Implementation Guide

- Track Shipments Template App

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0.Prerequisites

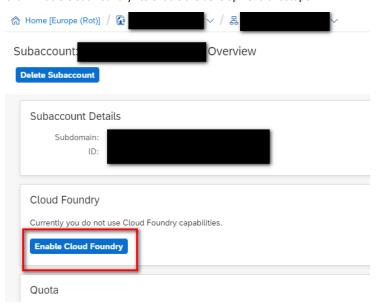
You have an SAP Cloud Platform global account with the entitlement to SAP Business Network
Global Track and Trace, and the account is assigned 1 portal service quota and 2 GB Application
Runtime quota.

Please refer to the $\mathbf{1}^{\text{st}}$ 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

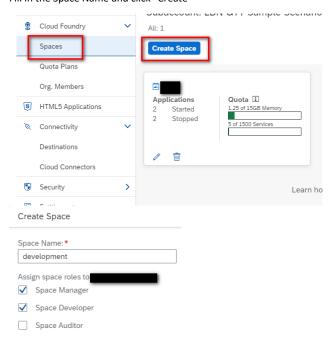
a. Click "Enable Cloud Foundry" to enable the development landscape



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

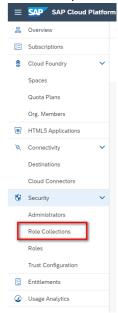


c. Go to "Cloud Foundry" -> "Spaces"Click "Create Space"Fill in the Space Name and click "Create"

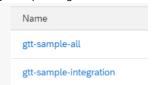


1.2 Maintain Roles and Users

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	lbn-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, $\underbrace{\mathsf{user1@sap.com}}$



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

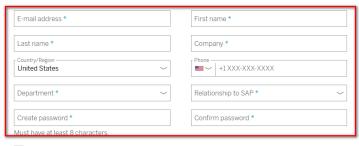
a. Go to the SAP Cloud Platform to create the technical user account: https://account.hana.ondemand.com/#/home/welcome

Click "Register"



b. Fill in the mandatory fields:

Tell us about yourself



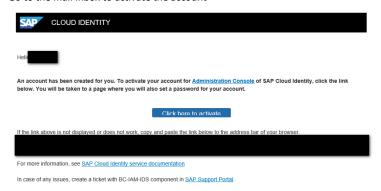
I have read and understood the Terms and Conditions of SAP.com

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

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

Submit

c. Go to the mail inbox to activate the account

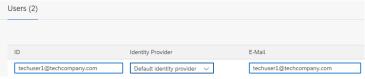


d. As shown in Step 1.2, go to the role of "gtt-sample-integration", and add the following roles:

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

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

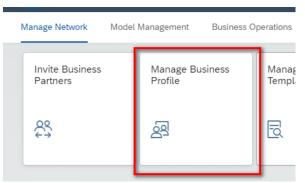
For example, techuser1@techcompany.com



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



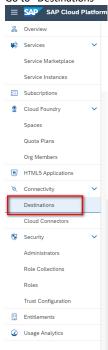
g. Add one Alternate Identifier: Identifier Type: Technical User ID: the email address of technical user



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

Configure Destination of a file core Engine Base ONE				
gtt_core_engine_flp_base_url				
HTTP				
<optional></optional>				
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				
Internet				
BasicAuthentication				
Email of Technical User from Step 1.3				
Password of Technical User from Step 1.3				

Note:

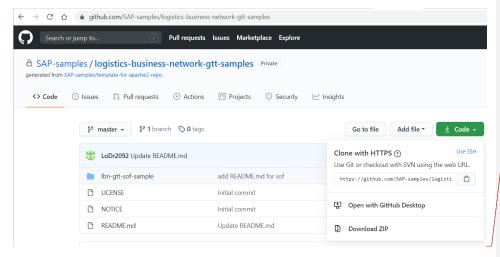
- On your subaccount page, click "Instances and Subscriptions" in the "Service" tab and click "Global Track and Trace" application. Click "Go to Application".
- Copy the GTT Fiori Launchpad URL:

2.Implement Track Shipments Template App

2.1 Download Template Code

 $\textbf{Go to} \ \underline{\text{https://github.com/SAP-samples/logistics-business-network-gtt-samples}.}$

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/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-is-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
- e. Install Cloud MTA Build Tool (MBT)

Commented [LS1]: Needs to be replaced

https://sap.github.io/cloud-mta-build-tool/download/

f. Install MAKE

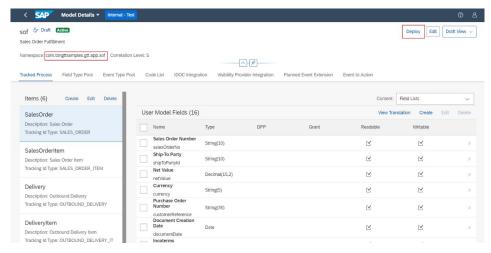
https://sap.github.io/cloud-mta-build-tool/makefile/

