Implementation Guide

- Track Shipments Template App

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0.Prerequisites

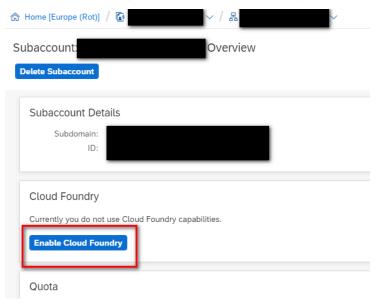
• You have an SAP Cloud Platform global account with the entitlement to SAP Business Network Global Track and Trace, and the account is assigned 1 portal service quota and 2 GB Application Runtime quota.

Please refer to the 1 $^{\rm st}$ Q&A in "FAQs for Template Code Implementation" for guidance on how to add quotas.

1.Environment Configuration in SAP Business Network Global Track and Trace

1.1 Enable Cloud Foundry and Create Space

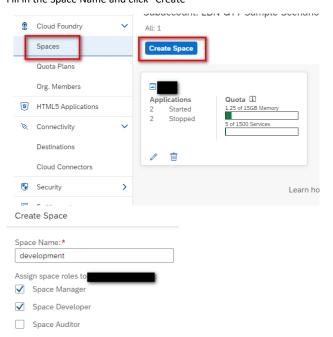
a. Click "Enable Cloud Foundry" to enable the development landscape



b. Fill in the Organization Name and click "Create"

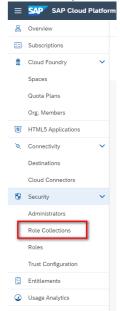


c. Go to "Cloud Foundry" -> "Spaces"Click "Create Space"Fill in the Space Name and click "Create"

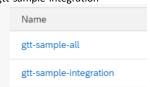


1.2 Maintain Roles and Users

1. Go to "Security" -> "Role Collections"



2. Create 2 role collections (You can have user-defined names): gtt-sample-all gtt-sample-integration



- Role template "gtt-sample-all" is granted to users who have access to SAP Business
 Network Global Track and Trace and Track Shipments template app.
- Role template "gtt-sample-integration" is granted to technical users only who have access to the global track and trace APIs for development purpose.

3. Go to the role of "gtt-sample-all", and add the following roles:

Role	Application
MessageLogAdminTemplate	lbn_gtt_core
DataModelAdminTemplate	lbn_gtt_core
LocationProcessTemplate	lbnplatform-loc-broker
BPEditTemplate	lbnplatform-bprepo
BusinessPartnerDiscoveryTemplate	lbnplatform-bprepo
InviteBPProcessTemplate	lbnplatform-bprepo
ManageInvitationsProcessTemplate	lbnplatform-bprepo
BlockStoreProcessTemplate	Ibn-retentionmanagement-sb
ReminderTemplateProcessTemplate	lbn-retentionmanagement-sb

- 4. Grant "gtt-sample-all" to your **application** users:
 - Application users are those who have access to SAP Business Network Global Track and Trace and *Track Shipments* template app.

IT Administrator needs to maintain application users in identity provider.

For example, <u>user1@sap.com</u>

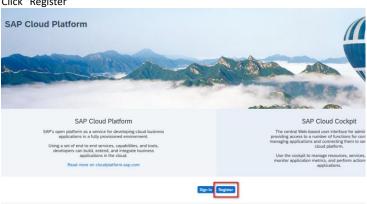


Note: The application user in this step should be different from the technical user created in Step 1.3. A user should **never** be assigned to **both** "gtt-sample-all" and "gtt-sample-integration".

1.3 Maintain Technical User

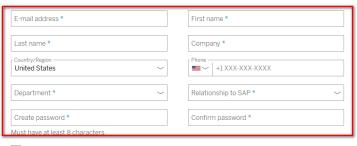
a. Go to the SAP Cloud Platform to create the technical user account: https://account.hana.ondemand.com/#/home/welcome

Click "Register"



b. Fill in the mandatory fields:

Tell us about yourself

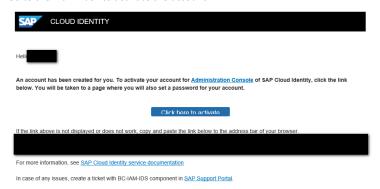


I have read and understood the Terms and Conditions of SAP.com

SAP will use any of the data provided hereunder in accordance with the Privacy Statement.

