ELANCO ABAP TEAM

Elanco Global S / 4 HANA Implementation  
O2C\_E\_826\_827 – Product Allocation UK\_TDS

Enhancement

Rahul Chandwani

Document information

**Document History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | **Author** | **Reason for change** | **ChaRM ID** | **Date** |
| 1.0 | Rahul Chandwani | Initial Version | O2C\_E\_826\_827 | 01-MAR-2022 |
| 1.1 | Rahul Chandwani | Enhancement to change Product Allocation Characteristic Constraint Status | O2C\_E\_826\_827 | 15-MAR-2022 |
|  |  |  |  |  |
|  |  |  |  |  |

**Reference Documents**

|  |  |  |
| --- | --- | --- |
| **Document Name** | **Hyperlink/Location Path** | **Short Description** |
| Relevant PDD |  |  |
| Relevant FDS | https://elancoah.sharepoint.com/:w:/r/sites/  Elanco\_SAP\_Project\_RedData/\_layouts/15/  doc2.aspx?sourcedoc=%7BB4A534B4-96EC-43AE  -A073-FAD26633858A%7D&file=OTC\_E\_826\_827\_  Product%20Allocation%20UK\_FDS.docx&action=  default&mobileredirect=true&DefaultItemOpen=1 | O2C\_E\_826\_827 - Automatic Order Delivery Block and Rejection Report V0.1 |
|  |  |  |

**Technical Approvers and Reviewers**

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Reviewer Name** | **Reviewer Project Role** | **Date** |
| 1. | Debanjali Nandy | Technical Lead | 09-Mar-2022 |
| 2. | Pushpal Bhattacharya | Technical Lead | 11-Mar-2022 |

|  |  |  |
| --- | --- | --- |
| **WRICEF ID** | O2C\_E\_826\_827 | |
| **Functional Specification Design ID** | O2C\_E\_826\_827\_Product Allocation UK\_FDS | |
| **Implementation Phase** | Release 2 | |
| **Message Class**: | ZOTC | |
| **Develop. Class(Package)**: | ZOTC | |
| **Module**: | O2C | |
| **Complexity (High/Medium/Low)** | Medium | |
| **Mode** | Online | |
| **Functional Area User Contact**: | N/A | |
| **Run Frequency** | Daily | |
| **FS Owner Name and contact** : | Subhajit Roy | |
| **FS Owner email address** | SUBHAJIT.ROY@network.elancoah.com |  |

| **Transport Information** |
| --- |

|  |  |  |  |
| --- | --- | --- | --- |
| **Change Request #** | **Task #** | **Object Identifier**  **(Program ID, Layout Set ID, etc)** | **Object Type**  **(Program, Transaction, Layout Set)** |
| **Workbench** |  |  |  |
| SD1K901338 | SD1K901340 | ZO2C\_E\_PRODUCT\_ALLOCATION  ZO2C\_E\_REMOVE\_DELIVERY\_BLOCK  ZO2C\_E\_REMOVE\_REJECTION\_REASON  ZO2C\_E\_UPDATE\_PA\_CHAR\_CNST\_ST | Enhancement Implementation |
| SD1K901338 | SD1K901340 | ZO2C\_N\_PRODUCT\_ALLOCATION  ZO2C\_N\_REMOVE\_DELIVERY\_BLOCK  ZO2C\_N\_REMOVE\_REJECTION\_REASON  ZO2C\_N\_UPDATE\_PA\_CHAR\_CNST\_ST | Program |
| SD1K901338 | SD1K901340 | ZOTC500 | Single Message |
| SD1K901338 | SD1K901340 | NAZOTC500 | Documentation |
| SD1K901338 | SD1K901385 | ZATP\_MANCHARCCATALOG\_0001\_BE | SAP Gateway: Model Metadata |
| SD1K901338 | SD1K901385 | ZATP\_MANCHARCCATALOG\_0001 | SAP Gateway: Service Groups Metadata |
| SD1K901338 | SD1K901385 | SD110000000004300O2TMQPDL0AXGC2ZZH2Y8XW1 | ICF Service |
| **Customizing** |  |  |  |
| SD1K901341 | SD1K901343 | * ZDEV\_ENHFAM * ZDEV\_ENHFVAL * ZCCCD | Table Contents |
| SD1K901341 | SD1K901427 | /IWFND/V\_MGDEAM | View Maintenance: Data |

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# Functional Description of Features and Function

**Business Requirement & High-Level Process Flow**

Elanco UK needs the ability to evenly distribute most of the products among the wholesalers/direct customers. There are scenarios where the customers may need to be overallocated with some products. This happens based on approval process which is outside SAP system. Whenever the order quantity in the sales order is modified based on the approval process that governs how much quantity the customer needs to be allocated to, the remaining quantity (if any) should be put as a new line item and it is rejected. This helps in tracking the customer requested quantity and how much quantity was actually allocated.

