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| Test Script  SAP S/4HANA - 18-09-20 | public |
| Key Risk Indicator Monitoring with SAP Risk Management (2U2) |

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# Purpose

Customers can integrate SAP Risk Management on-premise with SAP S/4HANA On-Premise to support a unified view of risk across the enterprise. This scope item enables communication between the applications so that SAP Risk Management can monitor risk indicators in SAP S/4HANA On-Premise.

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.

## 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>).

## System Access

The test should be conducted with the following system:

|  |  |
| --- | --- |
| System | Details |
| SAP S/4HANA On-Premise System | Accessible via SAP Fiori launchpad. Your system administrator provides you with the URL to access the various apps assigned to your role. |
| SAP Risk Management System | Your system administrator provides you the logon information to access the system. |

## 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 |
| Central Risk Manager | SAP\_GRC\_RM\_API\_CENTRAL\_RM |  |  |  |
| Unit Risk Manager | SAP\_GRC\_RM\_API\_RISK\_MANAGER |  |  |  |
| Administrator | SAP\_BR\_ADMINISTRATOR | Administration | SAP\_BR\_ADMINISTRATOR |  |

## Business Conditions

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

|  |  |
| --- | --- |
| Scope Item | Business Condition |
| BD6 - Basic Credit Management | Make sure BD6 is activated before performing test procedures described in this test script, because customizing enabling Credit Limit contained in BD6 is required for successful execution of this test script. |

# Overview Table

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Process Name | Business Role | System | App/Transaction | Expected Result |
| [Create KRI Templates](#unique_8) [page ] 6 | Unit Risk Manager | On-premise SAP Risk Management System | /nnwbc | KRI Template is created. |
| [Option One: Create KRI Implementation with Scripts for SAP Table](#unique_9) [page ] 7 | Unit Risk Manager | On-premise SAP Risk Management System | /nnwbc | KRI Implementation is created. |
| [Option Two: Create KRI Implementation with Scripts for OData Service](#unique_10) [page ] 9 | Unit Risk Manager | On-premise SAP Risk Management System | /nnwbc | KRI Implementation is created. |
| [Create Risk and Opportunities](#unique_11) [page ] 11 | Central Risk Manager | On-premise SAP Risk Management System | /nnwbc | Risk is created. |
| [Trigger KRI Monitoring Job](#unique_12) [page ] 13 | System Administrator | On-premise SAP Risk Management System | /nse38 | KRI monitoring job is triggered. |
| [Check Threshold Violation](#unique_13) [page ] 14 | Central Risk Manager | On-premise SAP Risk Management System | /nnwbc | Threshold violation is reported and observed. |

# Test Procedures

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

## Create KRI Templates

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

Predefined key risk indicators can be set up by creating KRI templates.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to a supported Web browser (such as Internet Explorer) with the following URL:  http(s)://<ServerName>:<Port Number>/nwbc | The NetWeaver Business Client screen for SAP Risk Management is displayed. |  |
| 2 | Rule Setup | Choose the Rule Setup tab. |  |  |
| 3 | KRI Templates | In the Key Risk Indicators section, choose KRI Templates. | The KRI Template Catalog view is displayed. |  |
| 4 | KRI Templates | Choose Create. | A dialog box displays. |  |
| 5 | Enter Template Details | Make the following entries and choose Save:  General tab:  KRI Template Name: <For example, KRI Template Name>  Description: <For example, Remove Data Source>  Value Type: Number | The KRI template is saved. |  |

## Create KRI Implementation

### Option One: Create KRI Implementation with Scripts for SAP Table

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 activity, you create the actual application of a KRI template.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Log on to a supported Web browser (such as Internet Explorer) with the following URL:  http(s)://<ServerName>:<Port Number>/nwbc | The NetWeaver Business Client screen for SAP Risk Management is displayed. |  |
| 2 | Rule Setup | Choose the Rule Setup tab. |  |  |
| 3 | Navigate to KRI Implementation | In the Key Risk Indicators section, choose KRI Implementation. | The KRI Implementation Catalog dialog box is displayed. |  |
| 4 | Create | Choose Create. | A dialog box displays. |  |
| 5 | Create KRI Implementation | Make the following entries:  General tab:  KRI Implementation Name: <For example, Define Amount Limit>  KRI Template: <For example, Define Amount Limit>  Description: <For example, KRI Implementation for Define Amount Limit>  Connector Type: SAP S/4 Table  Connector: <For example, the ID of SAP S/4HANA Cloud system>  The Connector mentioned above is the one which is created after following the Set-up Instruction Guide of 2U2.  Script: <Enter the script ID created after following through the Set-up Instruction Guide of 2U2>  You can choose the Test Connector and Test Script buttons to verify whether the entered Connector and Script are working. |  |  |
| 6 | Implementation Detail | Choose the Implementation Detail tab. |  |  |
| 7 | Enter Data | Make the following entries and choose Save:  Value Column: Credit Limit [CREDIT LIMIT]  Aggregation Function: <For example, Maximum> | The KRI Implementation is saved. |  |

