_EMAIL, RAW_JUICE_WEBSITE
- CLNS_JUICE_EMAIL, CLNS_JUICE_WEBSITE
- SEM_JUICE_EMAIL, SEM_JUICE_WEBSITE

BRD-REQ-SEM-3

1. Juice Email provides information on Alkermes home office email campaign performance, as reported by Juice. Below KPIs are reported:
    - Delivered
    - Opened
    - Clicked
    - Unsubscribes
- Juice Email campaign data will be loaded as it is in Semantic where history will also be maintained.
    - History from December 2020 is available.
    - All the historical data outside the time span of the latest file based on **WEEK_START_DATE** will be retained in semantic.
- Below fields are directly populated from Juice Email source:

Target Table	Source Table
PRODUCT	PRODUCT
OVERALL_CAMPAIGN	OVRL_CAMPAIGN
HCP_CONSUMER_FLAG	HCP_CONSUMER_FLAG
WEEK_START_DATE	WEEK_START_DT
WEEK_END_DATE	WEEK_END_DT
SPLIT_WEEK_DATE	WEEK_SPLIT_DT
EMAILS_DELIVERED	EMAILS_DELIVERED
EMAILS_OPENED	EMAILS_OPENED
EMAILS_CLICKED	EMAILS_CLICKED
UNSUBSCRIBES	UNSUBSCRIBES

2. Juice Website provides information on website traffic to Alkermes' home office website, as reported by the agency "Juice". KPIs related to website usage are reported.

- Juice Website campaign data will be loaded as it is in Semantic where history will also be maintained.
    - History from December 2020 is available.
    - All the historical data outside the time span of the latest file based on **WEEK_START_DATE** will be retained in semantic.

	• Below fields are directly populated from Juice Website source: **Target Table** / **Source Table** PRODUCT / PRODUCT OVERALL_CAMPAIGN / OVRL_CAMPAIGN HCP_CONSUMER_FLAG / HCP_CONSUMER_FLAG WEEK_START_DATE / WEEK_START_DT WEEK_END_DATE / WEEK_END_DT SPLIT_WEEK_DATE / WEEK_SPLIT_DT TOTAL_WEBSITE_VISITS / TOTAL_WEBSITE_VISITS QUALIFIED_WEBSITE_VISITS / QUALIFIED_WEBSITE_VISITS TOTAL_SITE_REGISTRATIONS / TOTAL_SITE_REGISTRATIONS

4.15.3 PRECISION

4.15.3.1 PRECISION EXTRACT – MARKETO DYNAMIC EMAIL

S NO	**Requirement**
BRD-REQ-1 RAW -1	**Feed Details:** **Feed Id** / **Feed Name** / **Feed Description** 589 / Precision_NPP_MessageFootnote_ / This feed is for dynamic email foot note content 590 / Precision_NPP_PrescriberPlan_ / This feed is for dynamic email prescriber content 591 / Precision_NPP_PrescriberMessage_ / This feed is for dynamic email prescriber message **Source**: Precision Xtract. **Subject Area:** Marketing **Markets:** Psychiatry **Products:** Aristada **Load strategy (Incremental/ Full) –** Incremental **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Monthly. **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** 15th of Every month. **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	**Tables Covered –** • RAW_PRECISION_MESSAGE_FOOTNOTE, RAW_PRECISION_PRESCRIBER_PLAN, RAW_PRECISION_PRESCRIBER_MESSAGE • CLNS_PRECISION_MESSAGE_FOOTNOTE, CLNS_PRECISION_PRESCRIBER_PLAN, CLNS_PRECISION_PRESCRIBER_MESSAGE • SEM_PRECISION_MESSAGE_FOOTNOTE, SEM_PRECISION_PRESCRIBER_PLAN, SEM_PRECISION_PRESCRIBER_MESSAGE
BRD-REQ-SEM-3	• Precision Xtract Marketing Campaign data for Aristada will be loaded in Semantic as is where history will also be maintained. ○ History from May 2023 is available. • **ALK_ID** updates will be performed using ALK ID Master based on Prescriber Id from source.

<table>
<tr><td></td><td>
<ul>
<li>Marketo Lead ID will be populated as per below logic:
<ul>
<li>Lead ID from SEM Marketo Leads based on most recent ALK ID fetched from ALK ID Master.</li>
<li>Below partition IDs are used for respective brands to pull Lead ID from SEM Marketo Leads.</li>
</ul>
<table>
<tr><th>Brand</th><th>Partition ID</th></tr>
<tr><td>ARISTRADA</td><td>1005</td></tr>
<tr><td>LYBALVI</td><td>1009</td></tr>
<tr><td>VIVITROL</td><td>10</td></tr>
</table>
</li>
<li>For Precision Prescriber message, NPI received from source will not be utilized. NPI will be populated from Customer Identifier based on latest ALK ID.</li>
<li>Below is source to target mapping:

Marketo Dynamic Email</li>
</ul>
</td></tr>
<tr><td>BRD-REQ-Sync-4</td><td>
Marketo Sync
<ul>
<li>Current month data will be synced to Marketo Custom Objects.
<ul>
<li>This is ad hoc process currently.</li>
</ul>
</li>
<li>New records will be inserted, and existing records will be updated in Marketo based on below dedupe fields:
<table>
<tr><th>Object</th><th>Dedupe Fields</th></tr>
<tr><td>Prescriber Message</td><td>MarketoID, MessageCategory, MessageCode</td></tr>
<tr><td>Prescriber Footnote</td><td>FootnoteCode, MarketoID, MessageCode</td></tr>
<tr><td>Prescriber Plan</td><td>MarketoID, MessageCode, PlanID</td></tr>
</table>
</li>
</ul>
</td></tr>
</table>

4.15.3.2 PRECISION TRIGGER

S NO	Requirement
BRD-REQ-RAW-1	**Feed Ids:** 571 **Feed Name:** Precision Trigger **Feed Description:** This feed contains HCP suggestion data. **Subject Area:** HCP Suggestions data - Precision **Markets:** Psychiatry, Addiction **Products:** NA **Load strategy (Incremental/ Full) -** Full **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Monthly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** NA **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	**Tables Covered –** • RAW_PRECISION_TRIGGER • CLNS_PRECISION_TRIGGER • SEM_PRECISION_TRIGGER

<table>
<tr><td></td><td>

- VW_ SEM_PRECISION_TRIGGER

</td></tr>
<tr><td>BRD-REQ-SEM-3</td><td>

- Complete Precision Trigger data will be loaded into Semantic.
- **POST_DATE_DIM_ID** will be populated as CALENDAR_ID from Calendar based on POST_DATE.
- **EXPIRATION_DATE_DIM_ID** will be populated as CALENDAR_ID from Calendar based on EXPIRATION_DATE.
- **PRODUCT_DIM_ID** will be populated as SRC_PROD_ID from MAP_PROD_EXT_ID * where SRC = 'PRECISION') based on Product.
- Below columns are directly populated from Source:

<table>
<tr><th>Target Table</th><th>Source Table</th></tr>
<tr><td>SUGGESTION_NAME</td><td>SUGGESTION_NAME</td></tr>
<tr><td>RECORD_TYPE</td><td>RECORD_TYPE</td></tr>
<tr><td>PRIORITY</td><td>PRIORITY</td></tr>
<tr><td></td><td></td></tr>
<tr><td>TITLE</td><td>TITLE</td></tr>
<tr><td>REASON</td><td>REASON</td></tr>
<tr><td>DISMISS</td><td>DISMISS</td></tr>
<tr><td>MARK_AS_COMPLETE</td><td>MARK_AS_COMPLETE</td></tr>
<tr><td>USE_EMAIL_TEMPLATE</td><td>USE_EMAIL_TEMPLATE</td></tr>
<tr><td>EMAIL_TEMPLATE_ID</td><td>EMAIL_TEMPLATE_ID</td></tr>
<tr><td>DO_NOT_DISPLAY_ON_HOME_PAGE</td><td>DO_NOT_DISPLAY_ON_HOME_PAGE</td></tr>
<tr><td>POST_DATE</td><td>POST_DATE</td></tr>
<tr><td>EXPIRATION_DATE</td><td>EXPIRATION_DATE</td></tr>
<tr><td>PROCESSED</td><td>PROCESSED</td></tr>
<tr><td>SRC_PRODUCT_NAME</td><td>PRODUCT</td></tr>
</table>

</td></tr>
</table>

4.15.4 ALKERMES

4.15.4.1 TV MARKET RESEARCH

S NO	Requirement
BRD-REQ-RAW-1	**Feed Id:** 581 **Feed Name:** LYBALVI_DTC_TV_MARKET_RESEARCH **Feed Description:** This feed contains market research details for good apple paid media. **Subject Area:** Marketing **Source:** Alkermes **Markets:** Psychiatry **Products:** Lybalvi

<table>
<tr><td></td><td>Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Monthly
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- 1st of every month
Load strategy (Incremental/ Full) – Incremental
Restatement (Yes/ No): No
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>Tables Covered –<ul><li>RAW_TV_MARKET_RESEARCH</li><li>CLNS_TV_MARKET_RESEARCH</li><li>SEM_TV_MARKET_RESEARCH</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-3</td><td><ul><li>The latest data for Lybalvi TV Market research will be loaded in Semantic as is where history will also be maintained.<ul><li>History from July 2022 is available.</li></ul></li><li>Below fields are directly populated from source:</li></ul>
<table>
<tr><th>Semantic Table field</th><th>Source field</th></tr>
<tr><td>MONTH</td><td>MONTH</td></tr>
<tr><td>BRAND</td><td>BRAND</td></tr>
<tr><td>HCP_CONSUMER_FLAG</td><td>HCP_CONSUMER_FLAG</td></tr>
<tr><td>METRIC_TYPE</td><td>METRIC_TYPE</td></tr>
<tr><td>METRIC_VALUE</td><td>METRIC_VALUE</td></tr>
</table>
</td></tr>
</table>

4.15.4.2 CALL CAMPAIGN – FIVE9

S NO	Requirement
BRD-REQ-RAW -1	**Feed Id**: 588 **Feed Name**: Daily_call_totals_for_ **Feed Description**: This feed contains Call Campaign data from Five 9 system. **Source**: Alkermes sales ops **Subject Area**: Marketing **Markets**: Addiction, Psychiatry, Anti-Psych **Products**: Vivitrol, Aristrada, Lyabalvi **Load strategy (Incremental/ Full)** – Incremental **Restatement (Yes/ No)**: No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc)** – Daily **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)**- Daily **MDM Mastering (Yes/No)** – No
BRD-REQ-OBJ-2	**Tables Covered –** • RAW_CALL_CAMPAIGN _FIVE9 • CLNS_CALL_CAMPAIGN _FIVE9 • FCT_CALL_CAMPAIGN _FIVE9 • RPT_CALL_CAMPAIGN _FIVE9

<table>
<tr><td>BRD-REQ-DWH-3</td><td>
<ul>
<li>Incremental Call Campaign data from Five9 reports for all brands will be loaded in the Warehouse daily where History will also be maintained.
<ul><li>History from April 2023 is available.</li></ul></li>
<li>All Data for ‘MANUAL OUTBOUND’ Campaign where CALLS_UNANSWERED_BY_AGENT is Zero will be excluded.</li>
</ul>
</td></tr>
<tr><td>BRD-REQ-RPT-4</td><td>
<ul>
<li>Incremental Call Campaign data from Five9 reports for all brands will be loaded in the reporting layer daily where History will also be maintained.
<ul><li>History from April 2023 is available.</li></ul></li>
<li>All Data for ‘MANUAL OUTBOUND’ Campaign where CALLS_UNANSWERED_BY_AGENT is Zero will be excluded.</li>
<li>Below fields are directly populated from source:</li>
</ul>
<table>
<tr><th>Reporting table field</th><th>Source field</th></tr>
<tr><td>AGENT_NAME</td><td>AGENT_NAME</td></tr>
<tr><td>DATE</td><td>DATE</td></tr>
<tr><td>CALL_TYPE</td><td>CALL_TYPE</td></tr>
<tr><td>SKILL</td><td>SKILL</td></tr>
<tr><td>CAMPAIGN</td><td>CAMPAIGN</td></tr>
<tr><td>CALLS</td><td>CALLS</td></tr>
<tr><td>CALLS_UNANSWERED_BY_AGENT</td><td>CALLS_UNANSWERED_BY_AGENT</td></tr>
<tr><td>LOGIN_TIME</td><td>LOGIN_TIME</td></tr>
<tr><td>WAIT_TIME</td><td>WAIT_TIME</td></tr>
<tr><td>NOT_READY_TIME</td><td>NOT_READY_TIME</td></tr>
<tr><td>ON_CALL_TIME</td><td>ON_CALL_TIME</td></tr>
<tr><td>ON_ACW_TIME</td><td>ON_ACW_TIME</td></tr>
<tr><td>HANDLE_TIME</td><td>HANDLE_TIME</td></tr>
<tr><td>TALK_TIME</td><td>TALK_TIME</td></tr>
</table>
</td></tr>
</table>

4.15.5 PROMOTIONAL DATA

Promo Mats feed contains the details regarding Promotional products Ordered and Delivered.