The customers/products that are not part of product allocation process, will have the stock confirmed based on first come first serve basis.

1. Dependencies

* Product allocation is activated in the S/4 platform
* Product allocation configuration is complete via FIORI
* Product Allocation Planning data is maintained correctly via FIORI

1. Assumptions

N/A

1. Security and Authorization Matters

N/A

1. Error Handling

N/A

|  |  |  |
| --- | --- | --- |
| **Error Message Number** | **Error Message TEXT (70 characters)** | **Error Conditions** |
| 1. |  |  |
| 2. |  |  |

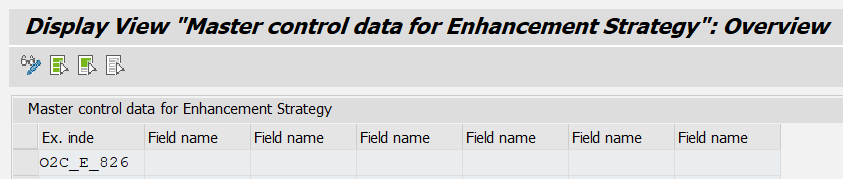
1. Issues and Resolutions:

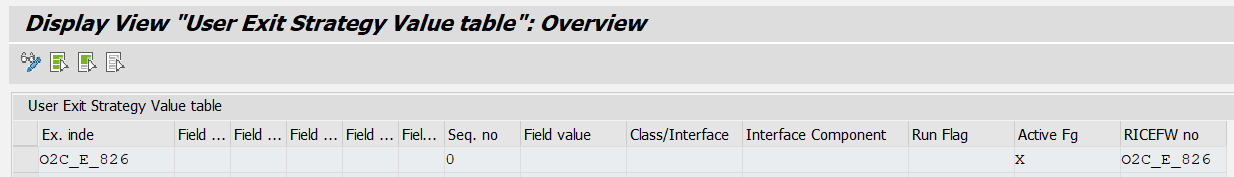
N/A

| **Issue #** | **Date Raised** | **Raised to/Resolved By** | **Issue Description** | **Issue Resolution** |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |
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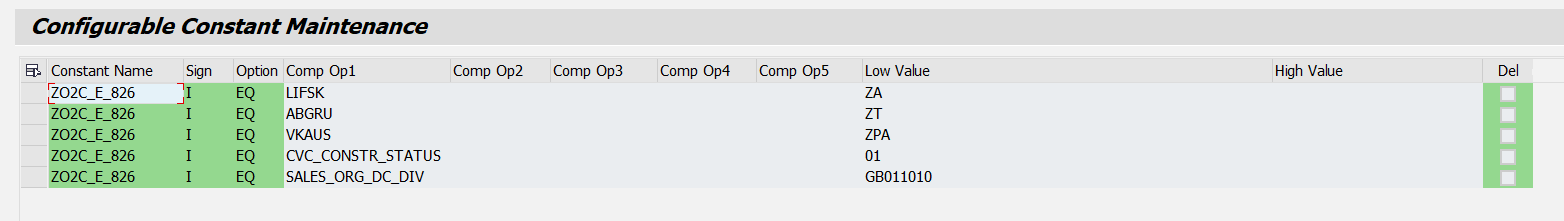
## TECHNICAL APPROACH / PROCESS FLOW

1. Activate the exit enhancement by maintaining the value in Enhancement Control Tables ZDEV\_ENHFAM and ZDEV\_ENHFVAL:





1. In CCD table maintain Delivery Header Block ‘ZA’, Item Reason for Rejection ‘ZT’, Item Usage Indicator ‘ZPA’, Product Allocation Characteristic Constraint Status ‘01’ and Concatenation of Sales Organization+Distribution Channel+Division ‘GB011010’(For UK).



