

ERP-621 Restrict Sales Order Changes after Process Order Release

Status	Approved
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Stakeholders	Amine Ait Quakli
Jira Request ID	⚠ ERP-192 - Jira project doesn't exist or you don't have permission to view it.
Jira Development ID	⚠ ERP-621 - Jira project doesn't exist or you don't have permission to view it.

High- Level Specification

Parameter	Value
Application System	Application System (Source)S/4Hana ROW, S/4Hana China, S/4Hana CUI
Business Process Reference	02.04.02.01. Manage Standard Sales Orde

Functional Overview

Business Requirement

For sales order items that are specification-based, the specification must remain fixed once production has started. This ensures:

- Full alignment between Sales and Production
- Prevention of mismatches between planned vs. produced specifications
- Protection of product quality and compliance once manufacturing begins

In addition to locking specification fields, the business also requires control over other critical fields that impact production, and planning once a Process Order is in **Released (REL)** status.

1. **Prevent changes to the Specification fields after Process Order Release.**
If the sales order item is spec-based and the linked Process Order is in Released (REL) status, no change to the specification fields at item level is allowed. This ensures alignment between Sales and Production, prevents mismatches between planned vs. produced specifications, and protects product quality and compliance once manufacturing has started.
2. **Prevent changes to the Single Parent Batch indicator (ZZ_SINGLEPB) after Process Order Release.**
If the item is flagged for Single Parent Batch and the linked Process Order is Released, no change to this indicator is allowed. This ensures batch traceability, manufacturing consistency, and prevents downstream variance.
3. **Issue a warning when the Confirmed Delivery Date is changed after Process Order Release.**
Changes to the confirmed date after production has begun may impact planning, ATP, loading schedules, and customer commitments; therefore, the user must be alerted.
4. **Issue a warning when the Confirmed Quantity is changed after Process Order Release.**
Changing the confirmed quantity after the order is in production may impact material staging, availability checks, and production planning. A warning is required to make the CSR aware of potential downstream impacts.

Scope and Objectives

This WRICEF covers a system validation enhancement in **Fiori App: Manage Sales Orders – Version 2 (F3893)** and **SAP GUI VA02**, executed during sales order change mode.

The objective is to:

- Detect when a sales order line item is linked to a Process Order
- Confirm whether the Process Order has system status **REL**
- Prevent any modification to **Specification fields** once REL status is reached
- Prevent any modification to the **Single Parent Batch indicator (ZZ_SINGLEPB)** once REL status is reached
- Issue a **warning** when the **Confirmed Delivery Date** is changed after REL
- Issue a **warning** when the **Confirmed Quantity** is changed after REL
- Display an error message and block the save action for fields that are restricted after REL

Apply this rule only to all orders that are linked to a **Process Order** in the PCCD tool [Jira-1022](#):

And they have the following fields maintained:

- Specification
- Single Parent Batch fields.
- Confirmed Delivery Date
- Confirmed Quantity

Ensure no impact to:

- Other Sales Orders
- Non-spec-based items

The Process Order link is determined via the **Z-table maintained by the PCCD tool ("new IPA")**. [Jira-1022](#)

