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| Test Script  SAP S/4HANA - 16-09-20 | public |
| Monitoring of Goods and Invoice Receipts (2V7\_DE) |

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# Purpose

The GR/IR monitor is an SAP S/4HANA application that helps accountants process cases where the goods receipts and the invoice receipts are not exactly matched and written off automatically. The processors set the statuses of purchase orders to indicate the next actions that must be taken for a particular purchase order. A machine learning feature of the GRIR application makes a prediction of the next status based on the history of processing. The predictions are provided by a Machine Learning (ML) service that runs on the Cloud Foundry. This communication scenario is related to the connection of the SAP S/4HANA backend and the ML service.

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 GUI |

## 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 |
| General Ledger Accountant | SAP\_BR\_GL\_ACCOUNTANT | General Ledger | SAP\_BR\_GL\_ACCOUNTANT |  |

## Master Data, Organizational Data, and Other Data

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

Table 1: Front-End Server: Activate OData Services

|  |  |
| --- | --- |
| Component | Technical Name |
| OData Service (Version Number) | FAC\_GRIR\_ANALYSIS\_SRV (1)  FAC\_GRIR\_RECONCILIATION\_SRV (1) |

Note For more information about activating OData services, see the SAP Help Portal (at <http://help.sap.com/nw75> UI Technologies in SAP NetWeaver with SAP\_UI 750 > SAP Fiori Launchpad > Setting up the Launchpad > Activating SAP Gateway OData Services .

## Preliminary Steps

### Manage Situation Types

Purpose

In this procedure, you configure the situation type by using a template.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on on to the SAP Fiori launchpad as Configuration Expert - Business Process Configuration |  |  |
| 2 | Access App | Open Manage Situation Types (F2947) . | The Manage Situation Types screen displays. |  |
| 3 | Select the Template | Choose Go.  Select Template FIN\_GRIRPROCESSORCHANGED and choose Copy. | The Situation Type screen displays. |  |
| 4 | Maintain the Situation | Make the following entries:  Admin Information section:  ID: ZGRIR\_TEST  Name: for example, GR/IR Clearing Processor Is Changed |  |  |
| 5 | Add Responsibility Rule | On the Notification Recipients tab, choose Add Rule for Responsibility Rules .  Select Get GR/IR Clearing Processor and choose OK. |  |  |
| 6 | Save Situation Type | Choose Save. | The Enable Situation Type dialog box is displays. |  |
| 7 | Enable Situation Type | Choose Yes. | The situation type is enabled. |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on on to the SAP Fiori launchpad as Configuration Expert - Business Process Configuration |  |  |
| 2 | Access App | Open Manage Situation Types (F2947) . | The Manage Situation Types screen displays. |  |
| 3 | Select the Template | Choose Go.  Select Template FIN\_GRIRDEVIATIONEXCEEDSTRHSHLD and choose Copy. | The Situation Type screen displays. |  |
| 4 | Maintain the Situation | Make the following entries:  Admin Information section:  ID: ZGRIR\_THRESHOLD  Name: for example, GR/IR Deviation Exceeds Threshold |  |  |
| 5 | Add Conditions | On the Conditions tab, make the following entries:  Send Notification: selected  Company Code: 1010  Balance Amount: for example, <=1000000 |  |  |
| 6 | Schedule Batch Job | On the Batch Job Scheduling tab, make the following entries:  Time Zone: for example, UTC  Start Batch Job At: for example, 20:00 |  |  |
| 7 | Manage Notifications | On the Situation Display tab, make the following entries:  Notification  Aggregate Notifications: selected  Resend Notifications: deselected |  |  |
| 8 | Manage Notification Recipients | On the Notification Recipients tab, make the following entries:  Responsibility Rules  Team Category: GR/IR Account Reconciliation  Member Function: GR/IR Account Reconciliation |  |  |
| 9 | Save Situation Type | Choose Save. | The Enable Situation Type dialog box is displays. |  |
| 10 | Enable Situation Type | Choose Yes. | The situation type is enabled. |  |

