Set-Up Instructions | PUBLIC
SAP S/4HANA
2020-09-17

Setting Up *Key Risk Indicator Monitoring with SAP Risk Management* **(2U2)**

THE BEST RUN SAP

Content

1 Purpose

This document describes additional configuration steps that you must carry out in the productive system on customer site to activate the *Key Risk Indicator Monitoring with SAP Risk Management* (2U2) scope item . As these configuration steps are company-specific, they cannot be delivered by SAP, and must be carried out by the company setting up the SAP solution.

2 Preparation

2.1 Prerequisites

Before you start this configuration guide, check the following:

- You have SAP S/4HANA on-premise system installed
- You have supported SAP Process Control version: SAP Process Control 12.0

3 Configuration

This Set-Up Instruction Guide contains the integration setup in SAP S/4HANA on-premise system and SAP Risk Management.

3.1 SAP S/4HANA Configuration

The following integration setup activities need to be done in SAP S/4HANA on-premise.

3.1.1 Maintain RFC Destination for SAP Risk Management

Use

In this activity, you maintain the RFC destination information for your SAP Risk Management system.

Procedure

1. Access the transaction using the following navigation option:
   Transaction Code: **SM59**
2. On the *Configuration of RFC Connections* screen, choose *Create*.
3. On the *Create Destination* screen, enter the following data and then choose *Continue*.

Field Name	Entry Value	Comment
RFC Destination	<ID of RFC destination of SAP Risk Management>	
Connection Type	3	

4. On the *RFC Destination* screen, enter the description for the RFC destination in field *Description 1*.
5. Choose the *Technical Settings* tab.
6. Make the following entries:

Field Name	Entry Value	Comment
Target Host	<host name of SAP Risk Management>	
Instance No	<system number of SAP Risk Management>	

7. Choose the *Logon & Security* tab.
8. Make the following entries:

Field Name	Entry Value	Comment
Client	**<target client of SAP Risk Management>**	
User	**<RFC connection user>**	
Password	**<password of user>**	

9. Choose *Save*.
10. Choose the *Connection Test* button to verify whether the connection is working. If the connection test is not successful, you need to do analysis and trouble shooting.

3.2 SAP Risk Management Configuration

The following integration setup activities need to be done in SAP Risk Management.

3.2.1 Create Connectors

Procedure

1. Access the transaction using the following navigation option:
   Transaction Code: **SM59**
2. On the *Configuration of RFC Connections* screen, choose *Create*.
3. On the *RFC Destination* screen, enter the following data:

Field Name	Entry Value	Comment
RFC Destination	<the ID of RFC destination to your SAP S/4HANA on-premise>	

Field Name	Entry Value	Comment
Connection Type	3	
Description 1	<the name of RFC destination>	

4. Choose the *Technical Settings* tab.
5. Make the following entries:

Filed Name	Entry Value	Comment
Target Host	<the host name of your SAP S/4HANA on-premise>	
Instance No	<the system number of your SAP S/4HANA on-premise>	

6. Choose the *Logon & Security* tab.
7. Make the following entries:

Filed Name	Entry Value	Comment
Client	<target client of SAP S/4HANA on-premise>	
User	<RFC connection users>	
Password	<password of the connection user>	

8. Choose *Save*.

3.2.2 Maintain Connectors

Use

You define connection types which are then used while connecting to the SAP S/4HANA on-premise system.

Procedure

1. Access the transaction using the following navigation option:

IMG Path	*SAP Customizing Implementation Guide* > *Governance, Risk and Compliance* > *Risk Management* > *Key Risk Indicators* > *Connectivity* > *Maintain Connectors*
Transaction Code	SPRO

2. On the *Change View "Connectors": Overview* screen, choose *New Entries*.
3. Make the following entries: and choose *Save*:

Field Name	Entry Value	Comment
Connector ID	<ID of SAP S/4HANA on-premise system>	Use the RFC Destination created in the previous step
Connection Type	SAPTABLES4	Connection type for SAP S/4HANA Cloud
Category	<Leave empty>	Categories are used to structure scripts in different versions and/ or industries, and categories are optional
Connector Name	<name of SAP S/4HANA on-premise system>	Use the RFC Destination for the client of the SAP S/4HANA system that the on-premise SAP Risk Management will connect to
Remote System	<name of SAP S/4HANA on-premise system>	Use the RFC Destination for the client of the SAP S/4HANA system that the on-premise SAP Risk Management will connect to

3.2.3 Maintain Scripts for SAP Table

Use

In this activity, you maintain scripts to be used when reading tables in SAP system.

