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| Test ScriptSAP S/4HANA - 21-08-20 | public |
| Software Compatibility Management (2G5\_DE) |

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# Purpose

Software Compatibility Management enables the Systems Engineer to define the compatibility of software versions with hardware and other software components in a product. Based on the set constraints, the BOM Engineer can check a Bill of Materials for compatibility of contained software versions with other components of the same Bill of Materials.

In this test script/process, new software constraints will be created and used to check software compatibility of the Bill of Material (BoM) and Product Structure(PSM).

This document provides a detailed procedure for testing this scope item after solution activation, reflecting the predefined scope of the solution. Each process step, report, or item is covered in its own section, providing the system interactions (test steps) in a table view. Steps that are not in scope of the process but are needed for testing are marked accordingly. Project-specific steps must be added.

# Prerequisites

This section summarizes all the prerequisites for conducting the test in terms of systems, users, master data, organizational data, other test data and business conditions.

## System Access

|  |  |
| --- | --- |
| System | Details |
| System | Accessible via SAP Fiori launchpad. Your system administrator provides you with the URL to access the various apps assigned to your role. |

## Roles

Assign the following business roles to your individual test users. Alternatively, if available, you can create business roles using the following spaces with pages and predefined apps for the SAP Fiori launchpad and assign the business roles to your individual test users.

Note These roles or spaces are examples provided by SAP. You can use them as templates to create your own roles or spaces.

For more information about business roles, refer to Assigning business roles to a user in the [Administration Guide to Implementation of SAP S/4HANA with SAP Best Practices](https://help.sap.com/viewer/S4HANA2020_AdminGuide) .

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name (Role) | ID (Role) | Description (Space) | ID (Space) | Log On |
| Systems Engineer | SAP\_BR\_SYSTEMS\_ENGINEER | Software Constraints | SAP\_BR\_SYSTEMS\_ENGINEER |  |
| BOM Engineer | SAP\_BR\_BOM\_ENGINEER | BOM Management | SAP\_BR\_BOM\_ENGINEER |  |

## Master Data, Organizational Data, and Other Data

The organizational structure and master data of your company has been created in your system during activation. The organizational structure reflects the structure of your company. The master data represents materials, customers, and vendors, for example, depending on the operational focus of your company.

Use your own master data or the following sample data to go through the test procedure

|  |  |  |  |
| --- | --- | --- | --- |
| Data | Sample Value | Details | Comments |
| Material | SWNIPD001 | ARM Software 1 |  |
| Material | SWNIPD002 | ARM Software 2 |  |
| Material | RMIPD001 | ARM Hardware 1 |  |
| Material | RMIPD002 | ARM Hardware 2 |  |
| Material | SEAT\_ADJUSTMENT\_XX |  | Type: Software |
| Material BOM | FGIPD001 /2/1 | Material: FGIPD001Usage: 2 (Engineering/Design)Alternative: 1 | BOM item include SEAT\_ADJUSTMENT\_XX |
| Document | SEAT\_SW\_DOC\_XX | Document type: SWV | Upload software build package to the document |
| Document | ARM\_01\_SW\_DOC\_XX | Document type: SWV | Upload software build package to the document |
| Document | ARM\_02\_SW\_DOC\_XX | Document type: SWV | Upload software build package to the document |
| Material | SWN-WPR-SW-M | Wiper Software Manual |  |
| Material | SWN-WPR-SW-A | Wiper Software Automatic |  |
| Material | SG-WPR-CNTLR-M | Wiper Controller Manual |  |
| Material | SG-WPR-CNTLR-A | Wiper Controller Automatic |  |
| Material | SG-WPR-ARM-1 | Wiper Arm-1 |  |
| Material | SG-WPR-ARM-2 | Wiper Arm-2 |  |
| Material | SG-WPR-ARM-3 | Wiper Arm-3 |  |

Note XX is a variable that changes depending on the user. For example, ARM\_02\_SW\_DOC\_00 for one user and ARM\_02\_SW\_DOC\_01 for the next user, ARM\_02\_SW\_DOC\_02 for the next user and so on. One sample value can be used only once.

