**HiGH LEVEL TECHNICAL Design document**

**CMA Redesign**



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# Introduction

Redesign the CMA related process to allocate direct sales to TE’s contract manufacturers to the Original Equipment Manufacturers (OEMs).

# Overview

This project will involve updates across a variety of systems involved in the CMA related process. CMA is a global application that is used to allocate direct sales to TE’s contract manufacturers to the OEMs (Original Equipment Manufacturers). A large portion of TE product sales to OEM customers are through Contract Manufacturers (CM). Current system lacks accuracy and flexibility needed to support TE business processes and also has a lag time of 2 months for providing the CMA data to various analytical systems and reports.

Project interdependencies:

* Account Planning: The CMA Redesign provides improved accuracy & timely direct sales allocations to be utilized in creating & reviewing Account Plans.
* Sales Incentive Plans: The CMA Redesign provides improved accuracy & timely direct sales allocations to be utilized in calculating the incentive plans.

# User Roles and Authentication

Below are different Security Access Levels in application.

* CMA Administrators: There are 2 types of Administrators that is Global BU Admin and Regional Admin.

1. Global BU Admin

* Can update the list of CMs for their BU
* Allowed to upload/update/delete rules for current month
* Allowed to download allocation rules/conflicts

1. Regional Admin

* Can update the list of CMs for their BU within their region
* Allowed to upload/update/delete rules for current month for accounts within their region.
* Allowed to download allocation rules/conflicts.
* CM Sales Engineers / Sales Managers

1. AUTO/ICT

* Allowed to update the current month’s rules for accounts under their territory by uploading the rules or thru the screen.
* Can delete the current month’s rules for accounts under their territory.
* Allowed to download allocation rules/conflicts.

1. Sensors

* Allowed to update current month’s rules for accounts under their territory / alternate territory by uploading the rules or thru the screen.
* Can delete current month’s rules for accounts under their territory / alternate territory.
* Allowed to download allocation rules / conflict.

1. Other BUs

* OEM SEs are allowed to upload rules for their accounts regardless of CM BU.
* Can delete current month’s rules their accounts.
* Allowed to download allocation rules / conflict
* GAMs

1. Approve/Reject allocation rule change for OEM accounts under their territory by Subcontractor GAM for Transportation BU,
2. For Appliances the approval will be given by OEM GAM.
3. For DND since Admin only enters the rules they will auto approve it.
4. Can access all allocations reports available in CMA.
5. Allowed to download rules for current and prior months for accounts within their region.
   * Delegate/Approver access (AUT and ICT)

Users with this role are assigned by GAMs to handle allocation rule change approval on their behalf.

Apart from above there are 5 different ways to enter rules for Reseller in CMA application

* User Sales Territory should match with Reseller Sold To Sales Territory.
* Emulate other users to see their Reseller Sold To.
* User Alternate Sales Territory should match with Reseller Sold To Sales Territory. This is specifically for ICT BU.
* All users will have access to Multi-Industry resellers
* New Role within each BU called ‘Reseller Access’ will be created. This BU will grant access to their Resellers (within their sales territory) to different users outside of their BU (or within their BU as well).

At present on Approve Allocation Changes page, the Approver has to select each rule to approve or reject. In order to ease this process, the checkbox will be provided for each rule so approver can approve the multiple rules at once.

# Scope

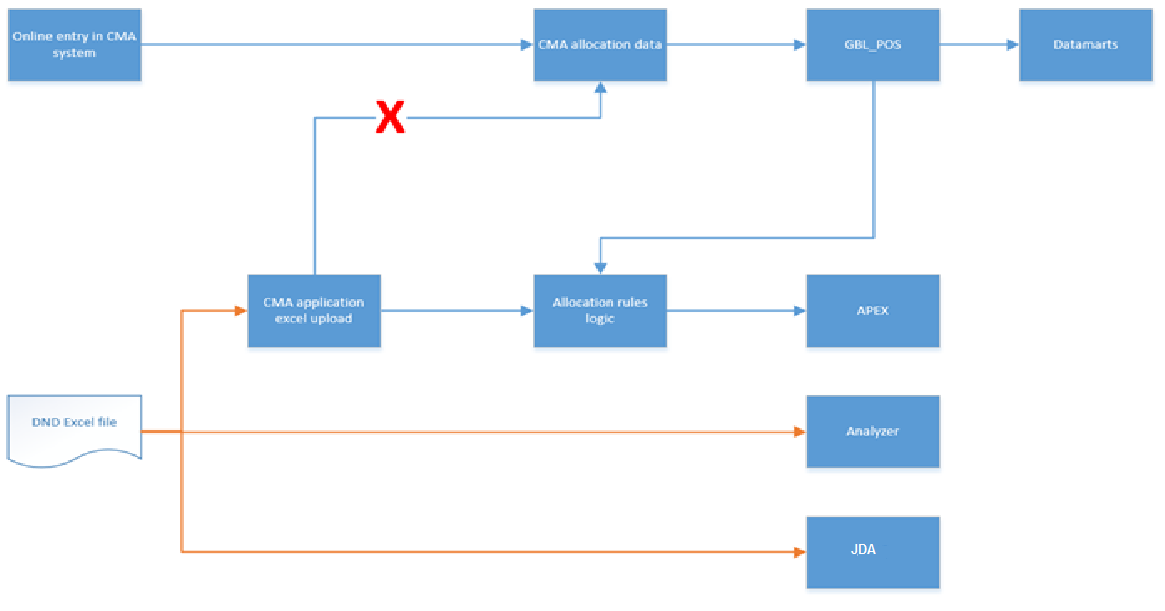
The Redesign of the CMA application, Analyzer application, APEX application, SFDC application and TED to support the redesigned process which includes:

* Improved usability with an updated UI
* Rule specific requirements such as
* Common repository for storing all rules for all Business Unit - Additional rules
* Common logic and repository to create Indirect Sales Allocation data and store this data in TED
* Timely reporting
* Booking and Backlog data included
* Ability to restate current & previous fiscal years
* Option for Administrator only update via Excel or existing on-line Sales update
* Allowing OEM Sales Engineer to add rules
* Creating the ability to allocate outside your own profit center
* DTO – historical data conversion



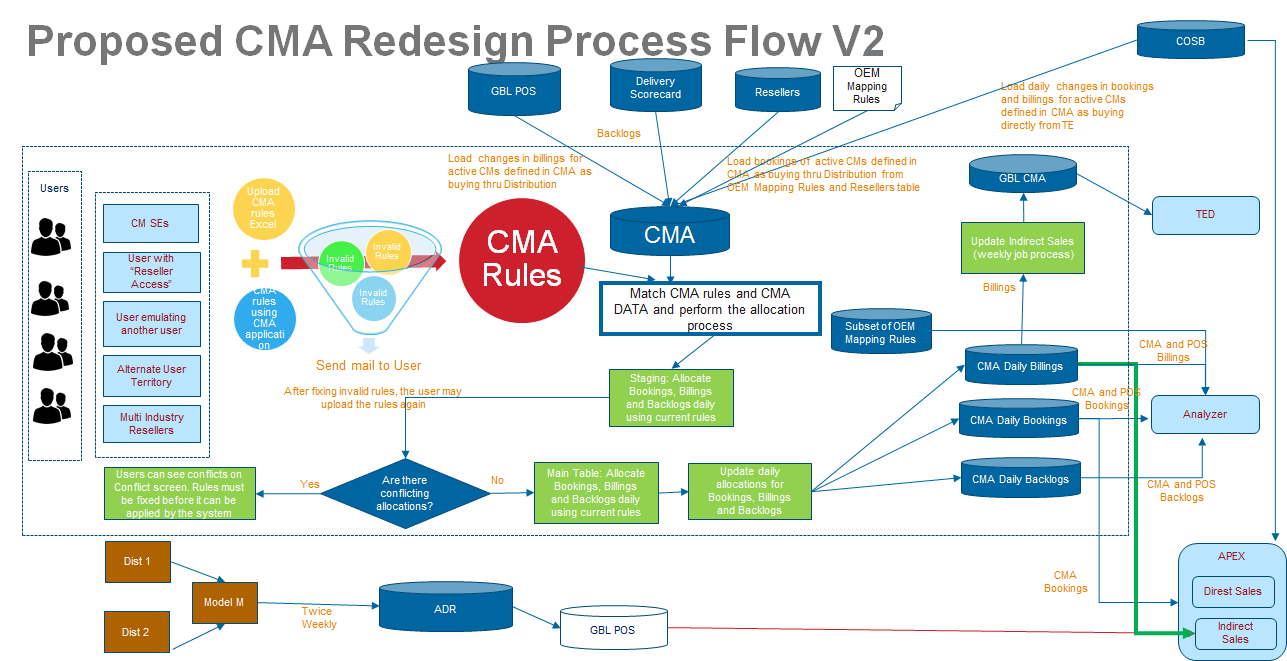
# Process Flow/Architecture Diagram

#### Current Application Setup:

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* + Four applications generate CM allocations data.
  + All applications have different allocation algorithm and different rules.
  + CMA Application generated allocation goes to TED 2 + month late once every month.
  + Allocation generated by other systems do NOT go to TED.
  + Billing’s data only.
  + CMA Rules Changed using screen only.
  + User can change allocation rules for last month.
  + Direct Sales for current month ends up as Indirect Sales for next month.
  + Exception on restrictive parts allocation.
  + Delete CM and its allocation very time-consuming in CMA Application.

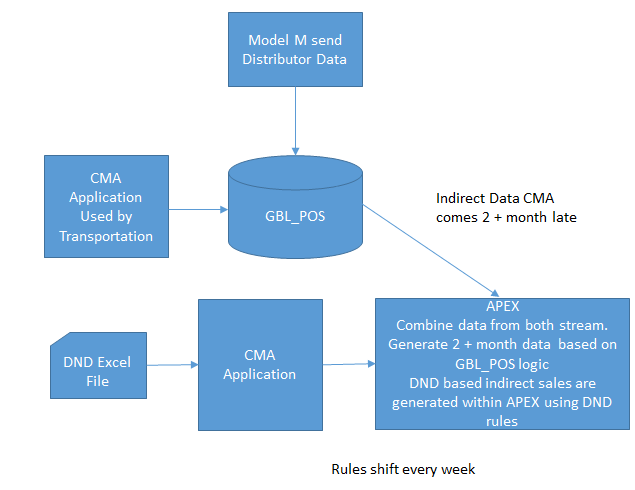
#### Proposed Application setup:



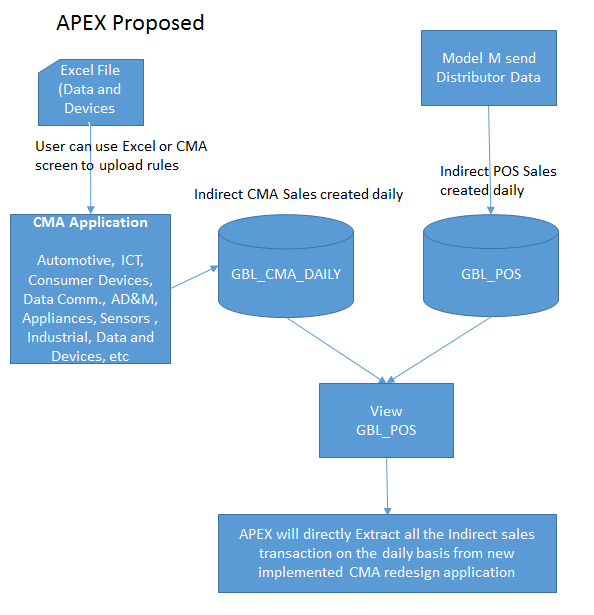
* + One application will generate CMA allocations for all participating BU’s
  + Common allocation algorithm and rules
  + Rules from both system (Analyzer and CMA App) integrated
  + All allocation data is available for Analyzer and Apex every day and for TED Weekly. There is no delay.
  + Daily Billings , Bookings and Backlog data
  + Incremental data upload using excel i.e. data that changed
  + CMA Rules can be changed using screen or excel. Same validation between screen and Excel.
  + Report on where rules clash with one another
  + User can change allocation rules for historical and current month
  + Direct Sales for current month ends up as Indirect Sales for current month
  + Exceptions on restrictive parts sales allocation
  + Delete CM and its allocation made simple
  + New Security Model for Alternate Sale Territory will be introduced.

# APEX Application Architecture

#### Current APEX Application Setup:

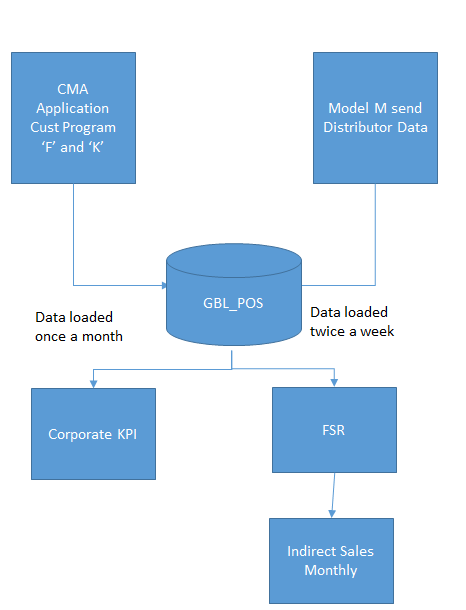
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#### Proposed APEX Application Setup:

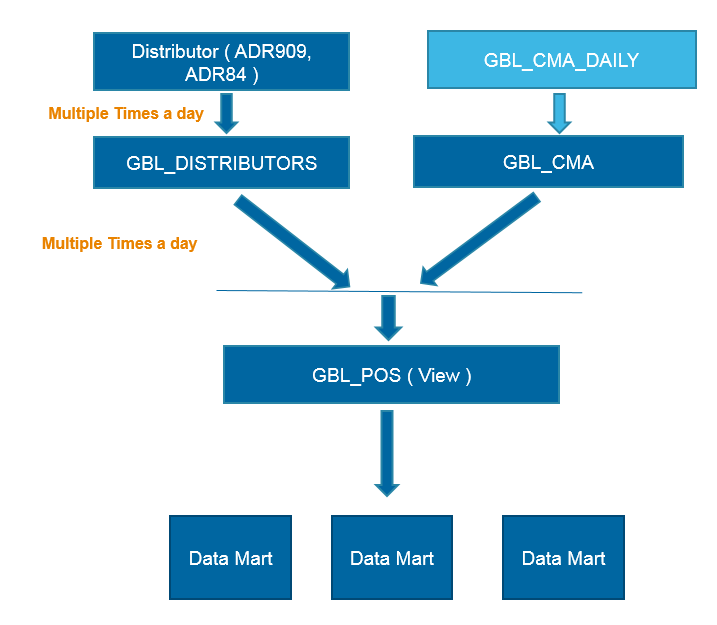


# TED Application Architecture

#### Current TED Application Setup:

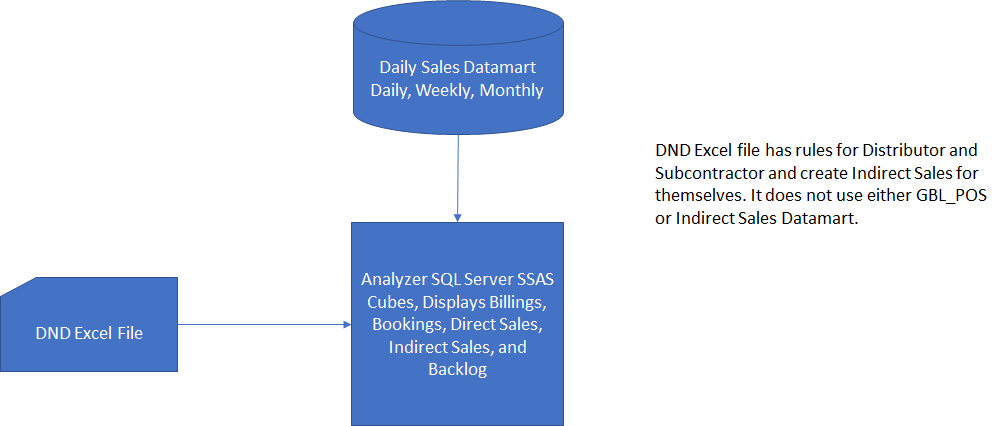


#### Future TED Application Setup:

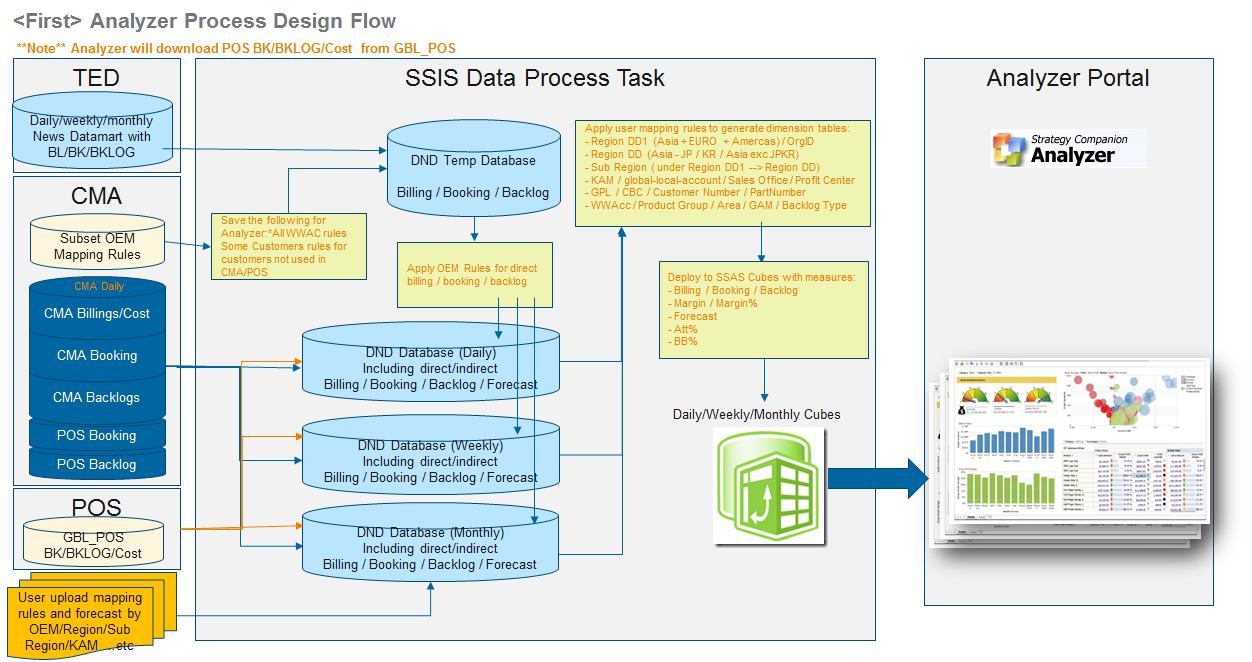


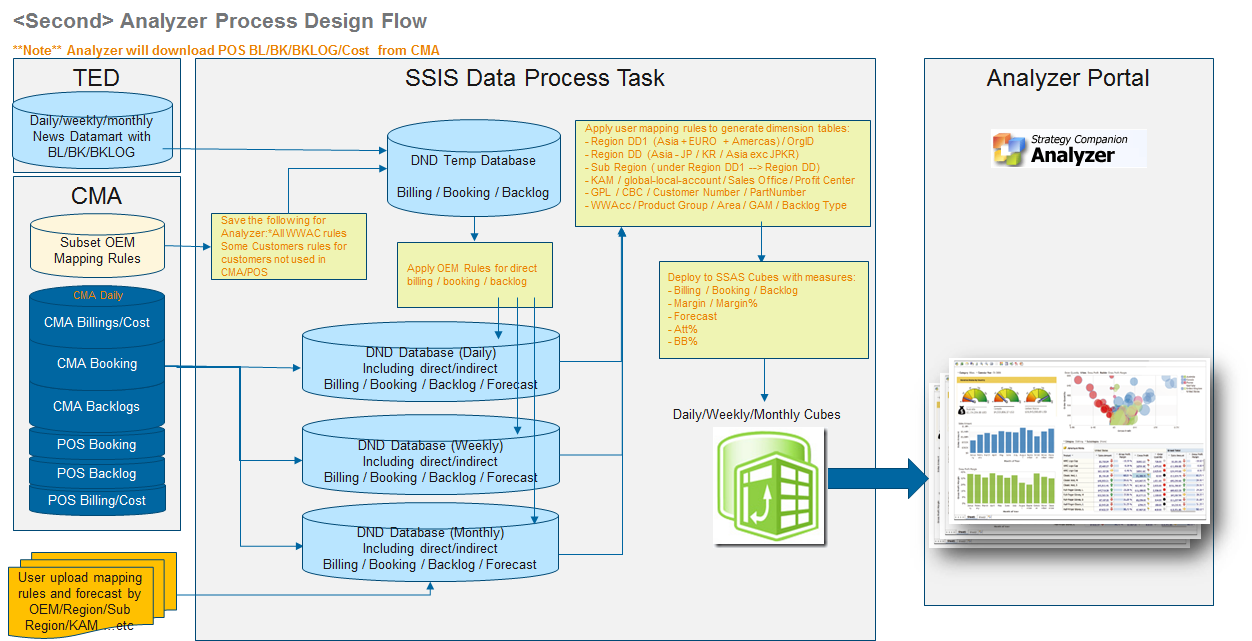
# ANALYZER Application Architecture

#### Current Analyzer Application Setup:



#### Proposed Analyzer Application Setup:





# Code Repository

**CMA:**

**TFS is being used as the code repository for CMA redesign. The usual functions of TFS are used:**

• Check in

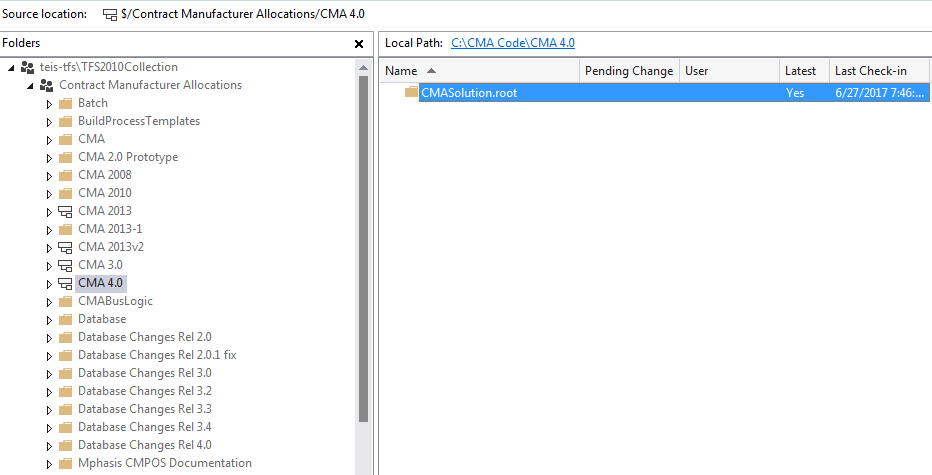
• Check out

• Merging

• Branching

**Location: $/Contract Manufacturer Allocations/CMA 4.0/CMASolution.root/CMASolution**

**Screen shot of the TFS structure:**



**Server Details**

**Application File Servers**

* QA : USW04WB436
* Production : US197WB136

**Database Servers**

* DEV/QA : SCORPION\_GDWV2
* Production : SOLAR\_GDWP2
* Schemas – CMP, CMP\_SOURCE, CMP\_WEB

**APEX** **Server Details:**

**MS SQL Application Server**

* QA : USW04AP436
* Production : US194AP162

**Database Servers**

**Oracle server:**

* DEV/QA : SCORPION\_GDWV2
* Production : SOLAR\_GDWP2
* Schemas – APEX2 - for Prod, PEXDEV2 FOR DEV AND PEXQA2 FOR QA

**MS SQL Server:**

* DEV/QA : USW04DB462
* Production : US194DB162
* Schemas – PEX

**Analyzer Server Details:**

**Web/SSIS Application Server**

* QA : TWE67WB50
* Production : TWE67WB01

**SQL/SSAS Servers**

**MS SQL Server:**

* DEV/QA : TWE67AP50
* Production : TWE67AP01

**SSAS Server:**

* DEV/QA : TWE67AP50
* Production : TWE67WB01

# Assumptions

1. It is assumed that Indirect Sales allocation data for current fiscal year be corrected in all system using new allocation process.
2. It is expected that DND can change their rules to give OEM at customer number level, since CMA application work in customer number level. If OEM Customer number is not provided by DND then the logic of finding maximum sale customer number will be applied while allocation.
3. It is assumed that Auto/ICT (or other BU that uses current CMA system) have rules created in advance before fiscal month start. Currently rules are only published 2 months later for Auto Business Unit.
4. It is expected that Indirect Allocation data generated in CMA application will be slightly different to Analyzer application (POS Data changes could be bigger) because of precedence level in considering additional rule type. Similarly even Auto Indirect Sales application allocation in combined CMA application with rules for multiple BU’s will be slightly different than today.
5. Currently Jan 2017 Direct Sales to CM results in Feb 2017 Indirect Sales from CM to OEM. The new proposal changes Jan 2017 Direct Sales to CM into Jan 2017 Indirect Sales from CM to OEM. It is assumed that downstream application can absorb this change in dates. This is one of the requirement.
6. This proposal assumes that customer program ‘F’ and ‘K’ data will result in data increase in GBL\_CMA table. This is because of loading CMA data for more Business Unit like DND, IND etc. and also GBL\_CMA will get CMA data grouped by week and not month as is done currently. It is also assumed that downstream application can absorb this change in number of rows. For example, if Reseller A sells OEM B Part P 5 times in a fiscal month with 2 sale in first week and 1 sale each in next 3 weeks, in a new proposed solution there will be 4 rows in GBL\_CMA instead of 1 row which is done now.
7. CMA Allocation is currently done by looking at direct sales monthly DataMart. In order to accommodate requirement to see daily data, it is assumed that CMA allocation be done by looking at transactional data from COSB.
8. Some resellers are sending POS data through Model M.  This POS billing data will be shown as billing indirect sales. In addition, the CMA rules (OEM mapping rules) will be applied to generate the booking data based on the direct sales to the reseller.  Most of the resellers will be distributors; however, this could include at least one subcontractor, ECI. Some OEM accounts also report POS data and will be included.
9. Indirect Sales booking data will not be available in TED and other downstream application since no DataMart changes are planned for Indirect Sales. Adding new Indirect Sales daily DataMart will be huge cost.
10. There is no restriction on OEM to be attached to rules. For e.g. AUTO BU can allocate to DND OEM.
11. Users cannot create rule for future fiscal month.
12. Historical rules can be entered in excel using ‘Incremental Mode’ for all months in current and previous fiscal year. Historical rules could be for existing or new CM.
13. Indirect Sales data (Customer Program ‘F’) generated from TE direct sales data should have link to direct sales.
14. Reporting shown within CMA database is based on most recent approved rules for bookings and billings for All BUs.
15. Changes related to JDA (for DND) are out of scope in this project. If this needs to be considered there will be scope change.
16. Changes related to Frank database (for DND) in Sales Reporting is out of scope for this project. Any changes required for that database needs to be made directly by Frank and his team.
17. DND can convert the existing OEM mapping file into CMA Excel import template.
18. Some of DND rule type name will be changed to existing rule type name in CMA if rule types are common.

# Open Questions

* How to identify what OEM rules will flow to Analyzer and what will be used by CMA.
* Reseller table has customer account number. Some customer at WW level are not sending POS data but we may not have covered all customers in that WW. This table has details of reseller ship to while DND gives reseller sold to.
* Alternate Sales Territory logic – Yet to discover
* Reseller Org ID is not supplied by DND.  This will create a challenge as to what rule needs to be sent to Analyzer and what can remain. Discussed with Annie today.
* Logic for coming up with OEM Company Account number. Should we use based on sale or based on region etc.
* Customer Program ‘K’ Third Tier. How to generate the bookings data.
* All rules can be entered using online screen or excel import. Rules added using screen need to go through specific combination of reseller sold to and reseller ship to. How can we add WW based rules when we need specific customer (reseller sold to) to enter rules.

# Transaction Design

|  |  |
| --- | --- |
| **Sr.no** | **CMA** |
| 1 | Common repository for storing all rules for all Business Unit. Currently rules are stored in 4 different applications – APEX, CMA, Analyzer and SFDC (JDA?). As part of the redesign all rules will be entered via CMA and will be stored only in CMA application. CMA application will generate indirect sales which will be exposed to all applications – APEX, Analyzer, SFDC (JDA?) and TED and its downstream applications.    (Changes in Object will be given in detail during Development phase)  New Tables shall be created to store common rules CMP\_ALLOCATION\_RULES |
| **2** | Common logic and repository to create Indirect Sales Allocation data and store this data in TED.  Allocation Rules will be stored in CMA application and derived allocation will be used in all 4 applications. Rules will be applied on Direct Sale depending on Rules Precedence, OEM Profit Center, Reseller Profit Center and BU which entered rules. Rules are applied to transactional direct sales data while third tier rules are applied to POS data sent by Distributors.  **Please refer Section 4.5.6 in FDD on how Allocation will be done**  (Changes in Object will be given in detail during Development phase) |
| **3** | The Indirect Sales Billings from CMA application will be available in TED application weekly. This information will be made available in weekly and monthly Indirect Sales DataMart.  The Indirect Sales Bookings data from CMA application will NOT go to TED and its associated DataMart.  (Changes in Object will be given in detail during Development phase) |
| **4** | Pricing, Sales and other teams should see same CMA data.  Same CMA Data means Indirect Sales data that came out of marrying Direct Sale to Rule. With common algorithm they would see only one source of data. User can out filter for data. Going onwards every other system shall get same data from CMA application. However, each system may have different method to convert currency, exchange rate, date of conversion, base UOM or sale UOM and customized filters that can make data little different.  (Changes in Object will be given in detail during Development phase) |
| **5** | Daily rule creation/update/delete (If Required)  Allocation rules can be created/updated in CMA application using screen or incremental excel import. Allocation rules can be uploaded by authorized user for current or any historic months for current or previous fiscal year. Allocation rules can be deleted using screen only. At present Anita Snyder has an access to update the rules from backend on demand from Users. She can update rules up to 22 months back and henceforth the Indirect Sale in GBL\_POS will be updated. The validations for uploading rule will be same as for rule entry from online screen.  (Changes in Objects will be given in detail during Development phase)  **Mockup screen for creating/updating/deleting rules:(This will Updated with actual screen shot in later stages)**    Proposed Changes:   * This page should also display uploaded rules through Excel * Optimize loading of allocation rules improve page performance * Add Month dropdown field   + Current fiscal month will be the default value   + The system will display CM allocations for the selected month   + Only users with CMP\_SUPER\_ADMIN\_ROLE access are allowed to update historical data * Allow the user to search for a Contract Manufacturer * Allow the user to only display the list of Contract Manufacturer with allocations for a specific OEM account   + Add OEM text field before the CM Sold dropdown box   + Add Search tool beside the OEM text field   + If the OEM field is blank,     - For AUT/ICT, the system will display all CMs under the user’s territory with billings for the current month     - For Non-Transportation, the system will display all CMs with billings for the current month   + When the user enters a valid OEM account, the system will populate the CM Sold To dropdown with CM accounts that have allocations to the OEM * Allocation rule change and approval process will be retained for AUTO/ICT * Users with “Reseller Access” role will be able to see Contract Manufacturers not under their territory. Rules defined for the customer will be read-only but the user is allowed to create new rules. * Allocations table   + Add WW Account Number column   + When the user clicks the corresponding Edit button of an existing rule     - Display the allocation rule details in Allocation Rule section in update mode * Allocation Rule section   + Add Rule Type dropdown box and populate it with the following values:     - CUSTOMERXREF     - PART     - WWAC+PN     - PN     - PRODCODE     - PRODLINE     - PRODFAM     - ALL      * + When updating an existing rule     - Allocation rule details should be displayed     - AUT/ICT users are only allowed to select OEM accounts belonging to their region     - User is only allowed to change the OEM details     - When the Save Rule button is clicked, validate rule details. If rule is valid, update allocation rule tables.     - For AUTO/ICT, the approval process is retained, for other BUs, replace the existing rule with the new rule.     - If there are conflict in Rule within the BU, send the list of Conflicts in excel file to the user.   + When creating a new rule     - When the user selects an item from the Product Code list box, set the value of Rule Type dropdown box to ‘PRODCODE’     - When the user selects an item from the Product Line list box, set the value of Rule Type dropdown box to ‘PRODLINE’     - When the user selects an item from the Product Family list box, set the value of Rule Type dropdown box to ‘PRODFAM’     - When the user selects ALL in any of the list boxes, set the value of Rule Type dropdown box to ‘ALL’     - When the user clicks the Set Filter button and Rule Type has not been selected, display the message ‘Rule Type must be selected’. Otherwise, validate required fields based on the selected Rule Type       * If the selected Rule Type is ‘CUSTOMERXREF’ and customer part number has not been selected, display the message ‘Customer Part Number must be selected’       * If the selected Rule Type is either ‘’PART’ or ‘PN’ and part number has not been selected, display the message ‘TE Part Number must be selected’       * If the selected Rule Type is ‘PRODCODE’ and Product Code has not been selected, display the message ‘Product Code must be selected’       * If the selected Rule Type is ‘PRODLINE’ and product line has not been selected, display the message ‘Product Line must be selected’       * If the selected Rule Type is ‘PRODFAM’ and product family has not been selected, display the message ‘Product Family must be selected’       * If the selected Rule Type is ‘WWAC+PN’         + If WW Account number is missing, display the ‘WW Account Number is a mandatory field’         + If TE Part Number has not been selected, display the ‘TE Part Number must be selected’     - If all mandatory fields are available, display the Total Current Month Sales and Unallocated Sales Amounts and OEM section.       * When the Save Rule button is clicked, validate rule details. If rule is valid, insert new rule in allocation rule table.       * In case of conflict within BU send the list of conflict in the excel file to user. |
| **6** | Rules entry using full/incremental excel should be done by user based on their security. Excel import should have same validation as online entry of the rules. Full excel import should be available in current month only. For historical month, only incremental excel import option will be available.  Rules can be imported using pre-defined excel import format  Admins in BU where there is no approval process and accessible to all sales engineer where BU has approval process.  The rule excel file should have all the data which is affected and not affected with delta. For excel upload the same validations will be applicable. Rules which are not valid, the notification will be sent to user who tried to enter rules.  **Upload Rules:**    Proposed Changes:   * Add Upload Type dropdown box to display the following values.   + Full   + Incremental (Default) * Profit Center Group dropdown with display the user’s BU. If the user is allowed to upload for multiple BUs, the first item on the list will be the default value. * Add Month field to allow user to update rules for a specific month from the last fiscal year to the current fiscal year * Remove the ‘Download’ button * Only users with CMP\_SUPER\_ADMIN\_ROLE access are allowed to update historical data * When the user selects the Upload button,   + Truncate CMP\_ALLOCATION\_RULES\_PRE\_STG table   + Upload all rules to CMP\_ALLOCATION\_RULES\_PRE\_STG table   + For AUTO/ICT users, approval process should be applied if the user is not any of the following: BU Admin, CMA owner, CMA support group     - If the Upload Type is ‘Full’       * Validate each rule         + Ignore rule if it is for a Restricted Part         + If the Customer account is available for the rule and not yet available in CMA   If it exists in DPS.RESELLERS table and the delete flag is null, mark the rule as invalid and set the comment to ‘Customer already defined as a Reseller in Global POS and cannot be defined as a CM in CMA’. Proceed to the next rule.  Otherwise, validate the other fields based on the rule type   * + - * + If all fields are valid, mark the rule as valid and validate the next rule         + Otherwise, add to list of invalid rules       * After validating all rules and if there are valid rules,         + Delete all current month’s rules for the selected BU from CMP\_ALLOCATION\_RULES and mark those rules in CMP\_ALLOCATION\_RULES\_STG as deleted         + Insert the new rule to CMP\_ALLOCATION\_RULES\_STG         + Insert the new rule to CMP\_ALLOCATION\_RULES     - Otherwise, verify each rule if it’s to be added, updated or deleted       * If the Customer account is available for the rule and not yet available in CMA         + If it exists in DPS.RESELLERS table and the delete flag is null, mark the rule as invalid and set the comment to ‘Customer already defined as a Reseller in Global POS and cannot be defined as a CM in CMA’. Proceed to the next rule.         + Otherwise, validate the other fields based on the rule type       * If the rule is not yet existing in CMP\_ALLOCATION\_RULES table, validate the rule         + If all fields are valid, set the status to ‘N’ and proceed to the next rule         + Otherwise, add to list of invalid rules       * If the rule exists in CMP\_ALLOCATION\_RULES table and the new Allocation % is 0, set the status to ‘D’ (delete).       * If the rule exists in CMP\_ALLOCATION\_RULES table and the Allocation % is not equal to 0, validate the new rule         + If the rule is valid, set the status to ‘’U’ (update) and save the rule\_id of the current rule. Validate the next rule         + Otherwise, add to list of invalid rules       * After validating all rules and if there are valid rules,         + For new rules (STATUS = ‘N’)   Insert the new rule to CMP\_ALLOCATION\_RULES\_STG  Insert the new rule to CMP\_ALLOCATION\_RULES   * + - * + For updated rules (STATUS = ‘U’)   If the OEM is from AUT or ICT BU  Add the new rule and old rule to the list of rule change for approval  Send approval notification to the OEM associated GAM.  The existing rule should be marked as updated in the Allocate CM Sales to OEM screen  Otherwise  Mark the old rule in CMP\_ALLOCATION\_RULES\_STG as deleted  Delete the old rule from CMP\_ALLOCATION\_RULES  Insert the new rule to CMP\_ALLOCATION\_RULES\_STG  Insert the new rule to CMP\_ALLOCATION\_RULES   * + - * + For deleted rules (STATUS = ‘D’)   If the OEM is from AUT or ICT BU  Add the rule to the list of rule change for approval  Send approval notification to the OEM associated GAM.  Otherwise  Mark the rule in CMP\_ALLOCATION\_RULES\_STG as deleted  Delete the rule from CMP\_ALLOCATION\_RULES   * + - * + If there are rule conflicts, add to the of rule conflicts list       * Send the invalid rules file to the user if available       * Send the list rules conflict to the user if available   + For DND/other BU users     - If the Upload Type is ‘Full’       * Validate each rule         + If the Customer account is available for the rule and not yet available in CMA   If it exists in DPS.RESELLERS table and the delete flag is null, mark the rule as invalid and set the comment to ‘Customer already defined as a Reseller in Global POS and cannot be defined as a CM in CMA’. Proceed to the next rule.  Otherwise, validate the other fields based on the rule type   * + - * + If all fields are valid, mark the rule as valid and validate the next rule         + Otherwise, add to list of invalid rules       * After validating all rules and if there are valid rules,         + Delete all current month’s rules for the selected BU from CMP\_ALLOCATION\_RULES and mark those rules in CMP\_ALLOCATION\_RULES\_STG as deleted         + Insert new rules to CMP\_ALLOCATION\_RULES\_STG         + Insert new rules to CMP\_ALLOCATION\_RULES     - Otherwise, verify each rule if it’s to be added, updated or deleted       * If the Customer account is available for the rule and not yet available in CMA         + If it exists in DPS.RESELLERS table and the delete flag is null, mark the rule as invalid and set the comment to ‘Customer already defined as a Reseller in Global POS and cannot be defined as a CM in CMA’. Proceed to the next rule.         + Otherwise, validate the other fields based on the rule type       * If the rule is not yet existing in CMP\_ALLOCATION\_RULES table, validate the rule         + If all fields are valid, set the status to ‘N’ and proceed to the next rule         + Otherwise, add to list of invalid rules       * If the rule exists in CMP\_ALLOCATION\_RULES table and the new Allocation % is 0, set the status to ‘D’ (delete).       * If the rule exists in CMP\_ALLOCATION\_RULES table and the Allocation % is not equal to 0, validate the new rule         + If the rule is valid, set the status to ‘’U’ (update) and save the rule\_id of the current rule. Validate the next rule         + Otherwise, add to list of invalid rules       * After validating all rules and if there are valid rules,         + For new rules (STATUS = ‘N’)   Insert the new rule to CMP\_ALLOCATION\_RULES\_STG  Insert the new rule to CMP\_ALLOCATION\_RULES   * + - * + For updated rules (STATUS = ‘U’)   Mark the old rule in CMP\_ALLOCATION\_RULES\_STG as deleted  Delete the old rule from CMP\_ALLOCATION\_RULES  Insert the new rule to CMP\_ALLOCATION\_RULES\_STG  Insert the new rule to CMP\_ALLOCATION\_RULES   * + - * + For deleted rules (STATUS = ‘D’)   Mark the old rule in CMP\_ALLOCATION\_RULES\_STG as deleted  Delete the old rule from CMP\_ALLOCATION\_RULES   * + - * + If there are rule conflicts, add to the of rule conflicts list       * Send the invalid rules file to the user if available       * Send the rule conflict file to the user if available |
| **7** | Excel Download process for rules accessible to all.  In current CMA system there is security/validation for uploading rules. Same security/validation should be applicable for downloading the rules. The user download the rules based upon the security and business unit they select.  User can download rules based on their security into Excel  For e.g. Auto CMA Sales Engineer can download rules attached to all the sold to resellers they have permission for.  Similarly Auto OEM Sales Engineer can download rules for the OEM that are attached to the sold to reseller they can see.  Similarly DND administrator can see all the Resellers that have sales territory within DND and other resellers belonging to other BU that they have permission to see.   * User can download current and previous month’s (current and previous fiscal year) rules. * User can download Utilized or Unallocated rules for one or multiple months. * Download will be for full data for that particular rule type. For example, if user selected OEM for downloading rules, all rules having that particular OEM (or some allocation for that OEM) will be downloaded. For example in the example below OEM1 and OEM3 will also get downloaded.   SubCon1 Part A OEM1 50%  SubCon1 Part A OEM2 30%  SubCon1 Part A OEM3 20%   * The downloaded excel spreadsheet will be in same format as the upload excel rule spreadsheet so user can easily update it to upload rules in CMA.   **The mock up screen design for download rules**     * This new screen will allow users to download allocation rules and conflicts based on the given criteria * The Data to Download dropdown will display the following options:   + Allocation Rules   + Utilized Allocation Rules   + Unused Allocation Rules   + Rule Conflict * The following fields are mandatory   + Data to Download   + Month     - Set the current month as the default value   + Profit Center Group * When the user click the Download Rules button, check the value of Data to Download field   + If the selected value is ‘Allocation Rules’, the system will generate an excel file with allocation rules based on the provided criteria and will be sent to the user.   + If the selected value is ‘Utilized Allocation Rules’, the system will generate an excel file with utilized allocation rules for the selected Month and Profit Center Group and will be sent to the user.   + If the selected value is ‘Unused Allocation Rules’, the system will generate an excel file with unused allocation rules for the selected Month and Profit Center Group and will be sent to the user   + If the selected value is ‘Rule Conflict’, the system will generate an excel file with rule conflicts based on the provided criteria There will be 2 sections     - Approved/Unapproved Rule Conflict     - Indirect sales Conflict   + The user can download the report by selecting the Download button     For example   * 1. Auto CMA Sales Engineer can download rules attached to all the sold to resellers they have permission for.   2. Similarly, Auto OEM Sales Engineer can download rules for the OEM that are attached to the sold to reseller they can see. * Similarly DND administrator can see all the Resellers ~~that have sales territory~~ within DND (DND Administrator will be a global admin) and other resellers belonging to other BU that they have permission to see. * Rules that have rule type of ‘WW+PN’ or ‘PN’ that does not have Reseller Sold To should also be able to be download per logic discussed below * If WW contain any reseller that user has access to (WW+PN”) * if Part mentioned in rule that has sale to reseller for that month that user can access to ‘PN’   The downloaded rule excel format will be same as uploaded rule excel file so user can easily use it by modifying the rule data to re-upload in CMA. |
| **8** | Rules to be created online on screen.  This is an existing feature of CMA. The screen design will get changed as per the rule excel template. New screens will be provided for adding new rules. This screen can be used by all Sales Engineer. The same validations of excel upload will be applied while adding rules from screen. This screen will be useful for Rules which doesn’t have reseller\_sold\_to customer information like ‘Part’ and ‘WWAC+PN’ rule type.  This screen can be used by all Sales Engineer.  There will no validations while adding rules from screen.  Using this screen SE can add allocation to more than 1 OEM.  **-**  **Mockup screen for adding new rule**     * This new page allows the user to define allocation rules for the selected Profit Center Group and fiscal month * The following fields are mandatory for all rule types:   + Rule Type   + OEM Customer Account Org ID   + OEM Customer Account No   + Allocation %   + Responsible Person * The Profit Center Group dropdown with display the user’s BU. * The Rule Type dropdown will display the following values   + CUSTOMERXREF   + PART   + WWAC+PN   + PN   + PRODCODE   + PRODLINE   + PRODFAM   + ALL * For users with CMP\_SUPER\_ADMIN\_ROLE, the Month field will display months from last fiscal year to current fiscal year. otherwise, this field will display the current month * For CUSTOMERXREF rule type, the following fields are mandatory   + Customer Part Number   + Customer Sold To Account Org ID   + Customer Sold To Account No * For PART rule type, the following fields are mandatory   + Customer Sold To Account Org ID   + Customer Sold To Account No   + TE Part No * For WWAC+PN rule type, the following fields are mandatory   + WW Account Number   + TE Part No * For PN rule type, TE Part No is mandatory * For PRODCODE rule type, the following fields are mandatory   + Customer Sold To Account Org ID   + Customer Sold To Account No   + Product Code * For PRODLINE rule type, the following fields are mandatory   + Customer Sold To Account Org ID   + Customer Sold To Account No   + Product Line * For PRODFAM rule type, the following fields are mandatory   + Customer Sold To Account Org ID   + Customer Sold To Account No   + Product Family * For ALL rule type, the following fields are mandatory   + Customer Sold To Account Org ID   + Customer Sold To Account No * When the user click the Add button, valid all fields   + If fields are valid for the selected rule type, check if the rule already exists.     - If the rule exists with the same exact details, inform the user that the rule is already existing     - If the rule exists but if any of the following is different, display the existing rule and verify with the user if he wants to replace the existing rule       * OEM Customer Org ID       * OEM Customer Account ID       * Allocation %       * If the user confirms the update,         + Mark the old rule in CMP\_ALLOCATION\_RULES\_STG as deleted         + Delete the old rule from CMP\_ALLOCATION\_RULES         + Insert the new rule to CMP\_ALLOCATION\_RULES\_STG         + Insert the new rule to CMP\_ALLOCATION\_RULES     - If the rule does not exist, add the new rule to the allocation rules table       * Insert the new rule to CMP\_ALLOCATION\_RULES\_STG       * Insert the new rule to CMP\_ALLOCATION\_RULES |
| **9** | Incremental upload to be supported  For example if currently as one of the rule  SubCon1 Part A OEM1 50%  SubCon1 Part A OEM2 50%  Suppose, there is a need to change this rule to following for next fiscal month (no other rule need to change)  SubCon1 Part A OEM1 50%  SubCon1 Part A OEM2 30%  SubCon1 Part A OEM3 20%  All three OEM of Part A for this rule still need to be sent in incremental load. If SubCon2 doesn’t have any changes then there is no need to upload its rule.  The Audit log history will be maintained for incremental upload. |
| **10** | Validation process when using excel Upload through excel.  There will be Mandatory Rules Excel Fields validations while uploading rules.  There will be data validations depending on Transportation and Non Transportation BU while saving rules in CMA Application.  Normal user can update rules of previous months with rule excel upload.  Based on user uploading the rules, system will display the BU (in Profit Center Group level) in read only mode if there is only 1 BU assigned to that user.  If multiple BU assigned to the user, he/she may have to select profit center group that they are adding rules for.  If the rule do not contain Reseller Org Id (DND rule does not contain reseller org Id) then the rule will apply to all Org’s that have been extended for the customer.  If mandatory fields are not mentioned in rules (for example DND may not mention OEM Customer Account Number)  Below are mandatory fields and validation:    Rules that does not include OEM Sold-to account (DND rules) following logic will be used to find a sold-to account for the OEM allocation.   * Check for OEM customer number in OEM mapping file. * If not found in OEM mapping file then check in existing rule list for 'WWAC' type and take the WW account number for that OEM * If OEM WW found then try to find OEM customer number within that WW * Pro-rata sale for all OEM customer numbers within DND OEM in indirect sales for that part in last 12 month.   For example  Rule is If Sanmina purchased a part then 100% allocation for DND OEM is HP.  Logic will find all HP customer account number that purchased the part through Sanmina. If first HP  Customer account number purchased 100 Qty in last 12 month and second HP customer account number purchased 200 quantity in last 12 month, then divide allocation pro-rata by assigning 33% allocation to first customer account number and 66% allocation to second customer account number.   * If not found in **'WWAC'** rule type go look in 'Customer' Rule type. Check for mapping for OEM and customer account number. * If found in **'Customer'** rule type use that to find direct sale based on reseller sold to and part and apply rule to that sale. * It should be there in either **'WWAC'** or **'Customer'** rule type if not then user needs to provide that. * If there are more than 1 customer account number with same sale amount then the first account number will be picked up. **But we need to understand how Ruby ot Tracy judge which OEM customer account number to select.**   1. If 12 month sale is not available, then the system will check for an OEM account within the same WW at the Regional level. * If an OEM Sold to account exists, use the sold to and company org to then check the part number purchased.   1. If the part is also extended in the same company org then the allocation can be made. * If an OEM account cannot be identified within the same Region, then check globally for any OEM account within the same WW. * If an OEM Sold to account exists, use the sold to and company org to then check the part number purchased. * If the part is also extended in the same company org then the allocation can be made. * If an OEM account cannot be identified globally, then the allocation will be made to any Sold-to within that   OEM WW.   * If Company Org is not provided then org id from Billing data will be used to find the OEM Sold-to Account   Number.  For each level (Company Org, Region, Global) the allocation will be made across all OEM sold-to account numbers.  **Validations on Mandatory Fields of Rule Excel** (in progress)  There are some validations on mandatory fields   * The following fields are mandatory for all rule types:   + Rule Type   + OEM account number   + Allocation % * For CUSTOMERXREF rule type , customer part number and customer account are mandatory * For PART rule type, customer account and PN are mandatory * For WWAC+PN rule type , WW account number and PN are mandatory * For PN rule type, PN is mandatory * For PRODCODE rule type, customer account and Product Code are mandatory * For PRODLINE rule type, customer account and Product Line are mandatory * For PRODFAM rule type, customer account and Product Family are mandatory * For ALL rule type, customer account is mandatory * OEM Account must be existing in GBL\_ALL\_CUST\_SHIP\_TO table * Customer account must be existing in GBL\_ALL\_CUST\_PURCH\_BY table * WW Account must be existing in GBL\_CUSTOMER\_WORLDWIDE table * Part Number must be existing in CORPORATE\_PARTS table * Customer Part Number must be existing in CUSTOMER\_PART\_XREFS table * Product Code must be existing in GBL\_PRODUCT table * Product Line must be existing in GBL\_PRODUCT\_LINE table * Product Family must be existing in GBL\_PRODUCT\_FAMILY table * New customers existing in DPS.RESELLERS table with delete flag as null are not allowed to be added in CMA * Ignore rules if the WW account of customer is the same with the WW account of OEM. If DND provide such rules, CMA application will not use those rules but Analyzer application will use the rule. * Ignore rules if rules are based on OEM customer * Ignore rules if the direct sales to sub-con is based on agreement where key customer of agreement is OEM. * For AUTO/ICT, ignore rules related to Restricted Parts since we will still use the current allocation process * AUTO/ICT SEs can only allocate to OEM accounts in the same sales territory. Approval process for changing existing rule remains same. * AUTO/ICT Administrator (2nd level security) can allocate OEM account within same region * DND Administrator (3rd level security) can allocate OEM account at global level. * Only users with CMP\_SUPER\_ADMIN\_ROLE are allowed to delete/update historical data * There’s no OEM restriction for all Bus * Non-Transportation BU OEM SEs should be allowed to upload rules for their accounts regardless of CM BU * Users are now allowed to create rules on screen for part numbers with no sales for the current month * If OEM Ship To is not provided by D&D then OEM sold to will become OEM ship to as well.   The new excel template will look like as attached |