4.15.5.1 PROMOTIONAL DATA - ORDERED

S NO	Requirement
BRD-REQ-RAW-1	**Feed Id:** 355 **Feed Name:** HCP_ORDERS **Feed Description:** This feed contains the Promotional Materials Ordered data. **Source**: FGRAPHIC **Subject Area:** Promotional Data **Markets:** Addiction, Psychiatry

<table>
<tr><td></td><td>Products: Aristada, Lybalvi, Vivitrol.
Load strategy (Incremental/ Full) – Incremental
Restatement (Yes/ No): No
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Daily
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- NA
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>Tables Covered –<ul><li>RAW_HCP_ORDERS</li><li>CLNS_HCP_ORDERS</li><li>FCT_PROMO_MATS_TBM_ORDERED</li><li>SEM_PROMO_MATS_TBM_ORDERED</li></ul></td></tr>
<tr><td>BRD-REQ-DWH-3</td><td><ul><li>Incremental promotional data for all brands will be loaded in the Warehouse daily where History will also be maintained.</li><li>Customer Details will be fetched from Customer Dimension table based on Account Name and Channel.</li><li>Product details will be fetched from Product Master based on PRODUCT_VOD__C.</li><li>Order Date Id and Ship Date Id will be populated as Calendar Id from Calendar Dimension based on Order Date and Ship Date respectively.</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-4</td><td><ul><li>Semantic table will include complete promotional data shared by Alkermes.</li><li>Customer details will be fetched from Customer Master based on Account Name and Channel.</li><li>Product details will be fetched from Product Master based on PRODUCT_VOD__C.</li><li>Order Month, Order Split Week Date and Order Week will be populated as Calendar Month, Split Weekend Date and Weekending Friday from Split Week Calendar based on Order Date.</li><li>Ship Month, Ship Split Week Date and Ship Week will be populated as Calendar Month, Split Weekend Date and Weekending Friday from Split Week Calendar based on Ship Date.</li><li>Below fields are directly populated from source:</li></ul>
<table>
<tr><th>Semantic Table Field</th><th>Source Field</th></tr>
<tr><td>ORDER_NUM</td><td>ORDER_NUM</td></tr>
<tr><td>PART_NUM</td><td>PART_NUM</td></tr>
<tr><td>PART_NAME</td><td>PART_NAME</td></tr>
<tr><td>BUYING_UNIT_OF_MEASURE</td><td>BUYING_UNIT_OF_MEASURE</td></tr>
<tr><td>QTY_TO_PROMISE</td><td>QTY_TO_PROMISE</td></tr>
<tr><td>QTY_ORDERED</td><td>QTY_ORDERED</td></tr>
<tr><td>QTY_SHIPPED</td><td>QTY_SHIPPED</td></tr>
<tr><td>CONTACT</td><td>CONTACT</td></tr>
<tr><td>SHIP_TO_FIRST_NAME</td><td>SHIP_TO_FIRST_NAME</td></tr>
<tr><td>SHIP_TO_LAST_NAME</td><td>SHIP_TO_LAST_NAME</td></tr>
<tr><td>ADDR_1</td><td>SRC_ADDR_1</td></tr>
<tr><td>ADDR_2</td><td>SRC_ADDR_2</td></tr>
<tr><td>ZIP_CD</td><td>SRC_ZIP_CD</td></tr>
<tr><td>CARRIER</td><td>CARRIER</td></tr>
<tr><td>TRACKING_NUM</td><td>TRACKING_NUM</td></tr>
</table></td></tr>
</table>

		HOST_ORDER_NUM	HOST_ORDER_NUM
		CHANNEL	CHANNEL
		STANDARD_COST	STANDARD_COST
		HOST_ORDER_LINE_NUMBER	HOST_ORDER_LINE_NUMBER
		CLM_CATEGORY_C	CLM_CATEGORY_C
		DEPARTMENT_NAME	DEPARTMENT_NAME
		SHORT_TITLE	SHORT_TITLE

4.15.5.2 PROMOTIONAL DATA - DELIVERED

S NO	Requirement
BRD-REQ-RAW-1	**Source:** Veeva **Feed Name:** CALL2_SAMPLE_VOD__C **Feed Description:** This feed contains the Promotional Materials Delivered data. **Subject Area:** Promotional Data **Markets:** Addiction, Psychiatry **Products:** Aristada, Lybalvi,Vivitrol. **Load strategy (Incremental/ Full) –** Incremental **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Daily **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** NA **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	**Tables Covered –** • CDE_EXN.CALL2_SAMPLE_VOD__C • FCT_PROMO_MATS_TBM_DELIVERED • SEM_PROMO_MATS_TBM_ DELIVERED
BRD-REQ-DWH-3	• Incremental promotional data for all brands will be loaded in the Warehouse daily where History will also be maintained. • **Employee Details** will be fetched from the User table based on CREATEDBYID. • **Customer Details** will be fetched from the Customer Dimension table based on ACCOUNT_VOD__C. • **Product details** will be fetched from Product Master based on PARENT_PRODUCT__C and source as 'PROMOTIONAL MATERIALS DELIVERED'. • **Team Details** will be fetched from Employee Assignment List Extract based on CREATEDBYID. • **Call Date Id** will be populated as Calendar Id from Calendar Dimension based on CALL_DATE_VOD__C
BRD-REQ-SEM-4	• Semantic table will include complete promotional data shared by Business. • **Customer details** will be fetched from Customer Master based on ACCOUNT_VOD__C. • **Product details** will be fetched from Product Master based on PARENT_PRODUCT__C and source as 'PROMOTIONAL MATERIALS DELIVERED'. • **Employee Details** will be fetched from the Employee table based on CREATEDBYID. • **Call Month** will be populated from Calendar table based on CALL_DATE_VOD__C. • **Call Date Week** will be populated as Weekending Friday from Split Week Calendar based on CALL_DATE_VOD__C. • Below fields are directly populated from source:

Semantic Table Field	Source Field
SRC_ACCOUNT_ID	ACCOUNT_VOD__C
NAME	NAME
CALL_DATE_VOD__C	CALL_DATE
CALL_DATE_VOD__C	CALL_TIME
QUANTITY_VOD__C	QUANTITY
LOT_VOD__C	LOT
CALL2_VOD__C	CALL2
DISTRIBUTOR_VOD__C	DISTRIBUTOR
DELIVERY_STATUS_VOD__C	DELIVERY_STATUS
PRODUCT_TYPE__C	PRODUCT_TYPE
PARENT_PRODUCT__C	PARENT_PRODUCT
CALL_NAME__C	CALL_NAME
IS_PARENT_CALL_VOD__C	IS_PARENT_CALL
EXPENSE_NATURE__c	EXPENSE_NATURE
CURRENCY__C	CURRENCY
TOTAL_COST_NUMBER__C	TOTAL_COST_NUMBER
PRODUCT_NAME__C	SRC_PRODUCT_NAME
LIMIT_APPLIED_VOD__C	LIMIT_APPLIED
MANUFACTURER_VOD__C	MANUFACTURER
DELIVERY_STATUS_FORMULA__C	DELIVERY_STATUS_FORMULA
TRACKING_NUMBER__C	TRACKING_NUMBER
ORDER_NUMBER__C	ORDER_NUMBER
LASTMODIFIEDDATE	LASTMODIFIEDDATE

4.16 INVENTORY DATA

S NO	Requirement
BRD-REQ-RAW-1	**Feed Id:** 570 **Feed Name:** ORDER_FULFILLMENT **Feed Description:** This feed contains product ordering and logistics information such as Same Day Shipping, Picking Accuracy, etc. **Source**: ICS **Subject Area:** Inventory Data **Markets:** Addiction, Psychiatry **Products:** Aristada, Lybalvi, Vivitrol. **Load strategy (Incremental/ Full) –** Incremental **Restatement (Yes/ No):** Yes, 11 months restatement is received from source. **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Monthly

<table>
<tr><td></td><td>File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- 3rd Monday of month
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>Tables Covered –<ul><li>RAW_ORDER_FULFILLMENT</li><li>CLNS_ORDER_FULFILLMENT</li><li>SEM_ORDER_FULFILLMENT</li><li>VW_SEM_ORDER_FULFILLMENT</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-3</td><td><ul><li>The semantic table will have complete data till date for all the months starting from Jan 2020.</li><li>Out of the latest 12 months data received from source, Latest month data is loaded as is and 11 months data will be reinstated in Semantic.</li><li>For Target_Month=’ Target’, Values from the latest file will be populated in Semantic.</li><li>VW_SEM_ORDER_FULFILLMENT will also contain the latest data including History starting Jan 2020.</li><li>Below fields are directly populated from source:</li></ul>
<table>
<tr><th>Semantic Table Field</th><th>Source Field</th></tr>
<tr><td>TARGET_MONTH</td><td>TARGET_MONTH</td></tr>
<tr><td>PICKING_ACCURACY</td><td>PICKING_ACCURACY</td></tr>
<tr><td>INVENTORY_ACCURACY</td><td>INVENTORY_ACCURACY</td></tr>
<tr><td>SAME_DAY_SHIPPING</td><td>SAME_DAY_SHIPPING</td></tr>
<tr><td>INBOUND_RECEIPT_TURNAROUND</td><td>INBOUND_RECEIPT_TURNAROUND</td></tr>
<tr><td>MOVE_TO_SALEABLE</td><td>MOVE_TO_SALEABLE</td></tr>
<tr><td>COLLECTION_PORTFOLIO_MANAGEMENT_CLIENT_AGING</td><td>COLLECTION_PORTFOLIO_MANAGEMENT_CLIENT_AGING</td></tr>
<tr><td>CASH_SLA</td><td>CASH_SLA</td></tr>
<tr><td>CHARGEBACK_CREDITS_EDI_SUBMISSIONS</td><td>CHARGEBACK_CREDITS_EDI_SUBMISSIONS</td></tr>
<tr><td>CHARGEBACK_CREDITS_MANUAL_SUBMISSIONS</td><td>CHARGEBACK_CREDITS_MANUAL_SUBMISSIONS</td></tr>
<tr><td>CUSTOMER_SERVICE_ORDER_ACCURACY</td><td>CUSTOMER_SERVICE_ORDER_ACCURACY</td></tr>
<tr><td>RETURNED_GOOD_AUTHORIZATION_PROCESSING</td><td>RETURNED_GOOD_AUTHORIZATION_PROCESSING</td></tr>
<tr><td>TELEPHONE_ANSWER_SPEED_TIME_FRAME</td><td>TELEPHONE_ANSWER_SPEED_TIME_FRAME</td></tr>
<tr><td>TELEPHONE_ABANDON_RATE</td><td>TELEPHONE_ABANDON_RATE</td></tr>
<tr><td>FILLER</td><td>ORDR_FLFILMNT_1</td></tr>
<tr><td>FILLER</td><td>ORDR_FLFILMNT_2</td></tr>
<tr><td>FILLER</td><td>ORDR_FLFILMNT_3</td></tr>
</table></td></tr>
</table>

4.17 HOSPITAL MASTER

Hospital Master comprises of the following details:

- HOSPITAL REGISTRATION
- HOSPITAL SHIPMENT

4.17.1 HOSPITAL REGISTRATION

<table>
<tr><td>BRD REQ-RAW-1</td><td>
Feed Details:
<table>
<tr><th>Feed_id</th><th>Feed_name</th><th>Description</th><th>Frequency</th></tr>
<tr><td>150</td><td>HIBT_VIV_HOS_REG WeeklyVivitrolHospitalProgramReport-Registration</td><td>This feed contains hospital information such as name, address along with its associated pharmacy and pharmacists' information for Vivitrol product.</td><td>Weekly - Monday</td></tr>
<tr><td>152</td><td>HIBT_ARI_HOS_REG WeeklyAristadaHospitalProgramReport-Registration</td><td>This feed contains hospital information such as name, address along with its associated pharmacy and pharmacists information for Aristada product.</td><td>Weekly - Monday</td></tr>
</table>
Source: HIBBERT
Subject Area: Hospital Master
Markets: Psychiatry, Addiction
Product: Aristada, Vivitrol
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): No
MDM Mastering (Yes/No) – No
</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>
<ul>
<li>RAW_VIVITROL_HOSPITAL_REGISTRATION, RAW_ARISTADA_HOSPITAL_REGISTRATION</li>
<li>CLNS_VIVITROL_HOSPITAL_REGISTRATION, CLNS_ARISTADA_HOSPITAL_REGISTRATION</li>
<li>FCT_HOSPITAL_REGISTRATION</li>
<li>SEM_HOSPITAL_REGISTRATION</li>
</ul>
</td></tr>
<tr><td>BRD-REQ-DWH-3</td><td>
<ul>
<li>Weekly Incremental Hospital registration details for Aristada and Vivitrol will be loaded into the warehouse where history will also be maintained.
<ul>
<li>The history is maintained from Feb 2015.</li>
</ul></li>
<li>Customer Dimension Id will be populated from DIM_CUSTOMER based on ALK_ID for Active customers.</li>
<li>Product Dimension Id will be populated from MAP_PROD_EXT_ID based on SRC and SRC_PROD_ID</li>
<li>PHARMACY_LICENSE_EXPIRATION_DT_DIM_ID will be populated from DIM_CALENDAR based on COMPLETE_DT and PHARMACY_LICENSE_EXPIRATION_DT.</li>
<li>APPROVAL_DT_DIM_ID will be populated from DIM_CALENDAR based on COMPLETE_DT and CALENDAR_ID.</li>
<li>APPROVAL_DT_SPLIT_WEEK_ID will be populated from DIM_SPLIT_WEEK_CALENDAR based on APPROVAL_DT.</li>
<li>STATUS_DT_DIM_ID will be populated from DIM_CALENDAR based on COMPLETE_DT and STATUS_DT.</li>
<li>EXTRACT_DT_DIM_ID will be populated from DIM_CALENDAR based on COMPLETE_DT and EXTRACT_DT</li>
</ul>
</td></tr>
</table>

