

# KIT TO STOCK

THE KIT-TO-STOCK PROCESS IS PRIMARILY USED TO CREATE KITS AND THEN TRANSFER THEM TO STOCK. A KIT IS A LIST OF PRODUCTS THAT ARE ALWAYS DELIVERED TOGETHER. KIT-TO-STOCK MANAGEMENT PROVIDES WITH A SIMPLE, STREAMLINED KIT-CREATION PROCESS THAT IS EXECUTED AND DOCUMENTED IN THE WAREHOUSE. THIS CAN BE EITHER TRIGGER KIT CREATION MANUALLY IN THE SAP S/4 SYSTEM BASED ON A PRODUCTION ORDER( MANUFACTURING ORDER), OR IN THE SAP EWM SYSTEM DIRECTLY, USING A VALUE-ADDED SERVICE ORDER (VAS ORDER). THIS BLOGS IS WRITTEN TO EXPLAIN 'KIT TO STOCK' PROCESS FROM S/4 SYSTEM VIA CREATION OF PRODUCTION ORDER WITH VAS.

**DEFINITION:** A KIT IS A LIST OF PRODUCTS THAT ARE ALWAYS DELIVERED TOGETHER. EXAMPLES OF KITS INCLUDE THE FOLLOWING ENTITIES

- GROUPS OF MATERIALS USED TO REPAIR A PIECE OF MACHINERY
- GROUPS OF MATERIALS USED FOR ASSEMBLY TASKS
- ADD-ON PRODUCTS FOR OTHER PRODUCTS
- DISPLAYS OR ASSORTMENTS OF PRODUCTS TO SELL IN A RETAIL STORE

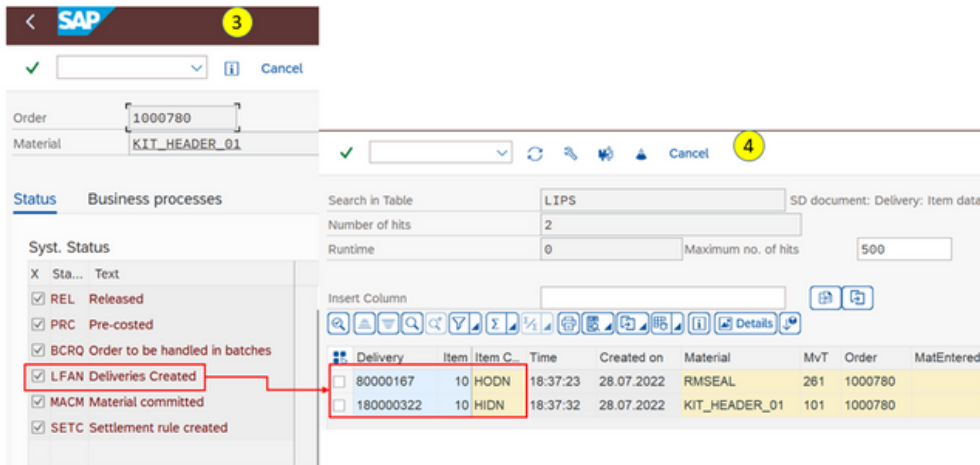
TO SET UP "KIT TO STOCK" MANAGEMENT IN SYSTEM, SAP SUGGESTS TO ACTIVATE BELOW BC SETS /SCWM/KTS\_KTR IS A HIERARCHICAL BC SETS WHICH NEEDS ACTIVATION OF LOWER BC SETS ALSO. /SCWM/KTS, /SCWM/KTR AND /SCWM/KTS\_KTR\_DLV.