This site is protected by reCAPTCHA and the Google Privacy Policy and Terms of Service apply.

c. Go to the mail inbox to activate the account



d. As shown in Step 1.2, go to the role of "gtt-sample-integration", and add the following roles:

Role	Application
EMIDocIntegrationTemplate	lbn_gtt_core
MetadataServiceIntegrationTemplate	lbn_gtt_core
ReadServiceIntegrationTemplate	lbn_gtt_core
WriteServiceIntegrationTemplate	lbn_gtt_core
LocationProcessTemplate	lbnplatform-loc-broker

e. Grant "gtt-sample-integration" to your **technical** user:

For example, techuser1@techcompany.com

Users (2)

ID Identity Provider E-Mail

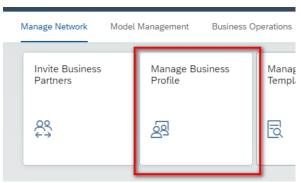
techuser1@techcompany.com

Default identity provider
techuser1@techcompany.com

Note:

In the "Identity Provider" field, select "Default identity provider".

f. Go to SAP Fiori Launchpad for SAP Business Network Global Track and Trace Open *Manage Business Profile* app



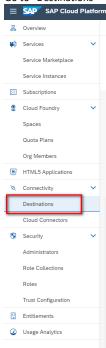
g. Add one Alternate Identifier:
Identifier Type: Technical User
ID: the email address of technical user



Note: The technical user in this step should be different from the application user in Step 1.2.4. A user should **never** be assigned to **both** "gtt-sample-all" and "gtt-sample-integration".

1.4 Maintain Destination of GTT Core Engine Base URL

• Go to "Destinations"



• Configure Destination of GTT Core Engine Base URL

Name	gtt_core_engine_flp_base_url
Туре	HTTP
Description	<pre><optional></optional></pre>
URL	Input the GTT Fiori Launchpad URL and add "/api" at the end of it
	For example:
	https://xxxxx.gtt-flp-lbnplatform.cfapps.eu10.hana.ondemand.com/api
	For the instructions on how to get the GTT Fiori Launchpad URL, see the
	note under this table
Proxy Type	Internet
Authentication	BasicAuthentication
User	Email of Technical User from Step 1.3
Password	Password of Technical User from Step 1.3

Note:

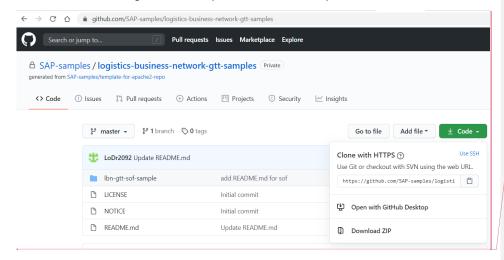
- On your subaccount page, click "Instances and Subscriptions" in the "Service" tab and click "Global Track and Trace" application. Click "Go to Application".
- Copy the GTT Fiori Launchpad URL:

2.Implement Track Shipments Template App

2.1 Download Template Code

Go to https://github.com/SAP-samples/logistics-business-network-gtt-samples.

Download and extract, or git clone the template code from SAP-samples on GitHub.



2.2 Download and Setup Tools

a. Install JDK 8 and Maven

JDK 8: https://www.oracle.com/java/technologies/javase-jdk8-downloads.html

Maven: https://maven.apache.org/download.cgi

Install NPM, Node JS, and grunt-cli
 Node JS 12: https://nodejs.org/dist/latest-v12.x/

For the instructions on how to install Node JS and NOM, see https://www.saplearners.com/how-to-install-node-js-and-npm/

Run the following command after NPM is installed: npm config set @sap:registry "https://npm.sap.com" -g

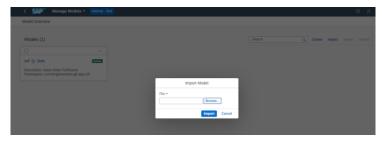
- c. Install Cloud Foundry Command Line Interface https://developers.sap.com/tutorials/cp-cf-download-cli.html
- d. Install MultiApps CF CLI Plugin https://github.com/cloudfoundry-incubator/multiapps-cli-plugin

