

Trigger Entitlement Provisioned Event to S4HANA

Prerequisite

Make sure you have followed link

<https://help.sap.com/viewer/bf82e6b26456494cbdd197057c09979f/Cloud/en-US/57af1bd4e8f54b0a9b36414a5ec6b800.html> to create your own queue(s), and subscribe to the topic **sap/som/ems/ce/sap/som/ems/entitlement/provisioned/v1**.

Also make sure namespace of your service descriptor of event mesh is **sap/som/ems**.

Configure SAP BTP Integration Settings to trigger entitlement provisioned event

Configuring SAP BTP Integration settings to allow CPI to send entitlement provisioned event to event mesh.

Procedure:

1. Set up following on **Sender** tab.

Field	Value	Comment
Address	/entitlement/provisioned	This is the default value; you can change it based on your requirement
CSRF Protected	false	Disable CSRF Protected

2. Set up following on **Receiver** tab.

Field	Value	Comment
Host	Host of uri whose protocol is amqp10ws in SAP BTP Event Mesh service key	wss://<<host>>/protocols/amqp10ws
Port	443	
Path	Path of uri whose protocol is amqp10ws in SAP BTP Event Mesh service key	wss://<<Host>><<Path>>
Proxy Type	Internet	
Connect with TLS	True	
Authentication	OAuth2 Client Credentials	
Credential Name	SAP BTP Event Mesh OAuth2 Credential name defined in SAP BTP Integration	
Destination Type	Topic	
Destination Name	topic:sap/som/ems/ce/sap/som/ems/entitlement/provisioned/v1	
Expiration Period (in s)		
Delivery	Persistent	
Message Type	Automatic	

Create Destination in SAP BTP Cockpit of SAP Entitlement Management Subaccount

Procedure:

1. Go to SAP BTP Cockpit of SAP Entitlement Management Subaccount
2. Click **Destination**
3. Click **New Destination**

Field	Value	Comment
Name	Provide the name of destination	
Type	HTTP	
Description	Provide description of destination	
URL	http(s)://host	You get host from endpoint of your deployed iflow – Trigger Entitlement Provisioned Event to S4HANA
Proxy Type	Internet	
Authentication	Authentication Type	Based on your authentication type, provide authentication details.

Maintain Remote Communication in SAP Entitlement Management

Field	Value	Comment
Communication Channel Name	Provide communication channel name	
Description	Provide description of communication channel	
Interface Name	Event Notification	
Destination Name	Choose the destination which created in previous step	
Path	/http/entitlement/provisioned	You can get path from endpoint of your deployed iflow – Trigger Entitlement Provisioned Event to S4HANA
CSRF-Token Enabled	False	If you didn't enable CSRF protected in iflow – Trigger Entitlement Provisioned Event to S4HANA
Customized HTTP Header Enabled	False	

Define Entitlement Events in SAP Entitlement Management

Procedure:

1. Provide name, code and description for your event
2. Tick checkbox "Group Event"
3. Define trigger condition

Field	Value	Comment
Field	Entitlement Model	
Operator	In	
Value Type	Constant	
Value		Provide your entitlement models, those entitlement

		models will be relevant to entitlement provisioned
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4. Tick checkbox “Belongs to the same line item of the origination document”
5. Define group condition
Provide a condition to determine whether the entitlement is provisioned.
6. Send notification

Field	Value	Comment
Outbound Business Event	Choose one of the business events	
Notification Content	Send Full Content	
Notification Type	Send Notification Immediately	
Communication Channel Name	Choose the communication channel which you created in previous step	

Configurations in S/4 HANA Subscription Order Management

1. Register inbound event consumer in View **V_INBCONSUMR**
2. Perform inbound mapping in view **V_INBOUNDMAP** (Replacement for descriptor class)
 - Consumer ID Ex. EntitlementManagementSystem
 - Topics entitlement.provisioned.v1
 - Inbound Payload structure **CRMS4S_EMS_ENTITLEMENT_EVT_PRV**
 - a. Internal Event class (interface IF_WORKFLOW) **CL_CRMS4_EMS_ENTITLEMENT_WF**
3. Configure XBE (**/IWXBE/CONFIG**) to establish connection to Enterprise Messaging and listen to events.
 - Channels(Activating the channels would need the PFCG Role **SAP_QAP_ABAPDAEMON** for the users who is activating this)
 - Inbound bindings
 - Subscription
4. Create event type linkages in **SWE2** (maps BEH events to Internal events)
5. Implement internal event class for further processing in application e.g.. To update Subscription Contract based on “PROVISIONED” event from SAP Entitlement Management.
6. Maintain the **SWE2** for this PROVISIONED event
7. Open **SWE2**, Create a new entry and maintain as below