CREATION OF PRODUCTION ORDER IN S/4. THE PRODUCTION SCHEDULING PROFILE IN S/4 FACILITATE KIT TO STOCK MANAGEMENT

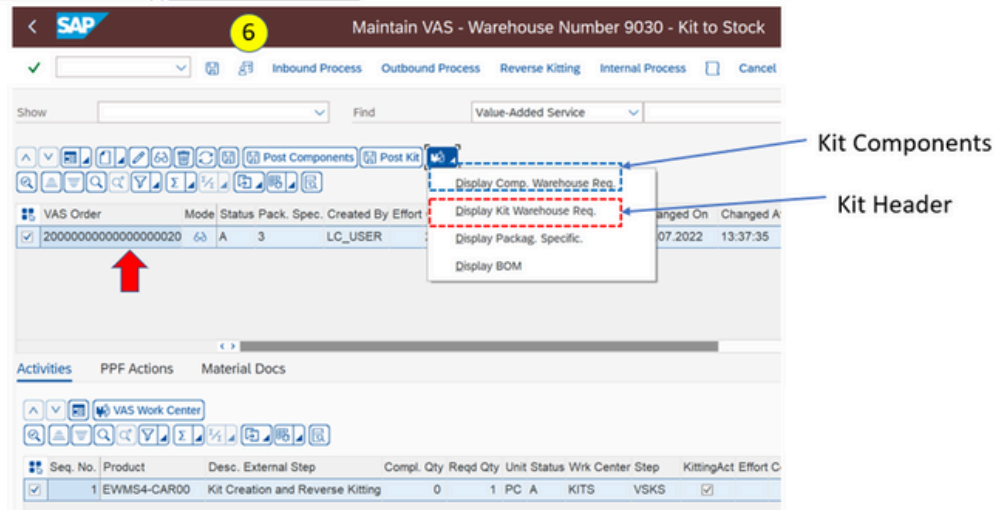
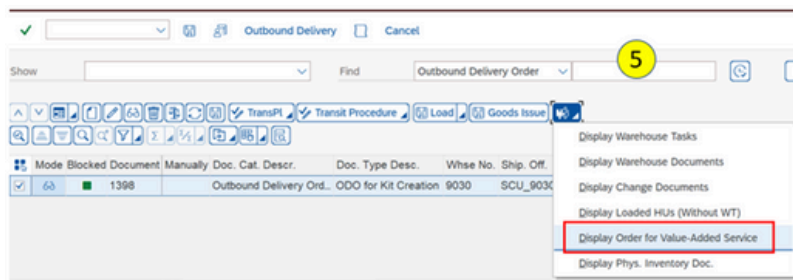
The screenshot shows the SAP Production Scheduling Profile configuration for a Kit to Stock production order. The interface includes a top navigation bar with 'SAP' logos and a 'Change View "Production Scheduling Profile"' button. The main area is divided into several sections: 'Order' (Order No: N00000000001, Material: KIT\_HEADER\_01, Status: CRTD BCRO MACM SETC), 'Plant' (9030, Plant 9030 Texas Plant), 'Prod. Sched. Profile' (2K1TS, Kit to Stock), 'Transport' (checkboxes for Complete Transfer Requirement, Confirmed Quantity for TR, WM Request, GI via Delivery, and Kit to Stock in EWM), 'Scheduling' (Calc. Cap. Reqs. checked, Exact breaks unchecked), and 'Order Type' (Make-to-Stock Production, Make-to-Order Production, Engineer-to-Order Prodn, Without Material). A red dashed line highlights the 'Kit to Stock in EWM' checkbox and the '2K1TS Kit to Stock' profile selection in the 'Production Scheduling Profile' section.

ONCE PRODUCTION IS RELEASED, IT CREATES 2 DELIVERIES- OUTBOUND FOR KIT COMPONENTS AND INBOUND FOR KIT HEADER. PRODUCTION ORDER MUST HAVE STATUS AS "LFAN" SYMBOLIZING CREATION OF DELIVERIES. CHECK LIPS TABLE WITH ORDER NUMBER( AUFNR) OR WITH VL060/I TRANSACTION FOR DELIVERIES.

