Synchronize Actual Events back to SAP TM

To send event notifications for freight orders or freight bookings from the GTT system to your SAP TM system, you need to set up a connection between your SAP TM or SAP S/4HANA system and SAP Logistics Business Network, global track and trace option as follows:

- 1. Configure web service in your SAP TM system
- 2. Configure connection in your SAP Cloud Connector
- 3. Define destination service in your SAP Cloud Platform cockpit
- 4. Implement forwardEventToTM function in your GTT model

Note

The SAP Cloud Platform brand is retired. For more information, see <u>A Robust Platform for RISE with SAP</u>. Parts of this content were created before our branding changes related to SAP technology were announced in January 2021.

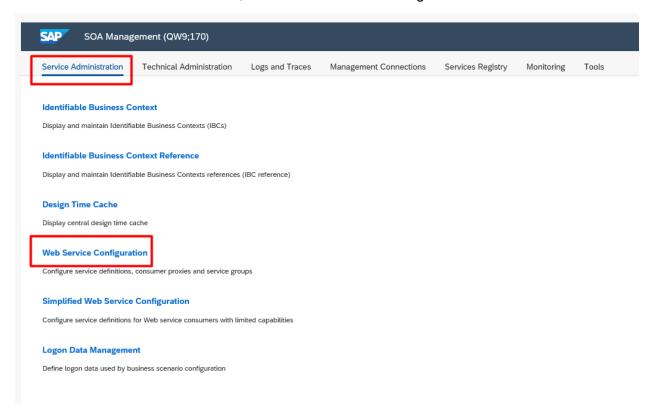
1. Configure Web Service in Your SAP TM System

1.0 Check whether interface "TransportationEventBulkNotification_In" is available in your SAP TM system.

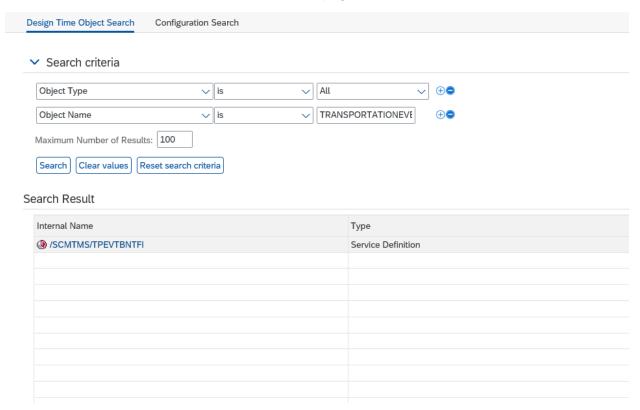
To receive event notifications, you must use the B2B message interfaces: "TransportationEventBulkNotification In" in your TM system.

For more information about the required message enhancement, see SAP Notes <u>2721729</u> and <u>2743015</u>.

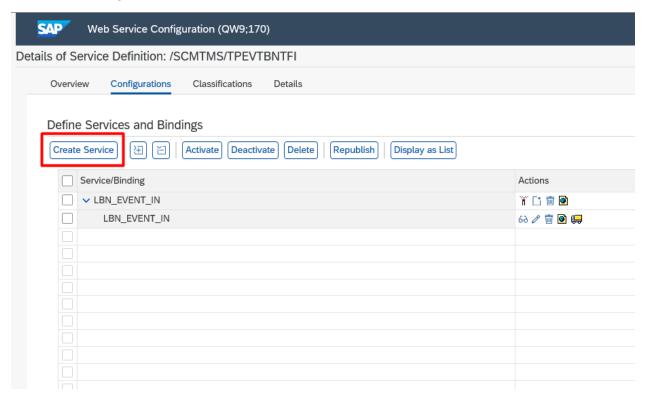
1.1 Execute T-CODE "SOAMANAGER" in your TM system.
Under "Service Administration", select "Web Service Configuration".



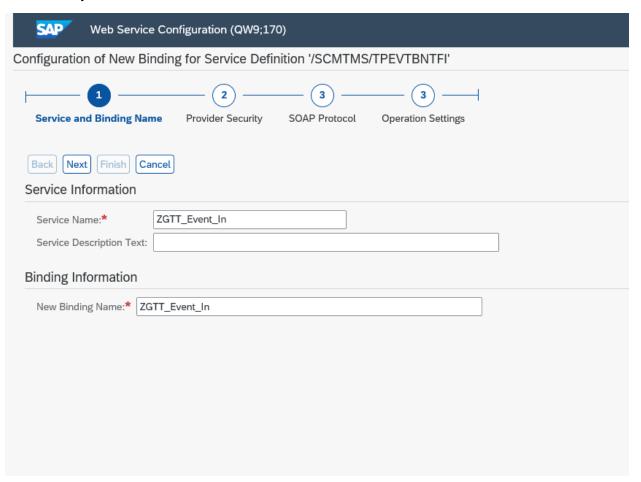
1.2 Search for "TransportationEventBulkNotification_In" and select the service "/SCMTMS/TPEVTBNTFI" to enter the detail page.