	• ENROLLMENT_DT_DIM_ID will be populated from DIM_CALENDAR based on COMPLETE_DT and ENROLLMENT_DT • SOFT_VER_DT_DIM_ID will be populated from DIM_CALENDAR based on COMPLETE_DT and SOFT_VER_DT • ANN_VER_DT_DIM_ID will be populated from DIM_CALENDAR based on COMPLETE_DT and ANN_VER_DT • ACTUAL_ANN_VER_DT_DIM_ID will be populated from DIM_CALENDAR and ACTUAL_ANN_VER_DT
BRD-REQ-SEM-4	• Weekly Incremental Hospital registration details for Aristada and Vivitrol will be loaded into Semantic where history will also be maintained. ○ The history is maintained from Feb 2015. • Customer Details (ALK_ID, NAME) will be populated from Customer Master based on ALK_ID for Active customers. • Product details (PRODUCT_NAME, BRAND) will be populated from Product Master based on SRC_PROD_ID. • EXTRACT_DATE, ENROLLMENT_DATE, APPROVAL_DATE will be populated from SEM_CALENDAR based on CALENDAR_ID • Below columns will be directly populated from source:

Semantic table field	Source field
CUST_DIM_ID	CUST_DIM_ID
ALK_ID	CUST_ID
NAME	PARTY_NAME
PROD_DIM_ID	PROD_DIM_ID
STATUS	STATUS
PHARMACIST_NAME	PHARMACIST_NAME
PHARMACIST_ROLE	PROF_DESIGNATION
HOSPITAL_NPI_NUMBER	NPI_NUM

4.17.2 HOSPITAL SHIPMENT

BRD REQ-RAW-1

Feed Details:

Feed_id	Feed_name	Description	Frequency
151	HIBT_VIV_HOS_SHIP WeeklyVivitrolHospitalProgramReport-Shipment	This feed contains hospital shipment information for Vivitrol.	Weekly - Monday
153	HIBT_ARI_HOS_SHIP WeeklyAristadaHospitalProgramReport-Shipment	This feed contains hospital shipment information for Aristada.	Weekly - Monday

<table>
<tr><td></td><td>
<table>
<tr><td>568</td><td>WeeklyVivitrolHospitalProgramReport-Shipment_Historic</td><td>This feed contains yearly hospital shipment information for Vivitrol.</td><td>Yearly</td></tr>
<tr><td>569</td><td>WeeklyAristadaHospitalProgramReport-Shipment_Historic</td><td>This feed contains yearly hospital shipment information for Aristada.</td><td>Yearly</td></tr>
</table>
Source: HIBBERT
Subject Area: Hospital Master
Markets: Psychiatry, Addiction
Product: Aristada, Vivitrol
Load strategy (Incremental/ Full) - Full
Restatement (Yes/ No): No
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>
<ul>
<li>RAW_VIVITROL_HOSPITAL_SHIPMENT, RAW_ARISTADA_HOSPITAL_SHIPMENT, RAW_VIVITROL_HOSPITAL_SHIPMENT_YEARLY, RAW_ARISTADA_HOSPITAL_SHIPMENT_YEARLY</li>
<li>CLNS_VIVITROL_HOSPITAL_SHIPMENT, CLNS_ARISTADA_HOSPITAL_SHIPMENT, CLNS_VIVITROL_HOSPITAL_SHIPMENT_YEARLY, CLNS_ARISTADA_HOSPITAL_SHIPMENT_YEARLY</li>
<li>FCT_HOSPITAL_SHIP</li>
<li>SEM_HOSPITAL_SHIPMENT</li>
</ul>
</td></tr>
<tr><td>BRD-REQ-DWH-3</td><td>
<ul>
<li>Order shipment details for Vivitrol and Aristada will be loaded in the warehouse where history will also be maintained.
<ul>
<li>The history is maintained from Jan 2021 – Jan 2022 for both Vivitrol and Aristada.</li>
<li>Data for year 2021 is populated from the yearly feed.</li>
<li>Post Jan 2022, data will be populated from the weekly feed.</li>
</ul></li>
<li>CUST_DIM_ID and HOSPITAL_NAME will be populated from DIM_CUSTOMER based on ALK_ID for active customers.</li>
<li>PROD_DIM_ID will be populated from MAP_PROD_EXT_ID based on SRC_PROD_ID for HIFT.</li>
<li>SHIP_DT_DIM_ID will be populated from DIM_CALENDAR based on SHIP_DT.</li>
<li>SHIP_DT_SPLIT_WEEK_ID will be populated from DIM_SPLIT_WEEK_CALENDAR based on SHIP_DT.</li>
<li>EXTRACT_DT_DIM_ID will be populated from DIM_CALENDAR based on COMPLETE_DT and EXTRACT_DT</li>
<li>ORDER_DT_DIM_ID will be populated from DIM_CALENDAR based on COMPLETE_DT and ORDER_DT</li>
<li>PROD_LOT_EXPIRATION_DT_DIM_ID will be populated from DIM_CALENDAR based on COMPLETE_DT and PRODUCT_LOT_EXPIRATION_DT</li>
<li>PRODUCT_EXPIRATION_DT_DIM_ID will be populated from DIM_CALENDAR based on COMPLETE_DT and PRODUCT_EXPIRATION_DT</li>
<li>DISPENSE_DT_DIM_ID will be populated from DIM_CALENDAR based on COMPLETE_DT and DISPENSE_DT</li>
<li>If Description from source is 'VIVITROL 380MG/VIAL CARTON','VIVITROL (NALTREXONE FOR EXTENDED-RELEASE INJECTABLE SUSPENSION)' then populate 'VIVITROL', else populate Description as is from source.</li>
<li>ORDER_TYPE will be populated according to the following logic –
<ul>
<li>For records with minimum ship date ORDER_TYPE will be ‘INITIAL’</li>
<li>If the difference between minimum ship date and ship date <7 then ‘INITIAL’ else ‘REPLACEMENT’</li>
</ul></li>
</ul>
</td></tr>
<tr><td>BRD-REQ-</td><td>
<ul>
<li>Order shipment details for Vivitrol and Aristada will be loaded in semantic where history will also be maintained.</li>
</ul>
</td></tr>
</table>

<table>
<tr>
<td>SEM-4</td>
<td>
<ul>
<li>The history is maintained from Jan 2021-Jan 2022 for both Vivitrol and Aristada.</li>
<li>Data for year 2021 is populated from the yearly feed.</li>
<li>Post Jan 2022, data will be populated from the weekly feed.</li>
</ul>
• Customer Details (ALK_ID, NAME) will be populated from Customer Master based on ALK_ID for active customers.
• Product details (PRODUCT_NAME, BRAND) will be populated from Product Master based on SRC_PROD_ID for HIFT.
• SHIP_WEEK, SHIP_SPLIT_WEEK_DATE, SHIP_MONTH, PRODUCT_LOT_EXPIRATION_DATE, PRODUCT_EXPIRATION_DATE, DISPENSE_DATE will be populated from SEM_SPLIT_WEEK_CALENDAR based on Calendar ID.
• Below columns will be directly populated from source:
<table>
<tr><th>Semantic table field</th><th>Source field</th></tr>
<tr><td>CUST_DIM_ID</td><td>CUST_DIM_ID</td></tr>
<tr><td>SOURCE_ID</td><td>NPI_NUM</td></tr>
<tr><td>PROD_DIM_ID</td><td>PROD_DIM_ID</td></tr>
<tr><td>ORDER_TYPE</td><td>ORDER_TYPE</td></tr>
<tr><td>ORDER_NUMBER</td><td>ORDER_NUM</td></tr>
<tr><td>TRACKING_NUMBER</td><td>TRACKING_NUM</td></tr>
<tr><td>LOT_NUMBER</td><td>LOT_NUM</td></tr>
<tr><td>DISPENSE_DATE_DIM_ID</td><td>DISPENSE_DT_DIM_ID</td></tr>
<tr><td>QUANTITY</td><td>ORDERED_QTY</td></tr>
<tr><td>ORDERED_BY</td><td>ORDERED_BY_FIRST_NAME || ORDERED_BY_LAST_NAME</td></tr>
<tr><td>PRESCRIPTION_PHYSICIAN</td><td>PRESCRIBED_BY_FIRST_NAME || PRESCRIBED_BY_LAST_NAME</td></tr>
</table>
</td>
</tr>
</table>

4.18 DECISION AND ORCHESTRATION ENGINE

Following feeds will be available from DOE data from ZS Associates (ZAIDYN):

1. VEEVA ALL SUGGESTIONS
2. VEEVA PUSHED SUGGESTIONS
3. VEEVA SUGGESTIONS FEEDBACK
4. VEEVA ACTION TAKEN
5. VEEVA LIKE DISLIKE
6. VEEVA DOE COMBINED SUGGESTIONS FEEDBACK
7. SEM_DOE_INBOUND_AUDIT

4.18.1 VEEVA ALL SUGGESTIONS

BRD-REQ-EXN-1	**Source Name:** VW_DOE_ALL_SUGGESTIONS

<table>
<tr><td></td><td>Source Description: This data set contains detailed information of suggestions pushed to Veeva, information that could be used to map between an insight and the customer- rep for which it was generated. This will help in identifying for a rep what suggestions were generated and for which HCP, when will the suggestions expire, their priority score, if they got suppressed.
Source: ZS Associates Inbound Share (ZAIDYN)
Subject Area: Veeva Suggestions and Actions
Load strategy (Incremental/ Full) – Full
Control File (Yes/No): No
Restatement (Yes/ No): No
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Ad-hoc) – Weekly
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- Wednesday
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td><ul><li>VW_DOE_ALL_SUGGESTIONS</li><li>SEM_DOE_ALL_SUGGESTIONS</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-3</td><td>SEM_DOE_ALL_SUGGESTIONS contains detailed information of suggestions pushed to Veeva, information that could be used to map between an insight and the customer- rep for which it was generated. This will help in identifying for a rep what suggestions were generated and for which HCP, when will the suggestions expire, their priority score, if they got suppressed. At any point, 54 weeks of Suggestions data will be available in semantic.

<ul>
<li>ALK_ID will be populated as FINAL_ALK_ID from ALKID Master based on ENTITY_ID.</li>
<li>GENERATION_WEEK and FEEDBACK_WEEK will be populated as weekending Friday form Split week Calendar based on GENERATION_DATE/FEEDBACK_DATE between SW_START_DATE and SW_END_DATE</li>
<li>TEAM_NAME will be populated from Semantic Customer Position Geography based on Team Dimension Id from view DOE ALL Suggestions.</li>
<li>Below fields are directly populated from source:</li>
</ul>
<table>
<tr><th>Target Fields (Semantic)</th><th>View DOE ALL SUGGESTIONS Fields (Source)</th></tr>
<tr><td>INSIGHT_ID</td><td>INSIGHT_ID</td></tr>
<tr><td>INSIGHT_TEXT</td><td>INSIGHT</td></tr>
<tr><td>GENERATION_DATE</td><td>GENERATION_DATE</td></tr>
<tr><td>REP_ID</td><td>REP_ID</td></tr>
<tr><td>EXPIRY_DATE</td><td>EXPIRY_DATE</td></tr>
<tr><td>REP_ID</td><td>REP_ID</td></tr>
<tr><td>PRIORITISED_SCORE</td><td>PRIORITISED_SCORE</td></tr>
<tr><td>SUGG_KEY</td><td>SUGG_KEY</td></tr>
<tr><td>ACTION_TYPE</td><td>ACTION_TYPE</td></tr>
<tr><td>ACTION_TEXT</td><td>ACTION_TEXT</td></tr>
<tr><td>TEAM_DIM_ID</td><td>TEAM_DIM_ID</td></tr>
<tr><td>BRAND_ID</td><td>BRAND_ID</td></tr>
<tr><td>BRAND_NAME</td><td>BRAND_NAME</td></tr>
<tr><td>RATIONALE</td><td>RATIONALE</td></tr>
<tr><td>GENERATION_MONTH (MMYY)</td><td>GENERATION_DATE</td></tr>
<tr><td>EXPIRY_MONTH(MMYY)</td><td>EXPIRY_DATE</td></tr>
</table>
</td></tr>
</table>

4.18.2 VEEVA PUSHED SUGGESTIONS

BRD-REQ-EXN-1	**Source Name:** VW_DOE_PUSHED_SUGGESTIONS **Source Description:** This dataset will contain only the Suggestions that will be pushed on Veeva UI by reps. **Source:** ZS Associates Inbound Share (ZAIDYN) **Subject Area:** Veeva Suggestions and Actions **Load strategy (Incremental/ Full) –** Full **Control File (Yes/No): No** **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Ad-hoc) –** Weekly (Wed) **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** Wednesday **MDM Mastering (Yes/No) – No**
BRD-REQ-OBJ-2	• VW_DOE_PUSHED_SUGGESTIONS • SEM_DOE_PUSHED_SUGGESTIONS
BRD-REQ-SEM-3	SEM_DOE_PUSHED_SUGGESTIONS contains only the records that will be pushed on Veeva UI by reps. At any point, 54 weeks of data will be available in semantic. • **ALK_ID** will be populated as FINAL_ALK_ID from ALKID Master based on ENTITY_ID. • **GENERATION_WEEK** and **FEEDBACK_WEEK** will be populated as **weekending Friday** form Split week Calendar based on GENERATION_DATE/FEEDBACK_DATE between SW_START_DATE and SW_END_DATE • **TEAM_NAME** will be populated from Customer Position Geography based on Team Dimension Id from DOE Pushed Suggestions. • Below fields are directly populated from source:

Target Fields (Semantic)	View DOE PSUEHD SUGGESTION Fields (Source)
FILE_ID	FILE_ID
INSIGHT_ID	INSIGHT_ID
INSIGHT_TEXT	INSIGHT
GENERATION_DATE	GENERATION_DATE
REP_ID	REP_ID
EXPIRY_DATE	EXPIRY_DATE
REP_ID	REP_ID
PRIORITISED_SCORE	PRIORITISED_SCORE
SUGG_KEY	SUGG_KEY
ACTION_TYPE	ACTION_TYPE
ACTION_TEXT	ACTION_TEXT
TEAM_DIM_ID	TEAM_DIM_ID
BRAND_ID	BRAND_ID
BRAND_NAME	BRAND_NAME

GENERATION_MONTH (MMYY)	GENERATION_DATE
EXPIRY_MONTH(MMYY)	EXPIRY_DATE

4.18.3 VEEVA SUGGESTIONS FEEDBACK

BRD-REQ-EXN-1	**Source Name:** VW_DOE_SUGGESTION_FEEDBACK **Source Description:** This dataset will contain the reasons the rep selected while dismissing a suggestion. **Source:** ZS Associates Inbound Share (ZAIDYN) **Subject Area:** Veeva Suggestions and Actions **Load strategy (Incremental/ Full) –** Full **Control File (Yes/No): No** **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Ad-hoc) –** Weekly (Wed) **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- TBD** **MDM Mastering (Yes/No) – No**
BRD-REQ-OBJ-2	• VW_DOE_SUGGESTION_FEEDBACK • SEM_DOE_SUGGESTION_FEEDBACK
BRD-REQ-SEM-3	SEM_DOE_SUGGESTION_FEEDBACK contains the reasons the rep selected while dismissing a suggestion. At any point, 54 weeks of data will be available in semantic. • **GENERATION_WEEK** and **FEEDBACK_WEEK** will be populated as **weekending Friday** form Split week Calendar based on GENERATION_DATE/FEEDBACK_DATE between SW_START_DATE and SW_END_DATE • Below fields are directly populated from source:

Target Fields (Semantic)	View DOE SUGGESTION FEEDBACK Fields (Source)
FILE_ID	FILE_ID
INSIGHT_ID	INSIGHT_ID
REASON_ID	REASON_ID
REASON_TEXT	REASON_TEXT
ORIGIN	ORIGIN
GENERATION_DATE	GENERATION_DATE
FEEDBACK_DATE	FEEDBACK_DATE
GENRATION_MONTH (MMYY)	GENERATION_DATE
FEEDBACK_MONTH(MMYY)	FEEDBACK_DATE

4.18.4 VEEVA ACTION TAKEN

BRD-REQ-EXN-1	**Source Name:** VW_DOE_ACTION_TAKEN **Source Description:** This feed Contains information on the action that the rep took after seeing the suggestion.

<table>
<tr><td></td><td>Source: ZS Associates (ZAIDYN)
Subject Area: Veeva Suggestions and Actions
Load strategy (Incremental/ Full) – Full
Control File (Yes/No): No
Restatement (Yes/ No): No
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Ad-hoc) – Weekly (Wed)
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- TBD
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td><ul><li>VW_DOE_ACTION_TAKEN</li><li>SEM_DOE_ACTION_TAKEN</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-3</td><td>SEM_DOE_ACTION_TAKEN contains information about the action that the Rep took after seeing the suggestions. At any point, 54 weeks of data will be available in semantic.<ul><li>ALK_ID will be populated as FINAL_ALK_ID from ALKID Master based on ENTITY_ID.</li><li>GENERATION_WEEK and FEEDBACK_WEEK will be populated as weekending Friday form Split week Calendar based on GENERATION_DATE/FEEDBACK_DATE between SW_START_DATE and SW_END_DATE</li><li>ACTION_TAKEN_NAME will be populated based on ACTION_TAKEN from as per below Mapping:</li></ul>
<table>
<tr><th>Action Taken</th><th>Value</th></tr>
<tr><td>0</td><td>No Action</td></tr>
<tr><td>1</td><td>Engaged</td></tr>
<tr><td>2</td><td>Call Planned</td></tr>
</table>
<ul><li>Below fields will be directly populated from source:</li></ul>
<table>
<tr><th>Target Fields (Semantic)</th><th>View DOE ACTION TAKEN Fields (Source)</th></tr>
<tr><td>REP_ID</td><td>REP_ID</td></tr>
<tr><td>INSIGHT_ID</td><td>INSIGHT_ID</td></tr>
<tr><td>ACTION_TAKEN</td><td>ACTION_TAKEN</td></tr>
<tr><td>GENERATION_DATE</td><td>GENERATION_DATE</td></tr>
<tr><td>FEEDBACK_DATE</td><td>FEEDBACK_DATE</td></tr>
<tr><td>GENERATION_MONTH(MMYY)</td><td>GENERATION_DATE</td></tr>
<tr><td>FEEDBACK_MONTH (MMYY)</td><td>FEEDBACK_DATE</td></tr>
</table></td></tr>
</table>

4.18.5 VEEVA LIKE DISLIKE

BRD-REQ-EXN-1	**Source Name:** VW_DOE_LIKE_DISLIKE **Source Description:** This dataset contains information about a suggestion was liked or disliked by the rep. **Source:** ZS Associates Inbound Share (ZAIDYN) **Subject Area:** Veeva Suggestions and Actions **Load strategy (Incremental/ Full) –** Full **Control File (Yes/No): No** **Restatement (Yes/ No):** No **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Ad-hoc) –** Weekly (Wed) **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- Wednesday** **MDM Mastering (Yes/No) – No**

<table>
<tr><td>BRD-REQ-OBJ-2</td><td>• VW_DOE_LIKE_DISLIKE
• SEM_DOE_LIKE_DISLIKE</td></tr>
<tr><td>BRD-REQ-SEM-3</td><td>SEM_DOE_LIKE_DISLIKE contains information if a suggestion was liked or disliked by the rep. At any point, 54 weeks of data will be available in semantic.
• GENERATION_MONTH (MMYY)– Extract Month & year from generation Date. In case generation Date is '9999-12-12', then NULL will be populated.
• FEEDBACK_MONTH (MMYY)- Extract Month & year from Feedback Date. In case generation Date is '9999-12-12', then NULL will be populated.
• GENERATION_WEEK and FEEDBACK_WEEK will be populated as weekending Friday form Split week Calendar based on GENERATION_DATE/FEEDBACK_DATE between SW_START_DATE and SW_END_DATE
• LIKE_VALUE, DISLIKE_VALUE, NO_VALUE will be populated as Value as per below mapping based on LIKE_INPUT, DISLIKE_INPUT, NO_INPUT which is either 0 or 1.

<table>
<tr><th>Input Field</th><th>ID</th><th>Value</th></tr>
<tr><td>LIKE_INPUT</td><td>0</td><td>NA</td></tr>
<tr><td>LIKE_INPUT</td><td>1</td><td>LIKE</td></tr>
<tr><td>DISLIKE_INPUT</td><td>0</td><td>NA</td></tr>
<tr><td>DISLIKE_INPUT</td><td>1</td><td>DISLIKE</td></tr>
<tr><td>NO_INPUT</td><td>0</td><td>FALSE</td></tr>
<tr><td>NO_INPUT</td><td>1</td><td>TRUE</td></tr>
</table>
• Below fields are directly populated from source:
<table>
<tr><th>Target Fields (Semantic)</th><th>View DOE LIKE DISLIKE Fields (Source)</th></tr>
<tr><td>FILE_ID</td><td>FILE_ID</td></tr>
<tr><td>INSIGHT_ID</td><td>INSIGHT_ID</td></tr>
<tr><td>DISLIKE_INPUT</td><td>DISLIKE_INPUT</td></tr>
<tr><td>NO_INPUT</td><td>NO_INPUT</td></tr>
<tr><td>LIKE_INPUT</td><td>LIKE_INPUT</td></tr>
<tr><td>GENERATION_DATE</td><td>GENERATION_DATE</td></tr>
<tr><td>REP_ID</td><td>REP_ID</td></tr>
</table>
</td></tr>
</table>

4.18.6 VEEVA DOE COMBINED SUGGESTIONS FEEDBACK

BRD-REQ-SEM-3	SEM_DOE_COMBINED_SUGGESTION_FEEDBACK contains data from all master dataset aggregated from below suggestion table. At any point, 54 weeks of data will be available in semantic. • Pushed Suggestions (SEM_DOE_PUSHED_SUGGESTIONS) • Suggestions Feedback (SEM_DOE_SUGGESTION_FEEDBACK) • Likes/Dislike (SEM_DOE_LIKE_DISLIKE) • Action Taken (SEM_DOE_ACTION_TAKEN)

- **DISMISSED_INPUT** will be populated as '1' on successful of 'Suggestion Feedback' join with 'Pushed Suggestions' based on field INSGHT_ID else '0' will be populated.
- **DISMISSED_VALUE** will be populated as Value from below Look up table SEM_DOE_ACTION_MAPPING based on **Dismissed Input** column on ID in mapping table.
- **ADD_TO_PLAN_INPUT** will be populated as '1' if record is available in 'Action Taken' joined with 'Veeva Pushed Suggestions' based on INSIGHT_ID else '0' will be populated.
- **ADD_TO_PLAN_VALUE** will be populated as 'Value' from below Look up table SEM_DOE_ACTION_MAPPING based on **Dismissed Input** column on ID in mapping table mentioned below.
- **LIKE_INPUT** will be populated as '1' based on successful join from 'Pushed Suggestions' over 'Veeva Like Dislike' on INSIGHT_ID else '0' will be populated.
- **LIKE_VALUE** will be populated as Value from below Look up table SEM_DOE_ACTION_MAPPING based on Like Input column on ID in mapping table.
- **DISLIKE_VALUE** will be populated as Value from below Look up table SEM_DOE_ACTION_MAPPING based on Dislike Input column on ID in mapping table.

SEM_DOE_ACTION_MAPPING

TABLE	COLUMN	ID	VALUE
SEM_DOE_LIKE_DISLIKE	LIKE_INPUT	1	LIKE
SEM_DOE_LIKE_DISLIKE	LIKE_INPUT	0	NA
SEM_DOE_LIKE_DISLIKE	DISLIKE_INPUT	1	DISLIKE
SEM_DOE_LIKE_DISLIKE	DISLIKE_INPUT	0	NA
SEM_DOE_LIKE_DISLIKE	NO_INPUT	1	TRUE
SEM_DOE_LIKE_DISLIKE	NO_INPUT	0	FALSE
SEM_DOE_ACTION_TAKEN	ACTION_TAKEN	0	NO ACTION
SEM_DOE_ACTION_TAKEN	ACTION_TAKEN	1	ENGAGED
SEM_DOE_ACTION_TAKEN	ACTION_TAKEN	2	CALL PLANNED
SEM_DOE_COMBINED_FEEDBACK	DISMISSED_INPUT	1	DISMISSED
SEM_DOE_COMBINED_FEEDBACK	DISMISSED_INPUT	0	NO ACTION
SEM_DOE_COMBINED_FEEDBACK	ADD_TO_PLAN_INPUT	1	CALL PLANNED
SEM_DOE_COMBINED_FEEDBACK	ADD_TO_PLAN_INPUT	0	NO ACTION

- All the below mentioned fields are directly populated from SEM_DOE_PUSHED_SUGGESTIONS.

Target Fields (Semantic)	SEM DOE PUSHED SUGGESTION Fields (Source)
FILE_ID	FILE_ID
INSIGHT_ID	INSIGHT_ID
INSIGHT_TEXT	INSIGHT_TEXT

GENERATION_DATE	GENERATION_DATE
REP_ID	REP_ID
EXPIRY_DATE	EXPIRY_DATE
REP_ID	REP_ID
PRIORITISED_SCORE	PRIORITISED_SCORE
SUGG_KEY	SUGG_KEY
ACTION_TYPE	ACTION_TYPE
ACTION_TEXT	ACTION_TEXT
TEAM_DIM_ID	TEAM_DIM_ID
BRAND_ID	BRAND_ID
BRAND_NAME	BRAND_NAME
TEAM_NAME	TEAM_NAME
GENERATION_WEEK	GENERATION_WEEK
GENERATION_MONTH	GENERATION_MONTH
FEEDBACK_WEEK	FEEDBACK_WEEK
FEEDBACK_MONTH	FEEDBACK_MONTH

4.18.7 INBOUND AUDIT

BRD-REQ-SEM-3

This is an audit table to track when data in the Semantic Schema is refreshed for Pushed Suggestion, Suggestion Feedback, Action, and Like/Dislikes.

- **FILE_ID** will be used to trace records in the Semantic tables week over week.
- **REFRESH_DATE** will be updated with the date when data is refreshed. The system will check if the refresh is greater than or equal to the current date and then it will be processed.
- **SOURCE_NAME** will contain view name for which audit entry will be recorded.