Commented [LS1]: Needs to be replaced

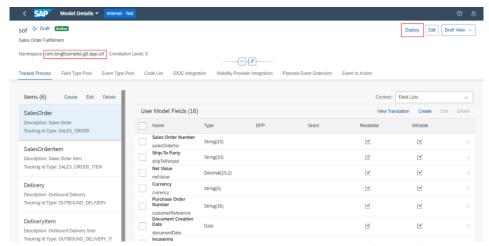
- e. Install Cloud MTA Build Tool (MBT)
 https://sap.github.io/cloud-mta-build-tool/download/
- f. Install MAKE https://sap.github.io/cloud-mta-build-tool/makefile/

2.3 Deploy Model

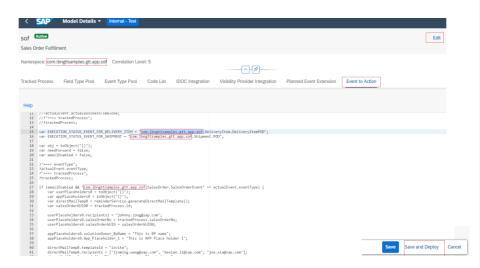
- Go to the folder *model* with downloaded source code. Make sure you have a JSON file *sof-model-YYYYMMDDxx.json* (e.g. sof-model-2020091001.json).
- Open Manage Models app on SAP Fiori Launchpad for global track and trace
- Click "Import"
- Click "Browse" to select the sof-model-YYYYMMDDxx.json file
- Click "Import" to import the model



- Click "Deploy"
- Write down the model namespace for later use, in this case, "com.lbngttsamples.gtt.app.sof" in the picture below



- Click "Edit"
- Go to Event to Action tab
- Replace all the namespace strings, in this case, "com.lbngttsamples.gtt.app.sof" in Event to
 Action script with the model namespace you wrote down in the previous step
- Click "Save and Deploy" to deploy the model



2.4 Package and Deploy

2.4.1 Login to SAP Cloud Foundry

- Open a command window, cf login to SAP Cloud Foundry with your username and password
- Select the organization and space in which you want to deploy the template apps

```
Authenticating...

Select an org:

1.
2.
3.
4.
5.
6.

Org (enter to skip): 6

Targeted org

Select a space:
1. acc
2. perf
3. int
4. inthf
5. sbx

Space (enter to skip): 5

Targeted space

API endpoint: https://api.cf.sap.hana.ondemand.com (API version: 3.81.0)

User:
Org:
Space:
```

2.4.2 Package and Deploy *Track Shipments* Frontend App

Go to GTT-V2-Sample-TrackShipments-UI directory.

- Open the ./UI/.env file
- Replace {tenant-name} with the middle part of the namespace you got from Step 2.3.

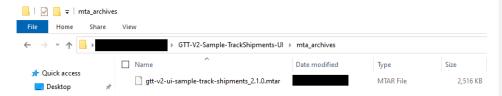


In the command line tool,

 $\bullet \quad$ Run the following command to build the MTAR package:

mbt build

A MTAR file ./mta_archives/gtt-v2-ui-sample-track-shipments_xxx.mtar is then generated.



• To deploy the MTAR package in Cloud Foundry, run the following command: cf deploy ./mta_archives/gtt-v2-ui-sample-track-shipments_xxx.mtar

The deployment time depends on your network conditions.

2.4.3 Package and Deploy SAP Fiori Launchpad for *Template Applications* Go to GTT-V2-Sample-App-FLP directory.

 First ensure that at least 1 portal quota is assigned to the subaccount in which apps are deployed.

You can refer to the 1^{st} Q&A in FAQs for Template Code Implementation for guidance on how to add quotas.