WHY STANDARD IS NOT SUFFICIENT

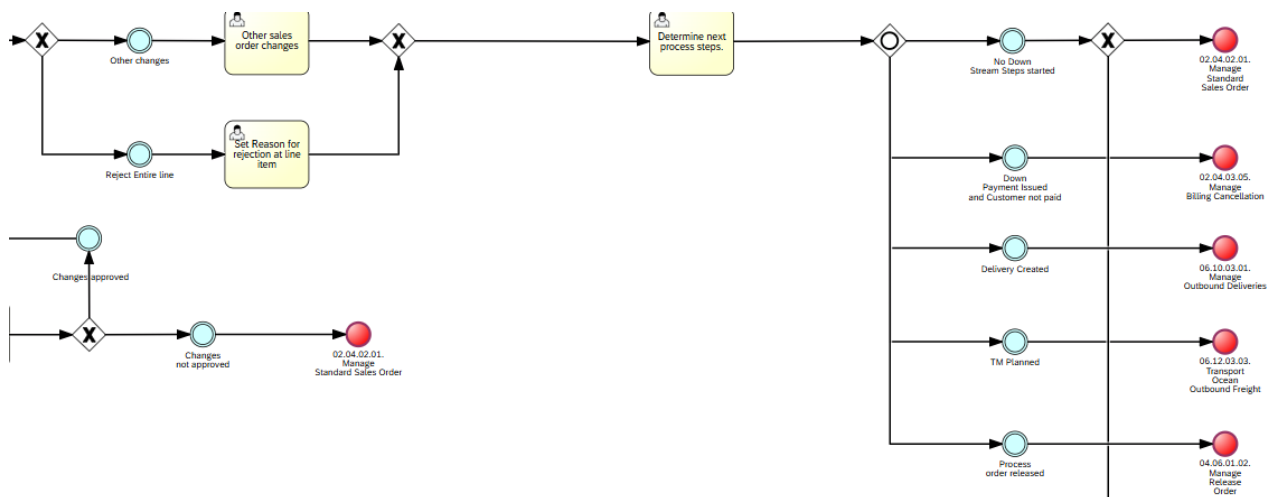
SAP standard does **not** provide functionality to restrict updates to sales order specification fields based on the status of a linked Process Order.

Key limitations include:

- SAP does not cater for specification fields at sales order item level; these fields are custom (Z-fields). Therefore, standard SAP cannot control, validate, or freeze them based on production status.
- This is not a standard Make-to-Order (MTO) scenario; instead, the sales order and Process Order are connected via a "soft" link in Production.
- No standard integration exists between specification data and the Process Order system status (REL).
- Standard logic cannot prevent late specification changes that would desynchronize Sales and Production.
- High operational risk remains that outdated or incorrect specifications could be used once production has already started.

Process Flow Diagram

The scope of this enhancement is depicted in process step **Other Sales Order Changes** below. For the full Signavio, please go to [02.04.02.09. Manage Sales Order Execution Exceptions](#)



Step	Description	Comment
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1.	Sales order created.	Sales order created with one or many Specifications per line item. ERP-622 Sales Order Management User Interface. Sales order created with Single Parent Batch indicator (ZZ_SINGLEPB) Sales order created with a confirmed qty Sales order created with a confirmed date
2.	Process Order created.	Process Order is created for production of sales orders.
3.	Sales Order linked to Process order in PCCD tool	The linking between the Sales Order and the Process Order within PCCD. https://syensqo.atlassian.net/browse/ERP-1022 - Production Confirmation Consumption Dashboard (New IPA).
4.	Process Order Released	A few days before production starts - manual process. Shop floor activities started.
5.	Sales Order Changed	Specifications changed on the sales order line item level.

Assumptions

1. Process Order Linkage Is Available and Accurate

- The linkage between **Sales Order Item** **Process Order** is derived from the Z-table maintained by the **PCCD** (“new IPA”) tool. <https://syensqo.atlassian.net/browse/ERP-1022>
- It is assumed that this table is **correctly and consistently updated** prior to any sales order change.

2. Process Order Must Be in “REL” Status to Trigger the Restriction

- The enhancement assumes that **system status REL (Released)** is the correct and only status during which specification fields must be frozen.
- Any earlier process order statuses (e.g., **CRTD**, **PREL**) will **not** trigger restrictions.

3. Only Certain Fields Are Blocked

- The enhancement restricts changes only to the following fields when the linked Process Order is in **Released (REL)** status:
 - Specification Z-fields (ZZ1_SPEC_ID)** (blocked)
 - Single Parent Batch indicator (ZZ_SINGLEPB)** (blocked)
 - Confirmed Delivery Date** (warning)
 - Confirmed Quantity** (warning)

4. VA02 (SAP GUI) and the Fiori App “Manage Sales Orders – Version 2 (F3893)” are the user interfaces in scope for this enhancement, with the Fiori application serving as the primary UI.