| **11** | Verification/notification process on any potential conflicts in the uploaded file. This process will find any conflict in the rules added/updated/deleted.  At present different systems are maintaining rules in their system but with redesign all application rules will be saved at one place so there will be chance of overwriting the rules with which is already present in system entered by some other BU. This is called conflict in rules. Conflicts can be of two kinds, one which we can resolve by system based on given algorithm and second which cannot be resolved by system. In case of Conflicts the notification will be sent out to user who has entered rule via email.  Example:  For cross BU  DND Rule ‘Customer+PN’ have Hoo Chin Electronics (0001319925) selling TE Part 7-215083-4 to Mexico and APL rule ‘Customer+PN’ have Hoo Chin Electronics (0001319925) selling TE Part 7-215083-4 to Electrolux Thailand. There are 2 rules for same reseller and part number with different OEM, the email will be sent out to user who entered rules to resolve the conflict.  **Validations while uploading Rule Excel in CMA Application**  While uploading rules in CMA application below validations will take place   * For Transportation Users, the approval process should be applied if the user is not any of the following : BU Admin, CMA Owner, and CMA Support Group * If upload type is “Full”   + Validate each rule     - Ignore rule if it is for Restricted Part     - If the rule is valid, set the status to ‘’D’ (deleted) and validate the next rule     - If the Customer account is available for the rule and not yet available in CMA then check if it exists in Reseller table with null delete flag, the rule will be marked as Invalid and comment will be added in invalid excel rule list as “Customer already defined as a Reseller in Global POS and cannot be defined as a CM in CMA”.     - If all fields are valid, mark the rule as valid and validate the next rule     - Otherwise, add to list of invalid rules   + After validating all rules if there are valid rules * The current month’s rules will be deleted from database Rules table. * The new rules will be added in database Rules table. * If upload type is “Incremental” i.e. if rule is to be added, updated or deleted * If the Customer account is available for the rule and not yet available in CMA then check if it exists in Reseller table with null delete flag, the rule will be marked as Invalid and comment will be added in invalid excel rule list as “Customer already defined as a Reseller in Global POS and cannot be defined as a CM in CMA”. * If the rule is not yet existing in Allocation Rules table, validate the rule * If all fields are valid, set the status to ‘N’ and proceed to the next rule * Otherwise, add to list of invalid rules * If the rule exists in Allocation Rules table and the new Allocation % is 0, set the status to ‘D’ (deleted). * If the rule exists in Allocation Rules table and the Allocation % is not equal to 0, validate the new rule   + If rule is valid, set the status to ‘U’ (Update) and save the rule.   + Otherwise, add to list of invalid rules * After validating all rules, * For new rules (Status =‘N’), the rules will be added in database tables. * For updated rules (Status =’U’), * If OEM is from AUTO/ICT BU,   The new rule will be added and old rule will be added to list of rule change for approval, approval notification will be sent out to OEM associated GAM, and the existing rules should be marked as updated in Allocate CM Sales to OEM screen.   * Otherwise   The old rule will be marked in Staging Rules table as deleted, old rules will be deleted from rules table, new rules will be added in Rule tables.   * For deleted rules (Status =‘D’), * If OEM is from AUTO/ICT BU,   The rules will be added to the list of rule change for approval, Email approval notification will be sent out to OEM Associated GAM   * Otherwise   The existing rules should be marked as deleted in Staging Rule table and delete from Rules table.   * Send invalid and/or conflict rules file to the user thru email notification.      * For Non-Transportation BU Users, * If Upload type is “Full” * Validate each rule * If the Customer account is available for the rule and not yet available in CMA then check if it exists in Reseller table with null delete flag, the rule will be marked as Invalid and comment will be added in invalid excel rule list as “Customer already defined as a Reseller in Global POS and cannot be defined as a CM in CMA”. * If all fields are valid, mark the rule as valid and validate the next rule * Otherwise, add to list of invalid rules.   + After validating all rules if there are valid rules * The current month’s rules will be deleted from database Rules table. * The new rules will be added in database Rules table. * If Upload type is “Incremental” i.e. if rule is to be added, updated or deleted * If the Customer account is available for the rule and not yet available in CMA then check if it exists in Reseller table with null delete flag, the rule will be marked as Invalid and comment will be added in invalid excel rule list as “Customer already defined as a Reseller in Global POS and cannot be defined as a CM in CMA”. * If the rule is not yet existing in Allocation Rules table, validate the rule * If all fields are valid, set the status to ‘N’ and proceed to the next rule * Otherwise, add to list of invalid rules * If the rule exists in Allocation Rules table and the new Allocation % is 0, set the status to ‘D’ (delete). * If the rule exists in Allocation Rules table and the Allocation % is not equal to 0, validate the new rule * If the rule is valid, set the status to ’U’ (update) , save the rule and validate the next rule * Otherwise, add to list of invalid rules * After validating all rules, * For new rules (Status =‘N’) the rules will be added in database tables. * For updated rules (Status = ‘U’) * The old rules will be marked as Deleted in Staging Rule database table. * The old rules will be deleted from main Rules database table. * The new rules will be added in main and staging Rules database table. * For deleted rules (Status =‘D’), * The old rules will be marked as deleted in Staging Rule database table. * The old rules will be deleted from main Rules database table. * Send invalid and/or conflict rules file to the user thru email notification.   These Validations may get changed after finalized design.  **Conflicts in Allocation**  Conflict will occur when there are two rules in CMA for same reseller and same part number/Prodcode/Prodfamily/Customerxref/ALL ,two different OEMs belonging to different WORLD WIDE  Below are the few scenarios for collision for different rule types :          **Result**: Duplication of rules (Collision) – No Allocation  **Action:** Email will send to users who entered the rule for both BUs and they need to align and one of the BU need to delete its rule from CMA Application  (Detailed Technical Solution Will be Provided in Later Stages) |
| **12** | Deletion of CM account should be fast process  In current CMA system in order to delete CM, Administrator has to delete rules defined for CM (if exist). For AUTO/ICT only, the deleted rules needs to be approved by GAM. After deleting rules the CM will be soft deleted and the allocation for current month (if exist) will be deleted else it will delete allocation for previous months. The data in Analyzer and APEX applications will be reflected on next day if the CMs are removed, and in TED a month later.  In CMA Redesign the screen design will be changed to make the deletion process easier.  **The mock up screen design for Delete CM**     * Currently, users need to delete all rules defined for the CM account before they can remove the CM from the system. This new screen will make the deletion of CM accounts and allocation rules easier for the user. * Only CMA Administrators can delete a contract manufacturer * Only users with CMP\_SUPER\_ADMIN\_ROLE access are allowed to delete historical data   + - * They can delete allocation rules from the last fiscal year to current fiscal year * The Data to Delete dropdown will display the following values:   + - * Contract Manufacturer       * Allocation Rules * When the user set the **‘Data to Delete’** dropdown to ‘Contract Manufacturer’, the CM Ship To Account Number and month fields will be disabled. * When the user set the Data to Delete dropdown to “Allocations Rules’, all fields will be enabled * The name of the CM Sold To customer will be displayed after the user enter a valid CM Sold To Account number. * The name of the CM Ship To customer will be displayed after the user enter a valid CM Ship To Account number. * The following fields are mandatory   + - * Data to Delete       * CM Sold To Account No * When the user click the Delete button, validate mandatory fields   + - * If the Data to Delete is not provided, display the ‘Please select the data to be deleted’ message       * If CM Sold To Account No is blank, display the message ‘Please provide a valid CM Sold To Account Number’       * If all mandatory fields are available * If the selected value is ‘Contract Manufacturer’, check if CM Sold to account is available.   + If CM Sold To field is blank, display the message ‘Please provide a valid CM Sold To Account Number’   + Otherwise, New pop-up screen displaying all rules for that CM will be shown asking for confirmation for deletion   + If Yes, then delete all information related to the CM Sold To Account from CMA application * Delete booking and billing transactions * Mark all allocation rules in CMP\_ALLOCATION\_RULES\_STG as deleted * Mark allocations in CMP\_DAILY\_ALLOCATIONS\_STG table as deleted * Delete allocations from CMP\_DAILY\_ALLOCATIONS table * Delete allocation rules from CMP\_ALLOCATION\_RULES as deleted * Mark the CM account in CMP\_CONTRACT\_MANUFACTURERS table as deleted * Display a message that the CM has been deleted from CMA      * + If No, then go back to delete screen without doing any action. * If the selected value in Data To Delete field is ‘Allocation Rules’, validate fields   + If CM Sold To field is blank, display the **‘Please provide a valid CM Sold To Account Number’** message. Otherwise, validate the next field.   + If Month fields are blank, display the message ‘Please specify the starting and ending fiscal months’. Otherwise, delete all defined allocation rules for the provided criteria   + Display a message that rules are deleted |
| **13** | Daily, weekly and monthly reporting of Billing, Booking and Backlog Indirect Sales Allocation data to Analyzer.  Weekly reporting of Billing and Booking Indirect Sales Allocation data to APEX.  Weekly and monthly reporting of Billing Indirect Sales Allocation data to TED.  Currently the Indirect Sale is made available on monthly basis. In redesign the data will be available on daily basis to GBL\_CMA\_Billing\_Daily table for Billing, GBL\_CMA\_Booking\_Daily for Booking and GBL\_CMA\_Backlog\_Daily for Backlog data. As per TED, the billing data will be moved to GBL\_CMA table. Bookings and Backlog data will not be coming to GBL\_POS view. |
| **14** | Daily restating (Re-Calculating) of the data based on most recent rules (previous day) for the current fiscal month (Rules to be applied daily based on previous day’s billings/bookings for the entire current fiscal month) – A period for changes for fiscal month closing is allowed (official month close period).  Current restriction of not able to add rules for 5 days during TED processing of CMA data and creating DataMart should be removed.  Day before fiscal month ends, current rules for all BU (based on profit center group) will roll-forward automatically to next month.  Users cannot create rule for future fiscal month. |
| **15** | If the billing or booking transactional data changes for current or previous months (due to backed off transactions or acquisitions), CMA application should be able to reallocate transactional data.  Backed-Off and Acquisition or any mistakes in direct sales are usually sent in an email from Corporate finance.  Daily refresh of the data send to GBL\_CMA\_DAILY (incremental or delete/replace) within the current month. This daily refresh will be managed by Database job by picking up yesterday’s direct sale and create the indirect sale by applying matching rule.  Daily Batch will send the Updated Data to GBL\_CMA\_DAILY with in the current month. |
| **16** | Restating/refresh based on the most current rule only within the fiscal month.  If user change the rule on last day for September 2017 that rule will be applied on September sale. User can go back on all months within current and last fiscal year to change rules.  Daily Allocation Jobs shall run to apply rule to indirect sale data for current fiscal month and if there is any change in rule for with in current and last fiscal year that would trigger the job to do reallocation of rule data on direct sale for the months for whom rule has changed. |
| **17** | Store only one rule per fiscal month for each combination.  D&D wanted to add multiple rules in same month for same combination for different duration which is **not** possible in CMA. So in this case we have to restrict user to enter multiple rule of each combination in same fiscal month.  For example:  DND Rule ‘PART’ have Flextronics (Customer 00145853)  selling TE Part 1-1734530-3 to Alcatel added by one of the user in CMA. If the same combination of rule tries to add by other user from DND the application will show message for duplicate rule cannot be added.  If the same rule tried to upload from excel file the rule will be added in Invalid Rule file and same will be sent to user who tries to upload the rules. However, different BU can add same rule type for same combination as above without getting an error.  This is not allowed in the system as at a time one rule can exist for a fiscal month for same combination.  This validation will be at the time of excel upload file. |
| **18** | Corrections/additions to the rules and its allocation should be able to flow in from a defined fiscal month within the fiscal year (also from OEM perspective) – technically possible – recommended for a new reseller – not recommended for new OEM’s (only from current date onwards).  We add brand new rules for reseller we can go back six months and add a rule and calculate sale. But in current CMA we cannot go back and change the rules for previous month if we have changed something in OEM. With CMA Redesign it is possible to add rules for OEM perspective.  For addition of New CM and new rules for current or previous month can be done by SEs and only 6 months back rules can be changed by SEs. For existing CM, rules can be entered by SEs for current or previous month. |
| **19** | The owner of contract manufacturer can allow other users to enter the rules.  Currently users are allowed to create rules within their own sales territory.  The new design will allow the BU admin who owns contract manufacturer to allow other users from the same BU or different BU to enter the rules.  CMA Sales Engineer are allowed to enter rules for sold to reseller within their own sales territory.  Rules can be Entered/Updated by OEM Sales Engineer (AUTO/ICT) or OEM Account Manager (Appliances).  Rules can be entered for reseller by users outside their sales territory.  Rules can be entered by single person for BU. This is applicable for DND.  Reseller rules can be entered based on Alternate Sales Territory.  **Below Security structure can help in resolving same:**   * Users who are part of any sales hierarchy can access the CMA application * CMA BU Admin access * Global BU Admin Access * Users with this role can update the list of CMs for their BU * They are allowed to upload / update / delete rules for current month * They are allowed to download allocation rules / conflict * Regional Admin access * Users with this role can update the list of CMs for their BU within their region * Users are allowed to upload / update / delete rules for current month for accounts within their region * They are allowed to download allocation rules / conflict * CM Sales Engineers / Sales Managers * AUT/ICT * They are allowed to update current month’s rules for accounts under their territory by uploading the rules or thru the screen * They can delete current month’s rules for accounts under their territory * They are allowed to download allocation rules / conflict * Sensors * They are allowed to update current month’s rules for accounts under their territory / alternate territory by uploading the rules or thru the screen * They can delete current month’s rules for accounts under their territory / alternate territory * They are allowed to download allocation rules / conflict * Other BUs * OEM SEs are allowed to upload rules for their accounts regardless of CM BU * They can delete current month’s rules their accounts * They are allowed to download allocation rules / conflict * GAM access * GAMs can access all allocations reports available in CMA * AUT/ICT GAMs can accept or reject allocation rule change for OEM accounts under their territory * They are allowed to download rules for current and prior months for accounts within their region * Delegate/Approver access (AUT and ICT) * Users with this role are assigned by GAMs to handle allocation rule change approval on their behalf. * Alternate User Territory * Reseller\_Access * Users with this access are allowed to view rules for CMs assigned to them and create new rules |
| **20** | OEM Sales Engineer are allowed to enter rules based on their security.   * Rule can be entered for OEM (ICT, Industrial, and Appliance). * Rules can be Entered/Updated by OEM Sales Engineer (AUTO/ICT) or OEM Account Manager (Appliances). * Rules can be entered for reseller by users outside their sales territory. * Rules can be entered by single person for BU. This is applicable for DND.   Reseller rules can be entered based on Alternate Sales Territory. |
| **21** | Current approval process will be extended to Appliance BU that allows all users to create/update/delete the rules.  Allocation rule change for transportation sector will involve approval from OEM GAM. Without approval, the changed rules will not be applied. Changed Rule will automatically be approved if not approved in 14 days. Brand new rules on existing and new CM does not need approval.  Also if OEM is added outside of transportation sector it does not require approval.  Allocation rule change for non-transportation sector will either involve approval or no approval. Depending on business unit approval can be granted by either Sub-Contractor GAM or OEM GAM.  For e.g. “Appliance” may like approval from Sub-Contractor GAM. DND on the other hand may not need any approvals.  Rules added for new Subcontractor does not need any approvals.  The user belonging to one BU should be able to see the resellers that can attach to other BU using their sales territory.  User should be able to see the reseller which belong to their Alternate sales territory.  **Approve Allocation screen Changes to simplify the approval process**  Proposed Changes:   * Allow users to approve all allocations at once   + Add Check box to approve all allocations (GAM) at once   + Add Approve and Reject buttons * Modify this screen to use the new allocation rules table |
| **22** | Security process for different roles to support approval process for all BU’s.  Any changes happens on OEM Allocation whether the new OEM is added or OEM allocation amount got changed. It will require approval from OEM GAM (For Transportation BU) or Subcontractor GAM (Appliances BU).  If SE tries to upload rules WW level and not in his territory the GAM should approve it. Current CMA display rules on OEM based and not WW. So the screen design is required to display WW Account number.  Allocation Screen will reflect this change. |
| **23** | Hierarchy is required top down by priority between the rules.  If the first rule does not reach 100% allocation, the remaining % will be based on the following (lower hierarchical) rules by respective priority until satisfied or no rules are available. At present D&D provide 100% allocation. So if in future if they provide less than 100% allocation then above steps will be followed.  Daily Allocation Job to take care of this |
|  | **DATA** |
| **24** | Add bookings into the CMA database and make available only in Analyzer and APEX.  Billing and Bookings data will be calculated and saved in GBL\_CMA\_Daily tables for Billing and Booking respectively. Then only Billing data will be passed to GBL\_CMA table on weekly basis. Then data will be available using GBL\_POS database view to TED. Once the data reaches to GBL\_POS then there is separate weekly and monthly DataMart which will be used by all the application. Bookings data will be available only to Analyzer and APEX which will be taken from GBL\_CMA\_DAILY table and not for TED. |
| **25** | Visualize & apply the bookings for all CMA rules in the reporting in the CMA system  The same rules will be applied on bookings data which is exist for billing. If somebody changes the rule both the billing and booking data needs to be changed.   * Rule Data will be common for both billing and booking in the rule table. * Daily Job shall pick up the direct sale booking and billing data and apply common rules on them. * (More detail will be provided in the Build phase) |
| **26** | Add the bookings values into the current reporting (only in Analyzer and APEX)  CMA booking data will now be available in CMA for reporting, there will be no changes to APEX and Analyzer booking reporting. TED and SFDC will not contain POS bookings data.  New reports related to Bookings data will be part of reporting in CMA.  **Sales Allocation Review screen(This will be replaced by actual screen shot)**    Proposed Changes:   * Create the following new reports for allocated bookings   + Booking Allocation Summary Report   + Booking Allocation Detail Report * Modify existing reports based on new rules and data source |
| **27** | Third tier allocation for CM’s buying from distribution.  CMA supports rules for third tier wherein subcontractors buy from the distributor and then sell to OEM.  Those rules will be applied on POS data when distributor does not report OEM. If distributor report OEM in POS data then these rules will be ignored.  Using CMA Redesign, the DND user may update rules for Third Tier by either updating the rules thru the CMA screen or importing excel rules. On the Upload Allocation Rule screen, the user has to specify if the rules he is uploading are to be applied to TE Direct Sales or POS sales.  In CMA there are separate rules in which subcontractors are buying from the distributor. There are existing third tier rules in system. Those rules will be applied on POS data when there is no OEM mentioned and if OEM is mentioned the rules will be ignored.  After CMA Redesign the DND will start entering allocation rules for Third Tier.  This Third Tier will be coming from GPOS system. |
| **28** | The base billings & bookings data for a new CM should be available as of the next day for allocation.  Billing, booking, and backlog transactions for a new CM will be added into CMA right after adding the CM and current rules will be applied to then on the following day.  If brand new CM is added today then all billing , booking and backlog data should be available next day in GBL\_CMA\_DAILY tables and then to GBL\_CMA.  But currently in CMA it takes month to get the data to GBL\_POS. |
| **29** | Allocation rules can be applied to sub-contractor, distributor or OEM who are not sending POS data for both Bookings and Billings.  Allocation rule can be applied to Distributor who are sending POS data for Bookings only.  POS billings data sent by distributors will be used for POS Billings.  Create separate rules for ‘CM buying directly from TE’ and ‘CM buying through distribution’. Rules for ‘CM buying directly from TE’ are applied to sales transactional data while ‘CM buying through distribution’ are applied on POS transactional data supplied using Model-M.  System should not allow to create rules for customers who are supplying POS data. Corporate finance maintain database for customers who are supplying POS data. This list is maintained using individual customer account number.  System should allow rules to be created for OEM or distributors (either by itself or in combination with other dimension like Part etc.) which are not sending POS data using Model-M |
| **30** | DND rule based allocation can be segregated based on DND Region and DND sub region for Analyzer.  This will flow to GBL\_CMA\_DIALY tables and from there this can be taken by Analyzer. |
| **31** | CMA application will generate Backlog data for Analyzer application.  Backlogs will be allocated using the OEM mapping and will be accessible to Analyzer.  Backlog data will be taken from Daily Scorecard and there will be full load every day since there is no incremental data like billing and bookings. The rules will be applied on backlog data and saved calculated backlog in CMA database which will be further utilized by Analyzer for processing.  This will be available in CMA Daily backlog table for Analyzer to consume. |
|  | ***Proposed Rules Hierarchy*** |
| **33** | New Derived rule from existing DND rule and CMA rule :  CUSTOMERXREF (1)  PART (2)  WWA+PN (3)  PN (4)  PRODCODE (5)  PRODLINE (6)  PRODFAMILY (7)  ALL (8)  All the rules will be stored at common place. There are 6 rules created by DND and 5 or 6 rules in Auto. Others use rules created by CMA. Two rules of DND and Auto are common.  So all the rules be stored to derive indirect sale.  As we are merging the different BUs so everyone has to come on common term with proposed hierarchy. Current rules in CMA are in following order –  Customerxerf (1),  TE Part Number (2),  Product Code(3),  Product Line(4),  Product Family(5), and  ALL (6).  Current rules in Excel are in following order –  Customer + PN(1),  WWAC + PN(2),  Customer(3),  WWAC (4),  PN(5),  Sold To + PN(6), and  Sold To (7).  With redesign the rules hierarchy will be as following –  Customer XREF(1),  TE Part Number (2),  WWAC + PN (3),  PartNumber(4),  Product Code (5),  Product Line (6),  Product Family (7), and  ALL (8).  As per this change the Sold To and Customer rule will be removed which will affect the allocation calculation where Sold To and Customer is getting used. Along with this Ship\_To is mandatory in CMA which we are not receiving in DND (excel rule). So how we can handle such situation?   * DND only deal with one customer and it does not have Resseller\_Ship\_To\_Customer field that is why it is Optional. * Even if Subcontractor buy OEM Agreement still need Rules. So Agreement Owner Usage field is not required if so. * As DND does not have OEM\_SHIP\_TO\_CUSTOMER\_ACCT so we will be sending the OEM\_SOLD\_TO\_CUSTOMER\_ACCT in both fields. * PART\_NUMBER is optional or not as DND doesn’t send this and Auto send both? * If there is any change in the Data, to calculate the Indirect Sale, first rules need to be in place for that period. CMA will recalculate the data accordingly. APEX, Analyzer, TED2.0 will see if there is any change in Data. They change the data accordingly. There are two DataMart one is monthly and other is weekly. DataMart get refreshed so will be able to get the changed Data. DataMart only allows 3 years back historical Data to be updated. |
|  | **TED** |
| **35** | * Migrate all transactions with customer program F and K to **GBL\_CMA** and delete from **GBL\_POS** * Change **dps.gbl\_pos** to **dps.gbl\_distributors**   + ALTER TABLE **GBL\_POS** TO **GBL\_DISTRIBUTORS**; * Change references in **DPS\_SOURCE** objects to reference **gbl\_distributors** instead of **gbl\_pos** * Create a new view that unions both **dps.gbl\_cma** and **dps.gbl\_distributors** * Create a PL/SQL program that loads data from **GBL\_CMA\_DAILY** into **GBL\_CMA** * Coordinate with applications that have access to **GBL\_POS** and make them aware of the change and get commitments to test the solution. |
|  |  |
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|  | **ANALYZER** |
| 36 | Redesign to receive the CMA data from GBL-POS/GBL\_CMA   * Distributor POS data being used instead of applying rules for distributors. * OEM Mapping Rule file will not be imported in Analyzer but it will be imported into CMA Application. * Bookings, Billings, Backlog data for CM will be accessed from CMA Application derived from OEM mapping. * Booking data from Distributors supplying POS data will be accessed from CMA Application derived from OEM mapping. * Billing data from Distributors supplying POS data will be accessed from POS data supplied by Distributors. * Bookings, Billings, Backlog data for OEM buying directly from TE will be accessed from direct sales DataMart.   **Proposed Changes:**  SSIS: download/massage CMA data from GBL\_CMA\_DAILY and direct sales from TED  download subset OEM rules from CMA and apply to direct sales  SQL Server: to store CMA data  SSAS: create cubes for Analyzer  ASP.NET: control/log batches of CMA  Visual Studio 2016: SSIS/SSAS/SSRS projects  Windows Task Scheduler: to execute the SSIS jobs |
| 37 | Maintain current features from Analyzer  (1) Prepare DND reports related dimensions and measures by using TED/CMA/GPOS data.  (2) Base on dimensions and measures to create Analyzer reports which data sources come from TED/CMA/POS.  **Proposed changes:**  SSAS: create cubes for Analyzer  Analyzer: create BI reports  Visual Studio 2016: SSIS/SSAS/SSRS projects |
| 38 | Based on DND user's request, The as-is DND Analyzer BI reports and data download processes will remain unchanged in FY18. CMA data processing will be implemented in parallel. DND users will eliminate the current data process if CMA billing/booking/backlog and OEM mapping data are the same with current reports. |
| 39 | Performance should not be impacted with the new design.  CMA related processes will be executed in parallel with current DND data processes |
|  | **APEX** |
| 40 | * Control-M: Need to remove CMA Phase I, II and III processes i.e.   SOLAR#PEXSEXTRACTINDIRECTCMA-EOM  SOLAR#PEXSEXTRACTINDIRECTCMA-WEEKLY  SOLAR#PEXSEXTRACTINDIRECTCMA3   * New Control-M Restate Control-M Job for “Restate Indirect Channel Inside – CMA” * And we have re-arrange the Control-M Predecessor and Successor of the jobs * New package PEX\_EXTRACT\_INDIRECT\_TRANS\_CMA: Will going to extract only transaction for Customer Program ‘F’/CMA Data from CMA\_DAILY form Instead of using GBL\_POS * Going forward Existing package i.e. PEX\_EXTRACT\_INDIRECT\_TRANS will going to extract only transactions related to Customer Program “C - TECS POS, T - TRADER, W - ELECTRICAL DIS POS, U - ELECTRONIC DIST POS, G - CPD POS, E - RAYCHEM DIST POS, H - COEV POS, L - TOUCH SOLUTIONS, D - DISTRIBUTOR POS and Q - SUBCONTRACTOR POS”. Currently use to extract both CMA and POS transactions from GBL\_POS: * Procedure “Restate Indirect Channel Inside” (PEX\_RESTATE\_IND\_COSTED\_SLS\_DET.RestateIndirectChannelInside) will going to split into two procedures. E.g. * Procedure 1 “Restate Indirect Channel Inside - POS” and * Procedure 2 “Restate Indirect Channel Inside - CMA”. * This procedure will going to refer new table i.e. CMA\_Daily * New Export Procedure 1 needs to create for Indirect Extract for CMA * New Export Procedure 2 needs to create for Restate on Indirect CMA * MS SQL Server: Six procedure will be effected   Remove Procedures:  DCFYCurrent\_noBKprice  DCFYCurrent\_withBKprice  DCFYCurrentMinus1\_noBKprice  DCFYCurrentMinus1\_withBKprice  DCFYCurrentMinus2\_noBKprice  DCFYCurrentMinus2\_withBKprice   * Pex\_Sale\_Tran\_Cube: CMA\_FLAG and CMA\_EXCEL\_FLAG * Pex\_Indirect\_Transaction: CMA\_ROWID, DIR\_RUN\_ID, CMA\_ADJUSTED\_SPLIT\_PCT, SUMAVG\_BY\_RULE\_TYPE\_ID, SUM\_UP\_BY\_RULE\_TYPE\_ID, DELETE\_IND, ALLOCATION\_RULE\_ID\_SEQ, SPLIT\_PCT\_SUM\_UP, DIR\_TXN\_TYPE, DIR\_AMT, DIR\_QTY, DIR\_TXN\_ID * **Oracle Remove Package:**   PEX\_EXT\_INDIRECT\_CMA\_MONTHLY.pkb (CMA Phase I & II)  PEX\_EXT\_INDIRECT\_CMA\_WEEKLY.pkb (CMA Phase I & II)  PEX\_EXT\_INDIRECT\_CMA\_PHASE3.PKB (CMA Phase III)   * Remove Tables:   PEX\_CMA\_PARAMETERS  PEX\_PRICING\_RULE\_TABLE  PEX\_PRICING\_RULE\_TABLE\_EXCEL  PEX\_INDIRECT\_TRANSACTIONS\_HIST   * APEX UI: After CMA Redesign implementation we have to match Direct and Indirect Subcontractor sales by matching on same month; as compare to one month difference in current design. * APEX Indirect UI might also going to impact,   Dimension name Forecast Type need to remove  Other dimension or attributes might also going to impact if certain process changes in new implementation, e.g. in regards to Rule type information |
|  | ***DTO – historical data conversion*** |
| 41 | DTO – Data Take Over – Moving the current data from existing CMA to the new CMA application.  Fiscal year boundaries between old and new process. The change methodology should be applied to the entire Fiscal Year.   * Indirect Sales for Customer Program ‘F will be recalculated using new algorithm for all months in current (FY2018) and previous year (FY2017). Customer Program F’ for FY2016 and earlier will not be touched Please note that direct sales of 2015/12 becomes Indirect Sales of 2016/01 based on current methodology. 2016/01 data (and beyond) will be based on 2016/01 sales. **Indirect Sales based on direct sales for 2015/12 will not be available.** * All existing rules in CMA Application will be reviewed to see if they need to be cleaned up. * Rules older than 2 fiscal year will be removed from the CMA application as part of End of Year cleanup. For example when FY2019 comes, rules for FY2017 will be deleted or saved in Archive database. * All existing rules will need to assigned BU owners. Some of the current CMA rule need to be divided among different BU e.g. currently Auto and ICT rules based on who owns the customer.   Separate rule may need to be created. |
| 42 | There should be easy way to identify any sales to create rules for sub-contractors for a given month which does not have a rule but need one. This is existing feature of CMA application.  The identified data can be sent in an email using existing predefined format using rule type of ‘Part’.  User can then add OEM and allocation to the complete the spreadsheet and upload it. |
| 43 | Implement Backed Off Transaction in CMA which was already part of APEX application.  CMA will check if there are cancelled or credited transactions in COSB. If there are, we have to delete those from CMA and from GBL CMA tables.  This will be handled by batch job |
| 44 | CMA Redesign should be flexible to absorb changes to profit center hierarchy. For e.g. in current CMA the TSGG profit center group from Transportation BU, is not entering rule. With CMA redesign if they want to add rule the CMA will allow them to add/upload rules. |
| 45 | Approval procedure for Business Unit can be changed easily without changing the code.  Need to Analyze this in Build Phase |
| 46 | No restating of allocation for changes due to organization hierarchy changes.  If profit center changes or part CBC dimension changes there will be no changes done to historic data but from the day the CBC change, that day onwards the change will be available.  This will be taken care while designing the Daily Batch job for rule allocation |
|  |  |