### Manage Teams and Responsibilities

Purpose

In this procedure, you configure the assignment of responsibilities to a team and its members.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on on to the SAP Fiori launchpad as Configuration Expert - Business Process Configuration |  |  |
| 2 | Access App | Open Manage Teams and Responsibilities (F2412) . | The Manage Teams and Responsibilities screen displays. |  |
| 3 | Create Team | Choose Create. | The New Team screen displays. |  |
| 4 | Maintain General Information | On the Team Information tab, make the following entries:  General Information  Name: ZGRIR\_TEAM  Status: Enabled  Type: FIGRIR |  |  |
| 5 | Define Responsibility | On the Responsibility Definitions tab, make the following entries:  Company Code: 1010 |  |  |
| 6 | Add Team Members | On the Team Members tab, choose Create.  Make the following entries and choose OK:  User ID: for example, General Ledger Accountant |  |  |
| 7 | Save | Choose Save. | The team is saved. |  |

# 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 |
| [OData Service to Reconcile GR/IR Accounts](#unique_9) [page ] 9 | n/a | /IWFND/MAINT\_SERVICE |  |
| [OData Service to Monitor GR/IR Account Reconciliation](#unique_10) [page ] 10 | n/a | /IWFND/MAINT\_SERVICE |  |
| [Monitor Notification (Optional)](#unique_11) [page ] 11 | General Ledger Accountant |  |  |

# Test Procedures

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

## OData Service to Reconcile GR/IR Accounts

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 OData service is consumed by the Reconcile GR/IR Accounts (F3302) app. In an ideal world, amounts and quantities of invoices are always the same as amounts and quantities of the corresponding purchase orders and goods receipts. In the real world, when there is an open balance on the GR/IR account, you must check if the invoice from your supplier matches the goods you received. Significant differences can occur and reconciling and explaining these differences is part of the period close tasks for many companies. You can use this app to reconcile your GR/IR (Goods Receipt/Invoice Receipt) accounts. The app supports you in reducing open items and thus increasing the accuracy of your financial statement and enables you to spot issues early on, for example issues with suppliers.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the frontend SAPGUI. |  |  |
| 2 | Access SAP Gateway Client | In the Command field, enter /IWFND/MAINT\_SERVICE and press Enter. |  |  |
| 3 | Service Catalog | Select the service catalog entry with the external service name FAC\_GRIR\_RECONCILIATION\_SRV and choose SAP Gateway Client. |  |  |
| 4 | Request Metadata Document for OData Service | Enter the Request URI /sap/opu/odata/sap/FAC\_GRIR\_RECONCILIATION\_SRV/?$format=xml and choose Execute. | The HTTP response is displayed with status code 200 (green) and the XML is shown |  |

## OData Service to Monitor GR/IR Account Reconciliation

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 Odata service is used by the Monitor GR/IR Account Reconciliation (F3303) app. With this app, you receive an overview about the status of open items on your GR/IR accounts that need clarification. You can analyze the goods and invoice receipts reconciliation by KPIs for purchase order items and open FI items. After you determine where you would like to dive deeper, you can navigate from the monitor to the list of items for GR/IR clarification and investigate the details or start with processing purchase order items that do not have matching goods and invoice receipts.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to SAPGUI. |  |  |
| 2 | Access SAP Gateway Client | In the Command field, enter /IWFND/MAINT\_SERVICE and press Enter. |  |  |
| 3 | Service Catalog | Select the service catalog entry with the external service name FAC\_GRIR\_ANALYSIS\_SRV and choose SAP Gateway Client. |  |  |
| 4 | Request Metadata Document for OData Service | Enter the Request URI /sap/opu/odata/sap/FAC\_GRIR\_ANALYSIS\_SRV/?$format=xml and choose Execute. | The HTTP response is displayed with status code 200 (green) and the XML is shown. |  |

## Monitor Notification (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. |

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Open the SAP Fiori launchpad as an General Ledger Accountant role assigned. |  |  |
| 2 | Select Notification | On the top-right of the Home screen, choose Notifications.  Choose a notification that says you have been assigned as Processor for a GR/IR Account Reconciliation purchasing document item. | The Intelligent Goods and Invoice Receipt Account Reconciliation screen displays. |  |
| 3 | Select Notification | On the top-right of the Home screen, choose Notifications.  Choose a notification that says there is a deviation on a GR/IR account for a purchasing document item which exceeds the threshold. | The Intelligent Goods and Invoice Receipt Account Reconciliation screen displays. |  |

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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