5. Error and Warning Messages Will Enforce Controls

- For fields that are **restricted after Process Order Release (REL)**—namely the **Specification fields (ZZ1_SPEC_ID)** and the **Single Parent Batch indicator (ZZ_SINGLEPB)**—the system must raise an **error message**. This error must block the user from saving the sales order.
- For fields that must remain editable but require user awareness—namely the **Confirmed Delivery Date** and **Confirmed Quantity (VBEP - BMENG)**—the system must raise a **warning message**. Warnings must allow the user to continue and save the sales order.

6. Applicable Only to Open Sales Orders

- The enhancement applies only to sales orders that are **still open**.
- Orders that are **fully delivered, billed, or otherwise closed** are excluded from scope.

Dependencies

- The linking between the Sales Order and the Process Order within PCCD. <https://syensqo.atlassian.net/browse/ERP-1022> - Producti on Confirmation Consumption Dashboard (New IPA) DRAFT
- ERP-622 Sales Order Management User Interface.

Security, Integrity and Controls

The enhancement will follow the SAP standard security and authorization framework.

The authorization to maintain these fields should be included in the Customer Representative Role as part of the **Manage Sales Orders v2 - F3893 and VA02 (SAP GUI)**

Configuration Requirements

Not Applicable

Language Requirements

Not Applicable

Special Requirements

Not Applicable

Design Rationale

Functional Requirements

This enhancement applies in **Manage Sales Orders v2 (F3893)** — *the primary UI*

Applicability Conditions for Restricting Specification and Related Field Changes

Sales Order Item Processing Status Validation

Specification and related field restrictions apply only when the sales order item's Overall Processing Status:

- VBSTT-GBSTA_BEZ Completed

Sales Order Process Order Linkage

The system must determine the linked Process Order via the existing Z-table maintained by the PCCD ("new IPA") tool. <https://syensqo.atlassian.net/browse/ERP-1022> - Production Confirmation Consumption Dashboard (New IPA) DRAFT

1. Specification ID Selection & Change Prevention

When the linked Process Order is in **REL** status:

- No new **Spec ID** may be selected via the Specification Selection Screen (Reference: ERP-622)
- The existing value in **ZZ_SPEC_ID** may not be changed.
- Any attempt to assign, replace, or update the specification must be **blocked with an error**.
- This rule applies even if the specification was previously defaulted.

2. Single Parent Batch Change Restriction

When the linked Process Order is in **REL** status:

- The **Single Parent Batch indicator (ZZ_SINGLEPB)** cannot be changed. (This includes selecting or deselecting the indicator.)
- Any adjustment must trigger a **blocking error message**.

3. Confirmed Delivery Date Change Warning

When the linked Process Order is in **REL** status:

A **warning message** must be issued when:

- The **Confirmed Delivery Date (VBEP-BEDAT)** is changed.

This is an informational control and does **not** block saving.

4. Confirmed Quantity Change Warning

When the linked Process Order is in **REL** status:

A **warning message** must be issued when:

- The **Confirmed Quantity (VBEP-BMENG)** is changed.

This is also informational and does **not** block saving.

5. Process Order Status Validation Logic

To determine whether restrictions or warnings apply, the system must evaluate the status of the linked Process Order using standard SAP tables.

1. Determine the Linked Process Order

Read the Process Order number from the **Z-table** maintained by the PCCD ("new IPA") tool.

2. Retrieve the Process Order Object Number

- Read table **AUFK** using the Process Order number.
- Extract the Object Number from field: **AUFK-OBJNR**

3. Read Active Status Records (JEST)

Using AUFK-OBJNR:

- Read table **JEST**
- Filter for active statuses:
 - **JEST-OBJNR = AUFK-OBJNR**
 - **JEST-INACT = space**
- Retrieve status codes from field: **JEST-STAT**

4. Check for Released (REL) Status

- If any active **JEST-STAT** value corresponds to the **REL (Released)** status **Restrictions and warnings apply**
- If REL is **not** present **All field changes remain allowed**

5. Optional Status Text Retrieval

If status text is needed for display or logging:

- Read table **TJ02T** using the status code from JEST to retrieve the status description.