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

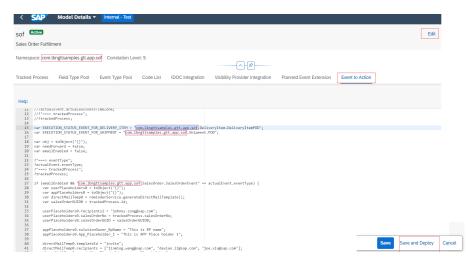


- Click "Deploy"
- Write down the model namespace for later use, in this case, "com.lbngttsamples.gtt.app.sof" in the picture below



• 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...

OK

Select an org:
1.
2.
3.
4.
5.
6.

Org (enter to skip): 6
6
Targeted org

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

Space (enter to skip): 5
5
Targeted space

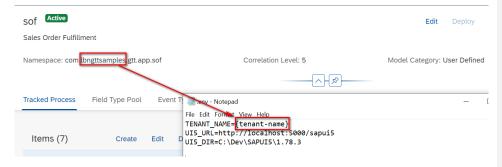
API endpoint: https://api.cf.sap.hana.ondemand.com (API version: 3.81.0)

User:
Org:
Space:
```

2.4.2 Package and Deploy *Track Shipments* Frontend App

 $\label{thm:continuous} \mbox{Go to GTT-V2-Sample-TrackShipments-UI directory}.$

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

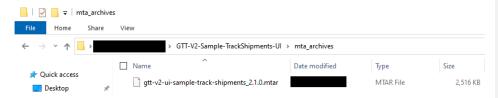


In the command line tool,

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

You can refer to the 1st 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-ott-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
   type: org.cloudfoundry.managed-service
  - name: lbn-gtt-sof-api
   properties:
     url: https://gtt-sample-track-salesorders-service-{unique-identifier}.${default-domain}
 - name: 1bn-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-app-host in flp and resources module

```
- 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}.${default-domain-name: lbn-gtt-sst-api
    properties:
    proper stars: unl: https://gtt-sample-track-shipments-service-{unique-identifier}.${default-domain name: lbn-gtt-pof-api
    properties:
    url: https://gtt-sample-track-purchaseorders-service-(unique-identifier).$(default-domain name: lbn-gtt-sample-app-usa type: com.sap.xs.usa-application
    parameters:
config:
           xsappname: "${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: "$ZSAPPNAME.pof.r"
    description: Allow to access purchase order fulfilment application
    name: "$ZSAPPNAME.sst.r"
    description: Allow to access standalone shipment tracking application
    name: "$ZSAPPNAME.sst.r"
    description: Allow to report events in standalone shipment tracking application

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

```
    name: "$XSAPPNAME.sst.r"
description: Allow to access standalone shipment tracking application

          - name: "$XSAPPNAME.sst.w"
          description: Allow to report events in standalone shipment tracking application - name: usa.user
               description: UAA
         authorities:
- "$XSAPPNAME.sof.r"
- "$XSAPPNAME.pof.r"
           - "$XSAPPNAME.sst.r"
- "$XSAPPNAME.sst.w"
        role-templates:
           - name: SalesOrderfulfillmentAppUserOisplayTemplate
description: Track & Trace Sales Order Fulfillment Template App User Read Access
scope-references:
           scope-references:
     - "SXSAPPMAME.sof.r"
     uaa.user
- name: PurchaseOrderFulfillmentAppUserDisplayTemplate
              description: Track & Trace Purchase Order Fulfillment Template App User Read Access
             scope-references:
- "$XSAPPNAME.pof.r"
- uaa.user
          - usa.use:
- name: StandaloneShipmentTrackingAppUserDisplayTemplate
description: Track & Trace Standalone Shipment Tracking Template App User Read Access
             scope-references:
- "$XSAPPNAME.sst.r"
            - was user
- was user
- name: StandaloneShipmentTrackingAppUserProcessTemplate
description: Track & Trace Standalone Shipment Tracking Template App User Write Access
               scope-references:
- "$XSAPPNAME.sst.w"
  - uaa.user
name: gtt-ui-sample-track-salesorders-app-host
- name: gtt-ui-sample-track-salesorder-sap-host type- ope_folkerounder_wistings.esouice - name: gtt-ui-sample-track-shipments-app-host type: org.cloudfoundry.existing-service - name: gtt-ui-sample-track-purchaseorder-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