Procedure

1. Access the transaction using the following navigation option:

IMG Path	*SAP Customizing Implementation Guide* > *Governance, Risk and Compliance* > *Risk Management* > *Key Risk Indicators* > *Connectivity* > *Maintain Scripts for SAP Table*
Transaction Code	SPRO

2. On the *Change View "Connectors": Overview* screen, choose *New Entries*.
3. Make the following entries and choose *Save*:

Filed Name	Entry Value	Comment
Script	For example, Script of reading credit limit	The ID of the script for reading table of SAP system
Script Name	For example, Script of reading credit limit	The name of the script for reading table of SAP system
Table Name	For example, UKMBP_CMS_SGM	The table name of the SAP system to be read

3.2.4 Maintain Whitelist

Use

In this activity, you maintain whitelist entries indicating tables which can be read in the SAP S/4HANA system.

Procedure

1. Access the transaction using the following navigation option:

IMG Path	*SAP Customizing Implementation Guide* > *Governance, Risk and Compliance* > *Risk Management* > *Key Risk Indicators* > *Connectivity* > *Maintain Whitelist for S/4HANA Integration*
Transaction Code	SPRO

2. On the *Change View "Maintenance View for Whitelist": Overview* screen, choose *New Entries*.
3. Make the following entries and choose *Save*:

Filed Name	Entry Value	Comment
Table Name	For example, UKMBP_CMS_SGM **i Note** To check the available whitelist tables provided by SAP, see SAP Note 2838871	The names of the table that can be used in SAP S/4HANA integration

3.3 Communication Set-up for CDS View consumption via OData Service

3.3.1 Create and expose CDS views as OData Service in SAP S/4HANA on Premise

3.3.1.1 Create Custom CDS View using ABAP Development Tools

Use

In this activity, you create a custom CDS view on top of the predelivered CDS views to enable external consumption of the data exposed by the predefined CDS views.

Procedure

1. Launch the ABAP Development Tools.
2. In your ABAP project, select the relevant package node in the Project Explorer.
3. Right-click the node and choose *New* > *Other ABAP Repository Object* > *Core Data Services* > *Data Definition* to launch the creation wizard.
4. Enter a *Package* name (for example: **`$TMP`**) and a *Name* and *Description* and choose *Finish*.
5. In the *Data Definition* editor, locate the line *@AbapCatalog.sqlViewName: 'sql_view_name'*, and replace *sql_view_name* with the real SQL view to be generated in the ABAP Dictionary, for example: **`ZIPRAPI`**

> **i Note**
>
> The SQL view name length should not exceed 16.

6. Locate the line, *define view Data_Definition_Name as select from data_source_name,* where *the Data_Definition_Name* is the name specified in step 4, and replace data_source_name with a predefined CDS view, which you want to expose and consume corresponding data. For example, *I_SalesDocument*.

> **i Note**
>
> The SQL view name length should not exceed 16 characters.

7. Put the desired fields into select statement (for updated statements, an example is shown below):

```
                        define view Z_PR_API as select from
I_PurchaseRequisition_Api01 {
                            I_PurchaseRequisition_Api01.PurchaseRequisition,
                            I_PurchaseRequisition_Api01.PurchaseRequisitionItem,
                            I_PurchaseRequisition_Api01.PurchaseReqnItemUniqueID,
                            I_PurchaseRequisition_Api01.ItemNetAmount
                        }
```

8. Define the key elements (an example is shown below):

```
                        define view Z_PR_API as select from
I_PurchaseRequisition_Api01 {
                            key I_PurchaseRequisition_Api01.PurchaseRequisition,
                            I_PurchaseRequisition_Api01.PurchaseRequisitionItem,
                            I_PurchaseRequisition_Api01.PurchaseReqnItemUniqueID,
                            I_PurchaseRequisition_Api01.ItemNetAmount
                        }
```

> **i Note**
>
> Define the currency semantics where necessary.