6. Proposed Error Text:

- Specification changes are not permitted. The linked Process Order is already Released
- Delivery Date / Qty changed. Process Order is Released and may be impacted.

Proposed Technology to Use

SD_SLS_CHECK_BEFORE_SAVE

Data Source Considerations

Not Applicable

Table	Field Name	Comments/Calculation/Field Manipulation

Data Validation Considerations

Not Applicable

Table	Field Name	Comments/Calculation/Field Manipulation

Custom Tables

Not Applicable

Master Data

Not Applicable

Field	Description	Data Type/Length	Validation rule/ Value Help

Configuration Table

Not Applicable

Field	Description	Data Type/Length	Validation rule/ Value Help

Selection Screen Enhancement

Not Applicable

Field Name	Description	Select:	Data Type/Length	Default Value/ Validation rule/ Value Help	Selection Logic

Processing Logic

The restrictions apply to:

- Sales Order Items

Fields related to specification and production linkage:

- Specification ID (ZZ_SPEC_ID)
- Single Parent Batch Indicator (ZZ_SINGLEPB)
- Confirmed Delivery Date (VBEP-BMENT >0 [Read VBEP-ETDAT](#))
- Confirmed Quantity (VBEP-BMENG)

Enforced in:

- SAP Fiori – Manage Sales Orders – Version 2 (F3893)
- SAP GUI - VA02 - Order Change
- Sales Orders created or changed via SOAP or API

1. Sales Order Item Processing Status Validation

The restriction applies only when the Sales Order Item **Overall Processing Status** is not completed.

Field:

VBSTT-GBSTA_BEZ Completed

Sales Order Process Order Linkage

The system must determine whether the Sales Order Item is linked to a **Process Order**.

The Process Order number and Item Number is retrieved from the **Z-table** maintained by the PCCD (“new IPA”) tool. <https://syensqo.atlassian.net/browse/ERP-1022>

2. Process Order Status Determination

To determine whether restrictions apply, the system must evaluate the **status of the linked Process Order** using standard SAP tables.

Step 1 – Determine the Linked Process Order

Read the **Process Order number** from the Z-table maintained by the PCCD tool. <https://syensqo.atlassian.net/browse/ERP-1022>

Step 2 – Retrieve Process Order Object Number

Read table: **AUFK**

Using the Process Order number.

Extract the **Object Number**: **AUFK-OBJNR**

Step 3 – Read Active Status Records

Using **AUFK-OBJNR**, read table: **JEST**

Filter for **active statuses**:

- **JEST-OBJNR = AUFK-OBJNR**
- **JEST-INACT = space**

Retrieve status codes from: **JEST-STAT**

Step 4 – Check for Released Status

If any active status corresponds to:

REL (Released)

Restrictions and warnings must apply.

If **REL** is not present:

All field changes remain allowed.

Step 5 – Optional Status Text Retrieval

If a status description is required for display or logging:

Read table:

TJ02T

Using the **status code from JEST**.

Step 6 - Specification and Field Restriction Logic

Sales Order Item being saved:

- A linked **Process Order** exists
- The **Process Order Status** = REL

3. Change Restriction

1. Specification ID Selection

When the linked **Process Order** is in REL status:

- No new **Specification ID** may be selected via the **Specification Selection Screen**

Field: **ZZ_SPEC_ID**

Reference: [ERP-622 Sales Order Management User Interface](#).

The system must prevent:

- Selecting a new Specification
- Replacing an existing Specification
- Updating the existing Specification

If a change is attempted:

Prevent Sales Order save
Raise blocking error message

2. Single Parent Batch

When the linked **Process Order** is in REL status:

Field: **ZZ_SINGLEPB**

Reference: [ERP-622 Sales Order Management User Interface](#).

The system must prevent:

- Selecting the indicator
- Deselecting the indicator
- Changing the indicator value

If a change is attempted:

Prevent Sales Order save
Raise blocking error message

3. Confirmed Delivery Date

When the linked **Process Order** is in REL status:

Field: **VBEP-BMENT >0** Read **VBEP-ETDAT**

If the **Confirmed Delivery Date** is changed:

Display a **Warning Message**

This is **informational only** and **does not block saving**.