```
| (
| "worsion"; "3.8.0",
| "identification"; (
| "identification"; (
| "retityTypen"; "bundle"
| "yorsion"; "3.8.0",
| "dentification"; (
| "worsion"; "3.8.0",
| "identification"; (
| "identification"; (
| "with "orenalitations of the properties" of the properties of the propertie
```

```
90
         ],
"sites": [
             "_version": "3.0.0",
94
             "identification": {
              "id": "a3eee102-5181-4222-9924-8b8e90985f07-1578021444073",
96
97
              "entityType": "site",
              "title": "SAP Fiori launchpad site on Cloud Foundry",
98
              "description": "SAP Fiori launchpad site on Cloud Foundry, deployed from SAP Web IDE"
100
            "payload": {
101
               "config": {
                 "ushellConfig": {
                   "renderers": {
104
                    "fiori2": {
                       "componentData": {
106
                         "config": {
                           "applications": {
108
                             "Shell-home": {}
109
                           "enableHelp": false,
110
                           "enableSearch": false,
                           "sessionTimeoutIntervalInMinutes": 19,
                           "sessionTimeoutReminderInMinutes": 3
                }
120
                 "salesOrder",
```

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
        modules:
           {\bf name:} \ {\tt 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
name: lbn-gtt-sample-destination
           \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

```
Constantsjava 

| 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 + ".sofWriteService"; |
| public static final String MODEL NAMESPACE = GTT MODEL NAMESPACE + ".sofService"; |
| public static final String ENTITY CONTAINEN NAME = "Entity ontainer"; |
| public static final String COMBINED MODEL PATH SEGMENT = "combined-model"; |
| public static final String SHIPMENT MODEL NAME = "Shipment"; |
| public static final String ENTEMENT MODEL NAME = "Shipment"; |
| public static final String ELEMENTS PATH SEGMENT = "elements"; |
| public static final String REST_ROOT_URL = "/sap/logistics/gtt/sample/sst/odata/v1"; |
| public static final String DATE TIME PATTERN = "yyyy-MM-df!Himm:ssiz"; |
| public static final String DATE TIME PATTERN = "yyyy-MM-df!Himm:ssiz"; |
| public static final BigDecimal MAX_LONGITUDE = BigDecimal.valueOf(80); |
| public static final BigDecimal MAX_LATITUDE = BigDecimal.valueOf(90);
```

• Run the following command to build the MTAR package:

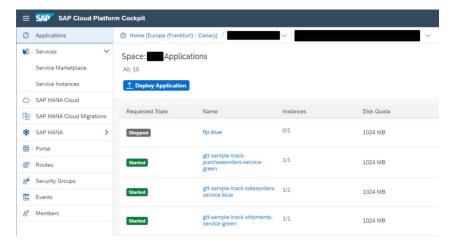
mbt build

A MTAR file ./mta_archives/gtt-v2-sample-track-shipments-service_xxx.mtar is then generated.

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

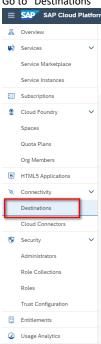
2.4.5 Check Deployed Apps on SAP Cloud Foundry Cockpit

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}
Standal one Shipment Tracking App User Process Template	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}

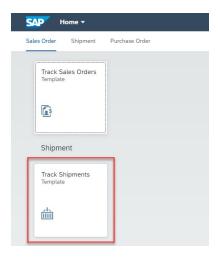
2.4.8 Open Track Shipments Template App from SAP Fiori Launchpad

• Obtain the Application Routes from SAP Cloud Foundry Cockpit

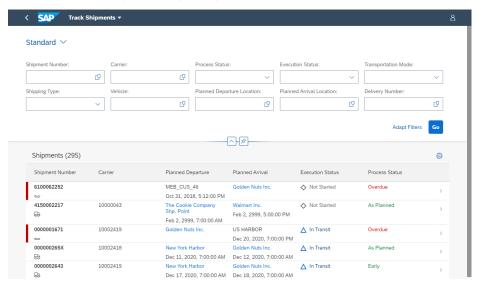


Click the link of Application Routes

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:

 $04_Extractor_Creation_Guide\text{-}TS.pdf$

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"

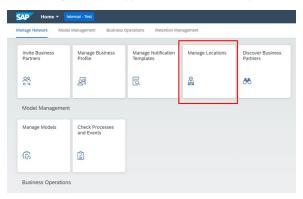
After you get the key, you can use it in Step 2.4.4 to re-deploy the backend service.

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

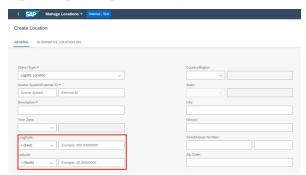


c. Maintain location information with valid geocoordinates

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 Data Contributors* at help.sap.com/gtt and see the chapters "Onboarding" and "User Management'.

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".