## Business Conditions

Before this scope item can be tested, the following business conditions must be met.

|  |  |
| --- | --- |
| Scope Item ID | Business Condition |
| 2G6 - Embedded Software Management | Before executing 2G5 for Bill of Material Software Compatibility, you need to execute 2G6. |
| 3ND - Product Structure Management | Before executing 2G5 for Product Structure Software Compatibility, you need to execute 3ND. |

## Preliminary Steps

### Create Software Document

Purpose

In this preliminary step, you create a document and link the Software Material.

Procedure

Create the following four Software Documents by referring the procedure step Create Software Document and Link the Software Material from the test script 2G6 – Embedded Software Management

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S. No | Document | Document Type | Document Part | Document Version | Material to be linked in the Document |
| 1 | ARM\_01\_SW\_DOC\_XX | SWV | 000 | 00 | SWNIPD001 |
| 2 | ARM\_01\_SW\_DOC\_XX | SWV | 000 | 01 | SWNIPD001 |
| 3 | ARM\_02\_SW\_DOC\_XX | SWV | 000 | 00 | SWNIPD002 |
| 4 | ARM\_02\_SW\_DOC\_XX | SWV | 000 | 01 | SWNIPD002 |

# Overview Table

This scope item consists of several process steps, provided in the table below.

If your system administrator has enabled spaces and pages on the SAP Fiori launchpad, the homepage will only contain the essential apps for performing the typical tasks of a business role.

You can find all other apps not included on the homepage using the search bar.

If you want to personalize the homepage and include the hidden apps, navigate to your user profile and choose Settings > App Finder .

|  |  |  |  |
| --- | --- | --- | --- |
| Process Step | Business Role | App/Transaction | Expected Results |
| [Software Compatibility For Bill Of Material(BOM)](#unique_9) [page ] 8 |  |  |  |
| [Define Software Compatibility](#unique_10) [page ] 8 | Systems Engineer | Manage Software Constraints (F2098) | Software constraints created |
| [Check Software Compatibility](#unique_11) [page ] 10 | BOM Engineer | Maintain Bill Of Material - Create, change & display BOMs (F1813) | The required material missing or conflicting with defined constrains will display. |
| [Fix Conflicts in Bill of Material](#unique_12) [page ] 11 | BOM Engineer | Maintain Bill Of Material - Create, change & display BOMs (F1813) | The required material missing or conflicting will be fixed |
| [Software Compatibility For Product Structure(PSM)](#unique_13) [page ] 12 |  |  |  |
| [Define Software Compatibility](#unique_14) [page ] 13 | Systems Engineer | Manage Software Constraints (F2098) |  |
| [Check Software Compatibility](#unique_15) [page ] 16 | BOM Engineer | Change Product Structure |  |
| [Fix Conflicts in Product Structure](#unique_16) [page ] 18 | BOM Engineer | Change Product Structure |  |

# Test Procedures

This section describes test procedures for each process step that belongs to this scope item.

## Software Compatibility For Bill Of Material(BOM)

Purpose

In this section, you can carry out software compatibility check for the BOM.

### Define Software Compatibility

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | Duration | Enter a duration. |

Purpose

In this process step you will define software constraint.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori Launchpad as Systems Engineer. | The SAP Fiori Launchpad appears. |  |
| 2 | Access App | Open Manage Software Constraints (F2098). | The Manage Software Constraints screen appears. |  |
| 3 | Find target item | On the Manage Software Constraints screen, click Add. | The available software list will pop up. |  |
| 4 | Choose Software | Choose ‘SEAT\_ADJUSTMENT\_XX' in the pop up window. | In the Manage Software Constraints screen, there are three tabs ,* Hardware Constraint
* Software Constraint
* Version
 |  |
| 5 | Add hardware constraint | Click Add Constraint on the tool bar of the ‘Hardware Constraint' section.Provide the new Hardware constraint RMIPD001 and RMIPD002 as input. | An empty constraint line will be inserted in the table.The new constraints are as follows.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| From | To | Constraint Rule | Hardware Material | Description |
| 00 | 01 | Require (R) | RMIPD001 | ARM Hardware 1 |
| 00 | 01 | Exclude (E) | RMIPD002 | ARM Hardware 2 |