- Open the mta.yaml file
- Replace {unique-identifier} with unique information such as your company name or cloud foundry global account name

Note:

- {unique-identifier} must only contain lowercase letters, numbers and hyphens "-". For example, "company-s01".
- o For the length of "routes", the maximum limit is 63 characters.

```
2 ID: lbn-gtt-sample-app-flp
3 _schema-version: "3.1"
4 parameters:
     deploy_mode: html5-repo
     enable-parallel-deployments: true
     append: "${space}"
    xsappname: tt_sof_${append}
9 version: 2.3.0
10 modules:
- name: lbn-gtt-sample-app-appRouter
      type: approuter.nodejs
13 path: flp_appRouter
14 parameters:
       disk-quota: 256M
       memory: 256M
     routes:
- route: lbn-gtt-samples-app-flp-{unique-identifier} ${domain}
     properties:
      SAP_JWT_TRUST_ACL:
20
        - clientid: "*"
           identityzone: "*"
       destinations:
          - name: 1hn-gtt-sof-ani
24
```

```
resources:
 - name: lbn-gtt-sample-app-runtime
   parameters:
     service-plan: app-runtime
     service: html5-apps-repo
   type: org.cloudfoundry.managed-service
 - name: lbn-gtt-sample-portal-resources
     service-plan: standard
     service: portal
   type: org.cloudfoundry.managed-service
  - name: lbn-gtt-sof-api
     url: https://gtt-sample-track-salesorders-service-{unique-identifier}.${default-domain}
 - name: lbn-gtt-sst-api
   properties:
    url: https://gtt-sample-track-shipments-service {unique-identifier} ${default-domain}
 - name: lbn-gtt-pof-api
   properties:
     url: https://gtt-sample-track-purchaseorders-service-{unique-identifier}.${default-domain}
 - name: lbn-gtt-sample-app-uaa
   type: com.sap.xs.uaa-application
   parameters:
```

This FLP project includes 3 template applications which are Track SO FulFillment, Track Shipments and Track Purchase Orders. Before you build and deploy it, please deploy all the UI projects you need in advance, otherwise the deploy of this project will fail.

If you only need Track Shipments app, do the following changes:

- Open the mta.yaml file
- Delete lbn-gtt-sof-api and lbn-gtt-pof-api in lbn-gtt-sample-app-appRouter and resources
 modules
- Delete gtt-ui-sample-track-salesorders-app-host and gtt-ui-sample-track-purchaseorders-apphost in flp and resources module

```
IDI lbr-gtt-sample-ago-flp

__schema-version: '9.1'
permatters:

doplog.mode: html3-repo
emale-parallal-degloments: true
apond: '5(spec)'
xappoment tt_gof {append}

version: 2.3.0

version: 2.3.0

nomolass:

- name: lbr-gtt-sample-ago-appRouter
type: approuter-mode):
parameters:
disk-quota: 2500
members:
disk-quota: 2500
members:
- route: lbr-gtt-sample-ago-flp-(unique-identifler).$(domain)
properties:
- route: lbr-gtt-sample-ago-flp-(unique-identifler).$(domain)
properties:
- route: lbr-gtt-sample-ago-flp-(unique-identifler).$(domain)
properties:
- sample.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models.models
```

```
- name: lbn-gtt-sample-app-runtime
   parameters:
service-plan: app-runtime
service: html5-apps-repo
type: org.cloudfoundry.managed-service
- name: lbn-gtt-sample-portal-resources
   parameters:
       service-plan: standard
       service: portal
  type: org.cloudfoundry.managed-service
- name: lbn-gtt-sof-api
   properties:
   url: https://gtt-sample-track-salesorders-service-{unique-identifier}.${default-dom
name: lbn-gtt-sst-api
   properties:
   url: https://gtt-sample-track-shipments-service-{unique-identifier}.${default-domain}
name: lbn-gtt-pof-api
   properties:
   unl: https://gtt-sample-track-purchaseorders-service-(unique-identifier).$(default-domain)
name: lbn-gtt-sample-app-uaa
type: com.sap.xs.uaa-application
   parameters:
config:
          xsappname: "${xsappname}"
          tenant-mode: dedicated oauth2-configuration:
            system-attributes:
          - rolecollections
description: Security profile of sales order fulfillment application
         scopes:
- name: "$XSAPPNAME.sof.r"
description: Allow to access sales order fulfilment application
- name: "$XSAPPNAME.pof.r"

    name: "$X$APPNAME.pof.r"
    description: Allow to access purchase order fulfilment application
    name: "$X$APPNAME.sst.r"
    description: Allow to access standalone shipment tracking application
    name: "$X$APPNAME.sst.w"
    description: Allow to report events in standalone shipment tracking application

              - name: uaa.user
          - name: uaa.user
description: UAA
authorities:
- "$XSAPPNAME.sof.r"
- "$XSAPPNAME.pof.r"
- "$XSAPPNAME.sst.r"
              - "$XSAPPNAME.sst.w"
          role-templates:
            role-templates:
- name: SalesOrderFulfillmentAppUserOisplayTemplate
description: Track & Trace Sales Order Fulfillment Template App User Read Access
scope-references:
- "SXSAPPIMME:sof.r"
- una.user
```

```
- name: "$XSAPPHANE.sst.r" description: Allow to access standalone shipment tracking application - name: "$XSAPPHANE.sst.w"
         description: Allow to report events in standalone shipment tracking application name: usa.user description: UAA
       authorities:
- "$XSAPPNAME.sof.r"
- "$XSAPPNAME.pof.r"
           - "$XSAPPNAME.sst.r"
          - "$XSAPPNAME.sst.w"
- uaa.user
       role-templates:
         - name: SalesOrderFulfillmentAppUserDisplayTemplate
description: Track & Trace Sales Order Fulfillment Template App User Read Access
scope-references:
        - "$XSAPPNAME.sof.r"
- uaa.user
- name: PurchaseOrderFulfillmentAppUserDisplayTemplate
          description: Track & Trace Purchase Order Fulfillment Template App User Read Access scope-references:

- "SXSAPPNME.pof.r"
- UBa.User

    name: StandaloneShipmentTrackingAppUserDisplayTemplate
    description: Track & Trace Standalone Shipment Tracking Template App User Read Access

             scope-references:
- "$XSAPPNAME.sst.r"
           - umanuser
- name: StandaloneShipmentTrackingAppUserProcessTemplate
description: Track & Trace Standalone Shipment Tracking Template App User Write Access
              scope-references:
- "$XSAPPNAME.sst.w"
  - uaa.user
name: gtt-ui-sample-track-salesorders-app-host
 type: org cloudfoundry existing-service
- name: gtt-ui-sample-track-shipments-app-host
type: org.cloudfoundry.existing-service
- name: gtt-ui-sample-track-purchaseorders-app-host
 type: org.cloudfoundry.existing-service
- name: lbn-gtt-sample-destination
  type: org.cloudfoundry.managed-service
parameters:
service-plan: lite
     service: destination
```