9. Insert the following OData annotation to the CDS view: **`@OData.publish: true`**
10. Save the content and choose *Activate*.

3.3.1.2 Expose Custom CDS View as OData Service

Use

After successful activation, a corresponding OData Service for the Custom CDS View is created.

Procedure

1. Hover the mouse over the line *@OData. Publish: true* and make a note of the Service name: _____
2. Execute transaction **`/n/iwfnd/maint_service`**.

3. Choose the *Add Service* button.
4. Make the following entries and choose *Get Services*:
   System Alias: **<system alias of the back-end server>**, for example, **local**
   Technical Service Name: **<from prior step>**
5. Select the service created as a result of the prior procedure and choose *Add Selected Services*.
6. Specify the package for the service activation.
7. Leave the other details on the screen unchanged and choose *Continue*.
8. Choose *Back*
9. Select the row corresponding to the activated OData service and choose *Call Browser*. Make a note of the host address and the port number: _____ _____

3.3.1.3 Define Authorization for External Service Consumption

Use

Define authorization for previous activated service to make sure only authorized user can access the exposed data.

Procedure

1. Execute transaction **SU24**.
2. Make the following entries and choose *Execute* (F8):
   Type of Application: **TADIR Service**
   Object Type: **IWSG or IWSV**

   > **i** Note
   >
   > Enter IWSG as Object Type in an SAP Gateway hub system or IWSV as Object Type in an SAP Business Suite backend system.

   Object Name: **<name of the OData service from prior step>**
3. On the *Change TADIR Service* screen, change into the *Edit* mode.
4. Choose *Object* > *Object* > *Add Authorization Object*.
5. Enter **S_SERVICE** as the *Authorization object*.
6. Set the *Proposal status* to **No**.
7. Save and transport your changes.
8. Execute transaction **PFCG**.
9. Enter the name of the backend to be extended or created, then choose *Change* or *Create Single Role* correspondingly.

10. On the *Menu* tab, choose *Transaction* > *Authorization Default* .
11. Make the following entries and choose *Copy*:
    Authorization Default: **`TADIR Service`**
    Object Type: **`IWSV SAP Gateway Business Suite Enablement - Service or IWSG SAP Gateway: Service Groups Metadata`**
    OData Service: **`<name of generated OData service>`**
12. On the *Change Roles* screen, choose *Save*.
13. On the *Authorizations* tab, choose *Change Authorization Data*.
14. Choose *Save*.
15. Choose *Generate* to update the role.
16. Assign this PFCG role to a communication user for external consumption.

3.3.2 Configuration for Consuming CDS Views OData Service in SAP Risk Management

3.3.2.1 Create Connector for CDS View - OData Service Consumption

Use

In this activity, you create the connector for the CDS View for OData Service Consumption.

Procedure

1. Access the transaction using the following navigation option:
   IMG Path: *Governance, Risk and Compliance* > *Common Component Settings* > *Integration Framework* > *Create Connectors*
2. On the *Configuration of RFC Connections* screen, choose *Create*.
3. On the *RFC Destination* screen, enter the following data:

Filed Name	Entry Value	Comment
RFC Destination	For example, **`<ID of RFC destination to your SAP S/4HANA on-premise with suffix "_ODATA">`**	
Connection Type	**`G`**	

Filed Name	Entry Value	Comment
Description 1	**<the name of RFC destination>**	

4. Choose the *Technical Settings* tab.
5. Make the following entries:

Filed Name	Entry Value	Comment
Target Host	**<the host name noted down in 3.3.2>**	
Port	**<the port number noted down in 3.3.2>**	
Path Prefix	**<Leave Empty>**	

> **i** Note
>
> If an information dialog box is displayed, choose *Continue*.

6. Choose the *Logon & Security* tab.
7. Make the following entries:

Filed Name	Entry Value	Comment
Logon with User	**Basic Authentication**	
User	**<Enter the user selected in 3.3.3>**	
Password	**<Enter the password of the user selected in 3.3.3>**	
Logon with Ticket	**Do Not Send Logon Ticket**	
SSL	**Active**	
SSL Certificate	**ANONYM SSL Client (Anonymous)**	

8. Choose *Save*.

3.3.2.2 Maintain Connectors

Use

You define connection types which are then used while connecting to the SAP S/4HANA on-premise system.