1. In Include Program MV45AFZZ (Main Program - SAPMV45A), in User Exit USEREXIT\_SAVE\_DOCUMENT\_PREPARE, an Implicit Enhancement ZO2C\_E\_PRODUCT\_ALLOCATION is created to set Sales Order Delivery Block and Sales Order Item rejection if for any item Order Quantity is greater than Allocated Quantity in case of Sales Order Create or Change.
2. Include ZO2C\_N\_PRODUCT\_ALLOCATION is created under enhancement ZO2C\_E\_PRODUCT\_ALLOCATION, In this include first check, if the Enhancement is active in Enhancement Control table, if yes, then fetch CCD table entries to get the Delivery Header Block and Reason for Rejection values, then check if Transaction Type is ‘H’ or ‘V’ (Sales Order is being created or changed).

For change mode, if a new line item is inserted with no reason for rejection set or for any existing item order quantity is changed, then do the processing for those line items.

For each Sales Order Item(XVBAP), which are eligible for processing, check the Total allocated Quantity from XVBEP table, if Order item Quantity is Greater than Allocated Quantity, then first check, if Sales Order item has Product Allocation Strategy Defined, if yes, then Set Reason for Rejection for that Sales Order Item to ‘ZT’(Sales Allocation Denied)(Obtained from CCD table), also Set Delivery block ‘ZA’(Allocation Block) at Sales Order header level(VBAK-LIFSK = ‘ZA’) (Obtained from CCD table).

Now collect all the Sales Order items satisfying above criteria and give one popup using Message Store FMs with message ‘Below Items are Rejected due to Product Allocation:’ and items separated by comma, when Sales Order is being created or Changed in Foreground, means this popup is only applicable when we create or change Sales Order in Foreground mode.

1. In Include Program MV45AFZB (Main Program - SAPMV45A), in User Exit USEREXIT\_CHECK\_VBAK, an Implicit Enhancement ZO2C\_E\_REMOVE\_DELIVERY\_BLOCK is created to Remove the Delivery Block from Sales Order header, if Offline Approval is provided for Item Order Quantity Allocation(Item Usage Indicator set to ‘ZPA’).
2. Include ZO2C\_N\_REMOVE\_DELIVERY\_BLOCK is created under enhancement ZO2C\_E\_REMOVE\_DELIVERY\_BLOCK, In this include first check, if the Enhancement is active in Enhancement Control table, if yes, then check if Transaction type is ‘V’, means Sales Order is being changed, if yes, then fetch CCD table entries to get Delivery Header Block, Reason for Rejection values and Usage Indicator range table, then check if Delivery Block is set at Sales Order header(VBAK-LIFSK = ‘ZA’)(Obtained from CCD table), if yes, if any of the Sales Order Item(table XVBAP[]) has Usage Indicator set(VKAUS= ‘ZPA’ – Product Allocation Approved)(Obtained from CCD table) and Update indicator is ‘U’, if yes, then check if none of the Line item has Reason for Rejection ‘ZT’(Sales Allocation Denied) , if yes, then remove the Delivery Block from Sales Order header(VBAK-LIFSK = space).
3. In Include Program MV45AFZB (Main Program - SAPMV45A), in User Exit USEREXIT\_CHECK\_VBAP, an Implicit Enhancement ZO2C\_E\_REMOVE\_REJECTION\_REASON is created to Remove Reason for Rejection at Sales Order Item, if Offline Approval is provided for Item Order Quantity Allocation(Item Usage Indicator set to ‘ZPA’).
4. Include ZO2C\_N\_REMOVE\_REJECTION\_REASON is created under enhancement ZO2C\_E\_REMOVE\_REJECTION\_REASON, In this include first check, if the Enhancement is active in Enhancement Control table, if yes, then fetch the CCD table entries to get Item Reason for Rejection and Usage Indicator values, then check if Transaction Type is ‘V’(Sales Order is being changed), if yes, then check if for the Sales Order Item Reason for Rejection set(VBAP-ABGRU = ‘ZT’)(Obtained from CCD table) and Item Usage Indicator is set(VBAP-VKAUS = ‘ZPA’)(Obtained from CCD table), if yes, then remove the item Reason for Rejection(VBAP-ABGRU = space).
5. In Class CL\_READ\_PAL\_DATA, Method IF\_READ\_PAL\_DATA~GET\_PAL\_DATA\_UUIDS, At last of the method, an Implicit Enhancement ZO2C\_E\_UPDATE\_PA\_CHAR\_CNST\_ST is created to Set Product Allocation Characteristic Constraint Status to Unrestricted Availablity when user changes the Usage Indicator to 'Product Allocation Approved' for a Sales Order Line Item.
6. Include ZO2C\_N\_UPDATE\_PA\_CHAR\_CNST\_ST is created under enhancement ZO2C\_E\_UPDATE\_PA\_CHAR\_CNST\_ST, In this first check if the Enhancement is active or not, if yes, then get Sales Order header from stack (SAPMV45A)VBAK and Sales Order Item table from Stack (SAPMV45A)XVBAP[], then fetch the CCD table entries to get Usage Indicator and Sales Organization, Distribution Channel, Division combination range tables and Product Allocation Characteristic Constraint Status value. Get the Sales Organization, Distribution Channel, Division combination from Sales Order header data obtained from stack and check if this is there in range table prepared from CCD, if yes, then change the Product Allocation Characteristic Constraint Status to ‘01’(Obtained from CCD) in Product Allocation Order item data <order\_pal>, if for that Line item Usage Indicator is set to ‘ZPA’ (Obtained from CCD).