SAP New Entries: Details of Add

Object Category: CL ABAP Class
 Object Type: CL_CRMS4_EMS_ENTITLEMENT_WF
 Event: PROVISIONED
 Receiver Type: EMS

Linkage Setting (Event Receiver)

Receiver Call: **M Method**
 Class Name: CL_CRMS4_SOM_SUBSCR_CTR_HDL
 Interface Name: BI_EVENT_HANDLER_STATIC
 Method Name: ON_EVENT
 Check Function Module:
 Receiver Type Function Module:
 Destination of Receiver:
 Event delivery: Using tRFC (Default)

ODI Setup

Create a new Step type as below

Step Type	Document Distribution Step Type	Cate...	Batch	Document Distribution Step Type Class
<input type="checkbox"/> CCMU	Step for Contract Update	C1	<input type="checkbox"/>	CL_CRM_ISX_ORDER_MD_ERP_MCC
<input type="checkbox"/> 0001	Order Always true activation	01	<input type="checkbox"/>	CL_CRM_ISX_MD_EXAMPLE_TRUE
<input type="checkbox"/> ONEF	Distribute One-off Items from Order	01	<input type="checkbox"/>	CL_CRMS4_SOM_ONEOFF_DIST
<input type="checkbox"/> OTRC	Checks for Technical Resources	01	<input type="checkbox"/>	CL_CRM_ISX_MD_TECH_RES_CHECKS
<input checked="" type="checkbox"/> PEMS	Wait for Entitlement provsioning	P0	<input type="checkbox"/>	CL_CRMS4_SOM_EMS_CNTR_ACTIVATE

Assign this to the schema

Schema: **ZEMS**
 Doc. Distr. Schema: Test schema with Entitlement

Schema Steps

Step ID	Step Description	Step Type	Document Distribution Step Type	Category	Distribution Step Category	Step Sec
<input type="checkbox"/> EQUW	Wait for Contract Start date	EQUW	Wait for Contract Start date - no. P0		Subscription Contract waits for a. 20	
<input type="checkbox"/> PCER	Call FICA Message for Early Dist.	PCER	Call FICA Message for Early Dist. P0		Subscription Contract waits for a. 5	
<input checked="" type="checkbox"/> PEMS	Wait for Entitlement provsioning	PEMS	Wait for Entitlement provsioning P0		Subscription Contract waits for a. 10	
<input type="checkbox"/> PCEA	Call FICA message contract activ	PCEA	Call FICA Message contract activ P1		Subscription Contract Activation 30	

Assign schema to Transaction type and Item category

Transaction Type:

Short Description:

Item Category:

Description:

Schema Assignment

Schema	Document Distribution Schema	Default
<input type="checkbox"/> ZALL	Subscription Contract All	<input type="checkbox"/>
<input type="checkbox"/> ZEMS	Test schema with Entitlement	<input checked="" type="checkbox"/>

Define Item Categories

SAP Change View "Definition of Item Categories": Overview

Dialog Structure

- Definition of Item Categories
 - Assignment of Business Transac
 - Customizing Item

Definition of Item Categories

Item Cat.	Description	Description	Inactive	Item Object Type
<input type="checkbox"/> ZCOR	Sub. Ord.Itm Rec. CC	Subscription Order Item Recurring in CC	<input type="checkbox"/>	BUS2000155 Subscr
<input type="checkbox"/> ZCQR	Subscr. Item Rec. CC	Subscription Item Recurring in CC	<input type="checkbox"/>	BUS2000155 Subscr
<input checked="" type="checkbox"/> ZEMC	Subscr. Cont w Entlm	Subscription Contract with Entitlement	<input type="checkbox"/>	BUS2000156 Subscr
<input checked="" type="checkbox"/> ZEMS	Subscr. Itm. w Entlm	Subscription Order Item with Entitlement	<input type="checkbox"/>	BUS2000155 Subscr
<input type="checkbox"/> ZRCD	Subscr. Cont. w Equi	Subscription Contract with Equipment	<input type="checkbox"/>	BUS2000156 Subscr
<input type="checkbox"/> ZROD	Subscr. Itm. w Equi	Subscription Order Item with Equipment	<input type="checkbox"/>	BUS2000155 Subscr
<input type="checkbox"/> ZRSP	Subscr.Sales Package	Sales Package	<input type="checkbox"/>	BUS2000131 Sales

