

PUBLIC

# Custom Joule Skill & Agent in SAP Build SAP Central Purchase Contract Agent

Configuration & User Guide

Version: 1.0

Date: 2026-04-21



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## Contents

<b>Overview</b> .....	3
<b>Business Value &amp; Benefits</b> .....	4
<b>Prerequisites</b> .....	4
<b>Configuration Guide</b> .....	5
<b>Setup Business Technology Platform Cockpit</b> .....	5
Configure Destination for your Backend SAP S/4 HANA System .....	5
User Roles Configuration.....	9
<b>Services used:</b> .....	8
<b>Artifacts in the Agent:</b> .....	8
<b>Setup Content Package</b> .....	7
Import Custom Joule Agent .....	7
<b>Configuration &amp; Modification</b> .....	8
<b>Release and Deploy the Project</b> .....	9
<b>Test the Joule Skills and Agent in SAP Build</b> .....	9

This document contains 2 sections. Each section covers different information about this template content package.



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1. **Overview:** In this section, you will get quick overview of the use case, what are high-level components used and how the template works in nutshell. Prerequisite section provides information of different services of SAP Business Technology Platform that are required to use this template.
2. **Configuration Guide** It contain sections which will guide you to setup your (a) SAP Business Technology Platform Account with destination, user roles etc., (b) Links and steps to set up Joule studio and Joule (c) Import and configure the template using SAP Build Process Automation - Joule studio

**Note:**

- Learning contents are published only for demo and reference purposes. We do not provide any support to learning / sample content.
- This documentation is not a detailed guide to setup SAP Business Technology Platform services. It assumes that IT admin who is setting the content is skilled with SAP Business Technology Platform environment. **Configuration section must be followed.**
- This template content is to accelerate your solution development. You must modify this template according to your requirements to achieve the desired business goal. To use this template content, you need to have basic knowledge and understanding of SAP Build Process Automation and its capabilities.

## Overview

This document provides technical information about what needs to be configured to make the package SAP Purchase Contract Agent run. The main audience of this document are technical personas like IT Administrators/Developers/Functional experts.

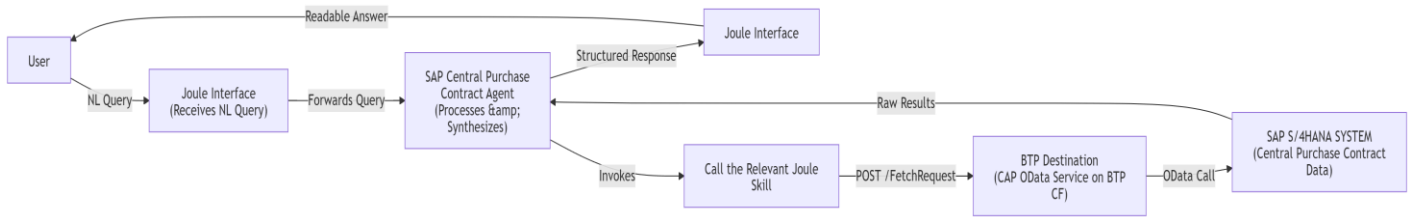
**SAP Central Purchase Contract Agent** – SAP Central Purchase Contract Agent is an AI-powered Joule Agent that automates and optimizes the lifecycle of Central Purchase Contracts in SAP S/4HANA Central Procurement environments. It assists users with contract creation, distribution, extension, delimitation, and merge operations..

If you're new to Joule Studio or want to explore how AI agents can augment business workflows, this example provides a practical, ready-to-use scenario.

**Solution flow:**



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### The Solution flows is as follows:

1. User submits a natural language question via the Joule interface.
2. The SAP Central Purchase Contract agent receives the query and automatically infers the search intent — no clarification is requested.
3. The agent invokes the relevant tools(Joule skill).
4. The Skill via an action calls the backend SAP S/4HANA system
5. The agent synthesizes the retrieved information
6. The structured response is delivered to the user via Joule.

## Business Value & Benefits

- Centralized visibility and governance of purchase contracts
- Reduced manual effort in contract lifecycle management
- AI-assisted decision-making for contract extensions and delimitations
- Improved supplier compliance and contract utilization
- Acceleration of S/4HANA Central Procurement adoption

## Prerequisites

### SAP Joule Studio & BTP

- Joule Studio configured in SAP Build (refer to the setup guide for your tenant).  
**NOTE:** If you need additional help with prerequisites such as setting up SAP Build Process Automation and SAP Build Work Zone, you can run the Discovery Centre mission:
  - *Setup Joule Studio for a BTP Enterprise Account.*
  - Ability to create BTP Destinations in the subaccount cockpit.
  - Network connectivity from BTP to the backend SAP S/4HANA system.
  - Cloud Foundry Runtime enabled to deploy CAPM application.