#### **Database** (in progress):

Batch Jobs:

**Batch process** (in progress)

* **Create a daily batch process that will retrieve daily billings from COSB table**
  + Retrieve all transactions from SSA.COSTED\_SALES\_DETAILS table for the latest batch\_id from SSA.COSTES\_SALES\_PARAMETERS table and load them to CMP\_ COSTED\_SALES \_STG table
    - SALES\_TRANSACTION\_TYPE\_CDE ('S0', 'C1', 'D1', 'C2', 'D2')

* **Create a daily batch process that will retrieve daily bookings from COSB table**
  + Retrieve all transactions from SSA.COSTED\_SALES\_DETAILS table for the latest batch\_id from SSA.COSTES\_SALES\_PARAMETERS table and load them to CMP\_ COSTED\_SALES \_STG table
    - SALES\_TRANSACTION\_TYPE\_CDE IN ('O0', 'O1')
* **Create a daily batch process that will allocate billings, bookings and backlogs using the updated rules**
  + For AUTO/ICT, Restricted Part allocation process will still be followed
  + If there are new rules for the current month
  + Mark affected billing and booking allocations in CMA\_DAILY\_ALLOCATIONS\_STG table as deleted
  + Delete affected billing and booking allocations in CMA\_DAILY\_ALLOCATIONS table
  + Allocate billings and bookings based on the new rules and save allocated transactions to CMA\_DAILY\_ALLOCATIONS\_STG and CMA\_DAILY\_ALLOCATIONS
  + If there are updated rules for previous months
  + Copy affected allocations from CMA\_DAILY\_ALLOCATIONS to CMA\_DAILY\_ALLOCATIONS\_DC table
  + Mark affected allocations in CMA\_DAILY\_ALLOCATIONS\_STG table as deleted
  + Delete affected allocations in CMA\_DAILY\_ALLOCATIONS table
  + Allocate transactions based on the new rules and save allocated transactions to CMA\_DAILY\_ALLOCATIONS and CMA\_DAILY\_ALLOCATIONS\_STG tables
    - **Create a batch process that will retrieve POS data from GBL POS table**

**TODO**

* + - **Create a daily batch process that will retrieve backlogs for Delivery Scorecard**

**TODO**

* **Create a daily batch process that will allocate billings, bookings and Backlogs using the updated rules**
  + For AUTO/ICT, Restricted Part allocation process will still be followed
  + If there are new rules for the current month
    - Mark affected billing and booking allocations in CMA\_DAILY\_ALLOCATIONS\_STG table as deleted
    - Delete affected billing and booking allocations in CMA\_DAILY\_ALLOCATIONS table
    - Allocate billings and bookings based on the new rules and save allocated transactions to CMA\_DAILY\_ALLOCATIONS\_STG and CMA\_DAILY\_ALLOCATIONS
  + If there are updated rules for previous months
    - Copy affected allocations from CMA\_DAILY\_ALLOCATIONS to CMA\_DAILY\_ALLOCATIONS\_DC table
    - Mark affected allocations in CMA\_DAILY\_ALLOCATIONS\_STG table as deleted
    - Delete affected allocations in CMA\_DAILY\_ALLOCATIONS table
    - Allocate transactions based on the new rules and save allocated transactions to CMA\_DAILY\_ALLOCATIONS and CMA\_DAILY\_ALLOCATIONS\_STG tables
* **Create a Weekly batch process that will populate GBL\_CMA**
  + For current Month’s allocations
    - Copy weekly billing transactions from CMA\_DAILY\_ALLOCATIONS table and insert them into GBL\_CMA table
    - Save batch details to CMP\_DATA\_ALLOCATIONS table
  + For previous month’s allocations
    - Delete affected billing transactions from GBL\_CMA and CMP\_DATA\_ALLOCATIONS tables
    - Copy billing transactions from CMA\_DAILY\_ALLOCATIONS table and insert them into GBL\_CMA table
    - Save batch details to CMP\_DATA\_ALLOCATIONS
* **Update the following schedules**
  + Process that automatically approves new rules if pending for more than 2 weeks
  + SOLAR#CMPS2500
    - SOLAR#CMPU2500 - Copies current month's rules for DNDG BU. Runs at 2AM on the last Friday of the current fiscal month
* **Delete the following schedules**
  + SOLAR#CMPS2000
    - SOLAR#CMPU2000 - Loads previous month's sales for the new month to CMP schema
    - SOLAR#CMPU1001 - Refreshes rule ids in CMP\_RULES\_FOR\_APPROVAL table
    - SOLAR#CMPU1003 - Restricted Parts Auto Allocation Process for Transportation Solutions
    - SOLAR#CMPU8000 - Builds Sales Data and Published Summary tables
    - SOLAR#CMPU4000 - Analyzes all CMP Tables
    - SOLAR#CMPU9100 - Notifies users that CM billings for the most recent fiscal month end have been loaded into the CMA application
  + SOLAR#CMPS3000
    - SOLAR#CMPU3000 - Publishes the month end CM to OEM allocations to Global POS
    - SOLAR#CMPU6000 - Loads Fiscal Year's direct sales for new CM accounts to CMP schema
    - SOLAR#CMPU7000 - Publishes Fiscal Year's CM Allocations for new CMs to Global POS
  + SOLAR#CMPS1500 - Booking, Backlog, and Billing weekly allocations process for DND BU. Runs every Saturday **(?)**
    - SOLAR#CMPU1500 - Loads OEM\_ALLOCATIONS\_W table with allocated DND transactions from the Weekly Flash datamart
    - SOLAR#CMPU1530 - Populates tables used for reporting
  + SOLAR#CMPS9000
    - SOLAR#CMPU9000 - Sends notification emails to Sales Engineers and CMA Administrators about unallocated sales. Runs every 14th and 28th of each month
  + SOLAR#CMPS8000 **(?)**
    - SOLAR#CMPU1002 - Re-assign approval of pending allocation change to a valid OEM GAM or SE for Transportation Solutions
    - SOLAR#CMPU1100 - Auto approve allocation rule changes pending for 14 days or more
    - SOLAR#CMPU4000 - Analyzes all CMP Tables
    - SOLAR#CMPU8000 - Build Sales and Allocation Summary point in time tables

CMA Database changes:

* 1. Tables

CMP\_ALLOCATION\_RULES \_AUDIT (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
| RULE\_BATCH\_ID |  |  |  |
| PROFIT\_CENTER\_GROUP |  |  |  |
| TYCO\_YEAR\_ID |  |  |  |
| TYCO\_MONTH\_OF\_YEAR\_ID |  |  |  |
| FILENAME |  | YES |  |
| SUCCESSFUL\_COUNT |  | YES |  |
| FAILED\_COUNT |  | YES |  |
| CHANNEL\_CDE |  |  | D (Direct) or I (3rd Tier) |
| DML\_TS |  |  |  |
| DML\_USER\_ID |  |  |  |

CMP\_ALLOCATION\_RULES \_PRE\_STG (NEW) (refresh this table every run)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
| OEM\_CUST\_ORGANIZATION\_ID |  |  |  |
| OEM\_CUST\_ACCOUNT\_ID |  |  |  |
| OEM\_CUST\_ACCT\_SUFX\_ID |  |  |  |
| OEM\_NAME |  |  |  |
| SOLD\_TO\_ACCT\_ORGANIZATION\_ID |  |  |  |
| SOLD\_TO\_ACCT\_CUSTOMER\_ID |  |  |  |
| SOLD\_TO\_ACCT\_NAME |  |  |  |
| SHIP\_TO\_ACCT\_ORGANIZATION\_ID |  |  |  |
| SHIP\_TO\_ACCT\_BASED\_ID |  |  |  |
| SHIP\_TO\_ACCT\_SUFX\_ID |  |  |  |
| WW\_ACCOUNT |  |  |  |
| WW\_ACCOUNT\_NAME |  |  |  |
| CUSTOMER\_PART\_ID |  |  |  |
| PART\_NUMBER |  |  |  |
| PART\_KEY\_ID |  |  |  |
| PRODUCT\_FAMILY\_CDE |  |  |  |
| PRODUCT\_LINE\_CDE |  |  |  |
| PRODUCT\_CDE |  |  |  |
| SPLIT\_PCT |  |  |  |
| COMMENTS |  |  |  |
| SUB\_LEVEL\_PROFIT\_CENTER |  |  |  |
| RESPONSIBLE\_PERSON |  |  |  |
| RULE\_TYPE |  |  |  |
| FLAG |  |  |  |
| STATUS |  |  |  |
| OLD\_RULE\_ID |  |  |  |

CMP\_ALLOCATION\_RULES\_STG (NEW) (contains allocation rule history)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENT** |
| RULE\_BATCH\_ID |  |  |  |
| RULE\_ID |  |  |  |
| OEM\_CUST\_ORGANIZATION\_ID |  |  |  |
| OEM\_CUST\_ACCOUNT\_ID |  |  |  |
| OEM\_CUST\_ACCT\_SUFX\_ID |  |  |  |
| OEM\_NAME |  |  |  |
| SOLD\_TO\_ACCT\_ORGANIZATION\_ID |  |  |  |
| SOLD\_TO\_ACCT\_CUSTOMER\_ID |  |  |  |
| SOLD\_TO\_ACCT\_NAME |  |  |  |
| SHIP\_TO\_ACCT\_ORGANIZATION\_ID |  |  |  |
| SHIP\_TO\_ACCT\_BASED\_ID |  |  |  |
| SHIP\_TO\_ACCT\_SUFX\_ID |  |  |  |
| WW\_ACCOUNT |  |  |  |
| WW\_ACCOUNT\_NAME |  |  |  |
| CUSTOMER\_PART\_ID |  |  |  |
| PART\_NUMBER |  |  |  |
| PART\_KEY\_ID |  |  |  |
| PRODUCT\_FAMILY\_CDE |  |  |  |
| PRODUCT\_LINE\_CDE |  |  |  |
| PRODUCT\_CDE |  |  |  |
| SPLIT\_PCT |  |  |  |
| COMMENTS |  |  |  |
| SUB\_LEVEL\_PROFIT\_CENTER |  |  |  |
| RESPONSIBLE\_PERSON |  |  |  |
| RULE\_TYPE |  |  |  |
| FLAG |  |  |  |
| STATUS |  |  |  |
| LAST\_UPDATED\_DT |  |  |  |
| LAST\_UPDATED\_USER\_ID |  |  |  |
| DML\_TS |  |  |  |
| DML\_USER\_ID |  |  |  |

