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SAP S/4HANA Integration with SAP Fieldglass Extension Sub Flows

SAP Cloud Integration



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PURPOSE

The purpose of this document is to describe the implementation steps for the SAP Cloud Integration package “SAP S/4HANA Integration with SAP Fieldglass - Extension Sub Flows”.

The package provides extensibility functionality for the configure-only “SAP S/4HANA Integration with SAP Fieldglass” content, allowing custom mapping and transformations.

CONFIGURATION

There are four extension integration flows. Each aligns with the delivered creation integration flow for that object:

Extension Flow #1: Purchase Requisition

Configure-only Header integration flow:

Replicate Purchase Requisition from SAP Fieldglass to SAP S/4HANA

Extension subflow:

Extension - Purchase Requisition Create

Extension Flow #2: Purchase Order

Configure-only Header integration flow:

Replicate Purchase Order from SAP Fieldglass to SAP S/4HANA

Extension subflow:

Extension - Purchase Order Create

Extension Flow #3: Service Entry Sheet

Configure-only Header integration flow:

Replicate SES from SAP Fieldglass to SAP S/4HANA

Extension subflow:

Extension - SES Create

Extension Flow #4 Invoice

Configure-only Header integration flow:

Replicate Invoice from SAP Fieldglass to SAP S/4HANA

Extension subflow:

Extension - Invoice Create

IMPLEMENTATION

The implementation process is consistent for each object flow.

Header Integration Flow Configuration

Enable the configure-only flow to call the extension subflow by setting the `Extended` parameter to `x`.

Configure "Replicate Purchase Requisition from SAP Fieldglass to SAP S4HANA"

Receiver **More**

Type: All Parameters

Extended: **x**

Extended_WSDL:

SenderBusinessID: Fieldglass

If the SAP S/4HANA WSDL has also been extended, set the `Extended_WSDL` parameter to `x`.

Configure "Replicate Purchase Requisition from SAP Fieldglass to SAP S4HANA"

Receiver **More**

Type: All Parameters

Extended: X

Extended_WSDL: **x**

SenderBusinessID: Fieldglass

Ensure the address of the subflow is correct:

Configure "Replicate Purchase Requisition from SAP Fieldglass to SAP S4HANA"

Receiver More

Receiver: ReceiverSubFlow

Adapter Type: ProcessDirect

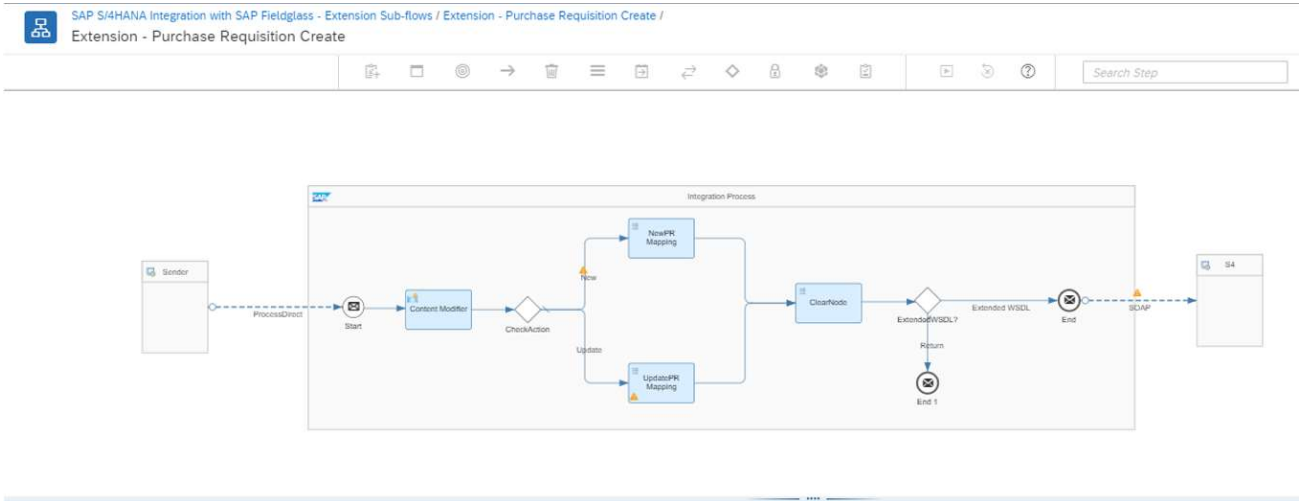
Connection

Address: /Fieldglass/PR_Create_Extension

Once the configuration is complete, deploy the integration flow.

Extension Subflow Configuration Changes

The extension subflow can be edited or copied to a local version and then edited. Therefore, any new steps can be added as required.



The message mapping step is configured for a direct one-to-one mapping for the message already transformed in the Header flow. Only the fields that require custom mapping need to be updated with the new logic. All the others will carry over the mapping as determined in the original Header integration flow.

The screenshot shows the 'Messages' configuration for a message mapping step. It displays two message structures side-by-side, with lines indicating the mapping between fields. The left structure is the source message and the right is the target message. Both structures are identical, showing a one-to-one mapping for all fields.

Structure	Occurrence	Structure	Occurrence
MessageHeader	1.1	MessageHeader	1.1
PurchaseRequisition	1.1	PurchaseRequisition	1.1
ActionCode	1.1	ActionCode	1.1
ItemListCompleteTransmissionIndicator	1.1	ItemListCompleteTransmissionIndicator	1.1
PurchaseRequisitionID	0.1	PurchaseRequisitionID	0.1
PurchasingRequisitionType	1.1	PurchasingRequisitionType	1.1
PurchaseRequisitionText	0.1	PurchaseRequisitionText	0.1
ExtProcmtRefIDocument	0.1	ExtProcmtRefIDocument	0.1

At the bottom, there is a 'Mapping Expression' field and a 'Test Input File' section with an 'Upload test file' button and a 'Browse' button.

The original message from SAP Fieldglass has also been provided in `Message2` so these values can be used in the custom mapping and transformation logic:

The screenshot shows the SAP Cloud Integration Messages pane. On the left, a table lists the structure of `ns4:Message2` with the following details:

Structure	Occurrence
ns4:Message1	1..1
ns4:Message2	1..1
ns1:ExternalReqForApprovalImportRequest	1..1
@partition	0..1
@variant	0..1
ns1:ExternalReqForApprovalInput_Item	0..1
ns1:item	0..1

On the right, a partial view of `ns4:Message1` is visible, showing its structure.

If the `Extended_WSDL` parameter is set to `x`, then configure the new WSDL in the subflow:

The screenshot displays the SAP Cloud Integration Integration Process and its configuration. The process flow is as follows:

```

graph LR
    Sender[Sender] -- ProcessDirect --> Start((Start))
    Start --> ContentModifier[Content Modifier]
    ContentModifier --> CheckAction{CheckAction}
    CheckAction -- New --> NewPRMapping[NewPR Mapping]
    CheckAction -- Update --> UpdatePRMapping[UpdatePR Mapping]
    NewPRMapping --> ClearNode[ClearNode]
    UpdatePRMapping --> ClearNode
    ClearNode --> ExtendedWSDL{Extended WSDL?}
    ExtendedWSDL -- Return --> End1((End 1))
    ExtendedWSDL -- Extended WSDL --> End((End))
    End -- SO --> S4[S4]
  
```

The JAP configuration for the subflow is shown below:

CONNECTION DETAILS

- Address: `https:// dummy / dummy`
- URL to WSDL: `wSDL/mmpur_purrequisitionrequest_in.wsdl`
- Service: `p1.service`
- Endpoint: `p1.binding`
- Operation Name: `p1.PurchaseRequisitionRequest_In`
- Proxy Type: `Internet`

SAP S/4HANA will then be called from the subflow and the call will not be made from the Header flow. If this `Extended_WSDL` parameter is not set, then the payload will be returned to the Header integration flow and sent on to the relevant SAP S/4HANA soap service.

Once the changes are complete, deploy the integration flow.

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SAP Fieldglass 

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