# KIT TO STOCK

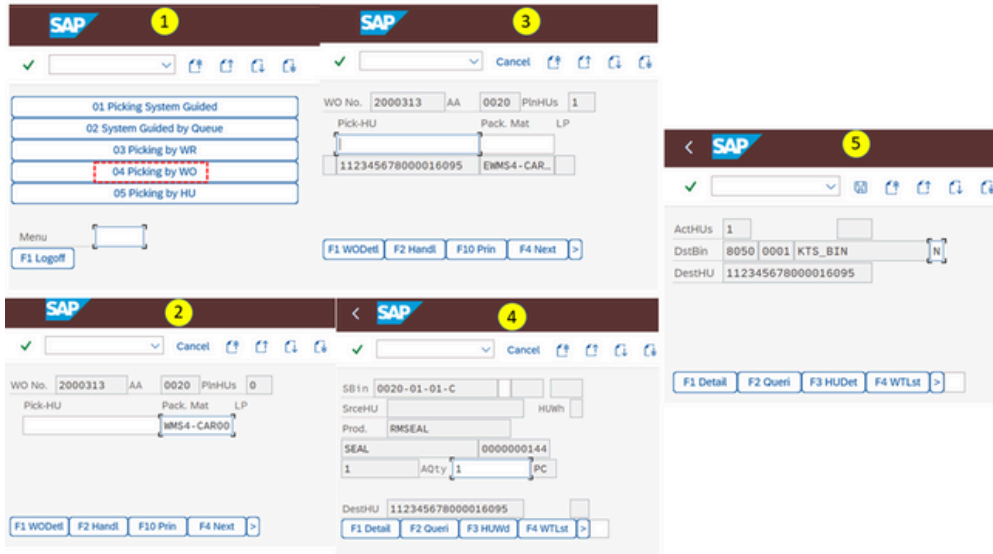


CHECK EWM MONITOR FOR DISTRIBUTED KITTING DELIVERIES. A VAS ORDER IS THE CONNECTING BRIDGE BETWEEN INBOUND & OUTBOUND DELIVERY.

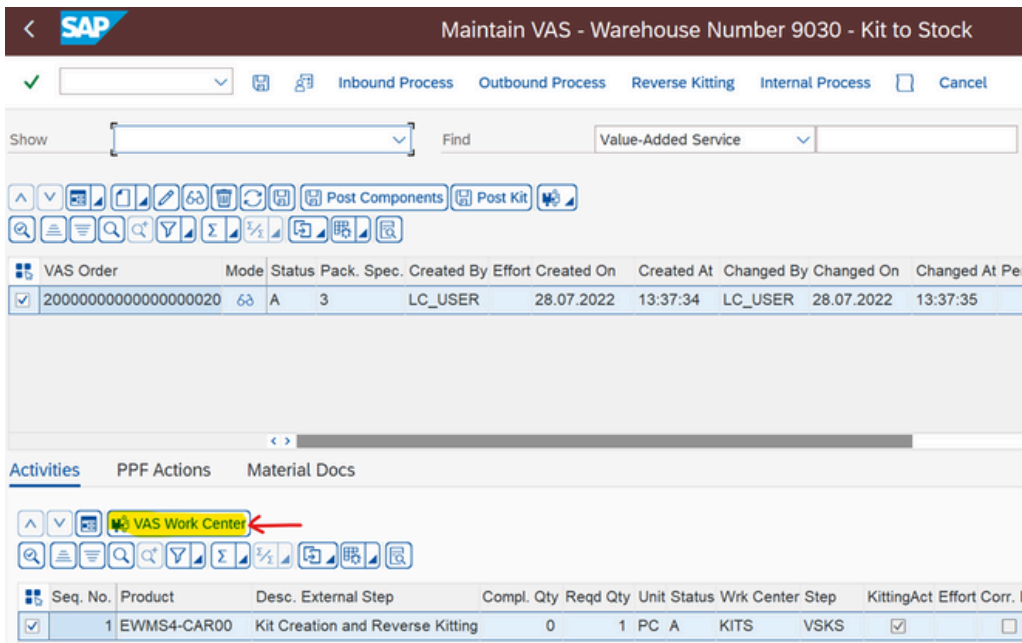


CONDUCT PICKING OF KIT COMPONENTS TO A WORK CENTER. THE KITS ARE ROUTED TO WORK CENTRE VIA A PICK HU.