## Enhancement Techniques

**SAP User-Exits**

| Enhancement | Main Program | Includes | Form Routines |
| --- | --- | --- | --- |
| ZO2C\_E\_PRODUCT\_ALLOCATION | SAPMV45A | ZO2C\_N\_PRODUCT\_ALLOCATION | USEREXIT\_SAVE\_DOCUMENT\_PREPARE |
| ZO2C\_E\_REMOVE\_DELIVERY\_BLOCK | SAPMV45A | ZO2C\_N\_REMOVE\_DELIVERY\_BLOCK | USEREXIT\_CHECK\_VBAK |
| ZO2C\_E\_REMOVE\_REJECTION\_REASON | SAPMV45A | ZO2C\_N\_REMOVE\_REJECTION\_REASON | USEREXIT\_CHECK\_VBAP |

**Function Exits**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project | Enhancement | Component | Main Program Logical Trigger Point | Function Module Name | Includes |
| N/A |  | N/A | N/A | N/A |  |

**Field Exits**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Enhancement | Main Program Name | Function Module Name | Field Exit Id | Screen Number | Screen Field Name | Conditions for execution |
| N/A |  |  |  |  |  |  |

**Menu Exits**

|  |  |  |
| --- | --- | --- |
| Enhancement | Menu/Path | Function/Transaction Code |
| N/A |  |  |

**Screen Exits**

|  |  |  |  |
| --- | --- | --- | --- |
| Enhancement | Main Program Name | Screen Number | Program Name & Sub-Screen Number |
| N/A |  |  |  |

**Search Help Exits**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Field Name | Field Description | Import / Export (I/E) | Key Field (Y/N) | Data Element | Type (CHAR, NUMC) | Length | Default Value |
| N/A |  |  |  |  |  |  |  |

**Search Help assignment**

|  |  |  |
| --- | --- | --- |
| Standard Search Help | Collective Search Help | Elementary Search Help |
| N/A |  |  |

**BADI**

|  |  |  |  |
| --- | --- | --- | --- |
| BADI Definition | Implementation name | Methods | Comments |
|  |  |  | N/A |

**Custom Transaction**

N/A

**Requirement routine**

N/A

|  |  |
| --- | --- |
| Menu/Submenu |  |
| Routine number |  |
| Business logic required |  |

**Business Transaction event (If any.)**

N/A

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Event | | |  | | | | |
| Description | | |  | | | | |
| Sample Function Module | | |  | | | | |
| Custom Function | | |  | | | | |
| Identification Type (SAP or Partner) | | |  | | | | |
| Identification | | |  | | | | |
| Product | | |  | | | | |
| Configuration (fill in all that apply) | | | | | | | |
| Process / Event | Country | Application | | Function Module | Partner | Product | No |
|  |  |  | |  |  |  |  |

**Substitutions**

N/A

| Validation Description | Fields required for validation | Point of Validation | Table used in validation | Business Rules |
| --- | --- | --- | --- | --- |
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| --- | --- | --- | --- |
| Substituted Field | Derived from Field | Table used in Substitution | Business Rules |
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**Enhancement Framework**

|  |  |
| --- | --- |
| Composite Enhancement Spot |  |
| Enhancement Implementation | Description |
|  |  |
|  |  |
|  |  |

|  |  |  |
| --- | --- | --- |
| Implicit Enhancement Spot (requires Dev Team Lead approval) | | |
| Enhancement Name | Program/Object | Coding Block |
| ZO2C\_E\_UPDATE\_PA\_CHAR\_CNST\_ST | Class: CL\_READ\_PAL\_DATA  Method: IF\_READ\_PAL\_DATA~GET\_PAL\_DATA\_UUIDS |  |
|  |  |  |
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**Screen Details**