Procedure

1. Execute transaction **SPRO**.
2. Choose the *SAP Reference IMG* button.
3. In the IMG, choose *Governance, Risk and Compliance* > *Risk Management* > *Key Risk Indicators* > *Connectivity* > *Maintain Connectors*.
4. On the *Change View "Connectors": Overview* screen, choose *New Entries*.
5. Make the following entries and choose *Save*:

Field Name	Entry Value	Comment
Connector ID	For example, **<the ID of SAP S/4HANA on-premise system>**	Use the RFC Destination created in the prior step
Connection Type	**ODATA**	Connection type for S/4HANA Cloud
Category	**<Leave empty>**	Categories are used to structure scripts in different versions and/ or industries, and categories are optional
Connector Name	**<the name of SAP S/4HANA on-premise system>**	Provide the RFC Destination representing the client of SAP S/4HANA system to which on-premise SAP Risk Management is connecting

Field Name	Entry Value	Comment
Remote System	**<the name of SAP S/4HANA on-premise system>**	Provide the RFC Destination representing the client of SAP S/4HANA system to which on-premise SAP Risk Management is connecting

3.3.2.3 Maintain Scripts for S/4 OData

Use

You maintain scripts to be used when reading tables in SAP system.

Procedure

1. Execute transaction **SPRO**.
2. Choose the *SAP Reference IMG* button.
3. In the IMG, choose *Governance, Risk and Compliance* > *Risk Management* > *Key Risk Indicators* > *Connectivity* > *Maintain Scripts for SAP S/4 OData*.
4. On the *Change View "Connectors": Overview* screen, choose *New Entries*.
5. Make the following entries and choose *Save*:

Filed Name	Entry Value	Comment
Script	For example, **Script of reading PR value**	The ID of the script for reading table of SAP system
Script Name	For example, **Script of reading PR value**	The name of the script for reading table of SAP system
Table Name	For example, **/sap/opu/odata/sap/ + OData Service name exposed in 3.3.2**	The OData Service to be read

6. Choose *Save*.

Important Disclaimers and Legal Information

Hyperlinks

Some links are classified by an icon and/or a mouseover text. These links provide additional information.
About the icons:

- Links with the icon  : You are entering a Web site that is not hosted by SAP. By using such links, you agree (unless expressly stated otherwise in your agreements with SAP) to this:
  - The content of the linked-to site is not SAP documentation. You may not infer any product claims against SAP based on this information.
  - SAP does not agree or disagree with the content on the linked-to site, nor does SAP warrant the availability and correctness. SAP shall not be liable for any damages caused by the use of such content unless damages have been caused by SAP's gross negligence or willful misconduct.
- Links with the icon  : You are leaving the documentation for that particular SAP product or service and are entering a SAP-hosted Web site. By using such links, you agree that (unless expressly stated otherwise in your agreements with SAP) you may not infer any product claims against SAP based on this information.

Videos Hosted on External Platforms

Some videos may point to third-party video hosting platforms. SAP cannot guarantee the future availability of videos stored on these platforms. Furthermore, any advertisements or other content hosted on these platforms (for example, suggested videos or by navigating to other videos hosted on the same site), are not within the control or responsibility of SAP.

Beta and Other Experimental Features

Experimental features are not part of the officially delivered scope that SAP guarantees for future releases. This means that experimental features may be changed by SAP at any time for any reason without notice. Experimental features are not for productive use. You may not demonstrate, test, examine, evaluate or otherwise use the experimental features in a live operating environment or with data that has not been sufficiently backed up.
The purpose of experimental features is to get feedback early on, allowing customers and partners to influence the future product accordingly. By providing your feedback (e.g. in the SAP Community), you accept that intellectual property rights of the contributions or derivative works shall remain the exclusive property of SAP.

Example Code

Any software coding and/or code snippets are examples. They are not for productive use. The example code is only intended to better explain and visualize the syntax and phrasing rules. SAP does not warrant the correctness and completeness of the example code. SAP shall not be liable for errors or damages caused by the use of example code unless damages have been caused by SAP's gross negligence or willful misconduct.

Gender-Related Language

We try not to use gender-specific word forms and formulations. As appropriate for context and readability, SAP may use masculine word forms to refer to all genders.

www.sap.com/contactsap

THE BEST RUN SAP