Sample Data for reference:

File_ID	SOURCE_NAME	VENDOR_ACCOUNT_NAME	DATABASE_SCHEMA_NAME	RECORD_COUNT	REFRESH_DATE
2023022201	VW_DOE_ALL_SUGGESTIONS	RWB60621	CDE_EXN	1000	2/22/2023
2023022202	VW_DOE_PUSHED_SUGGESTIONS	RWB60621	CDE_EXN	500	2/22/2023
2023022203	VW_DOE_SUGGESTION_FEEDBACK	RWB60621	CDE_EXN	100	2/22/2023

2023022204	VW_DOE_ACTION_TAKEN	RWB60621	CDE_EXN	200	2/22/2023
2023022205	VW_DOE_LIKE_DISLIKE	RWB60621	CDE_EXN	200	2/22/2023

- Below fields are directly populated from source:

Target Fields (Audit Table)	View DOE ACTION TAKEN Fields (Source View Inbound)
RECORD_COUNT	RECORD_COUNT
DATABASE_SCHEMA_NAME	DATABASE_SCHEMA_NAME
VENDOR_ACCOUNT_NAME	VENDOR_ACCOUNT_NAME

4.19 PRODUCT MONTHLY TRANSACTIONAL DATA

Product Monthly Transactional data will be available from following sources:

1. Mckesson – CoverMyMeds (CMM)
2. Veteran Affairs
3. Prime Vendor

4.19.1 MCKESSON - COVERMYMEDS

BRD-REQ-RAW-1

Feed details:

Feed ID	Feed Name	Description
562	Aristada_Monthly_Report	This feed contains Aristada product transactional data from CoverMyMeds
563	Lybalvi_Monthly_Report	This feed contains Lyblavi product transactional data from CoverMyMeds

Source: Mckesson
Subject Area: Monthly Utilization Report
Markets: Psychiatry
Products: Aristada, Lybalvi
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): Yes
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Monthly
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- 23rd
MDM Mastering (Yes/No) – No

BRD-REQ-OBJ-2

- RAW_CMM_LYBALVI_MONTHLY_REPORT
- RAW_CMM_ARISTADA_MONTHLY_REPORT
- CLNS_CMM_LYBALVI_MONTHLY_REPORT
- CLNS_CMM_ARISTADA_MONTHLY_REPORT
- SEM_CMM_MONTHLY_REPORT

BRD-REQ-SEM-3

- Incremental data will be loaded in the Semantic for Aristada and Lybalvi where history will also be maintained.
- **Product_Name** will be defaulted as **Aristada** or **Lybalvi**.
- Below is the direct source to target mapping -

Source Column	Target Column
Request_Month	Request_Month
Drug_Nm	Drug_NAME
User_Type	User_Type
PA_Type	PA_Type
Line_of_BIZ/lob	Line_of_BUSINESS
Rejection_Cd	Rejection_CODE
State	State
Zip3	Zip3
Terr	Territory
District	District
Region	Region
Form_Nm	Form_Name
ICD	ICD
PA_Vol	PA_Volume
Approved_Vol	Approved_Volume
Known_Outcome_Vol	Known_Outcome_Volume
Pa_initiation_src	Pa_initiation_source
Hub_shared	Hub_shared
Total_pa_vol	Total_pa_volume
Total_submitted_vol	Total_submitted_volume
Total_known_vol	Total_known_volume
Total_approved	Total_approved
appeal_total_vol	appeal_total_volume
appeal_known_vol	appeal_known_volume
appeal_approved_vol	appeal_approved_volume
pa_monitoring_vol	pa_monitoring_volume
pa_service_vol	pa_service_volume

4.19.2 VETERAN AFFAIRS

<table>
<tr><td>BRD-REQ-RAW-1</td><td>Feed Ids: 344
Feed Name: MONTHLY_UTILIZATION_REPORT
Feed Description: This feed contains Monthly Utilization customer and transactional data for Aristada, Vivitrol, Lybalvi and Competitors
Subject Area: Monthly Utilization Report
Source: Veteran Affairs
Markets: Psychiatry, Addiction
Products: Aristada, Lybalvi, Vivitrol and competitors
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): Yes
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Monthly
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- 27th
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>• RAW_MONTHLY_UTILIZATION_REPORT
• CLNS_MONTHLY_UTILIZATION_REPORT
• FCT_MONTHLY_UTILIZATION_REPORT
• SEM_MONTHLY_UTILIZATION_REPORT</td></tr>
<tr><td>BRD-REQ-DW-2</td><td>• The Monthly Utilization (customer and transactional data) for all products will be received for Customer VA Station, VISN and Products reports.
• Restatements will be applied based on DATA_DT, VISN, STATION_NUM, VA_PROD. The data for a new combination of CMOP, VISN, STATION, SRC_STATE, SRC_CITY, SRC_ZIP, TOTAL_RXS, CMOP_RXS, TOTAL_QTY, CMOP_QTY and 30_DAY_RXS will be populated from the latest file.
• TOTAL_RXS, CMOP_RXS, TOTAL_QTY, CMOP_QTY and 30_DAY_RXS will be populated by calculating their sum and grouping on STATION, VISN, NDC, DATA_DT.
• Cust_Dim_Id will be populated from Dim_Customer based on ALK_ID which will be derived from Map_Customer_Identifier based on STATION_NUM and Source as ‘VA’.
• PROD_DIM_ID will be populated from DIM_PROD_MSTR based on NDC.</td></tr>
<tr><td>BRD-REQ-SEM-3</td><td>• The Monthly Utilization (customer and transactional data) for all products will be received monthly for Customer VA Station, VISN and Products reports.
• Restatements will be applied based on DATA_DT, VISN, STATION_NUM, VA_PROD. The data for a new combination of CMOP, VISN, STATION, SRC_STATE, SRC_CITY, SRC_ZIP, TOTAL_RXS, CMOP_RXS, TOTAL_QTY, CMOP_QTY and 30_DAY_RXS will be populated from the latest file.
• ALK_ID will be populated from Customer Master based on STATION_NUM.
• BRAND & PRODUCT_NAME will be populated from PRODUCT MASTER based on NDC.
• Below fields will be directly populated from Source -
<table>
<tr><th>Source Column</th><th>Target Column</th></tr>
<tr><td>DATA_DT</td><td>DATA_DATE</td></tr>
<tr><td>CMOP</td><td>CMOP</td></tr>
<tr><td>VISN</td><td>VISN</td></tr>
</table>
</td></tr>
</table>

	STATION_NUM	STATION_NUMBER
	STATION	STATION
	SRC_STATE	SRC_STATE
	SRC_CITY	SRC_CITY
	SRC_ZIP	SRC_ZIP
	VA_PROD	VA_PRODUCT
	NDC	NDC
	TOTAL_RXS	TOTAL_RXS
	CMOP_RXS	CMOP_RXS
	TOTAL_QTY	TOTAL_QUANTITY
	CMOP_QTY	CMOP_QUANTITY
	30_DAY_RXS	30_DAY_RXS

4.19.3 PRIME VENDOR

BRD-REQ-RAW-1	**Feed Ids:** 345 **Feed Name:** Alkermes PV monthly data report **Feed Description:** This feed contains details for Prime Vendor monthly data reports. **Source:** Prime Vendor **Subject Area:** Monthly Utilization Report **Markets:** Psychiatry, Addiction **Products:** Aristada, Lybalvi, Vivitrol and Competitors products **Load strategy (Incremental/ Full) -** Incremental **Restatement (Yes/ No):** Yes **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Monthly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** 27th **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	• RAW_PV_MONTHLY_DATA_REPORT • CLNS_PV_MONTHLY_DATA_REPORT • FCT_PV_MONTHLY_DATA_REPORT • SEM_PV_MONTHLY_DATA_REPORT
BRD-REQ-DWH-3	• The Prime Vendor monthly reports for all products will be loaded in the warehouse where history will also be maintained. The restatements will be applied such that the latest version of data will be given priority. Restatement logic will be based on MONTH_YR, STATION and NDC. • **Product details** (PROD_DIM_ID) will be populated from MAP_PROD_EXT_ID based on NDC with source as NPA or VA-PRIME VENDOR. • **CUST_DIM_ID** will be populated from DIM_CUSTOMER based on ALK_ID, which will be derived from MAP_CUSTOMER_IDENTIFIER based on STATION with Source as 'VA'.

<table>
<tr><td></td><td>

- **DATA_DT_DIM_ID** will be populated from DIM_CALENDAR based on DATA_DT.

</td></tr>
<tr><td>BRD-REQ-SEM-4</td><td>

- The Prime Vendor monthly reports for all products will be loaded in the semantic where history will also be maintained. The restatements will be applied such that the latest version of data will be given priority. Restatement logic will be based on MONTH_YR, STATION and NDC.
- **Product** details (PROD_DIM_ID, BRAND_NAME) will be fetched from Product Master based on NDC.
- **Customer detail (**CUST_DIM_ID and ALK_ID**)** will be fetched from Customer Master based on STATION.
- **Week** will be fetched from Calendar table based on DATA_DT.
- Below fields will be directly populated from source:

<table>
<tr><th>Source Fields</th><th>Target Fields</th></tr>
<tr><td>VISN</td><td>VISN</td></tr>
<tr><td>STATION</td><td>STATION</td></tr>
<tr><td>CITY</td><td>SRC_CITY</td></tr>
<tr><td>STATE</td><td>SRC_STATE</td></tr>
<tr><td>NDC</td><td>NDC</td></tr>
<tr><td>VA_GENRIC</td><td>VA_GENRIC</td></tr>
<tr><td>SRC_VA_PROD</td><td>SRC_VA_PROD</td></tr>
<tr><td>SRC_MCK_STRENGTH</td><td>SRC_MCK_STRENGTH</td></tr>
<tr><td>PACKAGE_SIZE_1</td><td>PACKAGE_SIZE_1</td></tr>
<tr><td>PACKAGE_SIZE_2</td><td>PACKAGE_SIZE_2</td></tr>
<tr><td>UNITS_OF_MEASURE</td><td>UNITS_OF_MEASURE</td></tr>
<tr><td>VENDOR</td><td>VENDOR</td></tr>
<tr><td>VA_CLASS</td><td>VA_CLASS</td></tr>
<tr><td>TYPE_OF_VA</td><td>TYPE_OF_VA</td></tr>
<tr><td>TOTAL_DOLLARS</td><td>TOTAL_DOLLARS</td></tr>
<tr><td>NDC_UNITS</td><td>NDC_UNITS</td></tr>
</table>

</td></tr>
</table>

4.20 INQUIRY DATA

S NO	**Requirement**
BRD-REQ-1 EXN-1	**Data Description:** This feed contains patient level Medical Inquiry Data **Subject Area:** Inquiry Data **Source:** MIQ **Source Table:** UDV_ALK_TAB_SUPERQUERY_03Aug2023

<table>
<tr><td></td><td>Markets: Psychiatry, Addiction
Products: Lybalvi, Vivitrol, Aristada, Initio
Load strategy (Incremental/ Full) – Full
Restatement (Yes/ No): No
Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – Daily
File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- N/A
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>Tables Covered –<ul><li>CDE_EXN.MIQ_UDV_ALK_TAB</li><li>CDE_SEM.SEM_MIQ_UDV_ALK_TAB</li></ul></td></tr>
<tr><td>BRD-REQ-SEM-3</td><td><ul><li>Full data (from April ‘20) will be fetched (replicated) directly from MIQ system generated table (UDV_ALK_TAB_SUPERQUERY_03Aug2023).</li><li>Below fields will be directly populated from source:</li></ul>
<table>
<tr><th>Semantic Table field</th><th>Source Field</th></tr>
<tr><td>CASEID</td><td>CASEID</td></tr>
<tr><td>CASECLASS</td><td>CASECLASS</td></tr>
<tr><td>COMPONENTCLASS</td><td>COMPONENTCLASS</td></tr>
<tr><td>SEQNUMBER</td><td>SEQNUMBER</td></tr>
<tr><td>SOURCE</td><td>SOURCE</td></tr>
<tr><td>SOURCEEVENT</td><td>SOURCEEVENT</td></tr>
<tr><td>CASEWORKFLOWSTATE</td><td>CASEWORKFLOWSTATE</td></tr>
<tr><td>ARCHIVEDDATE</td><td>ARCHIVEDDATE</td></tr>
<tr><td>ISPRIMARYREPORTER</td><td>ISPRIMARYREPORTER</td></tr>
<tr><td>REPORTERPOSTALCODE</td><td>REPORTERPOSTALCODE</td></tr>
<tr><td>REPORTERCOUNTRY</td><td>REPORTERCOUNTRY</td></tr>
<tr><td>PROVINCE_STATE</td><td>PROVINCE_STATE</td></tr>
<tr><td>PRIMARYDEGREE</td><td>PRIMARYDEGREE</td></tr>
<tr><td>REPORTERTYPE</td><td>REPORTERTYPE</td></tr>
<tr><td>PRODUCT</td><td>PRODUCT</td></tr>
<tr><td>TRADENAME</td><td>TRADENAME</td></tr>
<tr><td>MICATEGORY</td><td>MICATEGORY</td></tr>
<tr><td>MISUBCATEGORY</td><td>MISUBCATEGORY</td></tr>
<tr><td>OTHERCATEGORY</td><td>OTHERCATEGORY</td></tr>
<tr><td>OTHERSUBCAT</td><td>OTHERSUBCAT</td></tr>
<tr><td>DESCRIPTION</td><td>DESCRIPTION</td></tr>
<tr><td>RESOLUTIONTYPE</td><td>RESOLUTIONTYPE</td></tr>
<tr><td>RESOLUTION</td><td>RESOLUTION</td></tr>
</table></td></tr>
</table>