1.3 In the "Configurations" tab, click "Create Service".

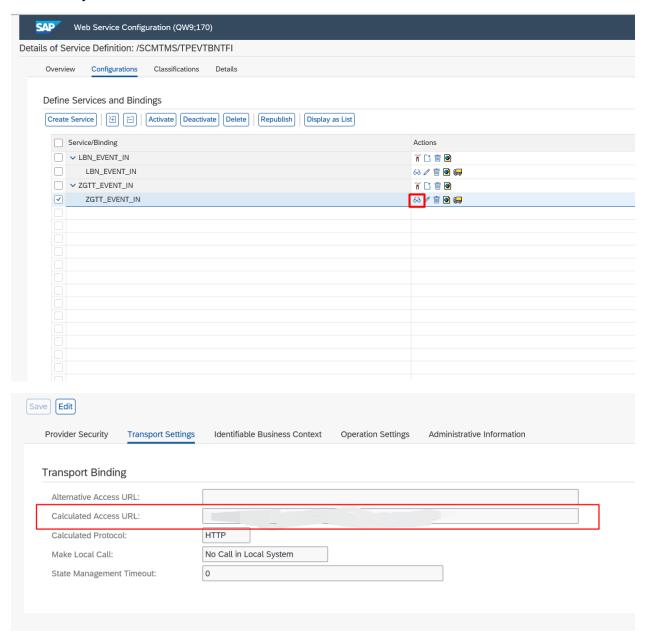


1.4 In the popup window, fill in your own service name and security settings and save the service you created.



SAP Web Service Configuration (QW9;170)			
Configuration of New Binding for Service Definition '/SCMTMS/TPEVTBNTFI'			
Service and Binding Name Provider Security SOAP Protocol Operation Settings			
Back Next Finish Cancel			
Transport Guarantee			
Transport Level: None			
Transport Level Security			
None (http)			
○ SSL (https)			
Message Level Security			
None			
Symmetric Message Signature and Encryption			
○ Asymmetric Message Signature			
Asymmetric Message Signature and Encryption			
Secure Conversation			
Extended Signature and Header Protection			
Authentication Settings			
Authentication Level: Basic			
Authentication Method			
□ No Authentication			
Transport Channel Authentication			
✓ User ID/Password			
X.509 SSL Client Certificate			
Single Sign On using SAP Assertion Ticket			
Single Sign On using SPNego			
Message Authentication			
User ID/Password			
X.509 Certificate			
Single Sign On using SAML			

1.5 Check your service's Calculated Access URL.

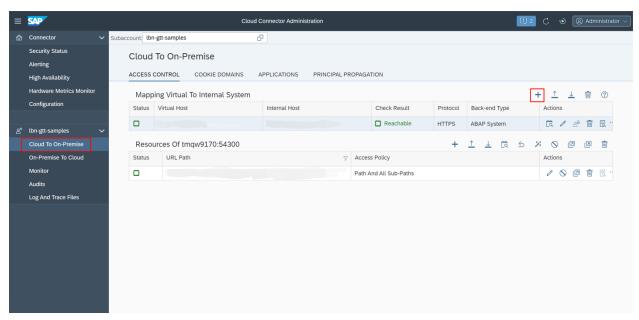


2. Configure Connection in Your SAP Cloud Connector

2.0 Ensure that you have installed SAP Cloud Connector.
For details about how to install it, see SAP Cloud Connector Installation Guide on the SAP Help Portal.

https://help.sap.com/viewer/cca91383641e40ffbe03bdc78f00f681/Cloud/en-US/57ae3d62f63440f7952e57bfcef948d3.html

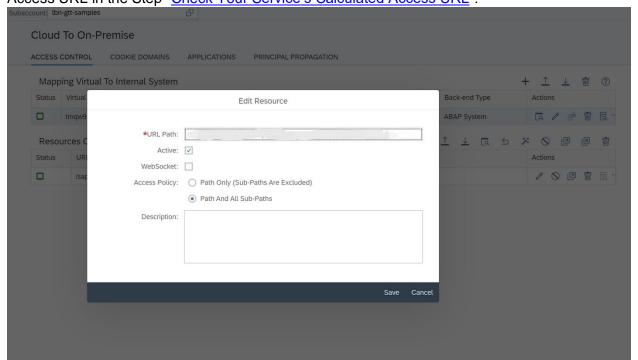
- 2.1 After installing Cloud Connector and starting the Cloud Connector, log on to the cloud connector and perform required configurations to make your Cloud Connector operational. For details, see https://help.sap.com/viewer/cca91383641e40ffbe03bdc78f00f681/Cloud/en-US/db9170a7d97610148537d5a84bf79ba2.html
- 2.2 After setting up the connection between your cloud platform and your cloud connector, maintain the connection between your SAP TM system and your cloud connector. Click "Cloud To On-Premise" and Create "Mapping Virtual to Internal System".