CMP\_ALLOCATION\_RULES (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENT** |
| RULE\_BATCH\_ID |  |  |  |
| RULE\_ID |  |  |  |
| OEM\_CUST\_ORGANIZATION\_ID |  |  |  |
| OEM\_CUST\_ACCOUNT\_ID |  |  |  |
| OEM\_CUST\_ACCT\_SUFX\_ID |  |  |  |
| OEM\_NAME |  |  |  |
| SOLD\_TO\_ACCT\_ORGANIZATION\_ID |  |  |  |
| SOLD\_TO\_ACCT\_CUSTOMER\_ID |  |  |  |
| SOLD\_TO\_ACCT\_NAME |  |  |  |
| SHIP\_TO\_ACCT\_ORGANIZATION\_ID |  |  |  |
| SHIP\_TO\_ACCT\_BASED\_ID |  |  |  |
| SHIP\_TO\_ACCT\_SUFX\_ID |  |  |  |
| WW\_ACCOUNT |  |  |  |
| WW\_ACCOUNT\_NAME |  |  |  |
| CUSTOMER\_PART\_ID |  |  |  |
| PART\_NUMBER |  |  |  |
| PART\_KEY\_ID |  |  |  |
| PRODUCT\_FAMILY\_CDE |  |  |  |
| PRODUCT\_LINE\_CDE |  |  |  |
| PRODUCT\_CDE |  |  |  |
| SPLIT\_PCT |  |  |  |
| COMMENTS |  |  |  |
| SUB\_LEVEL\_PROFIT\_CENTER |  |  |  |
| RESPONSIBLE\_PERSON |  |  |  |
| RULE\_TYPE |  |  |  |
| FLAG |  |  |  |
| STATUS |  |  |  |
| LAST\_UPDATED\_DT |  |  |  |
| DML\_TS |  |  |  |
| DML\_USER\_ID |  |  |  |
| LAST\_UPDATED\_USER\_ID |  |  |  |

CMP\_INVALID\_RULES (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
| RULE\_BATCH\_ID |  |  |  |
| RULE\_VALIDATION\_ID |  |  |  |
| ERROR\_MESSAGE |  |  |  |

CMP\_RULE\_CONFLICTS (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
| RULE\_BATCH\_ID |  |  |  |
| RULE\_ID |  |  |  |
| RULE\_CONFLICT\_ID |  |  |  |
| DESCRIPTION |  |  |  |

CMP\_ COSTED\_SALES \_STG (NEW)

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** |
| RUN\_ID | Number |  |
| BATCH\_ID | Number |  |
| BATCH\_RECORD\_ID | Number |  |
| DML\_USER\_ID | Number |  |
| DML\_TS |  |  |
| TRANSACTION\_DT | Date |  |
| TYCO\_WEEK\_ID | Number |  |
| TYCO\_MONTH\_OF\_YEAR\_ID | Number |  |
| TYCO\_QUARTER\_ID | Number |  |
| TYCO\_YEAR\_ID | Number |  |
| TYCO\_MONTH\_END\_DT | date |  |
| REPORTING\_ORGANIZATION\_ID | Number |  |
| SELLING\_ORGANIZATION\_ID | Number |  |
| SBMT\_PART\_NBR | Varchar2 |  |
| PRODUCT\_CDE | Varchar2 |  |
| PROD\_NAME | Varchar2 |  |
| PROD\_GLOBAL\_PRLN\_CODE | Varchar2 |  |
| PROD\_BUSLN\_ID |  |  |
| PROD\_BUSLN\_FNCTN\_ID |  |  |
| SBMT\_UNIT\_OF\_MEASURE\_CDE |  |  |
| CONVERTED\_UNIT\_OF\_MEASURE\_CDE |  |  |
| SHIP\_TO\_ACCT\_ORGANIZATION\_ID |  |  |
| SHIP\_TO\_ACCT\_BASE\_ID |  |  |
| SHIP\_TO\_ACCT\_SUFX\_ID |  |  |
| INDUSTRY\_CODE |  |  |
| INDUSTRY\_NAME |  |  |
| INDUSTRY\_BUSINESS\_CODE |  |  |
| SBMT\_PRIME\_WW\_CUSTOMER\_ID |  |  |
| PRIME\_WORLDWIDE\_CUSTOMER\_ID |  |  |
| SBMT\_SOLD\_TO\_CUSTOMER\_ID |  |  |
| SOLD\_TO\_ACCT\_ORGANIZATION\_ID |  |  |
| SOLD\_TO\_CUSTOMER\_ID |  |  |
| ORDER\_ITEM\_NBR |  |  |
| ORDER\_NBR |  |  |
| SALES\_STAT\_CATEGORY\_CDE |  |  |
| SALES\_TRANSACTION\_TYPE\_CDE |  |  |
| INVOICE\_NBR |  |  |
| INVOICE\_ITEM\_NBR |  |  |
| SAP\_SALES\_ORGANIZATION\_ID |  |  |
| DISTRIBUTION\_CHANNEL\_CDE |  |  |
| PRICING\_AGREEMENT\_DOCUMENT\_ID |  |  |
| PRICING\_CUSTOMER\_ID |  |  |
| S\_SBMT\_TOTAL\_ORDER\_ITEM\_QTY |  |  |
| S\_TOTAL\_ORDER\_ITEM\_QTY |  |  |
| S\_SBMT\_SHIPPED\_QTY |  |  |
| S\_SHIPPED\_QTY |  |  |
| S\_SHIPPED\_QTY\_BACK |  |  |
| S\_SBMT\_REMAINING\_TO\_SHIP\_QTY |  |  |
| S\_REMAINING\_TO\_SHIP\_QTY |  |  |
| SBMT\_DOC\_ISO\_CURRENCY\_CDE |  |  |
| DOC\_ISO\_CURRENCY\_CDE |  |  |
| SBMT\_LOCAL\_ISO\_CURRENCY\_CDE |  |  |
| LOCAL\_ISO\_CURRENCY\_CDE |  |  |
| S\_SHIPPED\_DOC\_CURRENCY\_AMT |  |  |
| S\_SHIPPED\_DOC\_CURRENCY\_AMT\_BK |  |  |
| S\_SHIPPED\_LOCAL\_CURRENCY\_AMT |  |  |
| S\_DOC\_CURRENCY\_TRUE\_COST\_AMT |  |  |
| S\_LOCAL\_CURRENCY\_TRUE\_COST\_AMT |  |  |
| S\_TRUE\_FROZEN\_COST\_AMT |  |  |
| S\_LABOR\_FROZEN\_COST\_AMT |  |  |
| S\_TOT\_OVHD\_FROZEN\_COST\_AMT |  |  |
| S\_MFR\_ENGR\_FROZEN\_COST\_AMT |  |  |
| S\_TRUE\_MATL\_FROZEN\_COST\_AMT |  |  |
| S\_MATL\_BRDN\_FROZEN\_COST\_AMT |  |  |
| S\_INTCO\_CNTT\_FROZEN\_COST\_AMT |  |  |
| S\_TRUE\_CURRENT\_COST\_AMT |  |  |
| S\_LABOR\_CURRENT\_COST\_AMT |  |  |
| S\_TOT\_OVHD\_CURRENT\_COST\_AMT |  |  |
| S\_MFR\_ENGR\_CURRENT\_COST\_AMT |  |  |
| S\_TRUE\_MATL\_CURRENT\_COST\_AMT |  |  |
| S\_MATL\_BRDN\_CURRENT\_COST\_AMT |  |  |
| S\_INTCO\_CNTT\_CURRENT\_COST\_AMT |  |  |
| S\_CNST\_SHIPPED\_DOC\_CRNC\_AMT |  |  |
| S\_CNST\_SHIPPED\_LOC\_CRNC\_AMT |  |  |
| S\_CNST\_DOC\_CRNC\_TRUE\_COST\_AMT |  |  |
| S\_CNST\_LOC\_CRNC\_TRUE\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_FROZEN\_COST\_AMT |  |  |
| S\_CNST\_LABOR\_FROZEN\_COST\_AMT |  |  |
| S\_CNST\_TOT\_OVHD\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_MFR\_ENGR\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_MATL\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_MATL\_BRDN\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_INTCO\_CNTT\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_CURRENT\_COST\_AMT |  |  |
| S\_CNST\_LABOR\_CURRENT\_COST\_AMT |  |  |
| S\_CNST\_TOT\_OVHD\_CUR\_COST\_AMT |  |  |
| S\_CNST\_MFR\_ENGR\_CUR\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_MATL\_CUR\_COST\_AMT |  |  |
| S\_CNST\_MATL\_BRDN\_CUR\_COST\_AMT |  |  |
| S\_CNST\_INTCO\_CNTT\_CUR\_COST\_AMT |  |  |
| DATA\_SOURCE\_DESC |  |  |
| LOCATION\_CDE |  |  |
| MRP\_GROUP\_CDE |  |  |
| SBMT\_SLS\_STAT\_CATEGORY\_CDE |  |  |
| SALES\_DOC\_TYPE\_CDE |  |  |
| MATERIAL\_TYPE\_CDE |  |  |
| DROP\_SHIPMENT\_IND |  |  |
| SALES\_OFFICE\_CDE |  |  |
| SALES\_GROUP\_CDE |  |  |
| SOURCE\_ID |  |  |
| DATA\_SRC\_ID |  |  |
| AQUISITION\_FORMAT\_ID |  |  |
| DELIVERY\_ITEM\_CATEGORY\_CDE |  |  |
| SRC\_DEFECTIVE\_MATL\_REASON\_CDE |  |  |
| S\_DOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_CNST\_DOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_SBMT\_LOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_LOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_CNST\_LOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| PART\_KEY\_ID |  |  |
| S\_LOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| S\_CNST\_LOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| S\_DOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| S\_CNST\_DOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| CUST\_ACCOUNT\_ASGN\_GROUP\_CDE |  |  |
| SBMT\_SALES\_TERRITORY\_CDE |  |  |
| SALES\_TERRITORY\_CDE |  |  |
| PRICING\_DT |  |  |
| PRICING\_CONDITION\_TYPE\_CDE |  |  |
| REFERENCED\_INVOICE\_NBR |  |  |
| SOLD\_TO\_CUSTOMER\_KEY\_ID |  |  |
| SHIP\_TO\_CUSTOMER\_KEY\_ID |  |  |
| INTL\_COMMERCIAL\_TERMS\_CDE |  |  |
| INTL\_CMCL\_TERM\_ADDITIONAL\_DESC |  |  |
| BILLING\_TYPE\_CDE |  |  |
| SBMT\_SALES\_GROUP\_CDE |  |  |
| SBMT\_SALES\_OFFICE\_CDE |  |  |
| SBMT\_BATCH\_ID |  |  |
| PBL\_VENDOR\_ID |  |  |
| SOURCE\_COST\_PART\_ORG\_ID |  |  |
| PART\_PRCR\_SOURCE\_ORG\_ID |  |  |
| ARC\_CDE |  |  |
| CUSTOMER\_PART\_NBR |  |  |
| CUSTOMER\_PURCHASE\_ORDER\_ID |  |  |
| COSTED\_SALES\_EXCLUSION\_CDE |  |  |

CMP\_COSTED\_SALES (NEW)

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** |
| RUN\_ID |  |  |
| BATCH\_ID |  |  |
| BATCH\_RECORD\_ID |  |  |
| DML\_USER\_ID |  |  |
| DML\_TS |  |  |
| TRANSACTION\_DT |  |  |
| TYCO\_WEEK\_ID |  |  |
| TYCO\_MONTH\_OF\_YEAR\_ID |  |  |
| TYCO\_QUARTER\_ID |  |  |
| TYCO\_YEAR\_ID |  |  |
| TYCO\_MONTH\_END\_DT |  |  |
| REPORTING\_ORGANIZATION\_ID |  |  |
| SELLING\_ORGANIZATION\_ID |  |  |
| SBMT\_PART\_NBR |  |  |
| PRODUCT\_CDE |  |  |
| PROD\_NAME |  |  |
| PROD\_GLOBAL\_PRLN\_CODE |  |  |
| PROD\_BUSLN\_ID |  |  |
| PROD\_BUSLN\_FNCTN\_ID |  |  |
| SBMT\_UNIT\_OF\_MEASURE\_CDE |  |  |
| CONVERTED\_UNIT\_OF\_MEASURE\_CDE |  |  |
| SHIP\_TO\_ACCT\_ORGANIZATION\_ID |  |  |
| SHIP\_TO\_ACCT\_BASE\_ID |  |  |
| SHIP\_TO\_ACCT\_SUFX\_ID |  |  |
| INDUSTRY\_CODE |  |  |
| INDUSTRY\_NAME |  |  |
| INDUSTRY\_BUSINESS\_CODE |  |  |
| SBMT\_PRIME\_WW\_CUSTOMER\_ID |  |  |
| PRIME\_WORLDWIDE\_CUSTOMER\_ID |  |  |
| SBMT\_SOLD\_TO\_CUSTOMER\_ID |  |  |
| SOLD\_TO\_ACCT\_ORGANIZATION\_ID |  |  |
| SOLD\_TO\_CUSTOMER\_ID |  |  |
| ORDER\_ITEM\_NBR |  |  |
| ORDER\_NBR |  |  |
| SALES\_STAT\_CATEGORY\_CDE |  |  |
| SALES\_TRANSACTION\_TYPE\_CDE |  |  |
| INVOICE\_NBR |  |  |
| INVOICE\_ITEM\_NBR |  |  |
| SAP\_SALES\_ORGANIZATION\_ID |  |  |
| DISTRIBUTION\_CHANNEL\_CDE |  |  |
| PRICING\_AGREEMENT\_DOCUMENT\_ID |  |  |
| PRICING\_CUSTOMER\_ID |  |  |
| S\_SBMT\_TOTAL\_ORDER\_ITEM\_QTY |  |  |
| S\_TOTAL\_ORDER\_ITEM\_QTY |  |  |
| S\_SBMT\_SHIPPED\_QTY |  |  |
| S\_SHIPPED\_QTY |  |  |
| S\_SHIPPED\_QTY\_BACK |  |  |
| S\_SBMT\_REMAINING\_TO\_SHIP\_QTY |  |  |
| S\_REMAINING\_TO\_SHIP\_QTY |  |  |
| SBMT\_DOC\_ISO\_CURRENCY\_CDE |  |  |
| DOC\_ISO\_CURRENCY\_CDE |  |  |
| SBMT\_LOCAL\_ISO\_CURRENCY\_CDE |  |  |
| LOCAL\_ISO\_CURRENCY\_CDE |  |  |
| S\_SHIPPED\_DOC\_CURRENCY\_AMT |  |  |
| S\_SHIPPED\_DOC\_CURRENCY\_AMT\_BK |  |  |
| S\_SHIPPED\_LOCAL\_CURRENCY\_AMT |  |  |
| S\_DOC\_CURRENCY\_TRUE\_COST\_AMT |  |  |
| S\_LOCAL\_CURRENCY\_TRUE\_COST\_AMT |  |  |
| S\_TRUE\_FROZEN\_COST\_AMT |  |  |
| S\_LABOR\_FROZEN\_COST\_AMT |  |  |
| S\_TOT\_OVHD\_FROZEN\_COST\_AMT |  |  |
| S\_MFR\_ENGR\_FROZEN\_COST\_AMT |  |  |
| S\_TRUE\_MATL\_FROZEN\_COST\_AMT |  |  |
| S\_MATL\_BRDN\_FROZEN\_COST\_AMT |  |  |
| S\_INTCO\_CNTT\_FROZEN\_COST\_AMT |  |  |
| S\_TRUE\_CURRENT\_COST\_AMT |  |  |
| S\_LABOR\_CURRENT\_COST\_AMT |  |  |
| S\_TOT\_OVHD\_CURRENT\_COST\_AMT |  |  |
| S\_MFR\_ENGR\_CURRENT\_COST\_AMT |  |  |
| S\_TRUE\_MATL\_CURRENT\_COST\_AMT |  |  |
| S\_MATL\_BRDN\_CURRENT\_COST\_AMT |  |  |
| S\_INTCO\_CNTT\_CURRENT\_COST\_AMT |  |  |
| S\_CNST\_SHIPPED\_DOC\_CRNC\_AMT |  |  |
| S\_CNST\_SHIPPED\_LOC\_CRNC\_AMT |  |  |
| S\_CNST\_DOC\_CRNC\_TRUE\_COST\_AMT |  |  |
| S\_CNST\_LOC\_CRNC\_TRUE\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_FROZEN\_COST\_AMT |  |  |
| S\_CNST\_LABOR\_FROZEN\_COST\_AMT |  |  |
| S\_CNST\_TOT\_OVHD\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_MFR\_ENGR\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_MATL\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_MATL\_BRDN\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_INTCO\_CNTT\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_CURRENT\_COST\_AMT |  |  |
| S\_CNST\_LABOR\_CURRENT\_COST\_AMT |  |  |
| S\_CNST\_TOT\_OVHD\_CUR\_COST\_AMT |  |  |
| S\_CNST\_MFR\_ENGR\_CUR\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_MATL\_CUR\_COST\_AMT |  |  |
| S\_CNST\_MATL\_BRDN\_CUR\_COST\_AMT |  |  |
| S\_CNST\_INTCO\_CNTT\_CUR\_COST\_AMT |  |  |
| DATA\_SOURCE\_DESC |  |  |
| LOCATION\_CDE |  |  |
| MRP\_GROUP\_CDE |  |  |
| SBMT\_SLS\_STAT\_CATEGORY\_CDE |  |  |
| SALES\_DOC\_TYPE\_CDE |  |  |
| MATERIAL\_TYPE\_CDE |  |  |
| DROP\_SHIPMENT\_IND |  |  |
| SALES\_OFFICE\_CDE |  |  |
| SALES\_GROUP\_CDE |  |  |
| SOURCE\_ID |  |  |
| DATA\_SRC\_ID |  |  |
| AQUISITION\_FORMAT\_ID |  |  |
| DELIVERY\_ITEM\_CATEGORY\_CDE |  |  |
| SRC\_DEFECTIVE\_MATL\_REASON\_CDE |  |  |
| S\_DOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_CNST\_DOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_SBMT\_LOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_LOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_CNST\_LOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| PART\_KEY\_ID |  |  |
| S\_LOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| S\_CNST\_LOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| S\_DOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| S\_CNST\_DOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| CUST\_ACCOUNT\_ASGN\_GROUP\_CDE |  |  |
| SBMT\_SALES\_TERRITORY\_CDE |  |  |
| SALES\_TERRITORY\_CDE |  |  |
| PRICING\_DT |  |  |
| PRICING\_CONDITION\_TYPE\_CDE |  |  |
| REFERENCED\_INVOICE\_NBR |  |  |
| SOLD\_TO\_CUSTOMER\_KEY\_ID |  |  |
| SHIP\_TO\_CUSTOMER\_KEY\_ID |  |  |
| INTL\_COMMERCIAL\_TERMS\_CDE |  |  |
| INTL\_CMCL\_TERM\_ADDITIONAL\_DESC |  |  |
| BILLING\_TYPE\_CDE |  |  |
| SBMT\_SALES\_GROUP\_CDE |  |  |
| SBMT\_SALES\_OFFICE\_CDE |  |  |
| SBMT\_BATCH\_ID |  |  |
| PBL\_VENDOR\_ID |  |  |
| SOURCE\_COST\_PART\_ORG\_ID |  |  |
| PART\_PRCR\_SOURCE\_ORG\_ID |  |  |
| ARC\_CDE |  |  |
| CUSTOMER\_PART\_NBR |  |  |
| CUSTOMER\_PURCHASE\_ORDER\_ID |  |  |
| COSTED\_SALES\_EXCLUSION\_CDE |  |  |
|  |  |  |

CMP\_COSTED\_BOOKINGS\_STG (NEW)

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** |
| RUN\_ID |  |  |
| BATCH\_ID |  |  |
| BATCH\_RECORD\_ID |  |  |
| TYCO\_WEEK\_ID |  |  |
| TYCO\_MONTH\_OF\_YEAR\_ID |  |  |
| TYCO\_QUARTER\_ID |  |  |
| TYCO\_YEAR\_ID |  |  |
| ORDER\_NBR |  |  |
| ORDER\_ITEM\_NBR |  |  |
| PART\_KEY\_ID |  |  |
| DATA\_SOURCE\_DESC |  |  |
| REQUESTED\_ON\_DOCK\_DT |  |  |
| O\_ORDER\_QTY |  |  |
| O\_ORDER\_DOC\_CURRENCY\_AMT |  |  |
| DOC\_ISO\_CURRENCY\_CDE |  |  |
| EXCH\_RATE\_TYPE |  |  |
| DELETE\_IND\_WEEK |  |  |
| COSTED\_SALES\_EXCLUSION\_CDE |  |  |
| TXN\_ID |  |  |
| STATUS |  |  |

CMP\_COSTED\_BOOKINGS (NEW)

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** |
| RUN\_ID |  |  |
| BATCH\_ID |  |  |
| BATCH\_RECORD\_ID |  |  |
| TYCO\_WEEK\_ID |  |  |
| TYCO\_MONTH\_OF\_YEAR\_ID |  |  |
| TYCO\_QUARTER\_ID |  |  |
| TYCO\_YEAR\_ID |  |  |
| ORDER\_NBR |  |  |
| ORDER\_ITEM\_NBR |  |  |
| PART\_KEY\_ID |  |  |
| DATA\_SOURCE\_DESC |  |  |
| REQUESTED\_ON\_DOCK\_DT |  |  |
| O\_ORDER\_QTY |  |  |
| O\_ORDER\_DOC\_CURRENCY\_AMT |  |  |
| DOC\_ISO\_CURRENCY\_CDE |  |  |
| EXCH\_RATE\_TYPE |  |  |
| DELETE\_IND\_WEEK |  |  |
| COSTED\_SALES\_EXCLUSION\_CDE |  |  |
| TXN\_ID |  |  |
| STATUS |  |  |

CMP\_DAILY\_ALLOCATIONS \_STG (NEW) will contain historical allocated bookings and billings

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** |
| RUN\_ID |  |  |
| BATCH\_ID |  |  |
| BATCH\_RECORD\_ID |  |  |
| DML\_USER\_ID |  |  |
| DML\_TS |  |  |
| LAST\_UPDATE\_TS |  |  |
| LAST\_UPDATE\_ USER\_ID |  |  |
| TRANSACTION\_DT |  |  |
| TYCO\_WEEK\_ID |  |  |
| TYCO\_MONTH\_OF\_YEAR\_ID |  |  |
| TYCO\_QUARTER\_ID |  |  |
| TYCO\_YEAR\_ID |  |  |
| TYCO\_MONTH\_END\_DT |  |  |
| REPORTING\_ORGANIZATION\_ID |  |  |
| SELLING\_ORGANIZATION\_ID |  |  |
| SBMT\_PART\_NBR |  |  |
| PRODUCT\_CDE |  |  |
| PROD\_NAME |  |  |
| PROD\_GLOBAL\_PRLN\_CODE |  |  |
| PROD\_BUSLN\_ID |  |  |
| PROD\_BUSLN\_FNCTN\_ID |  |  |
| SBMT\_UNIT\_OF\_MEASURE\_CDE |  |  |
| CONVERTED\_UNIT\_OF\_MEASURE\_CDE |  |  |
| SHIP\_TO\_ACCT\_ORGANIZATION\_ID |  |  |
| SHIP\_TO\_ACCT\_BASE\_ID |  |  |
| SHIP\_TO\_ACCT\_SUFX\_ID |  |  |
| INDUSTRY\_CODE |  |  |
| INDUSTRY\_NAME |  |  |
| INDUSTRY\_BUSINESS\_CODE |  |  |
| SBMT\_PRIME\_WW\_CUSTOMER\_ID |  |  |
| PRIME\_WORLDWIDE\_CUSTOMER\_ID |  |  |
| SBMT\_SOLD\_TO\_CUSTOMER\_ID |  |  |
| SOLD\_TO\_ACCT\_ORGANIZATION\_ID |  |  |
| SOLD\_TO\_CUSTOMER\_ID |  |  |
| ORDER\_ITEM\_NBR |  |  |
| ORDER\_NBR |  |  |
| SALES\_STAT\_CATEGORY\_CDE |  |  |
| SALES\_TRANSACTION\_TYPE\_CDE |  |  |
| INVOICE\_NBR |  |  |
| INVOICE\_ITEM\_NBR |  |  |
| SAP\_SALES\_ORGANIZATION\_ID |  |  |
| DISTRIBUTION\_CHANNEL\_CDE |  |  |
| PRICING\_AGREEMENT\_DOCUMENT\_ID |  |  |
| PRICING\_CUSTOMER\_ID |  |  |
| S\_SBMT\_TOTAL\_ORDER\_ITEM\_QTY |  |  |
| S\_TOTAL\_ORDER\_ITEM\_QTY |  |  |
| S\_SBMT\_SHIPPED\_QTY |  |  |
| S\_SHIPPED\_QTY |  |  |
| S\_SHIPPED\_QTY\_BACK |  |  |
| S\_SBMT\_REMAINING\_TO\_SHIP\_QTY |  |  |
| S\_REMAINING\_TO\_SHIP\_QTY |  |  |
| SBMT\_DOC\_ISO\_CURRENCY\_CDE |  |  |
| DOC\_ISO\_CURRENCY\_CDE |  |  |
| SBMT\_LOCAL\_ISO\_CURRENCY\_CDE |  |  |
| LOCAL\_ISO\_CURRENCY\_CDE |  |  |
| S\_SHIPPED\_DOC\_CURRENCY\_AMT |  |  |
| S\_SHIPPED\_DOC\_CURRENCY\_AMT\_BK |  |  |
| S\_SHIPPED\_LOCAL\_CURRENCY\_AMT |  |  |
| S\_DOC\_CURRENCY\_TRUE\_COST\_AMT |  |  |
| S\_LOCAL\_CURRENCY\_TRUE\_COST\_AMT |  |  |
| S\_TRUE\_FROZEN\_COST\_AMT |  |  |
| S\_LABOR\_FROZEN\_COST\_AMT |  |  |
| S\_TOT\_OVHD\_FROZEN\_COST\_AMT |  |  |
| S\_MFR\_ENGR\_FROZEN\_COST\_AMT |  |  |
| S\_TRUE\_MATL\_FROZEN\_COST\_AMT |  |  |
| S\_MATL\_BRDN\_FROZEN\_COST\_AMT |  |  |
| S\_INTCO\_CNTT\_FROZEN\_COST\_AMT |  |  |
| S\_TRUE\_CURRENT\_COST\_AMT |  |  |
| S\_LABOR\_CURRENT\_COST\_AMT |  |  |
| S\_TOT\_OVHD\_CURRENT\_COST\_AMT |  |  |
| S\_MFR\_ENGR\_CURRENT\_COST\_AMT |  |  |
| S\_TRUE\_MATL\_CURRENT\_COST\_AMT |  |  |
| S\_MATL\_BRDN\_CURRENT\_COST\_AMT |  |  |
| S\_INTCO\_CNTT\_CURRENT\_COST\_AMT |  |  |
| S\_CNST\_SHIPPED\_DOC\_CRNC\_AMT |  |  |
| S\_CNST\_SHIPPED\_LOC\_CRNC\_AMT |  |  |
| S\_CNST\_DOC\_CRNC\_TRUE\_COST\_AMT |  |  |
| S\_CNST\_LOC\_CRNC\_TRUE\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_FROZEN\_COST\_AMT |  |  |
| S\_CNST\_LABOR\_FROZEN\_COST\_AMT |  |  |
| S\_CNST\_TOT\_OVHD\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_MFR\_ENGR\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_MATL\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_MATL\_BRDN\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_INTCO\_CNTT\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_CURRENT\_COST\_AMT |  |  |
| S\_CNST\_LABOR\_CURRENT\_COST\_AMT |  |  |
| S\_CNST\_TOT\_OVHD\_CUR\_COST\_AMT |  |  |
| S\_CNST\_MFR\_ENGR\_CUR\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_MATL\_CUR\_COST\_AMT |  |  |
| S\_CNST\_MATL\_BRDN\_CUR\_COST\_AMT |  |  |
| S\_CNST\_INTCO\_CNTT\_CUR\_COST\_AMT |  |  |
| DATA\_SOURCE\_DESC |  |  |
| LOCATION\_CDE |  |  |
| MRP\_GROUP\_CDE |  |  |
| SBMT\_SLS\_STAT\_CATEGORY\_CDE |  |  |
| SALES\_DOC\_TYPE\_CDE |  |  |
| MATERIAL\_TYPE\_CDE |  |  |
| DROP\_SHIPMENT\_IND |  |  |
| SALES\_OFFICE\_CDE |  |  |
| SALES\_GROUP\_CDE |  |  |
| SOURCE\_ID |  |  |
| DATA\_SRC\_ID |  |  |
| AQUISITION\_FORMAT\_ID |  |  |
| DELIVERY\_ITEM\_CATEGORY\_CDE |  |  |
| SRC\_DEFECTIVE\_MATL\_REASON\_CDE |  |  |
| S\_DOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_CNST\_DOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_SBMT\_LOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_LOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_CNST\_LOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| PART\_KEY\_ID |  |  |
| S\_LOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| S\_CNST\_LOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| S\_DOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| S\_CNST\_DOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| CUST\_ACCOUNT\_ASGN\_GROUP\_CDE |  |  |
| SBMT\_SALES\_TERRITORY\_CDE |  |  |
| SALES\_TERRITORY\_CDE |  |  |
| PRICING\_DT |  |  |
| PRICING\_CONDITION\_TYPE\_CDE |  |  |
| REFERENCED\_INVOICE\_NBR |  |  |
| SOLD\_TO\_CUSTOMER\_KEY\_ID |  |  |
| SHIP\_TO\_CUSTOMER\_KEY\_ID |  |  |
| INTL\_COMMERCIAL\_TERMS\_CDE |  |  |
| INTL\_CMCL\_TERM\_ADDITIONAL\_DESC |  |  |
| BILLING\_TYPE\_CDE |  |  |
| SBMT\_SALES\_GROUP\_CDE |  |  |
| SBMT\_SALES\_OFFICE\_CDE |  |  |
| SBMT\_BATCH\_ID |  |  |
| PBL\_VENDOR\_ID |  |  |
| SOURCE\_COST\_PART\_ORG\_ID |  |  |
| PART\_PRCR\_SOURCE\_ORG\_ID |  |  |
| ARC\_CDE |  |  |
| CUSTOMER\_PART\_NBR |  |  |
| CUSTOMER\_PURCHASE\_ORDER\_ID |  |  |
| COSTED\_SALES\_EXCLUSION\_CDE |  |  |
| REQUESTED\_ON\_DOCK\_DT |  |  |
| O\_ORDER\_QTY |  |  |
| O\_ORDER\_DOC\_CURRENCY\_AMT |  |  |
| EXCH\_RATE\_TYPE |  |  |
| DELETE\_IND\_WEEK |  |  |
| STATUS |  |  |
| END\_CUSTOMER\_KEY\_ID |  |  |
| END\_CUST\_ACCT\_NBR\_BASE |  |  |
| END\_CUST\_ACCT\_NBR\_SUFX |  |  |
| END\_CUSTOMER\_ACCOUNT\_NBR |  |  |
| RULE\_ID |  |  |
| OLD\_RULE\_ID |  |  |
| TRANS\_TYPE |  |  |

CMP\_DAILY\_ALLOCATIONS (NEW) will contain allocated bookings and billings

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** |
| TRANSACTION\_ID |  |  |
| BATCH\_ID |  |  |
| BATCH\_RECORD\_ID |  |  |
| DML\_USER\_ID |  |  |
| DML\_TS |  |  |
| LAST\_UPDATE\_TS |  |  |
| LAST\_UPDATE\_ USER\_ID |  |  |
| TRANSACTION\_DT |  |  |
| TYCO\_WEEK\_ID |  |  |
| TYCO\_MONTH\_OF\_YEAR\_ID |  |  |
| TYCO\_QUARTER\_ID |  |  |
| TYCO\_YEAR\_ID |  |  |
| TYCO\_MONTH\_END\_DT |  |  |
| REPORTING\_ORGANIZATION\_ID |  |  |
| SELLING\_ORGANIZATION\_ID |  |  |
| SBMT\_PART\_NBR |  |  |
| PRODUCT\_CDE |  |  |
| PROD\_NAME |  |  |
| PROD\_GLOBAL\_PRLN\_CODE |  |  |
| PROD\_BUSLN\_ID |  |  |
| PROD\_BUSLN\_FNCTN\_ID |  |  |
| SBMT\_UNIT\_OF\_MEASURE\_CDE |  |  |
| CONVERTED\_UNIT\_OF\_MEASURE\_CDE |  |  |
| SHIP\_TO\_ACCT\_ORGANIZATION\_ID |  |  |
| SHIP\_TO\_ACCT\_BASE\_ID |  |  |
| SHIP\_TO\_ACCT\_SUFX\_ID |  |  |
| INDUSTRY\_CODE |  |  |
| INDUSTRY\_NAME |  |  |
| INDUSTRY\_BUSINESS\_CODE |  |  |
| SBMT\_PRIME\_WW\_CUSTOMER\_ID |  |  |
| PRIME\_WORLDWIDE\_CUSTOMER\_ID |  |  |
| SBMT\_SOLD\_TO\_CUSTOMER\_ID |  |  |
| SOLD\_TO\_ACCT\_ORGANIZATION\_ID |  |  |
| SOLD\_TO\_CUSTOMER\_ID |  |  |
| ORDER\_ITEM\_NBR |  |  |
| ORDER\_NBR |  |  |
| SALES\_STAT\_CATEGORY\_CDE |  |  |
| SALES\_TRANSACTION\_TYPE\_CDE |  |  |
| INVOICE\_NBR |  |  |
| INVOICE\_ITEM\_NBR |  |  |
| SAP\_SALES\_ORGANIZATION\_ID |  |  |
| DISTRIBUTION\_CHANNEL\_CDE |  |  |
| PRICING\_AGREEMENT\_DOCUMENT\_ID |  |  |
| PRICING\_CUSTOMER\_ID |  |  |
| S\_SBMT\_TOTAL\_ORDER\_ITEM\_QTY |  |  |
| S\_TOTAL\_ORDER\_ITEM\_QTY |  |  |
| S\_SBMT\_SHIPPED\_QTY |  |  |
| S\_SHIPPED\_QTY |  |  |
| S\_SHIPPED\_QTY\_BACK |  |  |
| S\_SBMT\_REMAINING\_TO\_SHIP\_QTY |  |  |
| S\_REMAINING\_TO\_SHIP\_QTY |  |  |
| SBMT\_DOC\_ISO\_CURRENCY\_CDE |  |  |
| DOC\_ISO\_CURRENCY\_CDE |  |  |
| SBMT\_LOCAL\_ISO\_CURRENCY\_CDE |  |  |
| LOCAL\_ISO\_CURRENCY\_CDE |  |  |
| S\_SHIPPED\_DOC\_CURRENCY\_AMT |  |  |
| S\_SHIPPED\_DOC\_CURRENCY\_AMT\_BK |  |  |
| S\_SHIPPED\_LOCAL\_CURRENCY\_AMT |  |  |
| S\_DOC\_CURRENCY\_TRUE\_COST\_AMT |  |  |
| S\_LOCAL\_CURRENCY\_TRUE\_COST\_AMT |  |  |
| S\_TRUE\_FROZEN\_COST\_AMT |  |  |
| S\_LABOR\_FROZEN\_COST\_AMT |  |  |
| S\_TOT\_OVHD\_FROZEN\_COST\_AMT |  |  |
| S\_MFR\_ENGR\_FROZEN\_COST\_AMT |  |  |
| S\_TRUE\_MATL\_FROZEN\_COST\_AMT |  |  |
| S\_MATL\_BRDN\_FROZEN\_COST\_AMT |  |  |
| S\_INTCO\_CNTT\_FROZEN\_COST\_AMT |  |  |
| S\_TRUE\_CURRENT\_COST\_AMT |  |  |
| S\_LABOR\_CURRENT\_COST\_AMT |  |  |
| S\_TOT\_OVHD\_CURRENT\_COST\_AMT |  |  |
| S\_MFR\_ENGR\_CURRENT\_COST\_AMT |  |  |
| S\_TRUE\_MATL\_CURRENT\_COST\_AMT |  |  |
| S\_MATL\_BRDN\_CURRENT\_COST\_AMT |  |  |
| S\_INTCO\_CNTT\_CURRENT\_COST\_AMT |  |  |
| S\_CNST\_SHIPPED\_DOC\_CRNC\_AMT |  |  |
| S\_CNST\_SHIPPED\_LOC\_CRNC\_AMT |  |  |
| S\_CNST\_DOC\_CRNC\_TRUE\_COST\_AMT |  |  |
| S\_CNST\_LOC\_CRNC\_TRUE\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_FROZEN\_COST\_AMT |  |  |
| S\_CNST\_LABOR\_FROZEN\_COST\_AMT |  |  |
| S\_CNST\_TOT\_OVHD\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_MFR\_ENGR\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_MATL\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_MATL\_BRDN\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_INTCO\_CNTT\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_CURRENT\_COST\_AMT |  |  |
| S\_CNST\_LABOR\_CURRENT\_COST\_AMT |  |  |
| S\_CNST\_TOT\_OVHD\_CUR\_COST\_AMT |  |  |
| S\_CNST\_MFR\_ENGR\_CUR\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_MATL\_CUR\_COST\_AMT |  |  |
| S\_CNST\_MATL\_BRDN\_CUR\_COST\_AMT |  |  |
| S\_CNST\_INTCO\_CNTT\_CUR\_COST\_AMT |  |  |
| DATA\_SOURCE\_DESC |  |  |
| LOCATION\_CDE |  |  |
| MRP\_GROUP\_CDE |  |  |
| SBMT\_SLS\_STAT\_CATEGORY\_CDE |  |  |
| SALES\_DOC\_TYPE\_CDE |  |  |
| MATERIAL\_TYPE\_CDE |  |  |
| DROP\_SHIPMENT\_IND |  |  |
| SALES\_OFFICE\_CDE |  |  |
| SALES\_GROUP\_CDE |  |  |
| SOURCE\_ID |  |  |
| DATA\_SRC\_ID |  |  |
| AQUISITION\_FORMAT\_ID |  |  |
| DELIVERY\_ITEM\_CATEGORY\_CDE |  |  |
| SRC\_DEFECTIVE\_MATL\_REASON\_CDE |  |  |
| S\_DOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_CNST\_DOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_SBMT\_LOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_LOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_CNST\_LOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| PART\_KEY\_ID |  |  |
| S\_LOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| S\_CNST\_LOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| S\_DOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| S\_CNST\_DOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| CUST\_ACCOUNT\_ASGN\_GROUP\_CDE |  |  |
| SBMT\_SALES\_TERRITORY\_CDE |  |  |
| SALES\_TERRITORY\_CDE |  |  |
| PRICING\_DT |  |  |
| PRICING\_CONDITION\_TYPE\_CDE |  |  |
| REFERENCED\_INVOICE\_NBR |  |  |
| SOLD\_TO\_CUSTOMER\_KEY\_ID |  |  |
| SHIP\_TO\_CUSTOMER\_KEY\_ID |  |  |
| INTL\_COMMERCIAL\_TERMS\_CDE |  |  |
| INTL\_CMCL\_TERM\_ADDITIONAL\_DESC |  |  |
| BILLING\_TYPE\_CDE |  |  |
| SBMT\_SALES\_GROUP\_CDE |  |  |
| SBMT\_SALES\_OFFICE\_CDE |  |  |
| SBMT\_BATCH\_ID |  |  |
| PBL\_VENDOR\_ID |  |  |
| SOURCE\_COST\_PART\_ORG\_ID |  |  |
| PART\_PRCR\_SOURCE\_ORG\_ID |  |  |
| ARC\_CDE |  |  |
| CUSTOMER\_PART\_NBR |  |  |
| CUSTOMER\_PURCHASE\_ORDER\_ID |  |  |
| COSTED\_SALES\_EXCLUSION\_CDE |  |  |
| REQUESTED\_ON\_DOCK\_DT |  |  |
| O\_ORDER\_QTY |  |  |
| O\_ORDER\_DOC\_CURRENCY\_AMT |  |  |
| EXCH\_RATE\_TYPE |  |  |
| DELETE\_IND\_WEEK |  |  |
| STATUS |  |  |
| END\_CUSTOMER\_KEY\_ID |  |  |
| END\_CUST\_ACCT\_NBR\_BASE |  |  |
| END\_CUST\_ACCT\_NBR\_SUFX |  |  |
| END\_CUSTOMER\_ACCOUNT\_NBR |  |  |
| RULE\_ID |  |  |
| OLD\_RULE\_ID |  |  |
| TRANS\_TYPE |  |  |
| APEX\_PROCESSED\_FLAG |  |  |
| ANALYZER\_PROCESSED\_FLAG |  |  |
| TED\_PROCESSED\_FLAG |  |  |