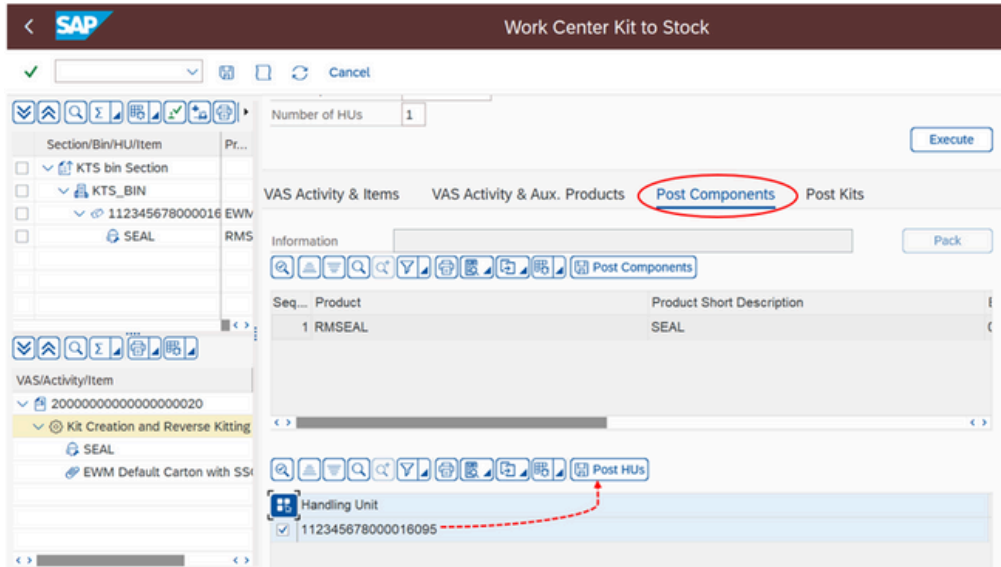
# KIT TO STOCK



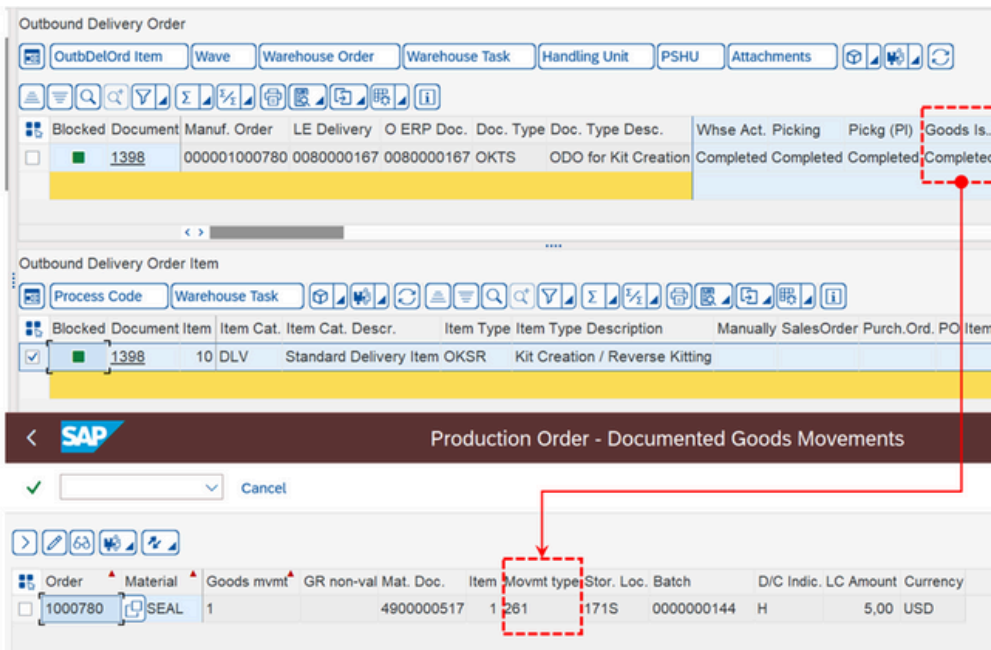
PERFORM KITTING PROCESS VIA NAVIGATING TO 'KITTING VAS WORK CENTER'