	CUSTOMRESPONSE	CUSTOMRESPONSE	
	RESPONDVIA	RESPONDVIA	
	SRID	SRID	
	SRFIRSTNAME	SRFIRSTNAME	
	SRMIDDLENAME	SRMIDDLENAME	
	SRLASTNAME	SRLASTNAME	
	SRPHONENUMBER	SRPHONENUMBER	
	SRISMSL	SRISMSL	
	SRTEAM	SRTEAM	
	SRREGIONNAME	SRREGIONNAME	
	ENTRYPERIOD	ENTRYPERIOD	
	CASECREATEDON	CASECREATEDON	
	VAULTDOCUMENTID	VAULTDOCUMENTID	
	DOCUMENTNAME	DOCUMENTNAME	
	VAULTDOCTYPE	VAULTDOCTYPE	
	VAULTDOCSUBTYPE	VAULTDOCSUBTYPE	
	VAULTDOCCLASS	VAULTDOCCLASS	
	ESCALATED	ESCALATED	
	ESCALATEDDATE	ESCALATEDDATE	
	DEESCALATED	DEESCALATED	
	DEESCALATEDDATE	DEESCALATEDDATE	
	NONESCALATEDCASE	NONESCALATEDCASE	
	CASEREOPENED	CASEREOPENED	
	CASEREOPENEDDATE	CASEREOPENEDDATE	
	TRREPNOTFROMLIST	TRREPNOTFROMLIST	
	TRFIRSTNAME	TRFIRSTNAME	
	TRMIDDLENAME	TRMIDDLENAME	
	TRLASTNAME	TRLASTNAME	
	TRPHONENUMBER	TRPHONENUMBER	
	TRISMSL	TRISMSL	
	TRTEAM	TRTEAM	
	TRREGIONNAME	TRREGIONNAME	
	RESPONSESTATUS	RESPONSESTATUS	
	RESPONSEDATE	RESPONSEDATE	

RESPONSESEQNO	RESPONSESEQNO
CASEDELETESTATUS	CASEDELETESTATUS
SRREGIONCODE	SRREGIONCODE
SRDISTRICTNAME	SRDISTRICTNAME
SRDISTRICTCODE	SRDISTRICTCODE
SRTERITORYNAME	SRTERITORYNAME
SRTERITORYCODE	SRTERITORYCODE
TRREGIONCODE	TRREGIONCODE
TRDISTRICTNAME	TRDISTRICTNAME
TRDISTRICTCODE	TRDISTRICTCODE
TRTERITORYNAME	TRTERITORYNAME
TRTERITORYCODE	TRTERITORYCODE
SRREPNOTFROMLIST	SRREPNOTFROMLIST
OCCUPATION	OCCUPATION
CASEOTHERCATEGORY	CASEOTHERCATEGORY
SRSUBMITTEDBY	SRSUBMITTEDBY
TRSUBMITTEDBY	TRSUBMITTEDBY
LOT	LOT
EXPIRYDATE	EXPIRYDATE

4.21 NATIONAL PRESCRIPTION AUDIT (NPA)

BRD-REQ-RAW-1

Feed Details:

Feed_id	Feed_name	Description	Frequency
465	3831 NPA Monthly	This feed contains National Prescription Audit (NPA) weekly profile data from IQVIA which contains information about prescription dispensed monthly.	15th of every month
466	3831 NPA Weekly	This feed contains National Prescription Audit (NPA) weekly profile data from IQVIA which contains information about prescription dispensed on weekly basis.	Weekly – Monday

Source: IQVIA

<table>
<tr><td></td><td>Subject Area: NPA
Markets: Psychiatry, Addiction
Products: Aristada, Lybalvi and Vivitrol
Load strategy (Incremental/ Full) - Incremental
Restatement (Yes/ No): No
MDM Mastering (Yes/No) – No</td></tr>
<tr><td>BRD-REQ-OBJ-2</td><td>• RAW_IQVIA_NPA_WEEKLY_PROFILE
• CLNS_IQVIA_NPA_WEEKLY_PROFILE
• SEM_NPA_WEEKLY_PROFILE
• RAW_IQVIA_NPA_MONTHLY_PROFILE
• CLNS_IQVIA_NPA_MONTHLY_PROFILE
• SEM_NPA_MONTHLY_PROFILE</td></tr>
<tr><td>BRD-REQ-SEM-3</td><td>• Incremental NPA data will be loaded in Semantic, and history will also be maintained. The historical data already in semantic will be retained for weeks/months outside the timeframe received in the latest file.
• PROD_DIM_ID, BRAND_NAME & PRODUCT_NAME will be populated from SEM_PRODUCT_MASTER based on Product Dimension ID, which will be derived from MAP_PROD_EXT_ID based on NDC, PROD_SUM and STRENGTH combination for ABILIFY ASIMTUFII and for all other products based on PROD_SUM and STRENGTH combination.
• MOT will be populated as a product of TQTY_UNITS_CONVERSION_FACTOR, MOT_CONVERSION_FACTOR from Product Master and EUTRX from source file.
• Below is the direct source to target mapping:
NPA Weekly –
<table><tr><th>Source Column</th><th>Target Column</th></tr><tr><td>ATC4</td><td>ATC4</td></tr><tr><td>FORM_TLC1</td><td>FORM_TLC1</td></tr><tr><td>NDC</td><td>NDC</td></tr><tr><td>PROD_SUM</td><td>PRODUCT_SUMMARY</td></tr><tr><td>SPECIALTY</td><td>SPECIALTY</td></tr><tr><td>STRENGTH</td><td>STRENGTH</td></tr><tr><td>CHANNEL</td><td>CHANNEL</td></tr><tr><td>TRX</td><td>TRX</td></tr><tr><td>NRX</td><td>NRX</td></tr><tr><td>EUTRX</td><td>EUTRX</td></tr><tr><td>MOT</td><td>MOT</td></tr></table>
NPA Monthly –</td></tr>
</table>

Source Column	Target Column
CALENDAR_QUARTER	CALENDAR_QUARTER
CALENDAR_YR	CALENDAR_YEAR
NDC	NDC
PROD_SUM	PRODUCT_SUMMARY
BRAND_GENERIC	BRAND_GENERIC
SPECIALTY	SPECIALTY
STRENGTH	STRENGTH
CHANNEL	CHANNEL
TRX	TRX
NRX	NRX
EUTRX	EUTRX
MOT	MOT

4.22 DIAMOND DISTRIBUTION

BRD-REQ-RAW-1	**Feed Details:** **Feed_id** : **Feed_name** : DIAMOND_DISTRIBUTION_VIV **Description** : This feed contains Shipment data for Vivitrol from Diamond Distribution **Source**: Diamond **Subject Area:** Shipment **Markets:** Addiction **Products:** Vivitrol **Load strategy (Incremental/ Full) -** NA **Restatement (Yes/ No):** NA **Frequency (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) –** Monthly **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)-** 12 **MDM Mastering (Yes/No) –** No
BRD-REQ-OBJ-2	• RAW_DIAMOND_DISTRIBUTION • CLNS_DIAMOND_DISTRIBUTION

4.23 LYBALVI – NPP TARGET

BRD-REQ-OBJ-1	**Source tables:** • SEM_CALL_PLAN • SEM_COMMUNICATION • SEM_DEMAND_SALES_COMPONENT • SEM_IMS_SOB_PRESCRIBER_MONTHLY • SEM_CALL • SEM_SPEAKER_PROGRAM_DETAIL • SEM_SPEAKER_PROGRAM_ATTENDEE_DETAIL • SEM_HCP_SAMPLE
BRD-REQ-SEM-2	• This table contains comprehensive details about prescribers, including information such as the first name, party's name etc. It also incorporates call-related data like PDE, Call Plan, and Target flags for all brands. Furthermore, it includes TRX and NBRx specifically for Lybalvi brand from Demand Sales which will be used to populate Prescription flag (FLG_WRITER_LYBALIV - writer/Non-Writer flag). Additionally, the table calculates Tier information, Compliance flags such as PDRP and AMA_OPT_OUT, and Marketing flags like the NPP flag. • **ALK_ID** will be populated from SEM_CUSTOMER_TARGET for Psychiatry and Field Marketing teams for current quarter and year • **YR** will be populated as year of START_DATE from SEM_CUSTOMER_TARGET • **QTR** will be populated as quarter of START_DATE from SEM_CUSTOMER_TARGET • **ACCOUNT_SUPER_TYPE** and **ACCOUNT_CLASS_TYPE** will be populated from SEM_CUSTOMER_MASTER based on ALK_ID • **FLG_TGT_TBM** will be populated as 1 if TEAM_DIM_ID=1, else 0 will be populated. • **FLG_TGT_NPP** will be populated as 1 if TEAM_DIM_ID=18, else 0 will be populated. • **FLG_TGT_ARI** will be populated as 1 if PRODUCT_MASTER_ID = 20000001, else 0 will be populated. • **FLG_TGT_LYB** will be populated as 1 if PRODUCT_MASTER_ID = 20000051, else 0 will be populated. • **FLG_TGT_TBM_ARI** will be populated as 1 if TEAM_DIM_ID = 1 and PRODUCT_MASTER_ID = 20000001, else 0 will be populated. • **FLG_TGT_NPP_ARI** will be populated as 1 if TEAM_DIM_ID = 18 and PRODUCT_MASTER_ID = 20000001, else 0 will be populated. • **FLG_TGT_TBM_LYB** will be populated as 1 if TEAM_DIM_ID = 1 and PRODUCT_MASTER_ID = 20000051, else 0 will be populated • **FLG_TGT_NPP_LYB** will be populated as 1 if TEAM_DIM_ID = 18 and PRODUCT_MASTER_ID = 20000051, else 0 will be populated • **TIER_ARI** will be populated as follows : If FLG_TGT_ARI is null, then 'zzz_Non-Brand Target – PSYCH' , If FLG_TGT_ARI=0 and FLG_TGT_LYB=1, then 'zzz_Brand Target - LYB Only' ,If FLG_TGT_ARI=1 and ACCOUNT_SUPER_TYPE='IND' then coalesce(TIER_TBM_ARI,TIER_NPP_ARI,'zzz_Brand Target: No Tier'), If FLG_TGT_ARI=1 and ACCOUNT_SUPER_TYPE='HCO' then coalesce(TIER_TBM_ARI_HCO,TIER_NPP_ARI_HCO,'zzz_Brand Target: No Tier') , else 'zzzz_Other' will be populated. • **TIER_LYB** will be populated as follows : If FLG_TGT_LYB is null, then 'zzz_Non-Brand Target – PSYCH' will be populated, If FLG_TGT_LYB=0 and FLG_TGT_ARI=1 then 'zzz_Brand Target - ARI Only', If FLG_TGT_LYB =1 and ACCOUNT_SUPER_TYPE='IND' coalesce(TIER_TBM_LYB,TIER_NPP_LYB,'zzz_Brand Target: No Tier'), If FLG_TGT_LYB =1 and ACCOUNT_SUPER_TYPE='HCO' then

	coalesce(TIER_TBM_LYB_HCO,TIER_NPP_LYB_HCO,'zzz_Brand Target: No Tier'), else 'zzzz_Other' will be populated. • **FLG_CP_ARI** will be populated as 1 if TEAM_DIM_ID = 1 and PROD_DIM_ID = 10000046 for a given ALK_ID in SEM_CALL_PLAN for current year and quarter. • **FLG_CP_LYB** will be populated as 1 if TEAM_DIM_ID = 1 and PROD_DIM_ID = 10000267 for a given ALK_ID in SEM_CALL_PLAN for current year and quarter. • **PLANNED_CALLS_ARI** will be populated as aggregate of planned calls for TEAM_DIM_ID = 1 and PROD_DIM_ID = 10000046 for current year and quarter. • **PLANNED_CALLS_LYB** will be populated as aggregate of planned calls for TEAM_DIM_ID = 1 and PROD_DIM_ID = 10000267 for current year and quarter. • **PLANNED_PDE_ARI** will be populated as aggregate of planned pde for TEAM_DIM_ID = 1 and PROD_DIM_ID = 10000046 for current year and quarter. • **PLANNED_PDE_LYB** will be populated as aggregate of planned pde for TEAM_DIM_ID = 1 and PROD_DIM_ID = 10000267 for current year and quarter. • **NPI** will be populated from SOURCE_ID from SEM_CUSTOMER_IDENTIFIER for NPI source. • **VID** will be populated from VID_V from XREF_CROSSIX_VID_NPI_MAP • **FIRST_NAME, LAST_NAME, PRIMARY_SPECIALTY** will be populated from SEM_CUSTOMER_MASTER • **ADDRESS_LINE_1, ADDRESS_LINE_2, ADDRESS_LINE_3, CITY, STATE, ZIP** will be populated from Customer Address • **EMAIL** will be populated from COMM_TYPE_VAL column from SEM_COMMUNICATION when COMM_TYPE_CD='EMAIL' and COMM_TYPE_PRIMARY_FLAG is 'Y' for active records. • **PDRP_FLAG, AMA_OPT_OUT, MARKETING_OPT_OUT, TREATS_SCHIZOPHRENIA, STATUS_CD** will be populated from Customer Master. • **PARENT_ALK_ID** will be populated from SEM_CUSTOMER_AFFILIATION for TEAM_DIM_ID=1 based on ALK_ID. • **PARENT_PARTY_NAME, PARENT_ACCOUNT_SUPER_TYPE, PARENT_ACCOUNT_CLASS_TYPE** will be populated from SEM_CUSTOMER_MASTER. • **TRX_LYB** will be populated as aggregate of TRX from SEM_DEMAND_SALES_COMPONENT for XPO Lybalvi for latest 3 months. • **NBRX_LYB** will be populated as aggregate of PROJECTED_TRX from SEM_IMS_SOB_PRESCRIBER_MONTHLY for 'New Therapy Start','Switch','Add On' description for Lybalvi for latest 3 months • **ACTUAL_CALL_LYB** will be populated as number of calls from SEM_CALL for latest 3 months. • **ACTUAL_PDE_LYB** will be populated as sum of PDE_WEIGHT((4 - (If PRODUCT_POSITION_NUM = 1 then 0 else PRODUCT_POSITION_NUM))/4) from SEM_CALL. • **SPKR_PROG_LYB** will be populated as count of PROGRAM_ID from SEM_SPEAKER_PROGRAM_DETAIL for Lybalvi ,PROGRAM_STATUS should be 'COMPLETED', 'CLOSED_VOD','CONFIRMED' and PROGRAM_TYPE should be in 'SPEAKER PROGRAM','WEBINAR LINK','WEBINAR HOST' for latest 3 months • **SAMPLE_QTY_LYB** will be populated as sum of SAMPLE_QUANTITY from SEM_HCP_SAMPLE for latest 3 months for Lybalvi • **DECILE_OAAP** will be populated from DECILE column from SEM_CUSTOMER_DECILE for monthly XPO and for R12 period. • **FLG_WRITER_LYB** will be populated as WRITER if TRX_LYB>0, else NON-WRITER will be populated. • **TIER_LYB_GRP** will be populated as'1' if TIER_LYB is ('A','B','C'), '2' if TIER_LYB is ('D','E') ,otherwise as '3'. • **FLG_COMPLIANCE_ELIGIBLE** will be populated as'1' if BRAND_CALL_PLAN_TARGET column from SEM_CUSTOMER_ELIGIBILITY is 1, else 0 will be populated. • **FLG_INSTEP_HEALTH_ELIGIBLE** will be populated as'0' if PARENT_PARTY_NAME is like ('%ADDICTION%' or '%GERI' or '%PED%' or '%CHILD%' or '%ADOLESCENT%' or '%OBSTETRIC%' or '%GYN%' or '%NEPH%') or PRIMARY_SPECIALTY is ('OBSTETRICS & GYNECOLOGY','NEPHROLOGY') else 1 will be populated.