 |  |
| 6 | Add software constraint | Click Add Constraint on the tool bar of the ‘Software Constraint' area.Provide new software constraint SWNIPD001 and SWNIPD002 as input. | An empty constraint line will be inserted in the table.The new constraints are as follows:.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| From | To | Rule | Software Material | Description | Minimum | Maximum |
| 00 | 01 | Require (R) | SWNIPD001 | ARM Software 1 | 00 | 01 |
| 00 | 01 | Require (R) | SWNIPD002 | ARM Software 2 | 00 | 01 |

 |  |
| 7 | Save all changes | Click Save at the bottom of the detail area. | The software ‘SEAT\_ADJUSTMENT\_XX’ is saved successfully. |  |

### Check Software Compatibility

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | Duration | Enter a duration. |

Purpose

In this process step you review and check the software compatibility of the BoM.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori Launchpad as BOM Engineer. | The SAP Fiori Launchpad appears. |  |
| 2 | Access App | Open Maintain Bill Of Material - Create, change & display BOMs (F1813). | The Maintain Bill of Material screen appears. |  |
| 3 | Find target item | On the Maintain Bill of Material screen, set the following filters:Material: FGIPD001BoM Usage: 2Click Go | FGIPD001 /2/1 is displayed in the result list. |  |
| 4 | Open target item | Click the E-BOM ID: FGIPD001 /2/1 in the result list | The detailed information of FGIPD001 /2/1 is displayed. |  |
| 5 | Check with conflicts | Click Software Constraints on the extreme right side of the screen. | The Check Software Compatibility application opens.The required material SWNIPD002 missing with defined constrains will appear.The excluded material RMIPD002 conflicting with defined constrains will appear. |  |

### Fix Conflicts in Bill of Material

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | Duration | Enter a duration. |

Purpose

In this process step you can fix the conflicts in the Bill of Material.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Fix conflicts in Bill of Material | BoM is already opened as part of the previous test procedure, Go to the Maintain Bill of Material screen.Click Edit | The component area becomes editable.. |  |
| 2 |  | Click + (Add) button available in the component area | A new row is added to the item table..Select the Item Category as Stock Item, It will appear as L by default. Then enter material SWNIPD002 and Mention Component Quantity as 1 once you choose the Stock Item.Click Maintain Software and choose the Software Version (Document Version) 01 from the list in the new window. Click Ok |  |
| 3 |  | Select item RMIPD002 in the item table | Item RMIPD002 is selected. |  |
| 4 |  | Click Delete available in the component area | Item RMIPD002 is deleted. |  |
| 5 |  | Click Save | Material BOM saved.In the item table:* SWNIPD002 is added.
* RMIPD002 is deleted.
 |  |
| 6 |  | In the top menu, click Software Constraints | The following message appears in the message bar:No results found. All materials are compatible. |  |

## Software Compatibility For Product Structure(PSM)

Purpose

In this section, you can carry out software compatibility check for Product Structure.

Prerequisite

Execute 3ND-Product Structure Management scope item before executing this procedure

### Define Software Compatibility

Purpose

In this process step, you can define software constraint for Wiper System Related Software.