CMP\_DAILY\_ALLOCATIONS\_DC (NEW)

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** |
| TRANSACTION\_ID |  |  |
| BATCH\_ID |  |  |
| BATCH\_RECORD\_ID |  |  |
| DML\_USER\_ID |  |  |
| DML\_TS |  |  |
| LAST\_UPDATE\_TS |  |  |
| LAST\_UPDATE\_ USER\_ID |  |  |
| TRANSACTION\_DT |  |  |
| TYCO\_WEEK\_ID |  |  |
| TYCO\_MONTH\_OF\_YEAR\_ID |  |  |
| TYCO\_QUARTER\_ID |  |  |
| TYCO\_YEAR\_ID |  |  |
| TYCO\_MONTH\_END\_DT |  |  |
| REPORTING\_ORGANIZATION\_ID |  |  |
| SELLING\_ORGANIZATION\_ID |  |  |
| SBMT\_PART\_NBR |  |  |
| PRODUCT\_CDE |  |  |
| PROD\_NAME |  |  |
| PROD\_GLOBAL\_PRLN\_CODE |  |  |
| PROD\_BUSLN\_ID |  |  |
| PROD\_BUSLN\_FNCTN\_ID |  |  |
| SBMT\_UNIT\_OF\_MEASURE\_CDE |  |  |
| CONVERTED\_UNIT\_OF\_MEASURE\_CDE |  |  |
| SHIP\_TO\_ACCT\_ORGANIZATION\_ID |  |  |
| SHIP\_TO\_ACCT\_BASE\_ID |  |  |
| SHIP\_TO\_ACCT\_SUFX\_ID |  |  |
| INDUSTRY\_CODE |  |  |
| INDUSTRY\_NAME |  |  |
| INDUSTRY\_BUSINESS\_CODE |  |  |
| SBMT\_PRIME\_WW\_CUSTOMER\_ID |  |  |
| PRIME\_WORLDWIDE\_CUSTOMER\_ID |  |  |
| SBMT\_SOLD\_TO\_CUSTOMER\_ID |  |  |
| SOLD\_TO\_ACCT\_ORGANIZATION\_ID |  |  |
| SOLD\_TO\_CUSTOMER\_ID |  |  |
| ORDER\_ITEM\_NBR |  |  |
| ORDER\_NBR |  |  |
| SALES\_STAT\_CATEGORY\_CDE |  |  |
| SALES\_TRANSACTION\_TYPE\_CDE |  |  |
| INVOICE\_NBR |  |  |
| INVOICE\_ITEM\_NBR |  |  |
| SAP\_SALES\_ORGANIZATION\_ID |  |  |
| DISTRIBUTION\_CHANNEL\_CDE |  |  |
| PRICING\_AGREEMENT\_DOCUMENT\_ID |  |  |
| PRICING\_CUSTOMER\_ID |  |  |
| S\_SBMT\_TOTAL\_ORDER\_ITEM\_QTY |  |  |
| S\_TOTAL\_ORDER\_ITEM\_QTY |  |  |
| S\_SBMT\_SHIPPED\_QTY |  |  |
| S\_SHIPPED\_QTY |  |  |
| S\_SHIPPED\_QTY\_BACK |  |  |
| S\_SBMT\_REMAINING\_TO\_SHIP\_QTY |  |  |
| S\_REMAINING\_TO\_SHIP\_QTY |  |  |
| SBMT\_DOC\_ISO\_CURRENCY\_CDE |  |  |
| DOC\_ISO\_CURRENCY\_CDE |  |  |
| SBMT\_LOCAL\_ISO\_CURRENCY\_CDE |  |  |
| LOCAL\_ISO\_CURRENCY\_CDE |  |  |
| S\_SHIPPED\_DOC\_CURRENCY\_AMT |  |  |
| S\_SHIPPED\_DOC\_CURRENCY\_AMT\_BK |  |  |
| S\_SHIPPED\_LOCAL\_CURRENCY\_AMT |  |  |
| S\_DOC\_CURRENCY\_TRUE\_COST\_AMT |  |  |
| S\_LOCAL\_CURRENCY\_TRUE\_COST\_AMT |  |  |
| S\_TRUE\_FROZEN\_COST\_AMT |  |  |
| S\_LABOR\_FROZEN\_COST\_AMT |  |  |
| S\_TOT\_OVHD\_FROZEN\_COST\_AMT |  |  |
| S\_MFR\_ENGR\_FROZEN\_COST\_AMT |  |  |
| S\_TRUE\_MATL\_FROZEN\_COST\_AMT |  |  |
| S\_MATL\_BRDN\_FROZEN\_COST\_AMT |  |  |
| S\_INTCO\_CNTT\_FROZEN\_COST\_AMT |  |  |
| S\_TRUE\_CURRENT\_COST\_AMT |  |  |
| S\_LABOR\_CURRENT\_COST\_AMT |  |  |
| S\_TOT\_OVHD\_CURRENT\_COST\_AMT |  |  |
| S\_MFR\_ENGR\_CURRENT\_COST\_AMT |  |  |
| S\_TRUE\_MATL\_CURRENT\_COST\_AMT |  |  |
| S\_MATL\_BRDN\_CURRENT\_COST\_AMT |  |  |
| S\_INTCO\_CNTT\_CURRENT\_COST\_AMT |  |  |
| S\_CNST\_SHIPPED\_DOC\_CRNC\_AMT |  |  |
| S\_CNST\_SHIPPED\_LOC\_CRNC\_AMT |  |  |
| S\_CNST\_DOC\_CRNC\_TRUE\_COST\_AMT |  |  |
| S\_CNST\_LOC\_CRNC\_TRUE\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_FROZEN\_COST\_AMT |  |  |
| S\_CNST\_LABOR\_FROZEN\_COST\_AMT |  |  |
| S\_CNST\_TOT\_OVHD\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_MFR\_ENGR\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_MATL\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_MATL\_BRDN\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_INTCO\_CNTT\_FRZ\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_CURRENT\_COST\_AMT |  |  |
| S\_CNST\_LABOR\_CURRENT\_COST\_AMT |  |  |
| S\_CNST\_TOT\_OVHD\_CUR\_COST\_AMT |  |  |
| S\_CNST\_MFR\_ENGR\_CUR\_COST\_AMT |  |  |
| S\_CNST\_TRUE\_MATL\_CUR\_COST\_AMT |  |  |
| S\_CNST\_MATL\_BRDN\_CUR\_COST\_AMT |  |  |
| S\_CNST\_INTCO\_CNTT\_CUR\_COST\_AMT |  |  |
| DATA\_SOURCE\_DESC |  |  |
| LOCATION\_CDE |  |  |
| MRP\_GROUP\_CDE |  |  |
| SBMT\_SLS\_STAT\_CATEGORY\_CDE |  |  |
| SALES\_DOC\_TYPE\_CDE |  |  |
| MATERIAL\_TYPE\_CDE |  |  |
| DROP\_SHIPMENT\_IND |  |  |
| SALES\_OFFICE\_CDE |  |  |
| SALES\_GROUP\_CDE |  |  |
| SOURCE\_ID |  |  |
| DATA\_SRC\_ID |  |  |
| AQUISITION\_FORMAT\_ID |  |  |
| DELIVERY\_ITEM\_CATEGORY\_CDE |  |  |
| SRC\_DEFECTIVE\_MATL\_REASON\_CDE |  |  |
| S\_DOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_CNST\_DOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_SBMT\_LOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_LOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| S\_CNST\_LOC\_CUR\_FRT\_CHARGE\_AMT |  |  |
| PART\_KEY\_ID |  |  |
| S\_LOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| S\_CNST\_LOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| S\_DOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| S\_CNST\_DOC\_CRNC\_AUTH\_COST\_AMT |  |  |
| CUST\_ACCOUNT\_ASGN\_GROUP\_CDE |  |  |
| SBMT\_SALES\_TERRITORY\_CDE |  |  |
| SALES\_TERRITORY\_CDE |  |  |
| PRICING\_DT |  |  |
| PRICING\_CONDITION\_TYPE\_CDE |  |  |
| REFERENCED\_INVOICE\_NBR |  |  |
| SOLD\_TO\_CUSTOMER\_KEY\_ID |  |  |
| SHIP\_TO\_CUSTOMER\_KEY\_ID |  |  |
| INTL\_COMMERCIAL\_TERMS\_CDE |  |  |
| INTL\_CMCL\_TERM\_ADDITIONAL\_DESC |  |  |
| BILLING\_TYPE\_CDE |  |  |
| SBMT\_SALES\_GROUP\_CDE |  |  |
| SBMT\_SALES\_OFFICE\_CDE |  |  |
| SBMT\_BATCH\_ID |  |  |
| PBL\_VENDOR\_ID |  |  |
| SOURCE\_COST\_PART\_ORG\_ID |  |  |
| PART\_PRCR\_SOURCE\_ORG\_ID |  |  |
| ARC\_CDE |  |  |
| CUSTOMER\_PART\_NBR |  |  |
| CUSTOMER\_PURCHASE\_ORDER\_ID |  |  |
| COSTED\_SALES\_EXCLUSION\_CDE |  |  |
| REQUESTED\_ON\_DOCK\_DT |  |  |
| O\_ORDER\_QTY |  |  |
| O\_ORDER\_DOC\_CURRENCY\_AMT |  |  |
| EXCH\_RATE\_TYPE |  |  |
| DELETE\_IND\_WEEK |  |  |
| STATUS |  |  |
| END\_CUSTOMER\_KEY\_ID |  |  |
| END\_CUST\_ACCT\_NBR\_BASE |  |  |
| END\_CUST\_ACCT\_NBR\_SUFX |  |  |
| END\_CUSTOMER\_ACCOUNT\_NBR |  |  |
| RULE\_ID |  |  |
| OLD\_RULE\_ID |  |  |
| TRANS\_TYPE |  |  |

CMP\_INVALID\_RULES (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
| RULE\_BATCH\_ID |  |  |  |
| RULE\_VALIDATION\_ID |  |  |  |
| ERROR\_MESSAGE |  |  |  |

CMP\_RULE\_CONFLICTS (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
| RULE\_BATCH\_ID |  |  |  |
| RULE\_ID |  |  |  |
| RULE\_CONFLICT\_ID |  |  |  |
| DESCRIPTION |  |  |  |

CMP\_ COSTED\_SALES \_STG (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

CMP\_COSTED\_SALES (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

CMP\_COSTED\_BOOKINGS\_STG (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

CMP\_COSTED\_BOOKINGS (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

CMP\_BACKLOGS (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

CMP\_ANALYZER\_RULES (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

CMP\_RULE\_CONFLICTS (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
|  |  |  |  |
|  |  |  |  |

CMP\_DAILY\_BILLINGS\_STG (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

CMP\_DAILY\_BILLINGS (NEW) will contain allocated billings

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

CMP\_DAILY\_BOOKINGS\_STG (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
|  |  |  |  |
|  |  |  |  |

CMP\_DAILY\_BOOKINGS (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
|  |  |  |  |
|  |  |  |  |

CMP\_DAILY\_BACKLOGS \_STG (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

CMP\_DAILY\_BACKLOGS (NEW)

|  |  |  |  |
| --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** | **COMMENTS** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

GBL\_CMA (NEW) will contain allocations from CMA\_DAILY\_ALLOCATIONS (billings only)

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** |
|  |  |  |
|  |  |  |
|  |  |  |

CMP\_COSTED\_SALES\_PARAMETERS

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** |
| BATCH\_ID |  |  |
| RUN\_ID |  |  |
| ADHOC\_BATCH |  |  |
| PROCESS\_NAME |  |  |
| PROCESS\_STATUS |  |  |
| DML\_TS |  |  |
| DML\_USER\_ID |  |  |

CMP\_ALLOCATION\_PARAMETERS (NEW)

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** |
| RUN\_ID |  |  |
| DIRECT\_RUN\_ID |  |  |
| PROCESS\_NAME |  |  |
| PROCESS\_STATUS |  |  |
| FISCAL\_MONTH |  |  |
| DML\_TS |  |  |
| DML\_USER\_ID |  |  |

CMP\_DATA\_ALLOCATIONS (NEW)

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** |
| TRANSACTION\_ID |  |  |
| BATCH\_ID |  |  |
| BATCH\_RECORD\_ID |  |  |
| RULE\_ID |  |  |
| DML\_USER\_ID |  |  |
| DML\_USER\_ID |  |  |

CMP\_ALLOCATION\_PARAMETERS (NEW)

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **NULLABLE** |
| RUN\_ID |  |  |
| DIRECT\_RUN\_ID |  |  |
| PROCESS\_NAME |  |  |
| PROCESS\_STATUS |  |  |
| FISCAL\_MONTH |  |  |
| DML\_TS |  |  |
| DML\_USER\_ID |  |  |

* 1. Views
     1. (Will be added in build phase)
  2. Packages
     1. PKGCMPDATALOAD (existing)
        1. Daily loading of bookings and billings
        2. Loading of prior months sales after the monthly publish to GBL\_CMA
        3. (Will be added in build phase)
     2. PKGCMPALLOCATIONS (existing)
        1. new allocation tables and allocation logic
     3. PKGCMPCOMMON (existing)
        1. new allocation tables and allocation logic
     4. PKGCMPCONTRACTMANUFACTURERS (existing)
        1. new allocation tables and allocation logic
     5. PKGCMPDELEGATES (existing)
        1. new allocation tables and allocation logic
     6. PKGCMPLOADCMRULES (existing)
        1. new allocation tables and allocation logic
     7. PKGCMPOSEMAIL (existing)
        1. new allocation tables and allocation logic
     8. PKGCMPPUBLISHDATA (existing)
        1. new allocation tables and allocation logic
     9. PKGCMPREPORTS (existing)
        1. new allocation tables and allocation logic
     10. PKGCMPRESTRICTEDPARTS (existing)
         1. new allocation tables and allocation logic
     11. PKGCMPUSER (existing)
         1. new allocation tables and allocation logic
     12. PKGCMPPRICINGRULES **(existing – to be deleted?)**
         1. new allocation tables and allocation logic
     13. PKGDTCOEMALLOCATIONS **(existing – to be deleted?)**
         1. new allocation tables and allocation logic