# KIT TO STOCK

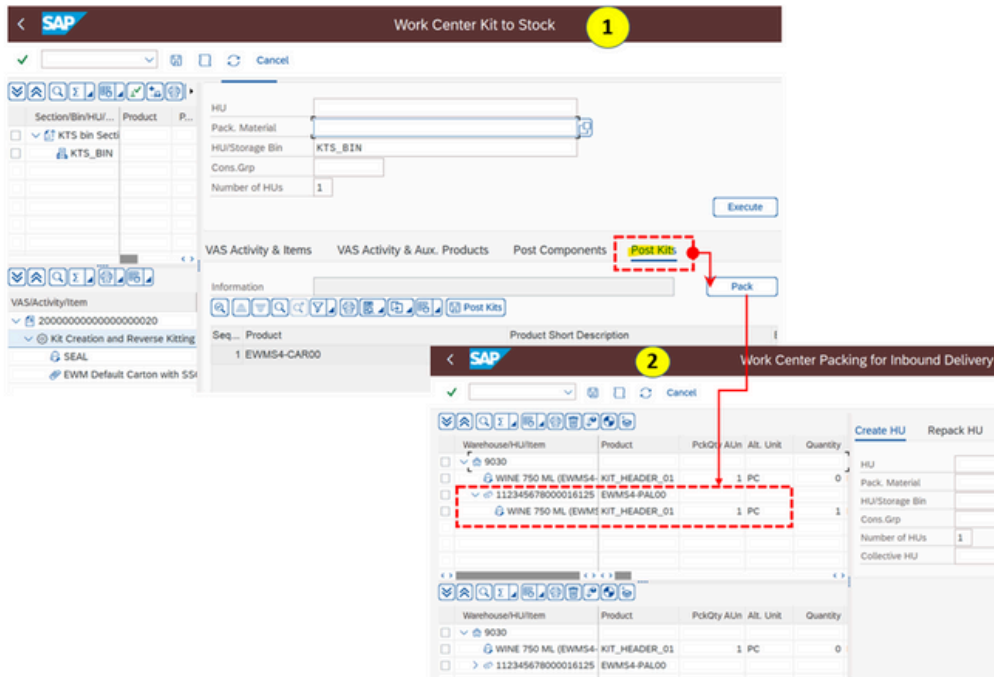


ONCE KIT COMPONENT IS POSTED, CONSUMPTION IS TRIGGERED.

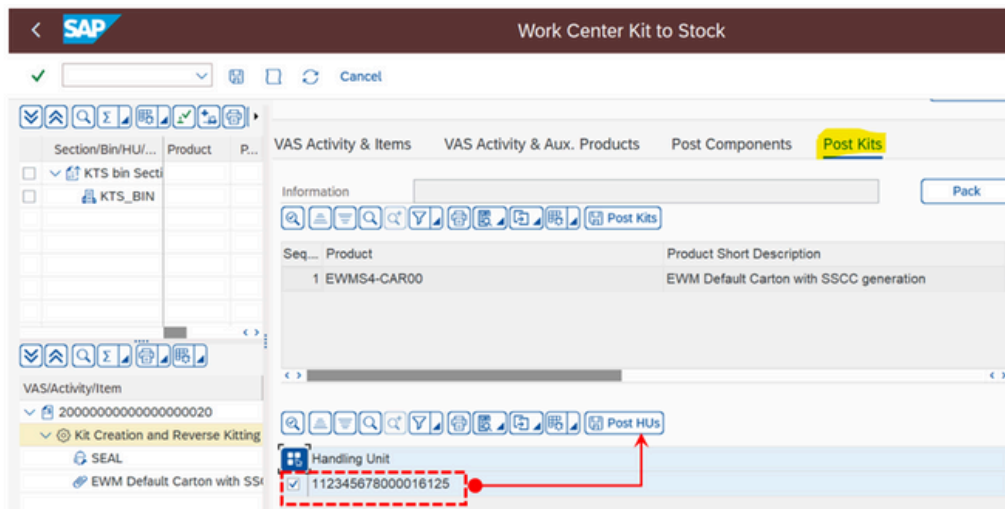


NOW, POST THE KIT HEADER PRODUCTION.