#### Constraints For Manual Wiper Controller Software

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | Duration | Enter a duration. |

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori Launchpad as Systems Engineer |  |  |
| 2 | Access App | Open Manage Software Constraints (F2098) |  |  |
| 3 | Find Target Item | On the Manage Software Constraints screen, choose Add. | The available software list pops up.. |  |
| 4 | Choose Software | Choose SWN-WPR-SW-M in the pop up window. | In the Manage Software Constraints screen, there are three tabs as follows:,Hardware ConstraintSoftware ConstraintVersion |  |
| 5 | Add Hardware Constraint | Choose Add Constraint on the tool bar of the Hardware Constraint section.Provide the following new Hardware constraints as input:SG-WPR-ARM-3SG-WPR-ARM-2SG-WPR-ARM-1 | An empty constraint line will be inserted in the table.The new constraints are as follows.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| From | To | Constraint Rule | Hardware Material | Description |
| \* | \* | Require (R) | SG-WPR-CNTLR-M | Wiper Controller Manual |
| \* | \* | Require One of(O) | SG-WPR-ARM-1 | One Arm System Hard-ware |
| SG-WPR-ARM-2 | Two Arm System Hard-ware |
| \* | \* | Exclude (E) | SG-WPR-ARM-3 | Three Arm System Hardware |

 |  |
| 6 | Add Software Constraint | Choose Add Constraint on the tool bar of the Software Constraint area.Provide new software constraint SWN-WPR-SW-A as input. |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| From | To | Rule | Software Material | Description | Minimum | Maximum |
| 00 | 00 | Exclude (E) | SWN-WPR-SW-A | Wiper Software Automatic | \* | \* |

 |  |
| 7 | Save All Changes | Choose Save at the bottom of the detail area. | The software SWN-WPR-SW-M is saved successfully. |  |

#### Constraint For Automatic Wiper Controller Software

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | Duration | Enter a duration. |

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori Launchpad as Systems Engineer |  |  |
| 2 | Access App | Open Manage Software Constraints (F2098) |  |  |
| 3 | Find Target Item | On the Manage Software Constraints screen, choose Add. | The available software list pops up.. |  |
| 4 | Choose Software | Choose SWN-WPR-SW-A in the pop up window. | In the Manage Software Constraints screen, there are three tabs as follows:,Hardware ConstraintSoftware ConstraintVersion |  |
| 5 | Add Hardware Constraint | Choose Add Constraint on the tool bar of the Hardware Constraint section.Provide the following new Hardware constraints as input:SG-WPR-ARM-3SG-WPR-ARM-2SG-WPR-ARM-1 | An empty constraint line will be inserted in the table.The new constraints are as follows.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| From | To | Constraint Rule | Hardware Material | Description |
| \* | \* | Require (R) | SG-WPR-CNTLR-A | Wiper Controller Au-tomatic |
| \* | \* | Require (R) | SG-WPR-ARM-3 | Three Arm System Hardware |
| \* | \* | Exclude (E) | SG-WPR-ARM-2 | Two Arm System Hard-ware |
| \* | \* | Exclude (E) | SG-WPR-ARM-1 | One Arm System Hard-ware |

 |  |
| 6 | Add Software Constraint | Choose Add Constraint on the tool bar of the Software Constraint area.Provide new software constraint SWN-WPR-SW-M as input. | An empty constraint line will be inserted in the table.The new constraints are as follows:.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| From | To | Rule | Software Material | Description | Minimum | Maximum |
| 00 | 00 | Exclude (E) | SWN-WPR-SW-M | Wiper Soft-ware Manual | \* | \* |

 |  |
| 7 | Save All Changes | Choose Save at the bottom of the detail area. | The software SWN-WPR-SW-A is saved successfully. |  |

### Check Software Compatibility

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | Duration | Enter a duration. |

Purpose

In this process step, you can review and check the software compatibility of the BOM.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a BOM Engineer |  |  |
| 2 | Access App | Open the Change Product Structure app. | The Change Product Structure screen is displayed. |  |
| 3 | Choose Node Name and Class | On the Change Product Structure screen, make entries similar to the following example:Node: Wiper\_SystemClass: Wiper\_SystemPress Enter. | The Change Product Structure screen is displayed with Active Simulation Data |  |
| 4. | Select Simulation | Select Simulaton option from top menu.On the Run Simulation Pop-Up screen, make entries similar to the following example:Simulation Name: WIPER\_SYSTEM\_SIMULATION |  |  |
| 5 | Apply Selected Simulation | Choose Ok in Run Simulation pop-up screen | The Change Product Structure screen is displayed. |  |
| 6 | Check Software Compatibility | Choose Check Software Compatibility from additional functions. | The detailed information of Wiper\_System conflict is displayed in Check Software Compatibility application.The required material SG-WPR-CNTLR-A is missing as per the defined constraints. |  |

### Fix Conflicts in Product Structure

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | Duration | Enter a duration. |

Purpose

In this process step, you can review and check the software compatibility of the BOM.