- Open the flp/portal-site/CommonDataModel.json file
- Delete viz items com.sap.gtt.app.sample.sof and com.sap.gtt.app.sample.pof in payload/catalogs/payload/viz array
- Delete groups salesOrder and purchaseOrder in payload/groups array
- Delete orders salesOrder and purchaseOrder in payload/sites/payload/groupsOrder array

```
90
91
         "sites": [
             "_version": "3.0.0",
94
             "identification": {
               "id": "a3eee102-5181-4222-9924-8b8e90985f07-1578021444073",
              "entityType": "site",
              "title": "SAP Fiori launchpad site on Cloud Foundry",
              "description": "SAP Fiori launchpad site on Cloud Foundry, deployed from SAP Web IDE"
100
             "payload": {
               "config": {
                 "ushellConfig": {
                   "renderers": {
104
                    "fiori2": {
                       "componentData": {
106
                         "config": {
107
                           "applications": {
                             "Shell-home": {}
108
109
110
                           "enableHelp": false,
                           "enableSearch": false,
                           "sessionTimeoutIntervalInMinutes": 19,
                           "sessionTimeoutReminderInMinutes": 3
```

In the command line tool,

• Run the following command to build the MTAR package:

mbt build

A MTAR file $./mta_archives/lbn-gtt-sample-app-flp_xxx.mtar$ is then generated.