N/A

Screen Number:

|  |
| --- |
| Screen Layout: (type or attach details of screen layout) |

**Screen Field Mapping:**

N/A

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Field #\* | Field Description | Field Type | SAP Reference Field | Screen Field Length | Input/ Output Field | Mandatory/ Optional | Default values | Get Value (G)  Set Value (S)  Or Both (B)) | Match codes used  (if any) | Other field formatting requirements |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

*\* Number the fields sequentially for referencing.*

|  |
| --- |
| Other formatting requirements – left or right justification, padding requirements, invisible / visible, bright, etc.(necessary field validations and sorting logic, if any) |

**Processing Functionality**

N/A

|  |
| --- |
| Pre-screen display processing: |

|  |
| --- |
| Screen Processing Pseudo code: |

**Screen Flow Diagram**

N/A

**Custom Tables/Structure in SAP**

N/A

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table Name |  | | | | |
| Short TEXT |  | | | | |
| Table maintenance allowed |  | | | | |
| Field Name | | Type | Length | Key Field | Description |
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| Comments | | | | | |
|  | | | | | |

## Enhancement Additional Information and attachments

1. The field values represents the Transaction Codes for the report being executed. At the beginning of every enhancement component, it is checked if that enhancement is activated for the respective Transaction Code, by calling the Class-Method ZCL\_DEV\_USEREXITCONTROL=>GET\_EXIT\_METHOD\_NAME with the following interface:

EXPORTING

IM\_EXITID = lc\_extid\_826

IM\_FLDVAL1 = lv\_fldval

IMPORTING

EX\_ZCENH\_FVAL\_TT = DATA(li\_zcenh\_fval).

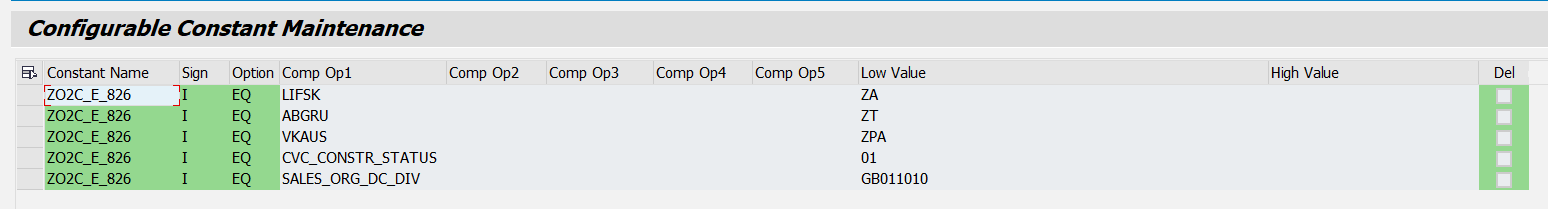
**Relevant Reconciliation Reporting**

N/A

**Attachments**

N/A

**Configurable Constants (CCD) :**



| Number | Variable Name | Constant Name | Entity | Track | FDS ID | Variable 1 | Variable 2 | Variable 3 | Variable 4 | Value Low |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | ZO2C\_E\_826 |  |  | 826,827 | LIFSK |  |  |  | ZA |
|  |  | ZO2C\_E\_826 |  |  | 826,827 | ABGRU |  |  |  | ZT |
|  |  | ZO2C\_E\_826 |  |  | 826,827 | VKAUS |  |  |  | ZPA |
|  |  | ZO2C\_E\_826 |  |  | 826,827 | CVC\_CONSTR\_STATUS |  |  |  | 01 |
|  |  | ZO2C\_E\_826 |  |  | 826,827 | SALES\_ORG\_DC\_DIV |  |  |  | GB011010 |

**HANA Artefacts**

N/A

**Object List :** List out all the HANA artifacts which is required to be created/changed

N/A

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

**DB Procedure Details:** Specify the details of DB procedure

N/A

**Procedure Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Parameter Type | Parameter Data Type | Data Type | Length | Scale |
|  | **IN/OUT** |  |  |  |  |

**Procedure Logic:**

**DB Objects (View/Table) :** Specify the details of DB object structure

| View Column | Table Column | SQL Data Type | Dimension | Not Null | Default |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**Attach View Screenshot**

