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| Test Script  SAP S/4HANA - 24-08-20 | public |
| Transfer of Bill of Materials for SAP Global Trade Services (24H\_DE) |

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# Purpose

Customers can integrate SAP Global Trade Services 11.0 on-premise with SAP S/4HANA to utilize existing rules in SAP Global Trade Services.

This scope item enables the communication scenario and the appropriate RFC calls for synchronizing the Bill of Material (BOM). Successful synchronization of BOMs requires that the relevant Material Masters already exist in the SAP Global Trade Services system.

If you run processes with on-premise version of SAP S/4HANA, the business processes mentioned in test script are only for basic use case and only for testing purpose. For further information on what the scope item can do besides the basic use case which is mentioned in the test script, go to the [SAP Help Portal](https://help.sap.com/viewer/index) and search for SAP Global Trade Services product page. In the Application Help, navigate to the following chapter: System Administration for SAP Global Trade Services > Data Transfer from the Feeder System > Initial Transfer of Master Data .

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

The test is conducted in the following systems:

|  |  |
| --- | --- |
| System | Details |
| SAP S/4HANA System | Accessible via 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 |
| Administrator - International Trade | SAP\_BR\_ADMINISTRATOR\_SLL | International Trade Administration | SAP\_BR\_ADMINISTRATOR\_SLL |  |

## Business Conditions

The business process described in this test script is part of a bigger chain of integrated business processes or scope items. As a consequence, you must have completed the following processes and fulfilled the following business conditions before you are able to start going through this scope item:

|  |  |
| --- | --- |
| Scope Item | Business Condition |
| 1WA - Transfer of Primary Master Data for SAP Global Trade Services | Every product in the bill of materials has been transferred into SAP Global Trade Services system. |

Additional configurations in SAP Global Trade Services system:

To make the master data transfer successful, additional configurations might be needed in SAP Global Trade Services system. These configurations depend on your SAP Global Trade Services system, and it's not covered in this document. List the minimum configurations which are needed:

* Defining and Assigning Legal Units
* Assigning Plants from Feeder System to Legal Units
* Defining Cross-Plant BOM Evaluation

When you assign the plants from the feeder system to the plant group, all the specified logical systems must belong to the same group of logical system.

You can check the details by referring to [Additional Configurations in SAP Global Trade Services System](#unique_6) [page ] 11.

If the transfer is not successful, you may check the application logs in SAP Global Trade Services system to get the error details and then fix it.

## Master Data, Organizational Data, and Other Data

SAP Best Practices Standard Values based on new global template will be used once available. In the table you still see the master data used for the current baseline.

Essential master and organizational data was created in your SAP S/4HANA system in the implementation phase, such as the data that reflects the organizational structure of your company and master data that suits its operational focus, for example, master data for materials, vendors, and customers.

This master data usually consists of standardized SAP Best Practices default values, and enables you to go through the process steps of this scope item.

Additional Master Data (Default Values)

You can test the scope item with other SAP Best Practices default values that have the same characteristics.

Check your SAP system to find out which other material master data exists.

Using Your Own Master Data

You can also use customized values for any material or organizational data for which you have created master data. For more information about creating master data, see the Master Data Procedures documentation.

Use the following master data in the process steps described in this document:

Table 1: Master Data Script Reference

|  |  |  |  |
| --- | --- | --- | --- |
| Data | Sample Value | Detail | Comment |
| Bill of Material | FG126 | Bill of material FG126 in plant 1010 with usage 1 |  |

For more information about creating master data, see the following [Master Data Scripts (MDS)](https://support.sap.com/content/dam/SAAP/Sol_Pack/BP_OP_ENTPR/BP_OP_ENTPR_S4HANA2020_7_Master_Data_EN_XX.htm) Script documentation.

Table 2: Master Data Script Reference

|  |  |
| --- | --- |
| MDS | Description |
| BNK | Create Material BOM for Production and Sales |

## Additional Manual Configuration

Before you can test this scope item, you must have completed the additional configuration steps that are described in the Set-Up Instructions for this scope item. These configuration steps are specific for your implementation and include mandatory settings that are not delivered by SAP and must be created by you. For more information, refer to the Set-Up Instructions for this scope item on [SAP Best Practices Explorer](https://rapid.sap.com/bp) (https://rapid.sap.com/bp/#/browse/scopeitems/<enter the scope item ID>).

# 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 | Transaction/App | Expected Results |
| [Schedule Transfer of Bill of Materials](#unique_10) [page ] 7 | Administrator - International Trade | Schedule Transfer of Bill of Materials - Global Trade Services (F1240) | The selected bill of materials are transferred to the SAP Global Trade Services system. |
| [Check Application Logs for Changed Master Data Transfer (optional)](#unique_11) [page ] 9 | Administrator - International Trade | Application Log for Changed Master Data - Global Trade Services (F1487) | The application logs for the transfer of changed master data are checked. |

# Test Procedures

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

* With the activation of the scope item, the background jobs will be activated as well, which try to trigger the transfer via change points for master data change. That means once you successfully complete the initial transfer, the background jobs will automatically transfer the subsequent data changes.
* These background jobs are scheduled hourly regardless of whether initial transfer is made or not.
* You have no possibility to deactivate or change the transfer rhythm.