Prerequisite

To create change master, execute the test procedure 'Manage Date Effectivities' of 3ND- Product Structure Management scope item using the following example data for the test steps 3 (Enter Change Number) and 4 (Enter Change Master Data).

Change Number: CM\_WS\_SCF

Field beside Change Number:Software Compatibility Fix

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a BOM Engineer |  |  |
| 2 | Access App | Open the Change Product Structure app. | The Change Product Structure screen is displayed. |  |
| 3 | Choose Node Name and Class | On the Change Product Structure screen, make entries similar to the following example:Node: Wiper\_SystemClass: Wiper\_SystemPress Enter. | The Change Product Structure screen is displayed with Active Simulation Data |  |
| 4 | Deactivate Simulation | Choose Deactivate Simulation function from the top toolbar | Simulation is deactivated. |  |
| 5 | Assign Change Number | Select Change Number from Assign drop-down list in the top menu.On the Assign Change Number screen, make entries similar to the following example:Change Number: CM\_WS\_SCFChoose OK. | Change Number gets assigned to the Product Structure.Active Change Number = CM\_WS\_SCF |  |
| 6 | Expand Hierarchy | Choose Expand All to expand the Wiper\_System structure | The entire structure becomes visible under the root node Wiper\_System |  |
| 7 | Correct the Dependency | Select Wiper\_Controller\_XX product item and choose Dependencies of Variants from the Items dropdown list.The Dependency Maintenance Table pop-up screen appears.Correct the Characteristic Values in the Dependency Maintainance Table as shown in the following table:

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Material Number | Manual | Automatic |
| Automatic Wiper Controller | SG-WPR-CNTLR-A |  | + |
| Manual Wiper Controller | SG-WPR-CNTLR-M | + |  |

Choose Ok in the Dependency Maintenance Table pop-up. | The Change Product Structure screen is displayed with the corrected dependency data for Wiper Controller. |  |
| 8 | Save Product Structure | Choose Save. | Product Structure Wiper\_System is saved with the corrected Dependency data |  |
| 9 | Simulate Product Structure | Choose Simulaton from the top menu.On the Run Simulation pop-up screen, make entries similar to the following example:Simulation Name: WIPER\_SYSTEM\_SIMULATIONChoose Ok in the Run Simulation pop-up screen |  |  |
| 10 | Check Software Compatibility | Choose Check Software Compatibility from Additional Functions. | The detailed information of Wiper\_System conflict is displayed in the Check Software Compatibility application.A system message tells you that there are no search results and all materials are compatible. |  |
| 11 | Update the Change Master Status | Execute the test procedure 'Release For Handover' of 3ND- Product Structure Management test script to update the change master status.Use the following example data in test step 3:Change Number: CM\_WS\_SCF |  |  |

# Appendix

## Process Integration

The process to be tested in this test script is part of a chain of integrated processes.

### Preceding Processes

You may first have completed the following processes and conditions before you start with the test steps:

|  |  |
| --- | --- |
| Process | Business Condition |
| 2G6 – Embedded Software Management | Before executing 2G5, you need to execute 2G6. |

Typographic Conventions

|  |  |
| --- | --- |
| Type Style | Description |
| Example | Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.Textual cross-references to other documents. |
| Example | Emphasized words or expressions. |
| EXAMPLE | Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE. |
| Example | Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools. |
| Example | Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation. |
| <Example> | Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system. |
| EXAMPLE | Keys on the keyboard, for example, F2 or ENTER. |

|  |
| --- |
|  |
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