N/A

# Unit Test Plan

| **Test Condition** | **Step** | **Step Description** | **Test Data** | **Expected Result** | **Actual Result** | **Executed By/Date** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Order Creation with Multiple Materials, for which Allocation is active and Order Quantity is within Allocation range | 1.0 | Go to VA01 and create SO with item Materials having Allocation Active and Order Quantity is less than Allocated Quantity | Sales Org – GB01  Order type – ZOR  Dist Chanel – 10  Division – 10  Sold-to-Party – 50026291  Materials : AH0944005EL, AF720082XAA | Order should be saved without Allocation block as Delivery block in Sales Order header and No item is rejected due to Sales Allocation Denied |  | Rahul Chandwani/  07-Mar-2022 | Successful |
| Order Creation with Multiple item Materials where more than one item has Order Quantity more than Allocated Quantity | 2.0 | Go to VA01 and create SO with more than one item Materials having Allocation active and Order Quantity is more than the Allocated Quantity | Sales Org – GB01  Order type – ZOR  Dist Chanel – 10  Division – 10  Sold-to-Party – 50026291  Materials : AH0944005EL, AF720082XAA,  87244318 | A popup should come with Overallocated Items rejected. Order should be blocked with Header Delivery block(‘ZA’ – Allocation Block) and all the items having Product Allocation Active and Order Quantity greater than Allocated Quantity should be rejected with Reason for Rejection (‘ZT’ – Sales Allocation Denied) |  | Rahul Chandwani/  07-Mar-2022 | Successful |
| Open the Order created in Step 2 in change mode and out of the Rejected Items, set Usage Indicator(‘ZPA’ – product Allocation Approved) for one item | 3.0 | Go to VA02 and open Sales Order 100237596 created in step 2 and set the Usage Indicator to ‘ZPA’ for item 20, For other rejected item 30, set User Defined Rejection Reason ‘ZU’ – ‘Product Allocation Denied’ as user still wants to keep it rejected and save the order | Sales Order - 100237596 | Header Delivery Block ‘ZA’ should be removed from the Order and Reason for Rejection ‘ZT’ should be removed for item(Item 20) for which Usage Indicator ‘ZPA’ is set |  | Rahul Chandwani/  07-Mar-2022 | Successful |
| Open Sales Order created in step 2 after doing step 2 and 3 and add one more line item having Material Order Quantity Greater than Allocated Quantity | 4.0 | Go to VA02 and open Sales Order 100237596 and add another Line item with Material having Order Quantity Greater than Allocated Quantity and save the order | Sales Order - 100237596  Material: AH063550EAA | A popup should come with New Item Rejected message and Header Delivery Block ‘ZA’ (Allocation Block) should be set and Reason for Rejection ‘ZT’(Sales Allocation Denied) should be set for the new item |  | Rahul Chandwani/  07-Mar-2022 | Successful |
| Create a Sales Order with Materials having Order Quantity Greater than the Allocated Quantity, then in change mode update the Usage Indicator to ‘ZPA’ for all Items, then Create another Sales Order with Same Materials with any Quantities | 5.0 | Create a Sales Order with Materials having Order Quantity Greater than the Allocated Quantity, then in change mode update the Usage Indicator to ‘ZPA’ for all Items, then Create another Sales Order with Same Materials with any Quantities | Sales Org – GB01  Order type – ZOR  Dist Chanel – 10  Division – 10  Sold-to-Party – 50026291  Materials : AF720082XAA, AH063550EAA | Second Sales Order should have 0 Quantity confirmed for all the Items as full Allocated Quantities has already been consumed in the First Sales Order for all the Materials |  | Rahul Chandwani/  15-Mar-2022 | Successful |

**Normal Functionality**

| **Test Condition** | **Step** | **Step Description** | **Test Data** | **Expected Result** | **Executed By/Date** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |

Attach Actual Results Here

**Exception** - special logic or exceptions (e.g. do not process Government Markets customers, only process pre-packs)

| **Test Condition** | **Step** | **Step Description** | **Test Data** | **Expected Result** | **Executed By/Date** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- |
| N/A |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

Attach Actual Results Here

Error Handling - functionality in case of errors (e.g. Customer not found, Record already exists)

| **Test Condition** | **Step** | **Step Description** | **Test Data** | **Expected Result** | **Executed By/Date** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- |
| N/A |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

Attach Actual Results Here

# Appendix

N/A

1. Glossary of Terms

*TEXT TO BE REMOVED, GUIDANCE ONLY <* >END OF GUIDANCE TEXT