3. Confirmed Quantity

When the linked **Process Order** is in REL status:

Field: **VBEP-BMENG**

If the **Confirmed Quantity** is changed:

Display a **Warning Message**

This is **informational only** and **does not block saving**.

Volumetrics

Expected volumes are low, estimated at no more than **100 transactions per month**.

Performance Considerations

No specific performance constraints are anticipated for this enhancement. Transaction volumes are expected to be low, estimated at no more than **100 transactions per month**, with minimal concurrent usage.

Error Handling

Blocking Behavior

If the restriction conditions are met and the user attempts to change:

- **Specification ID**
- **Single Parent Batch indicator**

The system shall:

- Prevent the Sales Order from being saved
- Display a blocking error message
- Retain the original field value

Suggested Error Messages

- Specification ID cannot be changed. Linked Process Order is Released.
- Single Batch Indicator cannot be changed. Linked Process Order is Released.

Warning Behavior

If the restriction conditions are met and the user attempts to change:

- **Confirmed Delivery Date**
- **Confirmed Quantity**

The system shall:

- Allow the **Sales Order to be saved**
- Display a **warning message**

Suggested Warning Messages

- Confirmed Delivery Date changed. Linked Process Order is Released, production may be impacted.
- Confirmed Quantity changed. Linked Process Order is Released, production may be impacted.

Testing

How to Test

Test Conditions and Expected Results

ID	Condition	Expected Result
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TC-01	Manage Sales Orders v2 (F3893) — the primary UI — and in VA02 (SAP GUI) Create or change a spec-based sales order item where: • The linked Process Order is NOT Released (no REL status in JEST) • The Overall Processing Status of the sales order item Complete (VBSTT / GBSTA_BEZ is not "Completed") • User changes the Specification (ZZ_SPEC_ID)	System allows the Specification field to be changed. No restriction applies because the Process Order is not in REL status and the item is not fully completed. Sales order can be saved successfully.
TC-02	Create/change a non-spec-based item. User changes any field on the item.	No additional restriction from this WRICEF. Item can be changed and saved as per standard SAP. No ERP-621 error or warning is triggered.
TC-03	Spec-based item with linked Process Order in REL . User attempts to change the Specification (ZZ_SPEC_ID) via Additional Data B	System blocks the change. Error message displayed, e.g.: "Specification changes are not permitted. The linked Process Order is already Released." Sales order cannot be saved with the changed specification.
TC-04	Manage Sales Orders v2 (F3893) — the primary UI — and in VA02 (SAP GUI) Create or change a spec-based sales order item where: • The linked Process Order is REL (REL status in JEST) • The Overall Processing Status of the sales order item Complete (VBSTT / GBSTA_BEZ is not "Completed") • User attempts to clear the Specification (remove ZZ_SPEC_ID value).	System treats clearing as a change to the specification. Error message as in TC-03 is raised. Original specification remains unchanged. Sales order cannot be saved until original value is restored.
TC-05	Manage Sales Orders v2 (F3893) — the primary UI — and in VA02 (SAP GUI) Create or change a spec-based sales order item where: • The linked Process Order is REL (REL status in JEST) User changes another non-spec field (e.g. text, reference, pricing condition) but does not touch Specification or ZZ_SINGLEPB, BEDAT, BMENG.	System allows the change. Sales order can be saved successfully. No error or warning triggered by ERP-621.
TC-06	Spec-based item where ZZ_SINGLEPB is not set , and Process Order is NOT REL . User selects the Single Parent Batch indicator (ZZ_SINGLEPB) .	System allows the change. ZZ_SINGLEPB can be selected and saved. No error /warning from ERP-621.
TC-07	Spec-based item where ZZ_SINGLEPB is set = X , and linked Process Order is REL . User attempts to remove ZZ_SINGLEPB (uncheck).	System blocks the change. Error message displayed, e.g.: "Single Parent Batch indicator cannot be changed. The linked Process Order is already Released." Original value is retained; sales order cannot be saved with the changed indicator.
TC-08	Spec-based item with linked Process Order in REL and at least one schedule line. User changes the Confirmed Delivery Date (VBEP-BEDAT) on an active schedule line.	System issues a warning message , e.g.: "Delivery Date changes may impact production. The linked Process Order is already Released." User can still choose to save the sales order after acknowledging the warning. No hard error.
TC-09	Spec-based item with linked Process Order NOT REL . User changes the Confirmed Delivery Date on the schedule line.	No warning from ERP-621. Change is allowed and sales order can be saved without additional message from this development.
TC-10	Spec-based item with linked Process Order in REL . User changes the Confirmed Quantity (VBEP-BMENG) on the schedule line.	System issues a warning message , e.g.: "Quantity changes may impact production. The linked Process Order is already Released." User may proceed and save after acknowledging the warning. No hard error.
TC-11	Spec-based item with linked Process Order NOT REL . User changes the Confirmed Quantity on the schedule line.	No warning triggered by ERP-621. Change is allowed; sales order can be saved normally.
TC-12	Spec-based item with no linked Process Order (no entry in Z-table / no manufacturing yet). User changes Specification, ZZ_SINGLEPB, Confirmed Date and Confirmed Quantity.	All changes are allowed and saved successfully. No errors or warnings from ERP-621 because no Process Order in REL exists.
TC-13	Sales order with multiple items : Item 10 spec-based with PO in REL, Item 20 spec-based with PO not REL. User changes specification on both items.	For Item 10 (REL): system raises specification error and prevents saving with changed spec. For Item 20 (not REL): spec change is allowed. User must revert Item 10's spec to save the order.

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Test Considerations/Dependencies

Process Order created and released
 Sales order linked to the Process order using the PCCD Tool

Other Information

Development Details

Package

Package Name	Parent Package

Enhancement Implementation

Enhancement Type	Standard Definition Name	Custom Implementation Name	Design Rationale Reference

Other Development Objects

Object Type	Object Name	Purpose/High Level Logic	Design Rationale Reference

Appendix

Custom Authorization Group Naming Convention

This table is based on the Syensqo development standards document. It provides the naming conventions for authorization groups to associated with custom reports and tables to comply with security requirements.

ABAP	ZFI	ZMM	ZPS	ZCO	ZSD	ZBC	ZFI	ZCA
TABLES	ZFIT	ZMMT	ZPST	ZCOT	ZSDT	ZBCT	ZFIT	ZCAT

See also

File	Modified
No files shared here yet.	

Change log

Version	Published	Changed By	Comment
CURRENT (v. 16)	Mar 25, 2026 09:50	VAN AARDE-ext, Tonya	
v. 15	Mar 12, 2026 12:12	VAN AARDE-ext, Tonya	
v. 14	Mar 12, 2026 12:09	VAN AARDE-ext, Tonya	
v. 13	Mar 11, 2026 15:47	VAN AARDE-ext, Tonya	
v. 12	Mar 02, 2026 13:58	VAN AARDE-ext, Tonya	
v. 11	Dec 10, 2025 12:52	VAN AARDE-ext, Tonya	
v. 10	Dec 10, 2025 12:24	VAN AARDE-ext, Tonya	
v. 9	Dec 09, 2025 15:12	VAN AARDE-ext, Tonya	
v. 8	Dec 09, 2025 12:07	VAN AARDE-ext, Tonya	
v. 7	Dec 01, 2025 16:03	VAN AARDE-ext, Tonya	

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Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

Apr 16, 2026	Actor	Type	Activity	Version
Approved	 FARIA-ext, Joana	State	changed state to Approved at 5:26 pm	v16
Lead Approval	 FARIA-ext, Joana	State	gave <i>POD Lead Review</i> approval at 5:26 pm	
Mar 25, 2026				
	 VAN AARDE-ext, Tonya	Edit	updated the page at 9:50 am	
	 JAIN-ext, Dhiraj	State	changed expiry date to '01 Apr, 2026 08:34 am' at 9:34 am	
		State	changed state to Lead Approval at 9:34 am	v16
Tech Review	 JAIN-ext, Dhiraj	State	gave <i>Tech Review</i> approval at 9:34 am	