### Backend Service

1. Get the Code

Get the backend CAP service tar file from dependencies of SAP Central Purchase Contract Agent And import into SAP business application studio.

The SAP Central Purchase Contract agent requires 2 odata services-

- a. A standard odata service /sap/opu/odata/sap/MM\_PUR\_CNTRL\_CTR\_MAINTAIN\_SRV/
- b. A custom odata service to implement the Contract Merging functionality which is not provided by the standard odata service.

Implement a custom odata service in your SAP S4HANA system to implement the contract merging functionality. Here is the sample code for the same. Make sure to make changes based on the requirements.



Merge\_Action\_Code.t  
xt

Once the custom odata service has been implemented. Drag and drop the metadata edmx file of your custom odata service into the capm project and run the command “**cds import <path of ur edmx file imported>**”

The CAPM application has an action called “**mergecontract**” which makes a call to the Merge functionality of your custom odata service. Make necessary changes as needed.

## Configuration Guide

### Setup Business Technology Platform Cockpit

#### Configure Destination for your Backend SAP S/4 HANA System

This destination will be leveraged by the CAPM application to make odata calls to the S/4HANA system.

Ensure you have a Cloud connector set up in place.

Destination Property	Value
Name	<Destination Name>
Type	HTTP
URL	https://<host>:<port>
Proxy Type	OnPremise
Authentication	<Basic Authentication/Principal Propagation>

NOTE: All destination values shown above are placeholders. Actual system-specific values must be maintained in the SAP BTP cockpit.

### Additional Properties:

Additional Property	Value
HTML5.DynamicDestination	true
sap-client	<S/4HANA Client>
WebIDEEEnabled	true
WebIDEUsage	odata_abap, dev_abap

Maintain this destination name in the package.json file of the above imported CAPM application, under the cds requires section. For example-

Ensure maintain the destination name for both the backend odata services.

```

"MM_PUR_CNTRL_CTR_MAINTAIN_SRV": {
  "kind": "odata",
  "model": "srv/external/MM_PUR_CNTRL_CTR_MAINTAIN_SRV",
  "csrf": true,
  "csrfInBatch": true,
  "credentials": {
    "destination": "S4C",
    "path": "/sap/opu/odata/sap/MM_PUR_CNTRL_CTR_MAINTAIN_SRV/"
  }
},

```

Deploy your capm application to SAP BTP cloud foundry by making the above mentioned changes.

### Configure Destination For the CAPM application

This destination will be leveraged by the Custom Joule agent via the Joule skills(internally calls an action> to call the backend SAP S/4HANA system via this middleware CAP service.

Destination Property	Value
Name	<Destination Name>
Type	HTTP
URL	<Deployed CAP service URL with the service name>
Client ID	<Client ID>
Client Secret	<Client Secret>
Token Service URL	<Token Service URL>
Proxy Type Internet	Internet
Authentication	<OAuth2ClientCredentials/OAuthUserTokenExchange>

### Additional Properties:

Additional Property	Value
sap.applicationdevelopment.actions.enabled	true
sap.processautomation.enabled	true
sap.build.usage	odata_gen

This destination once created, has to be added to your SAP Build lobby, by navigating to Control Tower → Destination → Add

## Setup Content Package

### Import Custom Joule Agent

All imported custom agents are available in SAP Build Store. To know more about the SAP Build Store visit [SAP Build Process Automation Store](#).

This template can be downloaded from the SAP Build Store:

1. Navigate to the **Store** option in your SAP Build Lobby.
2. Select the **Project Type** filter as “Joule Agent and Skill”



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3. In the Search bar type **“SAP Central Purchase Contract Agent”**
4. Select the “Create from Template” button to add the template into your lobby.
5. Once the creation is complete, navigate to the Lobby to find the **“SAP Central Purchase Contract Agent”** project is available for use.

## Services used:

There is 1 Action projects used in this template.

Action Project Name	Service Used	Purpose
ContractAgentService	<i>/CentralPurchaseContract</i>	GET To fetch information of a Specific Contract
ContractAgentService	<i>/cancelContract</i>	POST to cancel a specific coontract
ContractAgentService	<i>/extendcontract</i>	POST to extend the validity of Contract
ContractAgentService	<i>/mergecontract</i>	POST to merge the contracts

## Artifacts in the Agent:

Type	Name	Description
Joule Skill	Cancel Contract	Skill that cancels the contract
Joule Skill	ExtendContractValidity	Skill to extend the validity of specific contract
Joule Skill	GetContractDetailsById	Skill to get details like status, description etc of a specific contract
Joule Skill	Merge Contracts	Skill to merge 2 contracts
Joule Skill	ValidateContractMerger	Skill to validate if 2contracts can be merged
Joule Agent	Manage Central Purchase Contract Agent	Orchestrates the skill and formats the final response

## Configuration & Modification

Once the Joule Skill & Agent project is added into the lobby, it can be run directly without any modification.

However, if you need to modify Joule skills that are used within the project or want to modify the agent, with its instructions/additional context or other fields, you can do so.



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In order to understand the various capabilities of Joule Studio and work with them please refer to the link: [Create AI Capabilities | SAP Help Portal](#)

## Release and Deploy the Project

Once the agent is verified by the user / modified based on user need, it must be released and deployed into a shared environment.

While deploying or testing you will be asked to select a destination. Please select the CAP application destination that was created in the previous step.

- Refer to the link below to create/Share an Environment:  
[Environments | SAP Help Portal](#)
- Refer to the link below to release a project:  
[Release a Project | SAP Help Portal](#)
- Refer to the link below to deploy a project:  
[Deploy a Project | SAP Help Portal](#)

## User Roles Configuration

To access this template, the users need to have the roles as described [here](#).

## Test the Joule Skills and Agent in SAP Build

1. To access your projects, navigate to **Control Tower ->Tenant Configuration->Environments**.
2. Select your environment.
3. After deploying the project, the project should be seen in the Shared Environment.
4. Click on the Tab, '**Joule**'
5. Click on the button '**Launch**'

This will open the Joule launchpad where you can key in the below prompts to test the agent.

Prompts	Expected Result
What is the status of Contract <your Contract ID>	Status of your contract fetched from the backend SAP system
I want to merge contracts?	Provide the contract Id's that you want to merge
I want to cancel a contract	Provide the contract Id's that you want to cancel

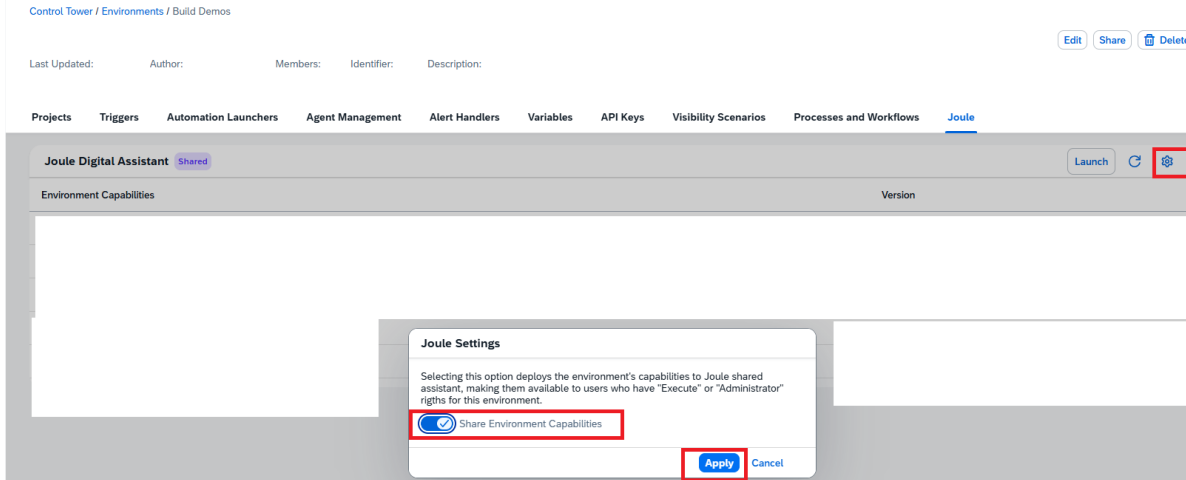
**NOTE:**



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1: Currently the Agent will be only deployed in the SAP Build environment and hence testing can also be done only in the Build Lobby. If you want to **activate the Joule in other systems** Eg: SAP S/4HANA or SAP Build Work zone, then click on the **settings** in ‘Control Tower->Environments-><Your Shared Environment that was created>->Joule’

Here you must switch the toggle on for ‘**Share Environment Capabilities**’.



### Support:

Since this is a learning content, support is not provided.