



PUBLIC

Configure Rules for SAP Transportation Resource Planning 3.0

Using SAP Cloud Platform Business Rules (SAP-CPBR)

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OVERVIEW

In SAP Transportation Resource Planning, business rules are used for performing major functions like location determination for pickup and return for transportation resources, triggering alerts based on supply and demand situation of resources at a particular location etc.

A set of template business rules are provided to enable customers to define rules depending on their business processes.

Prerequisites

- In your SAP Cloud Platform account, you have subscribed to SAP Business Rules application

Import TRP Standard Business Rules from API hub

1. Open the **Manage Projects application**.
2. Choose the **Import** button in the top right-hand corner and select **Import Project from SAP API Business Hub**, which opens a dialog box.
3. In the dialog box for the System field, select from the menu the system already configured for importing the project from SAP API Business Hub.
4. Also select the Content Package Name value **SAP Transportation Resource Planning** with SAP Cloud Platform Business Rules and choose Go.
5. The window with the heading Choose a Project now shows a projects, of which you must select the project with Project Name value **SAP_Transportation_Resource_Planning_Rules** and choose Import in the below right corner of the dialog box.
6. The project from SAP API Business Hub is successfully imported and the Manage Projects application now has an entry with the following fields:
 - a. Project Name – **SAP_Transportation_Resource_Planning_Rules**
 - b. Project Label - **SAP Transportation Resource Planning Rules**
7. Choose the project imported above to navigate to within the project.

Define Custom Business Rules using Standard Rules

1. Open the **Manage Projects application**.
2. Create a new Project for designing custom business rules based on standard rules.
3. Select the standard base project **SAP Transportation Resource Planning** in the **included projects** field .

- Now you can use the included data objects / rules in your custom project and define new data objects and rules.

Deploying Rules in SAP Transportation Resource Planning

Important Note :

For deploying the modelled rules, please refer SAP Transportation Resource Planning application help on **Rule deployer** application,

<https://help.sap.com/viewer/38b8eafc22cf44cfbe2e5eed5631b1b2/3.0/en-US/31411c2408b442ba9a5c166500b4248c.html>

- Open the rule deployer application at `https://<host>:<port>/webapp/index.html`.
- Choose **Activate Rules** and then select the project name of the project that is available on SAP Cloud Platform Business Rules.
- Choose **Submit**.
- Once the rules are activated successfully, choose **Deploy Rules**.
- Select the **Rule Project** and **Rule ID**.
- To deploy pre-defined business rules, select the SAP HANA Deployment Infrastructure (HDI) container as the schema name for the SAP Transportation Resource Planning object registration `<SAP_TRP_OREG>`.
- Choose **Submit**.

TRP Business Rules

The following table provides the list of business rules delivered for various functions in SAP TRP.

Rule Name	Rule Description
R_DT_PICKUP_TU_EXCLUSIVE	Decision table rule used to exclude transportation units from pickup ruleset based on criteria such as equipment type, point of loading
R_DT_RETURN_TU_EXCLUSIVE	Decision table rule used to exclude transportation units from return ruleset based on criteria such as equipment type, point of discharge
R_DT_PICKUP_BASE_DEFAULT	Decision table rule used to rank location in pickup rulesets. The locations can be ranked for different point of loading based on transportation cost, storage cost, handling cost
R_DT_RETURN_BASE_DEFAULT	Decision table rule used to rank location in return rulesets. The locations can be ranked for

	different point of discharge based on transportation cost, storage cost, handling cost
R_DT_KPI_RATE	Decision table rule used to trigger KPI alerts. The alerts can be triggered for based on condition such as idle rate of certain location types and equipment types
R_DT_KPI_QUANTITY	Decision table rule used to trigger KPI alerts. The alerts can be triggered for based on condition such as quantity of equipment types in certain locations
R_DT_KPI_QUANTITY_LESSTHANSPECIFICVALUE	Decision table rule used to trigger KPI alerts. The alerts can be triggered for based on condition such as quantity of equipment types in certain locations
R_DT_SD_STOCK_DEFAULT	Decision table rule used to trigger alerts for stock situation in a location if stock is greater than maximum safety stock or less than minimum safety stock for a location resource combination
R_DT_SD_SUPPLY_DEFAULT	Decision table rule used to trigger alerts for supply situation if supply is less than demand at a location for a resource
R_DT_SD_DEMAND_DEFAULT	Decision table rule used to trigger alerts for demand situation if demand is greater than supply at a location for a resource
R_DT_SD_SUPPLYDEMAND_DEFAULT	Decision table rule used to trigger alerts for supply demand situation if supply demand balance is less than 0 at a location for a resource
R_DT_AVAILABLECHECK_LEVEL	Decision table rule used to perform availability check level depending on balance stock supply demand and requested quantity
R_DT_AVAILABLECHECK_PLAN	Decision table rule used to check Supply Demand Plan corresponding to a location and equipment type
R_DT_STOCK_ALERTVIEW_DEFAULT	Decision table rule used to trigger alert based on resource stock if stock is less than minimum safety stock and/or greater than maximum safety stock
R_DT_STOCK_BUBBLEVIEW_DEFAULT	Decision table rule used to identify surplus and deficit based on resource stock if stock is less than or greater than a provided threshold
R_DT_SD_KPI_BUBBLE_DEFAULT	Decision table rule used to find the surplus or deficit quantity based on balance supply demand

Relevant Component for Customer Incidents

In case of errors with the rules content, open a customer ticket in component **SCM-TRP**.

In case of errors with the SAP Cloud Platform Business Rule application ,open a customer ticket in component **LOD-BPM-RUL**.

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