• Deploy the MTAR package in Cloud Foundry by running the following command:

cf deploy ./mta_archives/lbn-gtt-sample-app-flp_xxx.mtar

2.4.4 Package and Deploy Track Shipments Backend Service

Replace User/Password, Here Map License Key and Host Configuration

• Open the file *mta.yaml* under the folder "GTT-V2-Sample-TrackShipments-Service":

```
🔚 mta.yaml 🗵
         schema-version: '3.1'
        ID: gtt-v2-sample-track-shipments-service
        version: 2.3
      - name: gtt-sample-track-shipments-service type: java
          path: srv/
          properties:
            SPRING PROFILES ACTIVE: cloud
DESTINATION_GTT: gtt core engine flp base url-${space}
 10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
             HERE_MAP_KEY: {here-map-license-key
         parameters:
            buildpack: java_buildpack
health-check-timeout: 180
             host: gtt-sample-track-shipments-service-{unique-identifier}
          build-parameters:
            ignore:
- "*.md"
             build-result: target/*.jar
             timeout: 10m
          requires:
- name: lbn-gtt-sample-app-uaa
          - name: lbn-gtt-sample-destination
        resources:
      name: lbn-gtt-sample-app-uaa
          type: org.cloudfoundry.existing-service
          \textbf{type:} \ \texttt{org.cloudfoundry.existing-service}
```

Replace {here-map-license-key} with the license key you can get from step 4.1.

Note: this is step is optional, you could ignore this to proceed to verify if application could be built and pushed successfully. After the actual license key is obtained, you could later come back and replace it and execute this step again to build and push the application to cloud so that the map could be shown.

 Replace {unique-identifier} with the unique information such as your company name or cloud foundry global account name.

Note:

- {unique-identifier} must only contain lowercase letters, numbers and hyphens. For example, "company-s01".
- o For the length of "host", the maximum limit is 63 characters.
- Open the file ./srv/src/main/java/com/sap/gtt/v2/sample/sst/common/constant/Constants.java
 - Replace "com.lbngttsamples.gtt.app.sof" with the model namespace you got from Step 2.3

```
Constants java 

| package com.sap.gtt.v2.sample.sst.common.constant;
| public class Constants {
| public static final String GTT MODEL NAMESPACE = "com.lbngttsamples.gtt.app.sof";
| public static final String GTT MODEL NAMESPACE WRITE SERVICE = GTT MODEL NAMESPACE + ".sofService";
| public static final String ENTITY CONTAINER NAME = "EntityContainer";
| public static final String SHIPMENT MODEL NAME = "Shipment";
| public static final String SHIPMENT MODEL NAME = "shipment";
| public static final String SHIPMENT MODEL NAME = "shipment";
| public static final String DELEMENTS PAPH SEGMENT = "elements";
| public static final String DATA ROOT_URL = "/sap/logistics/gtt/sample/sst/cata/v1";
| public static final String DATA ROOT_URL = "/sap/logistics/gtt/sample/sst/cata/v1";
| public static final String DATE TIME PATTERN = "yyyy-MM-dd'H:Himm:ss'z";
| public static final BigDecimal MAX_LONGITUDE = BigDecimal.valueOf (180);
| public static final BigDecimal MAX_LONGITUDE = BigDecimal.valueOf (90);
```

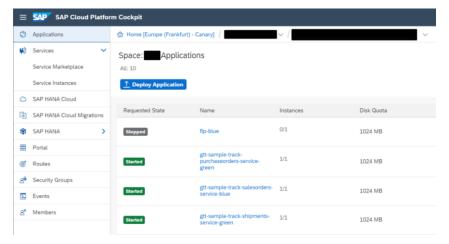
• Run the following command to build the MTAR package:

mbt build

• Deploy the MTAR package in Cloud Foundry by running the following command: cf deploy ./mta_archives/gtt-v2-sample-track-shipments-service_xxx.mtar

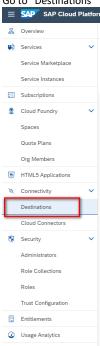
2.4.5 Check Deployed Apps on SAP Cloud Foundry Cockpit

After operations from Step 2.4.1 to Step 2.4.4, check the deployed apps on SAP Cloud Platform Cockpit.



2.4.6 Maintain Destination of Forwarding

a. Go to "Destinations"



b. Configure Destination of Event to Action

Refer to Chapter 3 of the document 03_Synchronize_Actual_Events_To_TM-TS.pdf

Note:

Replace "TO_QW9_170_STANDARD" with the destination name that you maintained in Step 2 and replace "QW9CLNT170" with the logical system of shipment tracked process.