4.24 LIQUIDHUB INVENTORY

S NO	Requirement
BRD-REQ-RAW-1	**Subject Area:** Inventory **Markets:** Addiction **Products:** Vivitrol **Load strategy (Incremental/ Full) -** Incremental **Restatement (Yes/ No): No** **File Receipt Day/ Date (in case of Weekly/ Monthly/ Quarterly)- 10th for Monthly** **MDM Mastering (Yes/No) –** No

Feed ID	Feed Name	Source	Frequency
592	VIVITROL_WALGREENS_INV_MTH	Capgemini	Monthly
593	VIVITROL_SP002C_INV_MTH	Capgemini	Monthly
594	VIVITROL_OPTUM _INV_MTH	Capgemini	Monthly
595	VIVITROL_ORSINI_INV_MTH	Capgemini	Monthly
596	VIVITROL_ACS_INV_MTH	Capgemini	Monthly
597	VIVITROL_ACCREDO_INV_MTH	Capgemini	Monthly
598	VIVITROL_HIST_INV_MTH	Capgemini	Monthly
599	History file for Amber, Giant Eagle, Humana, MRXM, PUBLIX	Small Pharmacies	Monthly
600	merged_Medicine Shoppe_	Medicine Shoppe	Monthly
601	LKER_SRX_AMBER INVENTORY_	Amber	Monthly
602	Giant_Eagle_Vivitrol_Inventory_Report_	Giant Eagle	Monthly
603	MRxMInventory_	Magellan	Monthly
604	Vivitrol Monthly Inventory Report	Humana	Monthly
605	Inventory_Vivitrol_	Reliance RX	Monthly
606	VIVITROL INVENTORY ON HAND	Medicine Shoppe	Monthly
607	Alkermes Vivitrol Inventory (Restore RX)	Restore Rx/Value Specialty Pharmacy	Monthly
608	VVLS PHARMACY DBA BANKS APOTHECARY	Banks Apothecary	Monthly
609	Alkermes_Vivitrol_InventoryReport_	Mullaney's/Hutcheson	Monthly
610	Publix	Publix	Monthly

611	History File for HHP, Banks Apothecary, Restore RX, Publix, Reliance RX	Small Pharmacies	Monthly
586	LqHub Daily Inventory	Capgemini	Daily

BRD-REQ-RAW-2

Tables Covered-

Monthly Process:

Capgemini Inventory data:

CDE_RAW.RAW_LQHUB_INVENTORY_MNTHLY_HST
CDE_RAW.RAW_LQHUB_ACCREDO_INVENTORY_MNTHLY
CDE_RAW.RAW_LQHUB_ACS_INVENTORY_MNTHLY
CDE_RAW.RAW_LQHUB_ORSINI_INVENTORY_MNTHLY
CDE_RAW.RAW_LQHUB_OPTUM_INVENTORY_MNTHLY
CDE_RAW.RAW_LQHUB_WALGREENS_INVENTORY_MNTHLY
CDE_RAW.RAW_LQHUB_CVS_SP002C_INVENTORY_MNTHLY
CDE_CLNS.CLNS_LQHUB_INVENTORY_MNTHLY_HST
CDE_CLNS.CLNS_LQHUB_ACCREDO_INVENTORY_MNTHLY
CDE_CLNS.CLNS_LQHUB_ACS_INVENTORY_MNTHLY
CDE_CLNS.CLNS_LQHUB_ORSINI_INVENTORY_MNTHLY
CDE_CLNS.CLNS_LQHUB_OPTUM_INVENTORY_MNTHLY
CDE_CLNS.CLNS_LQHUB_WALGREENS_INVENTORY_MNTHLY
CDE_CLNS.CLNS_LQHUB_CVS_SP002C_INVENTORY_MNTHLY

Small Pharmacies Inventory data:

CDE_RAW.RAW_SRX_AMBER_INVENTORY_MNTHLY
CDE_RAW.RAW_GIANT_EAGLE_INVENTORY_MNTHLY
CDE_RAW.RAW_HUMANA_INVENTORY_REPORT_MNTHLY
CDE_RAW.RAW_MRXM_INVENTORY_MNTHLY
CDE_RAW.RAW_MEDICINE_SHOPPE_INVENTORY_MNTHLY
CDE_RAW.RAW_RELIANCE_INVENTORY_REPORT_MNTHLY
CDE_RAW.RAW_BANKS_APOTHECARY_INVENTORY_MNTHLY
CDE_RAW.RAW_PUBLIX_INVENTORY_MNTHLY
CDE_RAW.RAW_HHP_INVENTORY_REPORT_MNTHLY
CDE_RAW.RAW_RESTORERX_INVENTORY_MNTHLY
CDE_RAW.RAW_HHP_BA_PUBLIX_RESTORE_RELIANCE_RX_HST
CDE_RAW.RAW_AMBER_GE_MRXM_HUMANA_INVENTORY_HST
CDE_RAW.RAW_MEDICINE_SHOPPE_INVENTORY_MNTHLY_HST
CDE_CLNS.CLNS_HHP_INVENTORY_REPORT_MNTHLY
CDE_CLNS.CLNS_SRX_AMBER_INVENTORY_MNTHLY
CDE_CLNS.CLNS_GIANT_EAGLE_INVENTORY_MNTHLY
CDE_CLNS.CLNS_HUMANA_INVENTORY_REPORT_MNTHLY
CDE_CLNS.CLNS_MRXM_INVENTORY_MNTHLY
CDE_CLNS.CLNS_MEDICINE_SHOPPE_INVENTORY_MNTHLY
CDE_CLNS.CLNS_RELIANCE_INVENTORY_REPORT_MNTHLY
CDE_CLNS.CLNS_BANKS_APOTHECARY_INVENTORY_MNTHLY
CDE_CLNS.CLNS_PUBLIX_INVENTORY_MNTHLY
CDE_CLNS.CLNS_RESTORERX_INVENTORY_MNTHLY
CDE_CLNS.CLNS_HHP_BA_PUBLIX_RESTORE_RELIANCE_RX_HST

	CDE_CLNS.CLNS_AMBER_GE_MRXM_HUMANA_INVENTORY_HST CDE_CLNS.CLNS_MEDICINE_SHOPPE_INVENTORY_MNTHLY_HST CDE_BASE_USR.FCT_PHARMACY_INVENTORY CDE_SEM_USR.SEM_PHARMACY_INVENTORY **Daily Process:** CDE_RAW.RAW_LQHUB_PHARMACY_INVENTORY_WKLY_HISTORY CDE_CLNS.CLNS_LQHUB_PHARMACY_INVENTORY_WKLY_HISTORY CDE_RAW.RAW_LQHUB_PHARMACY_INVENTORY_WKLY CDE_CLNS.CLNS_LQHUB_PHARMACY_INVENTORY_WKLY CDE_BASE_USR.FCT_PHARMACY_INVENTORY CDE_SEM_USR.SEM_PHARMACY_INVENTORY
BRD-REQ-DW- 3	**Monthly Process:** • One-time historical data processing will be done for all Capgemini & small pharmacies to include all the Inventory data before June'23 • **NDC code** can be fetched by removing '-' from source data wherever its applicable • Filter out all the historical records with NDC "65757050003" for **Cigna** pharmacy. • NDC code will be defaulted to "65757050003" for **Medicine Shoppe** Pharmacy. • Magellan Pharmacy will have historical data of Aristada brand along with Vivitrol. • NDC code "6575730001" needs to be replaced by "65757030001" code for **ORSINI** pharmacy. • NDC code will be replaced to "6575730001" wherever in historical data its other than Vivitrol NDC for **Restore-Rx** Pharmacy. • **DATA_SOURCE_PROVIDER** value needs to be defaulted to 'CAPGEMINI' for Capgemini files, whereas it need to populate as Parent Pharmacy name from XREF for small pharmacies. **Daily Process:** • One-time historical data processing will be done to include all the Inventory data before June'23 • Restatement logic will be applied on history data based on LH_NVENTORY_KEY. • Inventory record with maximum date in each file for CIGNA pharmacy historical data will be considered. • For the remaining pharmacies, all inventory records will be considered.
BRD-REQ-DW-4	**Monthly Process:** • **Capgemini Inventory data:** • **Customer details** for active HCO's will be fetched from customer dimension based on NPI received from source. • **Pharmacy Name** & **Parent Pharmacy Name will** be populated from XREF_LQHUB_PHMCY_MAPPING for all Pharmacies based on File name ingested (between first and second Underscore). • **Product details** will be fetched from Product dimension based on NDC from source data'. • **DATA_SOURCE_PROVIDER** will be hardcoded as 'CAPGEMINI'.

- **WEEKLY_MONTHLY_FLAG** will be populated from XREF_LQHUB_PHMCY_MAPPING based on INSERT_SRC_FILENAME (between 2nd last and last underscore). This will signify whether the inventory details are from weekly or monthly feed.
- **DIRECT_INDIRECT_FLAG** will be populated from XREF_LQHUB_PHMCY_MAPPING for all Pharmacies.
- **Adjusted Date** will be calculated based on the logic below.
    - If INVENTORY_DATE > = '25' Then Last Day of Month.
    - If INVENTORY_DATE < = '20' Then Last Day of Previous month.
    - Should be Populated Inventory data if between 21-24

- **Small Pharmacies Inventory data:**

- **Pharmacy Name & Parent Pharmacy Name** will be populated from XREF_LQHUB_SMALL_PHARMACY_MAPPING for all pharmacies based on File Name Ingested.
- **Pharmacy Location Name, State and ZIP** will be directly populated from source.
- **Product details** will be fetched from Product dimension based on NDC from source data'.
- **Source File name** will be populated as Ingested File Name from DATA FILE META

Daily Process:

- **Customer details** for active HCO's will be fetched from customer dimension based on NPI received from LiquidHub.
- **Pharmacy Name** will be populated from XREF_LQHUB_PHMCY_MAPPING for all Pharmacies except Asembia based on INSERT_SRC_FILENAME (between first and second Underscore). For Asembia, Pharmacy Name will be populated from XREF_ASEMBIA_NPI_MAPPING based on NPI.
- **Parent Pharmacy Name** will be same as Pharmacy Name for all pharmacies except Asembia. For Asembia, Parent Pharmacy Name will be hardcoded as 'Asembia'.
- **Product details** will be fetched from Product dimension based on NDC from LiquidHub.
- **DATA_SOURCE_PROVIDER** will be hardcoded as 'LiquidHub'.
- **WEEKLY_MONTHLY_FLAG** will be populated from XREF_LQHUB_PHMCY_MAPPING based on INSERT_SRC_FILENAME (between 2nd last and last underscore). This will signify whether the inventory details are from weekly or monthly feed.
- **DIRECT_INDIRECT_FLAG** will be populated from XREF_LQHUB_PHMCY_MAPPING for all Pharmacies except Asembia. For Asembia, DIRECT_INDIRECT_FLAG will be populated from XREF_ASEMBIA_NPI_MAPPING based on NPI.
- **Adjusted Date** will be calculated based on the logic below.

Pharmacy name	Adjusted date logic
CIGNA	If Inventory date lies between Tuesday and Monday, then the Sunday in between will be populated as Adjusted date.
Asembia	If the Inventory date lied between 25th – 20th of a month, then the Adjusted date should be the month end falling in between these dates.
Other Pharmacies	If Inventory date lies between Tuesday and Monday, then the Sunday in between will be populated as Adjusted date.