# KIT TO STOCK



## POST KIT HEADER PRODUCTION VIA PACKING IN HU



GOODS RECEIPT IS UPDATED IN INBOUND DELIVERY AND 101 IS POSTED IN S/4 PRODUCTION ORDER.

# KIT TO STOCK

The screenshot shows two SAP screens. The top screen is 'Maintain Inbound Delivery - Warehouse Number 9030 (Time Zone CST)'. It displays a table with columns: Mode, Blocked, Document, Manually, Doc. Cat., Descr., Document Type, Description, Whse No., GR Office, ASN, Goods Rcpt., and Putaway. A red dashed box highlights the 'Goods Rcpt.' column with the value 'Completed'.

The bottom screen is 'Production Order - Documented Goods Movements'. It displays a table with columns: Order, Material, Goods mvmt, GR non-val, Mat. Doc., Item, Movmt ty..., Stor. Loc., Batch, D/C Indic., LC Amount, and Currency. A red dashed box highlights the 'Item' column with the value '101'.

Red arrows indicate the flow of information: one arrow points from the 'Goods Rcpt.' column in the top screen to the 'Goods Receipt' document in the 'Document Flow' section below it, and another arrow points from the 'Goods Receipt' document to the 'Item' column in the bottom screen.

LATER, KIT HEADER CAN BE PUTAWAYED TO FINAL BIN IN WAREHOUSE. THIS COMPLETES THE PROCESS.

## LESSER KNOWN FACTS ABOUT KIT TO STOCK

OVERPICKING OF KITTING DELIVERY: IT IS POSSIBLE TO CARRY OUT OVER PICKING IN EWM IF THE 'UNLIMITED OVERDELIVERY ALLOWED' INDICATOR HAS BEEN SET FOR THE SHIP-TO OF THE KTS OUTBOUND DELIVERY.

The top part of the screenshot shows SAP code lines 211 to 214:

```

211 * Tolerance indicators from ship-to master data. "n_2067499
212   ls_komdign-uebtk = ls_knvv-uebtk.
213 *   ls_komdign-uebto = ls_knvv-uebto.
214 *   ls_komdign-untto = ls_knvv-untto.
  
```

The bottom part shows the 'Partial Deliveries' configuration screen. It has several checkboxes: Complete Delivery, Max.Part.Deliveries, Part.div./item, Unlimited Tolerance, and Underdel. Tolerance. The 'Unlimited Tolerance' checkbox is checked and highlighted in yellow. A red arrow points from the 'Unlimited Tolerance' checkbox to the 'Partial delivery allowed' text.

# KIT TO STOCK

**CO- PRODUCTS IN PRODUCTION ORDER AND MANY OTHER RESTRICTIONS:BELOW PROCESS WILL NOT TRIGGER ANY KITTING DELIVERY FROM S/4, RELEASE REJECTION ERROR GETS PROMPTED**

## Order Realization as Kit to Stock in EWM

Specifies that the execution of the order is to take place in an EWM system as a kit-to-stock process.

### Use

Set this indicator if orders with this production scheduling profile are to trigger a kit-to-stock process in a connected EWM system at the time of order release.

### Dependencies

If this indicator has been set, order release can only be effected subject to certain preconditions:

- The order contains no **co- or by-products** and a goods receipt is expected for the order item.
- The order does not belong to an **order network**.
- None of the order components is to be **backflushed**, is procured externally, or is a **"part to be provided"** (subcontracting component)
- The requirement **date/time** of all goods-movement-relevant components is identical.
- The plant/storage location combination of the order item and all goods- movement-relevant components refer to the same warehouse number and this warehouse is managed by the EWM system.
- No operation of the order provides for **automatic goods receipt**.
- A **trigger point that creates a rework order** or inserts a reference operation set is not defined in any operation.