## Schedule Transfer of Bill of Materials

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

Transfer the bill of material master data to SAP Global Trade Services system.

Prerequisites

Before you start the test procedures, ensure that the Set-up Instruction Guide of this scope item is executed to ensure working connectivity between the SAP S/4HANA system and the SAP Global Trade Services system.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on to SAP Fiori launchpad | Log on to the SAP Fiori launchpad using the role Administrator - International Trade. |  |  |
| 2 | Access App | Open Schedule Transfer of Bill of Materials - Global Trade Services (F1240). | The Application Jobs screen is displayed. |  |
| 3 | Create Schedule Transfer of Bill of Materials Background Job | Choose Create. | The New Job view is displayed. |  |
| 4 | Template Selection | Make the following entries and choose Step 2:  Job Template: Schedule Transfer of Bill of Materials - Global Trade Services  Job Name: Schedule Transfer of Bill of Materials - Global Trade Services |  |  |
| 5 | Scheduling Options | Choose Define Recurrence Pattern. Make the following entries and choose OK. Then choose Step 3:  Start Immediately: <Selected>  Recurrence Pattern: Single Run |  |  |
| 6 | Schedule | Make the following entries and choose Schedule:  Valid From: <choose today>  Description: <enter the description>  Material: FG126  Plant: 1010 | The job is scheduled and shown in the list. |  |

## Check Application Logs for Changed Master Data Transfer (optional)

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

The background jobs are automatically running, which are to trigger the transfer for the changed master data periodically. In case of errors occurred during the background job run, the application logs will be created. In this process step you can check the application logs.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log onto SAP Fiori launchpad | Log onto the SAP Fiori launchpad using the role Administrator - International Trade. |  |  |
| 2 | Access App | Choose Application Log for Changed Master Data - Global Trade Services (F1487). | The Application Logs screen displays the application logs if errors occurr during the background job runs for the changed master data transfer. |  |
| 3 | Check Application Logs | To filter the log entries, make the following entries and choose Go:  Date From-To: <date range> (default is today)  Category: /SAPSLL/MD\_GTS\_DIST (system value; keep unchanged)  Subcategory: /SAPSLL/BOMMAT\_DIST (for bill of materials) |  |  |
| 4 | Application Logs | Click on the log entries to check the log details. | The application logs for the transfer of changed master data are checked. |  |

# Appendix

## Additional Configurations in SAP Global Trade Services System

The following configurations depend on your SAP Global Trade Services system, and the steps and input values might be different in your system.

### Define Legal Units

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on to SAP GUI | Log on to the SAP Global Trade Services system. | The SAP Easy Access page appears. |  |
| 2 | Transaction Code | In the Command field, enter SPRO and press Enter. |  |  |
| 3 | Access the IMG Activity | From the IMG, go to the following path: SAP Global Trade Services > General Settings > Organizational Structure > Define Legal Units . |  |  |
| 4 | Maintain Legal Units | Define the legal unit, for example LU\_1010 and maintain the general data, for example name and address. | The legal unit is maintained or checked. |  |

### Assign Plant to Legal Unit

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on to SAP GUI | Log on to SAP Global Trade Services system. | The SAP Easy Access page is displayed. |  |
| 2 | Transaction Code | In the Command field, enter SPRO and press Enter. |  |  |
| 3 | Access the IMG Activity | In the IMG, go to the following path: SAP Global Trade Services > General Settings > Organizational Structure > Assignment of Organizational Units from Feeder System to Legal Unit > Assign Plant at Feeder System Group Level . | The Choose Activity dialog box displays. |  |
| 4 | Assign Plant | Choose Manually Assign Plant. | The Change View “Mapping: Plant from Feeder System Group to Legal Unit” view displays. |  |
| 5 | New Entries | Choose New Entries. |  |  |
| 6 | Assign Plant to Legal Unit | If necessary, make the following entries and choose Save:  Logical System group: <choose the logical system group>  FS Organization: <your plant in SAP S/4HANA, for example, 1010>  Legal Unit: <your created legal unit, for example, LU\_1010>  Choose Save. | The plant is assigned to the legal unit. |  |

### Define Cross-Plant BOM Evaluation

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on to SAP GUI | Log on to the SAP Global Trade Services system. | The SAP Easy Access page is displayed. |  |
| 2 | Transaction Code | In the Command field, enter SPRO and press Enter. |  |  |
| 3 | Access the IMG Activity | From the IMG, go to the following path: SAP Global Trade Services > General Settings > Organizational Structure > Define Cross-Plant BOM Evaluation . | The Change View “Group for Cross-Plant Preference Determination”: Overview view displays. |  |
| 4 | Define Cross-Plant BOM Evaluation | Choose New Entries.  If necessary, make the following entries and press Enter:  Grouping of Org. Unit FS: <plant group name>  Description: <description> |  |  |
| 5 | Define Cross-Plant BOM Evaluation | Select your entry and in the Dialog Structure pane, double-click Assignment of Plants.  Choose New Entries.  Make the following entries and choose Save:  Logical System: <choose the logical system>  Plant: <your SAP S/4HANA plant, for example,1010> | The cross-plant BOM evaluation is defined. |  |

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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