2.4.7 Maintain Roles and Users

As shown in Step 1.2, go to the role of "gtt-sample-all", and add the following role:

Role	Application
StandaloneShipmentTrackingAppUserDisplayTemplate	tt_sof_{space}
StandaloneShipmentTrackingAppUserProcessTemplate	tt_sof_{space}

Note:

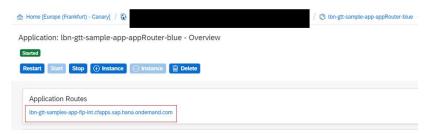
- The role StandaloneShipmentTrackingAppUserDisplayTemplate" can only enable the user to view the Track Shipments app.
- The role "StandaloneShipmentTrackingAppUserProcessTemplate" can only enable the
 user to report events in Track Shipments app. If the user needs the access to view both
 the Track Shipments app and report events in the app, then assign both roles to the role
 template.

If the user needs the access to other template apps such as *Track SO Fulfillment* or *Track PO Fulfillment*, add the following roles:

Role	Application
SalesOrderFulfillmentAppUserDisplayTemplate	tt_sof_{space}
PurchaseOrderFulfillmentAppUserDisplayTemplate	tt_sof_{space}

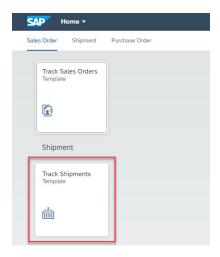
2.4.8 Open *Track Shipments* Template App from SAP Fiori Launchpad

• Obtain the Application Routes from SAP Cloud Foundry Cockpit

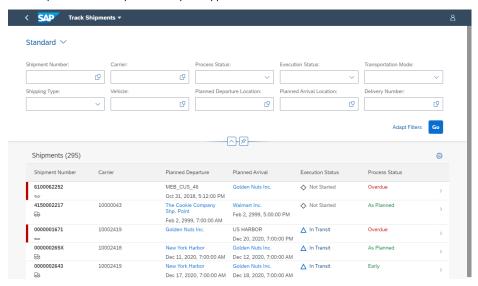


• Click the link of Application Routes

The system browser then navigates to the SAP Fiori Launchpad of Track Shipments



• Open the Track Shipments template app



3. Implement ERP Extractor

For ERP extractor implementation, please refer to the following document:

04_Extractor_Creation_Guide-TS.pdf

4. Other Configuration

4.1 Obtain Here Map License

To have the map view, log the incident with the URL of Fiori Launchpad of template apps in SAP support system under component "SBN-LBN-GTT-APP". Follow the 2 steps below when you create an incident:

- Add logon credentials in the incident to the secure area so that we can provide you the key in a safe way. You can refer to SAP Note 1773689 for reference: https://launchpad.support.sap.com/#/notes/0001773689
- 2) Provide us with the application routes which you get in step 2.4.8 "Obtain the Application Routes from SAP Cloud Foundry Cockpit"

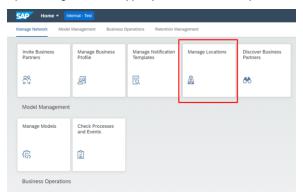
After you get the key, you can use it in Step 2.4.4 to re-deploy the backend service.

For quick validation, you can also use the tile service of other map services.

4.2 Maintain Location Master

To show stops and planned events in the map, you need to maintain location master data with valid geocoordinates in *Manage Locations* app.

a. Open Manage Locations app in your SAP Fiori Launchpad for Global Track and Trace



b. Click "Create" to create a new location

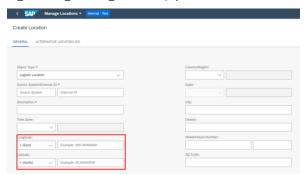


c. Maintain location information with valid geocoordinates

To integrate with ERP, you need to keep the "Object Type", "Source System", and "External ID" location consistent with ERP location information.

For details, please refer to the following document:

02_Extractor_Creation_Guide-SOF.pdf



4.3 Maintain Data Contributors

To receive actual events from other business partners, you need to invite them to join your business network. For more, search for *Administration Guide for Version 2* at help.sap.com/gtt and see the chapter "Onboarding and User Management (Data Contributors)".

4.4 Integrate with Visibility Provider

To integrate with visibility provider, log your incident in SAP BCP system with the component "SBN-LBN-GTT-APP".