<table>
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- **PHARMACY_LOCATION, CALCULATED_UNITS_SHIPPED, SPP_ITEM_NO** will be hardcoded as NULL for daily/weekly Inventory feeds.

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<tr><td>BRD-REQ-SEM-5</td><td>

Monthly Process:

- The semantic table will be a refresh monthly and will hold the latest available Inventory data.
- Customer ID and Address details will be populated from Customer Master based on Customer Dimension ID for Capgemini Pharmacies.
  - If multiple Customer IDs are present in the Customer Master against the same NPI, then lowest ALK_ID will be populated. This will be notified to Alkermes Business team (Alexander Czuprynski, James Porter, Phylis Fu) for review. Alkermes Business team will get this fixed in the consecutive runs.
- Pharmacy **State, City, ZIP** will be populated from SEM Customer Address based on CUST DIM ID for Capgemini Files, whereas Pharmacy **State, City** will be mapped directly from source for small pharmacies.
- Pharmacy DEA will be populated from Customer Identifier based on most recent ALK_ID, if not present will be populated from Liquidhub Shipment based on Pharmacy NPI
- Below fields are directly populated from source:

Capgemini Files:

Semantic table field	Source field
INVENTORY_DATE	INVENTORY_DATE
SP_LOCATION_NPI	SP_LOCATION_NPI
SP_LOCATION_NCPD	SP_LOCATION_NCPD SP_LOCATION_NABP (For Acredo Pharmacy)
PRODUCT_IDENTIFIER_NDC	PRODUCT_IDENTIFIER_NDC
PRODUCT_UNIT_OF_MEASURE	PRODUCT_UNIT_OF_MEASURE
BEGINNING_BALANCE_QUANTITY	BEGINNING_BALANCE_QUANTITY
ENDING_INVENTORY_QUANTITY	ENDING_INVENTORY_QUANTITY
SPP_ITEM_NO	SPP_ITEM_NO
QUANTITY_DISPENSED	QUANTITY_DISPENSED
QUANTITY_RECEIVED	QUANTITY_RECEIVED
QUANTITY_ADJUSTED	QUANTITY_ADJUSTED

Small Pharmacies:

Semantic table field	Source field
INVENTORY_DATE	INVENTORY_DATE
PHARMACY_LOCATION	PHARMACY_LOCATION
PRODUCT_IDENTIFIER_NDC	PRODUCT_IDENTIFIER_NDC

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STATE	STATE
ZIP	ZIP
Month End Inventory	ENDING_INVENTORY_QUANTITY
PRODUCT_UNIT_OF_MEASURE	PRODUCT_UNIT_OF_MEASURE
BEGINNING_BALANCE_QUANTITY	BEGINNING_BALANCE_QUANTITY
ENDING_INVENTORY_QUANTITY	ENDING_INVENTORY_QUANTITY
SPP_ITEM_NO	SPP_ITEM_NO
QUANTITY_DISPENSED	QUANTITY_DISPENSED
QUANTITY_RECEIVED	QUANTITY_RECEIVED
QUANTITY_ADJUSTED	QUANTITY_ADJUSTED

Medicine Shoppe

Semantic table field	**Source field**
INVENTORY_DATE	INVENTORY_DATE
PHARMACY_LOCATION	PHARMACY_LOCATION
Opening Inventory	BEGINNING_BALANCE_QUANTITY
Units purchased	QUANTITY_RECEIVED
Closing Inventory	ENDING_INVENTORY_QUANTITY
Adjustments and Transfers	QUANTITY_ADJUSTED
Calculated units Shipped	CALCULATED_UNITS_SHIPPED
Reported Units Shipped	QUANTITY_DISPENSED

Daily Process:

- The semantic table will be a daily refresh and will hold the latest available Inventory data from LiquidHub along with complete historical data.
- **Customer ID** and **Address details** will be populated from Customer Master based on Customer Dimension ID.
    - If multiple Active Customer IDs are present in the Customer Master against the same NPI, then lowest ALK_ID will be populated. This will be notified to Alkermes Business team (Alexander Czuprynski, James Porter, Phylis Fu) for review. Alkermes Business team will get this fixed in the consecutive runs.
    - If no active account to NPI mappings is present, then the NPI must be mapped using an Inactive account to NPI mapping.
    - If multiple inactive account to NPI mappings exist, the account with the minimum ALK_ID will be selected.
- Pharmacy **State, City, ZIP** will be populated from SEM Customer Address based on CUST DIM ID

4.25 LYBALVI VOUCHER PROGRAM CRX

BRD-REQ-RAW-1	**Feed Details:** **Feed_id** : 616 **Feed_name** : CRX_LYBALVI_VOUCHER_CLAIMS **Description** : This feed contains Claims data for Lybalvi Voucher Program from CRx **Source**: CRx **Subject Area**: Claims **Markets**: Anti-Psych **Products**: Lybalvi **Load strategy (Incremental/ Full)** - NA **Restatement (Yes/ No)**: NA **Frequency** (Daily/ Weekly/ Monthly/ Quarterly/ Adhoc) – TBD **File Receipt Day**/ Date (in case of Weekly/ Monthly/ Quarterly)- TBD **MDM Mastering** (Yes/No) – No
BRD-REQ-OBJ-2	• RAW_CRX_LYBALVI_VOUCHER_CLAIMS • CLNS_CRX_LYBALVI_VOUCHER_CLAIMS

5. DOCUMENT CHANGE LOG

Version No.	Date	Author	CR No.	CR Name	Section	Revision Notes	Reviewed By & Date	Approved By & Date
1.0	18-Feb-2020	Dhruv Sazawal/ Vishal Patel				Initial Draft		
2.0	01-Jun-2020	-				Integration with Luna		
2.1	12-May-2023	Manav Asija				Missing updates (Short term Update plan): Raw & Cleanse		
2.1	12-May-2023	Shashank Bhardwaj				Missing updates (Short term Update plan): DWH		
2.1	12-May-2023	Harshit Misra				Missing updates (Short term Update plan): Semantic		
2.1	12-May-2023	Sarang Deshpande				Missing updates (Short term Update plan): Extract		
2.1		Vishal			4.9.5	Sales- Xponent	Anshu Matta	Irina/ Balaji
2.1		Harshit			4.12.1	FIA	Anshu Matta	Anand Rao
2.1					6.1	Enrolment Dashboard - Vivitrol2gether	Anshu Matta	Jennifer

2.1		Chahat			4.14.1	Genoa and Albertson Roster	Anshu Matta	Balaji
2.1		Chahat			4.9.4	Sales- SD	Anshu Matta	Irina/ Balaji
2.1		Chahat			4.9.8	Demand Sales	Anshu Matta	Irina/ Balaji
2.1		Shrikunj			4.12.2	LAAD	Anshu Matta	Irina/ Balaji
2.1		Snigdha			4.12.3	OPC	Anshu Matta	Balaji
2.1		Snigdha			4.13.2.2	Demo Kits	Anshu Matta	Balaji
2.1		Chahat			4.5.3	Customer Terr Split	Anshu Matta	Kellie
2.1		Vishal			4.10.1	Marketo	Anshu Matta	Madhan/ Stan
2.1		Vishal			4.16	Inventory Data- Order Fulfilment	Anshu Matta	Kishor
2.1		Priyanshu			4.5.5	Call Plan	Anshu Matta	Nate
2.1		Chahat			4.9.3	Sales- DDD	Anshu Matta	Irina
2.1		Chahat			4.9.1 and 4.9.2	Sales – Chargeback	Anshu Matta	Irina
2.1		Vishal			4.15.4.2	Five9_Campaign_Calls	Anshu Matta	Michael
2.1		Chahat			4.5.2	Customer Target	Anshu Matta	
2.1		Chahat			4.5.1	Customer Tier	Anshu Matta	
2.1		Priyanshu			4.9.6	Specialty Pharmacy	Anshu Matta	Balaji
2.1		Chahat			4.9.7	Sales Adjustment	Anshu Matta	
2.1		Priyanshu			4.12.4	SOB	Anshu Matta	
2.1		Vishal			4.7	Calendar	Anshu Matta	Kishor
2.1		Suruchi			4.6	Product	Anshu Matta	Irina/ Balaji
2.1		Chahat			4.15.5	Promo Mats	Anshu Matta	
2.1		Vishal			4.15.1, 4.15.2, 4.15.3, 4.15.4	Marketing	Anshu Matta	Stan/ Xianbin
2.1		Vishal			4.8	Geography	Anshu Matta	

2.1		Vishal			4.9.9	Integrichain	Anshu Matta	
2.1		Suruchi			4.11	Plan Master	Anshu Matta	
2.1		Suruchi			6.4	Zip to Terr Alignment Dashboard	Anshu Matta	
2.1		Snigdha			4.4	Alignment	Anshu Matta	
2.1		Chahat			4.9.12	Sales- Ex Factory	Anshu Matta	
2.1		Lavkush			4.5.4	Customer Segmentation	Anshu Matta	
2.1		Lavkush			4.12.5, 4.12.6, 4.12.7, 4.12.8, 4.12.9	Patient	Anshu Matta	
2.1		Snigdha			4.17	Hospital Master	Anshu Matta	
2.1		Vishal			4.13	Shipment	Anshu Matta	Balaji
2.1		Priyanshu			4.18	Veeva Suggestions (DOE)	Anshu Matta	
2.1		Priyanshu			4.12.10	Hub Enrolment	Anshu Matta	
2.1		Chahat			4.9.11	Demand Sales Psychiatry	Anshu Matta	
2.1		Suruchi			4.9.10	Credited Sales	Anshu Matta	
2.1		Suruchi			4.3	Roster	Anshu Matta	
2.1		Vishal			4.10	Activity	Anshu Matta	

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2.1		Manav			4.19	Product Monthly Transactional Data	Anshu Matta	
2.1		Shashank			4.2	Customer 360	Anshu Matta	
3.2	10/25/2023	Snigdha	CR_711	Update Lybalvi Segments in Marketo Sync	4.23	Lybalvi NPP Target table created	Devashish Shukla	
3.4	14/12/2023	Priyanshu	CR_673	Addition of new columns in Employee Roster File	4.3.1	Addition of new fields in Employee Roaster file from raw to reporting layer	Devashish Shukla	
3.7	15/12/2023	Harshit	ACR_28	Zip To Terr Process Redesign	4.4.1, 4.4.8, 7.6.4	Updated Zip Territory Position Process (SEM_ZIP_TERRITORY_POSITION instead of SEM_ATT_ZTT)	Devashish Shukla	
3.9	11/12/2023	Priyanshu	CR_714	Add Accessibility Group to Psych Demand Sales Dashboard	4.9.11	Addition of a new field ACCESSIBILITY_GROUP in Psych Demand sales dashboard.	Devashish Shukla	
3.10	11/28/2023	Chahat	CR_642	Fetch all and only the DEAs with Active DEA_STATUS_CD post-DWH	4.1.5	Logic w.r.t DEA changed in DEA process	Devashish Shukla	
3.11	12/09/2023	Shrikunj	CR_722	LAAD Process Update	4.12.2	Market Priority for LAAD Dimension tables	Devashish Shukla	
3.12	01/12/2023	Vishal	ACR_12	Business Rule change for Aristada Behavioral Segment and Addition of new Product group	4.4.4	Addition of two new products “ABILIFY ASIMTUFII” and “Invega Hafyera” and new product group “Aristada Behavorial Segment Group” in the calculation of Aristada segmentation.	Devashish Shukla	
3.13	01/10/2024	Priyanshu	CR_658 & ACR_53	Ingestion of New SOB feed - IQVIA_PATGRP_SUBNAT	4.12.4	Ingestion for new SOB monthly feed in RAW CLNS and SEM layer without any Business Transformation	Devashish Shukla	
3.14	01/17/2023	Snigdha	ACR_61	Add MOT column in SEM_NPA_WEEKLY_PROFILE and SEM_NPA_MONTHLY_PROFILE	4.21	Addition of MOT column in Weekly and Monthly semantic NPA tables.	Devashish Shukla	
3.15	01/24/2024	Snigdha	ACR_43	Ingestion of LYBALVI - STATUS data	4.12.7.2	Ingestion of new feed for Patient Status and Order from ASEMBIA for Lybalvi	Devashish Shukla	

3.16	02/09/24	Snigdha	ACR_50	Integration of LYBALVI - STATUS data - SEM Load	4.12.7.2	Semantic table creation for Lybalvi Status feed from Asembia	Devashish Shukla	
3.17	02/13/24	Gaurav	ACR_79	Update to include new generic product group in RPT_DEMAND_SALES_PSYCHIATRY	4.9.11	Updating report table inclusions and grouping logic for product groups and brands in RPT_DEMAND_SALES_PSYCHIATRY	Devashish Shukla	
3.18	02/20/2024	Snigdha	ACR_71	Ingestion of non-reality engineering conference files	4.10.4	Ingestion of a new feed - non-reality engineering conference files	Devashish Shukla	

7. APPENDIX

7.1 TERMS & DEFINITION

Abbreviations	Description
HCP	Health Care Provider
HCO	Health Care Organization
DQ	Data Quality
DQM	Data Quality Management
QA	Quality Assurance
LTD	Launch to Date
CDE	Commercial Data Environment
CM	Customer Master
CE	Customer Engagement
IS	Information Systems
SSBI	Self-Service BI
IDQ	Informatica Data Quality
NFR's	Non Functional Requirements
MDM	Master Data Management