If one of these conditions is not satisfied, release is refused and either another production scheduling profile must be chosen or the reason for refusal dealt with.

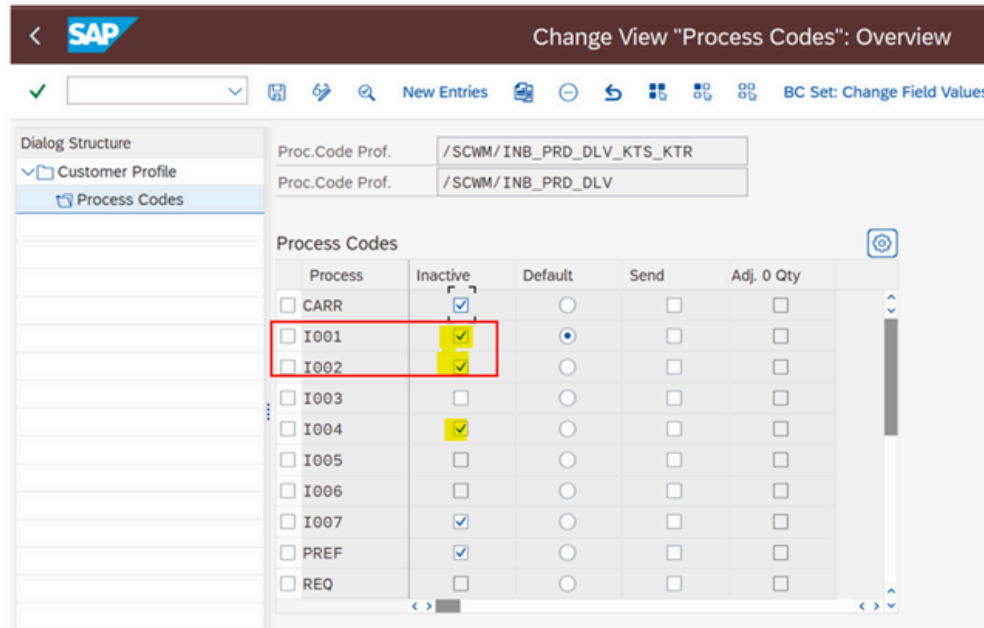
Following the successful release of the order, an outbound delivery is created for the components and an inbound delivery for the order item. These are then distributed to the EWM system. After this, the order itself cannot be changed.

**KIT TO STOCK WITH SALES ORDER STOCK OR PROJECT STOCK:KIT TO STOCK IS ALSO SUPPORTED WITH SPECIAL STOCK LIKE SALES ORDER STOCK OR PROJECT STOCK.**

```
149 ls_komdign-lifex = l_delnr.
150 ls_komdign-ape_lifex_type = go_lifex_type_kta.
151
152 * Delivery item specific values
153 ls_komdign-matnr = ls_afpo-matnr.
154 ls_komdign-werks = ls_afpo-pwerk.
155 ls_komdign-ablad = ls_afpo-ablad.
156 ls_komdign-meins = ls_afpo-meins.
157 ls_komdign-vrkme = ls_afpo-amein.
158 ls_komdign-lifmg = ls_afpo-pamng - ls_afpo-peamg.
159 ls_komdign-umvrx = ls_afpo-umrex.
160 ls_komdign-umvrxn = ls_afpo-umren.
161 ls_komdign-lfdat = ls_caufv-gltre.
162 ls_komdign-lfchr = ls_caufv-gluss.
163 ls_komdign-almng = go_use_alt_qnan.
164 ls_komdign-lqort = ls_afpo-lqort.
165 ls_komdign-charg = ls_afpo-charg.
166 ls_komdign-cuobj = ls_afpo-cuobj.
167 ls_komdign-sobks = ls_afpo-sobks.
168
169 ls_komdign-gwber = ls_afpo-gwber.
170 ls_komdign-aufnr = ls_afpo-aufnr.
171 ls_komdign-poans_pp = ls_afpo-poans.
172 ls_komdign-vbelv = ls_afpo-kdaut.
173 ls_komdign-soansv = ls_afpo-kdosa.
220
221 * Delivery item specific values
222 ls_komdign-matnr = ls_reab-matnr.
223 ls_komdign-werks = ls_reab-werks.
224 ls_komdign-meins = ls_reab-meins.
225 ls_komdign-lqmgng = ls_reab-bdmgng.
226 ls_komdign-vrkme = ls_reab-erfme.
227 ls_komdign-lifmg = ls_reab-erfmg.
228 ls_komdign-umvrx = ls_reab-umrex.
229 ls_komdign-umvrxn = ls_reab-umren.
230
231 * ls_komdign-wadat = ls_reab-bdter.
232 ls_komdign-lfdat = ls_reab-bdter.
233 ls_komdign-almng = go_use_alt_qnan.
234 ls_komdign-lqort = ls_reab-lqort.
235 ls_komdign-charg = ls_reab-charg.
236
237 * ls_komdign-sobks = ls_afpo-sobks.
238 IF ls_komdign-sobks = 'X'.
239   IF ls_reab-lifnr CO '0123456789'.
240     UNPACK ls_reab-lifnr TO ls_komdign-sonum.
241   ELSE.
242     ls_komdign-sonum = ls_reab-lifnr.
243   ENDIF.
244 ENDIF.
245
246 ls_komdign-cuobj = ls_reab-cuobj.
```