### Option Two: Create KRI Implementation with Scripts for OData Service

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 onto On-Premise SAP Risk Management | Log on to a supported Web browser (such as Internet Explorer) with the following URL:  http(s)://<ServerName>:<Port Number>/nwbc | The NetWeaver Business Client screen for SAP Risk Management is displayed. |  |
| 2 | Rule Setup | Choose the Rule Setup tab. |  |  |
| 3 | KRI Implementation | In the Key Risk Indicators section, choose KRI Implementation. | The Implementation Catalog view is displayed. |  |
| 4 | Navigate to KRI Implementation | Choose Create. | A dialog box displays. |  |
| 5 | Create KRI Implementation | Make the following entries:  General tab:  KRI Implementation Name: <For example, Purchase Requisition Amount  KRI Template: <For example, Purchase Requisition Amount  Description: <For example, KRI Implementation for Purchase Requisition Amount>  Connector Type: S/4 OData  Connector: <For example, the ID of SAP S/4HANA Cloud system>  The Connector mentioned above is the one that you created in the set-up instruction guide for 2U2 - Key Risk Indicator Monitoring with SAP Risk Management.  Script: <script ID from the set-up instruction guide of 2U2>  To verify that the connector and script are working, you can choose the Test Connector and Test Script buttons.  Implementation Detail tab:  Value Column: Tot. val. rel.  When you connect the hierarchical CDS View OData Service script, all the fields in the hierarchical view are displayed in a flat list.  Aggregation Function: <For example, Maximum>  If OData Services with Input Parameters are used, maintain the Input Parameter section.  Choose Save to save this KRI Implementation. |  |  |

## Create Risk and Opportunities

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 activity, you create a risk and a key risk indicator instance (with the created KRI implementation).

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Log on to a supported Web browser (for example, Internet Explorer) with the following URL:  http(s)://<ServerName>:<Port Number>/nwbc | The NetWeaver Business Client view for SAP Risk Management is displayed. |  |
| 2 | Assessments | Choose the Assessments tab. |  |  |
| 3 | Risk and Opportunities | In the Risk Assessments section, choose Risk and Opportunities. | The Risk Management and Opportunity Management view is displayed. |  |
| 4 | Operational Risk | Choose Create > Operational Risk . | A dialog box displays. |  |
| 5 | Create Risk | Make the following entries:  General tab:  Name: For example, Define Amount Limit  Organization Unit: <organizational unit>  Risk Category: <risk category> |  |  |
| 6 | Key Risk Indicators | Choose the Key Risk Indicators tab. |  |  |
| 7 | Create Standard KRI | Choose Create > Standard KRI Instance . | A dialog box displays. |  |
| 8 | Enter Details | Make the following entries:  KRI Instance Name: For example, Define Amount Limit KRI  KRI Implementation: <KRI implementation (see Note below)>  For the KRI Implementation field, if you performed [Option One: Create KRI Implementation with Scripts for SAP Table](#unique_9) [page ] 7, choose Define Amount Limit. If you performed [Option Two: Create KRI Implementation with Scripts for OData Service](#unique_10) [page ] 9, choose KRI Implementation for Purchase Requisition Amount.  Description: <For example, KRI Instance for Defining Amount Limit>  Monitor Frequency: <For example, Daily>  Next Execution Date: <Adjust to current date>  Data Time Frame: <For example, Year / [Current Year]>  To verify the validity of your KRI instance, you can choose the Test Instance button.  If you use OData Services with Input Parameters, maintain the Input Parameter section accordingly.  Choose Activate to save this KRI instance. The dialog box closes automatically.  Choose Submit to save this risk. | The Create Risk screen is displayed. |  |
| 9 | Key Risk Indicators | Open the created risk and choose the Key Risk Indicators tab. |  |  |
| 10 | Threshold Violation | Select the role representing the KRI instance created in the prior step and choose the button under the Threshold Violation column. | A dialog box displays. |  |
| 11 | Maintain KRI Value Thresholds | Make the following entries and choose Submit:  Favorable Value Range: <For example, High Values>  Value To: 1 (on the row for the Yellow threshold)  Flag Risk: Selected (on the row for Red threshold) | Changes made to the Risk are saved. |  |

## Trigger KRI Monitoring Job

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 activity, you manually trigger the threshold violation monitoring job.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the on-premise SAP Risk Management system as a System Administrator. |  |  |
| 2 | Access Transaction | In the Command field, enter SE38 and press Enter. |  |  |
| 3 | Trigger Threshold Violation Monitoring Job | Make the following entries and choose Execute:  Program: GRRM\_KRI\_RUNTIME | The system displays a message Plan version Current Plan was set at the left bottom of the screen. |  |

You can then assign created Business Rules to Controls and schedule the monitoring rule.

## Check Threshold Violation

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 activity, you check and verify that the threshold violation is captured.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Log on to a supported Web browser (such as Internet Explorer) with the following URL:  http(s)://<ServerName>:<Port Number>/nwbc | The NetWeaver Business Client screen for SAP Risk Management is displayed. |  |
| 2 | Check Threshold Violation | Open the risk created in [Create Risk and Opportunities](#unique_11) [page ] 11, and choose the Key Risk Indicators tab. | A red light is shown under column Threshold Violation for the KRI instance defined in [Create Risk and Opportunities](#unique_11) [page ] 11. |  |

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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