2.3 Fill in the virtual URL and internal URL of your SAP TM system.

i Virtual host and port cannot be edited ABAP System Back-end Type: Protocol: HTTPS Virtual Host: Virtual Port: *Internal Host: *Internal Port: SAProuter: Principal Type: None SNC Partner Name: Host In Request Header: Use Virtual Host Description: Check Internal Host:

2.4 Add resource for your mapping internal URL. Fill in the URL path below with Calculated Access URL in the Step "Check Your Service's Calculated Access URL".



3. Define Destination Service in Your SAP Cloud Platform Cockpit

3.1 Go to your subaccount that subscribed the global track and trace option in SAP Cloud Platform cockpit and create a destination service. Apply the user and password from your SAP TM system.

Fill in the URL as:

http://{virtual host in cloud connector}:{virtual port in cloud connector}{Calculated Access URL} Note down your destination service name.

Destination Configuration		
Name:*	TO_QW9_170_STANDARD	Additional Properties
Туре:	НТТР	
Description:	ABAP QW9	
URL:*		
Proxy Type:	OnPremise	
Authentication:	BasicAuthentication	
Location ID:	cpi	
User:*		
Password:		
Edit Clone Export Delete Check Connection		

4. Implement forwardEventToTM Function in Your GTT Model

4.1 In the corresponding model's Event-to-Action script in the Manage Models app, you can refer to the script in the template model below to implement forwardEventToTM function.

Note:

Replace "TO_QW9_170_STANDARD" with the destination name that you maintained in Step 3 and replace "QW9CLNT170" with the logical system of shipment tracked process.

For details, see help.sap.com/qtt and search for Guide for Model Administrators.

```
Help
  368 /*-----*/
  369 //For Track Shipments Application Only
370 var destinationTMName = "TO_QW9_170_STANDARD";
371 var msgObj = toObject("{}");
  372 var eventObj = toObject("{}");
  373
  374 var reportedBy = null;
  375 var estimatedArrivalTime = null;
  376 var refPlannedEventMatchKey = null;
  377 var estimatedArrival = null;
  378
  379 eventObj.eventReasonCode = "";
  380 eventObj.stopId = "
  381
  382 if (trackedProcess != null &&
           "QW9CLNT170" == trackedProcess.logicalSystem &&
  383
            "SHIPMENT_ORDER" == actualEvent.trackingIdType &&
  384
  385
             ("com.lbngttsamples.gtt.app.sof.Shipment.Departure" == actualEvent.eventType ||
                 "com.lbngttsamples.gtt.app.sof.Shipment.Arrival" == actualEvent.eventType ||
  387
                 "com.lbngttsamples.gtt.app.sof.Shipment.Delay" == actualEvent.eventType ||
  388
                 "com.lbngttsamples.gtt.app.sof.Shipment.LoadingStart" == actualEvent.eventType ||
  389
                 "com.lbngttsamples.gtt.app.sof.Shipment.LoadingEnd" == actualEvent.eventType ||
                "com.lbngttsamples.gtt.app.sof.Shipment.POD" == actualEvent.eventType ||
"com.lbngttsamples.gtt.app.sof.Shipment.POPU" == actualEvent.eventType ||
"com.lbngttsamples.gtt.app.sof.Shipment.Coupling" == actualEvent.eventType ||
  390
  391
  392
                "com.lbngttsamples.gtt.app.sof.Shipment.Decoupling" == actualEvent.eventType ||
"com.lbngttsamples.gtt.app.sof.Shipment.UnloadingStart" == actualEvent.eventType ||
  393
  394
  395
                 "com.lbngttsamples.gtt.app.sof.Shipment.UnloadingEnd" == actualEvent.eventType)) {
  396
            if (actualEvent.containsProperty("estimatedArrival") && actualEvent.containsProperty("refPlannedEventMatchKey")) {
                 refPlannedEventMatchKey = actualEvent.refPlannedEventMatchKey;
  397
  398
                estimatedArrival = actualEvent.estimatedArrival:
  399
                 var i = 0;
  400
                // Get the lastest matched estimatedArrivalTime
```