**REGENERATION OF DELETED KITTING INBOUND DELIVERY: THERE IS NO WAY TO GENERATE DELETED OR REJECTED INBOUND DELIVERY FROM EWM. KITTING DELIVERIES(KIT TO STOCK) ARE ALWAYS CREATED FROM PRODUCTION ORDER. KIT TO STOCK DELIVERIES CAN ALSO BE NEVER CREATED FROM MANUFACTURING ORDER CONFIRMATION OR VIA MIGO. IT IS ALWAYS RECOMMENDED TO SWITCH OFF THE "PROCESS CODE" FOR THE REQUIRED PROCESS CODE PROFILE RELEVANT TO KIT TO STOCK INBOUND DELIVERY.**

# KIT TO STOCK



**IMPORTANT FUNCTIONAL MODULES:BELOW ARE IMPORTANT AND CRITICAL FUNCTION MODULES AVAILABLE FOR DEBUGGING KIT TO STOCK PROCESS**

Repository Info System: Function Modules Find (15 Hits)

Function group	Function group short text
Function Module Name	Short text for function module
/SPE/KTS_HANDLING	Kit-to-Stock Functions in Prodn Order
/SPE/KTS_APPL_LOG_WRITE	Write Application Log for Kit-to-Stock Queue Processing
/SPE/KTS_COMPONENTS_CHECK	Check for Order Components
/SPE/KTS_DATA_RESET	Reset Global Data
/SPE/KTS_DLVRY_CREATE	Create KTS Deliveries During Order Saving
/SPE/KTS_DLVRY_CREATE_BACKGRD	Create KTS Deliveries in Background
/SPE/KTS_IBDLV_CREATE	Create KTS Inbound Deliveries
/SPE/KTS_ITEM_CHECK	Checks for Order Items
/SPE/KTS_NUMBER_SWITCH	Number Switch for Order Number
/SPE/KTS_OBDLV_CREATE	Create KTS Outbound Deliveries
/SPE/KTS_OPERATIONS_CHECK	Check for Order Operations
/SPE/KTS_ORDER_CHECK	Call Checks for Kit-to-Stock Order
/SPE/KTS_RESERVATIONS_UNLOCK	Release Locks on Reservations
/SPE/KTS_RESERVATION_POST_DB	Posr Reservation to DB
/SPE/KTS_RESERVATION_SAVE	Speichern der Reservierungen zu KTS Anlieferungen
/SPE/KTS_RESERVATION_UPDATE	Create/Change Reservation for KTS Inbound Deliveries