Define Settings for Item Categories

SAP Change View "Subscription-Specific Customizing of Item Categories": Ov

Subscription-Specific Customizing of Item Categories

Item Cat.	Use Disc.	Show Counter	Show Allow	One-Off	Split	Enable Qty	Obj List	Def. Distr	Rec. in CC
<input type="checkbox"/> ZCOR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> ZCQR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> ZEMC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> ZEMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Define Item Category Determination

SAP Display View "Item Category Determination": Overview

Item Category Determination

Trans.Type	Desc.TransTyp	ItCGr	ItmCat....	Main item cat.	Desc. itm cat.	Item Cat.	Desc.ItmCty
<input checked="" type="checkbox"/> PRVC	Subscr. Contrac.	ZEMS Entlmnt Subs.Pro.	ZEMC	ZEMC	Subscr. Cont w	ZEMC	Subscr. Cont w Entlm

SAP Display View "Item Category Determination": Overview

Item Category Determination

Trans.Type	Desc.TransTyp	ItCGr	ItmCat....	Main item cat.	Desc. itm cat.	Item Cat.	Desc.ItmCty
<input checked="" type="checkbox"/> PRV0	Subscription Or.	ZEMS Entlmnt Subs.Pro.	ZEMS	ZEMS	Subscr. Itm. w	ZEMS	Subscr. Itm. w Entlm

Define Item Category Group

Search, Filter, and More options

ItCGr	Description
<input checked="" type="checkbox"/> ZEMS	Entlmnt Subs.Prod

Define Item Category Determination when Copying

Search, Filter, and More options

Copy Item Categories - Item Category Determination

SourceCat.	Item cat. desc. by	Tgt T.Type	Trans.type descr.to	ItmCat. by	Item cat. desc. to
<input checked="" type="checkbox"/> ZEMC	Subscr. Cont w Entlm	PRVC	Subscr. Contract Doc	ZEMC	Subscr. Cont w Entlm
<input checked="" type="checkbox"/> ZEMC	Subscr. Cont w Entlm	PRVO	Subscription Order	ZEMS	Subscr. Itm. w Entlm

Define Copying Control for Item Categories

Search, Filter, and More options

Copy Item Categories - General Control Data

SourceCat.	TargetCat	Description	Copying routine	Copy conditions	Explode Struct.	Config.
<input type="checkbox"/> ZEMC	ZEMS	Subscr. Itm. w Entlm	PRVCTO	D Copy all conditions	<input type="checkbox"/>	B Copy Configuration
<input type="checkbox"/> ZEMS	ZEMC	Subscr. Cont w Entlm		D Copy all conditions	<input type="checkbox"/>	B Copy Configuration
<input type="checkbox"/> ZEMS	ZEMS	Subscr. Itm. w Entlm	PRVOTO	D Copy all conditions	<input type="checkbox"/>	B Copy Configuration

Assign the new item category group to the material SOM_REC_EMS_HARD_UG_SCIENCE_PROV

Additional Data, Org. Levels, and More options

Basic data 1, Sales: sales org. 1, Sales: sales org. 2, Sales text

Material:
 Descr.:

General Data

Base Unit of Measure: Each Material Group:

Old material number:

Division:

Ext. Matl Group:

GenItemCatGroup: Entlmnt Subs.Prod

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Material:
Descr.:
Sales Org.: Whitefield South
Distr. Chl: SOM Direct Sales



Grouping terms

Volume Rebate Group:
Gen. item cat. grp:
Entlmnt Subs.Prod
Material Price Grp:
Acct Assmt Grp Mat.:
Item Category Group: Entlmnt Subs.Prod
Pricing Def. Meth: