Implementation Guide

- Track SO Fulfillment Template App

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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.

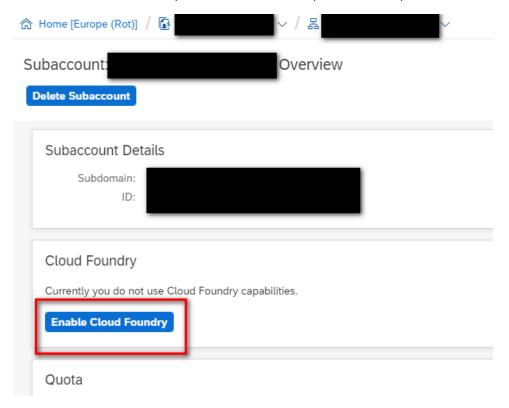
0.Prerequisites

- An SAP Cloud Platform global account with entitlement to the global track and trace option for SAP Logistics Business Network, 1 portal service quota and 10 GB Application Runtime quota
- To integrate with ERP, an SAP ERP or SAP ECC system running on Netweaver 7.31 or higher with SAP NOTE 2937175 being implemented
- To integrate with the visibility provider, log your incident in SAP BCP system with component "SCM-LBN-GTT-COR"

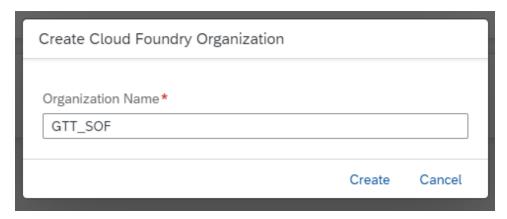
1.Environment Configuration in Logistics Business Network, Global Track and Trace Option

1.1 Enable Cloud Foundry and Create Space

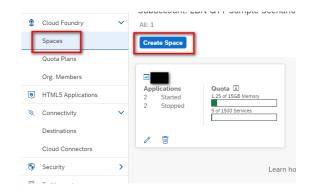
1. Click "Enable Cloud Foundry" to enable the development landscape

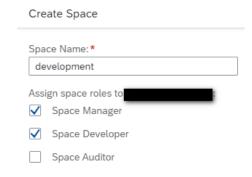


2. Fill in the Organization Name and click "Create"



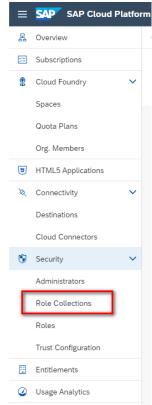
Go to "Cloud Foundry" -> "Spaces"
 Click "Create Space"
 Fill in the Space Name and click "Create"





1.2 Maintain Roles and Users

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



 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 the global track and trace option and the *Track SO Fulfillment* 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	Ibn-retentionmanagement-sb

- 4. Grant "gtt-sample-all" to your **application** users:
 - Application users are those who have access to the global track and trace option and the Track SO Fulfillment template app.

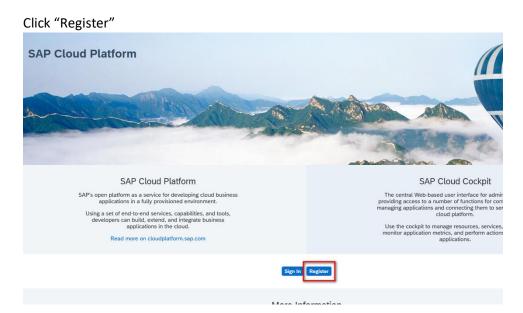
IT Administrator needs to maintain application users in identity provider. For example, user1@sap.com



Note: The application user in this step should be different from the technical user created in Step 1.3.

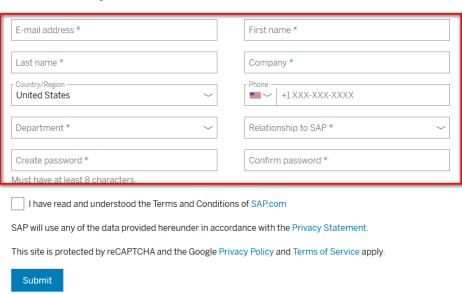
1.3 Maintain Technical User

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

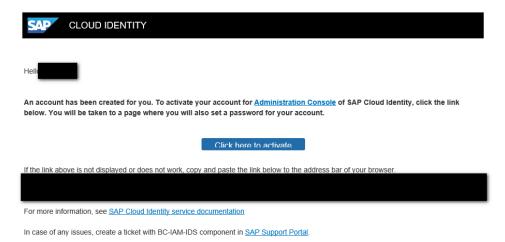


2. Fill in the mandatory fields:

Tell us about yourself



3. Go to the mail inbox to activate the account



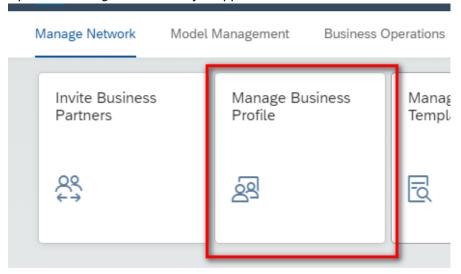
4. As shown in <a>Step 1.2, go to the role of "gtt-sample-integration", and add the following roles:

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

5. Grant "gtt-sample-integration" to your **technical** user: For example, technical user: <a href="tech



6. Go to SAP Fiori Launchpad for the global track and trace option Open the *Manage Business Profile* app



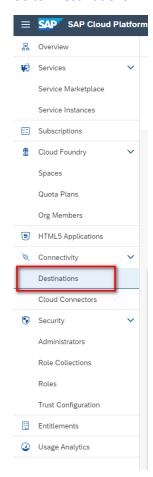
7. Add one Alternate Identifier:
Identifier Type: Technical User
ID: the email address of technical user



Note: The technical user in this step should be different from the application user in Step 1.2.4.

1.4 Maintain Destination of GTT Core Engine Base URL

1. Go to "Destinations"



2. Configure Destination of GTT Core Engine Base URL

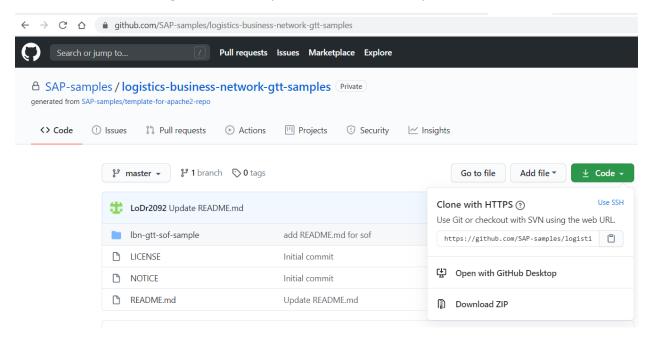
Name	gtt_core_engine_flp_base_url
Туре	HTTP
Description	<optional></optional>
URL	e.g. https://lbn-gtt-samples.gtt-flp-lbnplatform-
	int.cfapps.sap.hana.ondemand.com/api
Proxy Type	Internet
Authentication	BasicAuthentication
User	User from <u>Step 1.3</u>
Password	Password from Step 1.3

2.Implement Track SO Fulfillment 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.



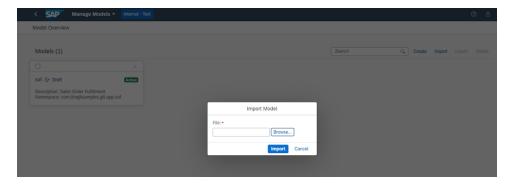
2.2 Download and Setup Tools

- 1. Install JDK 8 and Maven
- Install NPM, Node JS, and grunt-cli
 https://www.saplearners.com/how-to-install-node-js-and-npm/

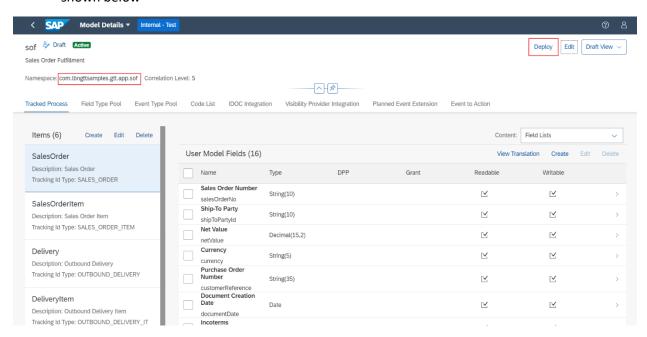
 Run the following command after NPM is installed:
 npm config set @sap:registry "https://npm.sap.com" -g
- Install Cloud Foundry Command Line Interface https://developers.sap.com/tutorials/cp-cf-download-cli.html
- 4. Install MultiApps CF CLI Plugin https://github.com/cloudfoundry-incubator/multiapps-cli-plugin
- Install Cloud MTA Build Tool (MBT) https://sap.github.io/cloud-mta-build-tool/download/
- 6. Install MAKE https://sap.github.io/cloud-mta-build-tool/makefile/

2.3 Deploy Model

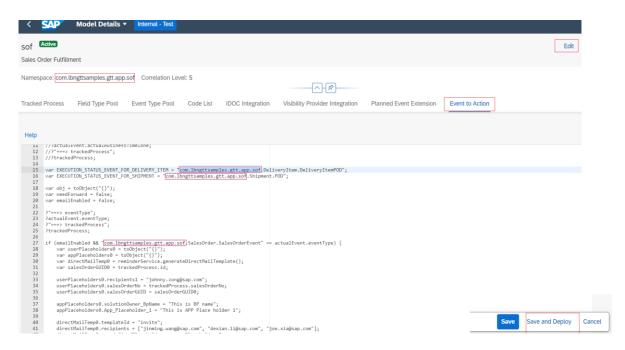
- Go to the folder *model* with downloaded source code. Make sure you have a JSON file *sof-model-YYYYMMDDxx.json* (e.g. sof-model-2020091001.json).
- Open the Manage Models app on SAP Fiori Launchpad for the global track and trace option
- Click "Import"
- Click "Browse" to select the sof-model-YYYYMMDDxx.json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



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



- Click "Edit"
- Go to Event to Action tab
- Replace all the namespace strings, in this case, "com.lbngttsamples.gtt.app.sof" in the *Event to Action* script with the model namespace you noted 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



2.4.2 Package and Deploy Track SO Fulfillment Frontend App

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

- Open the ./UI/.env file
- Replace {tenant-name} with part of the namespace you got from Step 2.3.
 For example, replace it with "lbngttsamples" in "com.lbngttsamples.gtt.app.sof" shown in 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-salesorders_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-salesorders-service_xxx.mta

The deployment time depends on your network conditions.

2.4.3 Package and Deploy SAP Fiori Launchpad for Template Apps

Go to GTT-V2-Sample-App-FLP directory.

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

```
1 ---
2
    ID: lbn-gtt-sample-app-flp
    _schema-version: "3.1"
4 parameters:
     deploy_mode: html5-repo
6
    enable-parallel-deployments: true
     append: "${space}"
8
    xsappname: tt_sof_${append}
9
   version: 2.3.0
10 modules:
    - name: lbn-gtt-sample-app-appRouter
       type: approuter.nodejs
      path: flp_appRouter
       parameters:
         disk-quota: 256M
         memory: 256M
17
         routes:
           - route: lbn-gtt-samples-app-flp-{unique-identifier} ${domain}
18
        properties:
         SAP_JWT_TRUST_ACL:
20
            - clientid: "*"
             identityzone: "*"
         destinations:
            - name: 1hn-ott-sof-ani
```

```
resources:
 - name: lbn-gtt-sample-app-runtime
     service-plan: app-runtime
     service: html5-apps-repo
   type: org.cloudfoundry.managed-service
 - name: 1bn-gtt-sample-portal-resources
   parameters:
     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}
     url: https://gtt-sample-track-shipments-service {unique-identifier} ${default-domain}
 - name: lbn-gtt-pof-api
     url: https://gtt-sample-track-purchaseorders-service-{unique-identifier}.${default-domain}
 - name: lbn-gtt-sample-app-uaa
   type: com.sap.xs.uaa-application
```

This FLP project includes 3 template apps: Track SO Fulfillment, Track Shipments and Track PO Fulfillment. Before you build and deploy it, please deploy all the UI projects you need in advance. Otherwise, the deployment of this project will fail.

If you only need the *Track SO Fulfillment* template app, make the following changes:

- Open the mta.yaml file
- Delete *lbn-gtt-sst-api* and *lbn-gtt-pof-api* in *lbn-gtt-sample-app-appRouter* and *resources* modules
- Delete gtt-ui-sample-track-shipments-app-host and gtt-ui-sample-track-purchaseorders-app-host in flp and resources modules

```
ID: 1bn-gtt-sample-app-flp
    _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
        path: flp_appRouter
        parameters:
         disk-quota: 256M
         memory: 256M
         routes:
           - route: lbn-gtt-samples-app-flp-{unique-identifier}.${domain}
        properties:
         SAP_JWT_TRUST_ACL:
           - clientid: "*"
             identityzone: "*"
         destinations:
           - name: 1bn-gtt-sof-api
             url: "~{lbn-gtt-sof-api/url}"
              forwardAuthToken: true
           - name: 1bn-gtt-sst-api
             url: "~{lbn-gtt-sst-api/url}"
              forwardAuthToken: true
           - name: 1bn-gtt-pof-api
             url: "~{lbn-gtt-pof-api/url}"
              forwardAuthToken: true
        requires:
         - name: lbn-gtt-sample-app-uaa
         - name: 1bn-gtt-sample-app-runtime
         - name: lbn-gtt-sample-portal-resources
         - name: lbn-gtt-sof-api
- name: lbn-gtt-sst-api
      - name: 1bn-gtt-pof-api
        type: com.sap.portal.content
        path: flp
        parameters:
         stack: cflinuxfs3
          memory: 128M
         buildpack: https://github.com/cloudfoundry/nodejs-buildpack/releases/download/v1.6.39/nodejs-buildpack-cflinuxfs3-v1.6.39.zip
        requires:
          - name: 1bn-gtt-sample-app-uaa
          - name: 1bn-gtt-sample-portal-resources
           - name: gtt-ui-sample-track-salesorders-app-host
         - name: gtt-ui-sample-track-shipments-app-host
          - name: gtt-ui-sample-track-purchaseorders-app-host
```

```
53 resources:
54
     - name: lbn-gtt-sample-app-runtime
      parameters:
          service-plan: app-runtime
         service: html5-apps-repo
        type: org.cloudfoundry.managed-service
      - name: 1bn-gtt-sample-portal-resources
       parameters:
60
        service-plan: standard
          service: portal
63
       type: org.cloudfoundry.managed-service
64
       - name: lbn-gtt-sof-api
        properties:
66
          url: https://gtt-sample-track-salesorders-service-{unique-identifier}.${default-domain}
      - name: lbn-gtt-sst-api
69
          url: https://gtt-sample-track-shipments-service-{unique-identifier}.${default-domain}
70
       - name: lbn-gtt-pof-api
          url: https://gtt-sample-track-purchaseorders-service-{unique-identifier}.${default-domain}
      - name: lbn-gtt-sample-app-uaa
74
        type: com.sap.xs.uaa-application
        parameters:
         config:
           xsappname: "${xsappname}"
78
           tenant-mode: dedicated
           oauth2-configuration:
80
               - rolecollections
82
          description: Security profile of sales order fulfillment application
            - name: "$XSAPPNAME.sof.r"
84
               description: Allow to access sales order fulfillment application
86
             - name: "$XSAPPNAME.pof.r"
               description: Allow to access purchase order fulfillment application
88
            - name: "$XSAPPNAME.sst.r"
               description: Allow to access standalone shipment tracking application
             - name: "$XSAPPNAME.sst.w"
90
              description: Allow to report events in standalone shipment tracking application
            - name: uaa.user
               description: UAA
94
          authorities:
             - "$XSAPPNAME.sof.r"
             - "$XSAPPNAME.pof.r"
             - "$XSAPPNAME.sst.r"
             - "$XSAPPNAME.sst.w"
              - uaa.user
100
          role-templates:
             - name: SalesOrderFulfillmentAppUserDisplayTemplate
               description: Track & Trace Sales Order Fulfillment Template App User Read Access
               scope-references:
                  - "$XSAPPNAME.sof.r"
                  - waa.wser
```

```
- 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: uaa.user
                description: UAA
94
          authorities:
           "$XSAPPNAME.sof.r"- "$XSAPPNAME.pof.r"
96
             - "$XSAPPNAME.sst.r"
98
             - "$XSAPPNAME.sst.w"
              - uaa.user
100
           role-templates:
               - name: SalesOrderFulfillmentAppUserDisplayTemplate
              description: Track & Trace Sales Order Fulfillment Template App User Read Access
                  - "$XSAPPNAME.sof.r"
             - name: PurchaseOrderFulfillmentAppUserDisplayTemplate
              description: Track & Trace Purchase Order Fulfillment Template App User Read Access
                  - "$XSAPPNAME.pof.r"
                   - uaa.user
             - name: StandaloneShipmentTrackingAppUserDisplayTemplate
               description: Track & Trace Standalone Shipment Tracking Template App User Read Access
              scope-references:
114
                  - "$XSAPPNAME.sst.r"
             - name: StandaloneShipmentTrackingAppUserProcessTemplate
              description: Track & Trace Standalone Shipment Tracking Template App User Write Access
              scope-references:
                  - "$XSAPPNAME.sst.w"
121 - name: gtt-ui-sample-track-salesorders-app-host
         type: org.cloudfoundry.existing-service
      - name: gtt-ui-sample-track-shipments-app-host
124
        type: org.cloudfoundry.existing-service
      - name: gtt-ui-sample-track-purchaseorders-app-host
     type: org.cloudfoundry.existing-service
- name: lbn-gtt-sample-destination
128 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.sst and com.sap.gtt.app.sample.pof in payload/catalogs/payload/viz array
- Delete groups shipments and purchaseOrder in payload/groups array
- Delete orders shipments and purchaseOrder in payload/sites/payload/groupsOrder array

```
"_version": "3.0.0",
       "identification": {
         "id": "ee7d30df-c86c-48b1-8f02-c2abc4e18f54-1578021444073",
         "entityType": "bundle"
                                                                                           " version": "3.0.0".
       "payload": {
                                                                                           "identification": {
         "catalogs": [
                                                                                             "id": "shipment",
          {
    "_version": "3.0.0",
    "+ton": {
                                                                                             "title": "{{title}}",
                                                                                             "entityType": "group",
                                                                                             "i18n": "i18n/shipment.properties"
               "id": "defaultCatalogId",
              "title": "{{title}}",
                                                                                           "payload": {
              "entityType": "catalog",
                                                                                             "viz": [
              "i18n": "i18n/defaultCatalogId.properties"
                                                                                                "id": "com.sap.gtt.app.sample.sst",
             "payload": {
                                                                                                 "appId": "com.sap.gtt.app.sample.sst",
              "viz": [
                                                                                                "vizId": "Shipment-track"
20
                   "id": "com.sap.gtt.app.sample.sof",
                   "vizId": "SalesOrder-track"
                                                                                         },
                   "id": "com.sap.gtt.app.sample.sst",
                                                                                           "_version": "3.0.0",
                   "vizId": "Shipment-track"
                                                                                           "identification": {
                                                                                             "id": "purchaseOrder",
                                                                                             "title": "{{title}}",
                   "id": "com.sap.gtt.app.sample.pof",
                                                                                             "entityType": "group",
                   "vizId": "PurchaseOrder-track"
                                                                                            "i18n": "i18n/purchaseOrder.properties"
30
                                                                                           },
                                                                                           "payload": {
                                                                                             "viz": [
          }
                                                                                                "id": "com.sap.gtt.app.sample.pof",
         ],
         groups": [
                                                                                                 "appId": "com.sap.gtt.app.sample.pof",
                                                                                                "vizId": "PurchaseOrder-track"
             "_version": "3.0.0",
            "identification": {
              "id": "salesOrder",
              "title": "{{title}}",
               "entityType": "group",
                                                                                       "sites": [
              "i18n": "i18n/salesOrder.properties"
                                                                                           "_version": "3.0.0",
44
             "payload": {
                                                                                           "identification": {
              "viz": [
                                                                                             "id": "a3eee102-5181-4222-9924-8b8e90985f07-1578021444073",
                                                                                             "entityType": "site",
                   "id": "com.sap.gtt.app.sample.sof",
                                                                                             "title": "SAP Fiori launchpad site on Cloud Foundry",
                   "appId": "com.sap.gtt.app.sample.sof",
                                                                                             "description": "SAP Fiori launchpad site on Cloud Foundry, deployed from SAP Web IDE"
                   "vizId": "SalesOrder-track"
                                                                                           },
                                                                                           "payload": {
                                                                                             "config": {
                                                                                               "ushellConfig": {
```

```
"sites": [
             "_version": "3.0.0",
             "identification": {
               "id": "a3eee102-5181-4222-9924-8b8e90985f07-1578021444073",
               "entityType": "site",
97
               "title": "SAP Fiori launchpad site on Cloud Foundry",
               "description": "SAP Fiori launchpad site on Cloud Foundry, deployed from SAP Web IDE"
             },
             "payload": {
               "config": {
                "ushellConfig": {
                   "renderers": {
                     "fiori2": {
105
                       "componentData": {
                         "config": {
                           "applications": {
                             "Shell-home": {}
                           "enableHelp": false,
                           "enableSearch": false,
                           "sessionTimeoutIntervalInMinutes": 19,
                           "sessionTimeoutReminderInMinutes": 3
114
                     }
                   }
                 }
               },
               "groupsOrder": [
                 "salesOrder",
                 "shipment",
                 "purchaseOrder"
```

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 SO Fulfillment Backend Service

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

- Obtain Here Map license from <a>Step 4.1
- Open the file mta.yaml under the folder "GTT-V2-Sample-TrackSalesOrders-Service":

```
schema-version: '3.1'
     ID: gtt-v2-sample-track-salesorders-service
     version: 2.3.0
   - name: gtt-sample-track-salesorders-service
      type: java
      path: srv/
   properties:
10
        SPRING PROFILES ACTIVE: cloud
        DESTINATION_GTT: gtt_core_engine_flp_base_url
11
        HERE_MAP_KEY: {here-map-license-key}
13 parameters:
14
        buildpack: java buildpack
15
        health-check-timeout: 180
        host: gtt-sample-track-salesorders-service-{unique-identifier}
16
   build-parameters:
17
        ignore:
           "*.md"
19
        build-result: target/*.jar
21
         timeout: 10m
       requires:
23
       - name: lbn-gtt-sample-app-uaa
24
    resources:
26 p- name: lbn-gtt-sample-app-uaa
       type: org.cloudfoundry.existing-service
28
29
```

- Replace {here-map-license-key} with the license key you got
- Replace {unique-identifier} with unique information such as your company name or cloud foundry global account name
- Open the file ./srv/src/main/java/com/sap/gtt/v2/sample/sof/constant/Constants.java
 - Replace "com.lbngttsamples.gtt.app.sof" with the model namespace you got from Step
 3

```
Constantsjava 

| package com.sap.gtt.v2.sample.sof.constant;

| public class Constants {
| public static final String GTT_MODEL_NAMESPACE = "com.lbngttsamples.gtt.app.sof";
| public static final String GTT_MODEL_NAMESPACE = "com.lbngttsamples.gtt.app.sof";
| public static final String GTT_MODEL_NAMESPACE = GTT_MODEL_NAMESPACE + ".sofWriteService |
| public static final String MODEL_NAMESPACE = GTT_MODEL_NAMESPACE + ".sofService";
| public static final String URL_SPLITTER = "/";
| public static final String ENTITY_CONTAINER_NAME = "EntityContainer";
| public static final String SAP_ICON_LEAD = "sap-icon://lead";
| public static final String ID = "id";
| public static final String EVENT_STATUS_PLANNED = "PLANNED";
| public static final String EVENT_STATUS_PLANNED = "PLANNED";
```

• Run the following command to build the MTAR package:

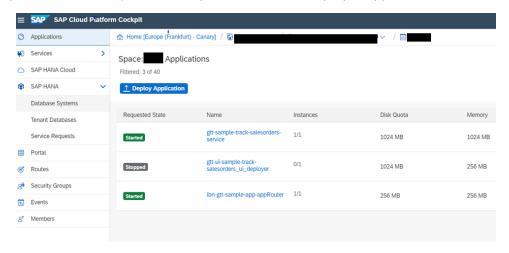
mbt build

A MTAR file ./mta archives/qtt-v2-sample-track-salesorders-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-salesorders-service_xxx.mtar

2.4.5 Check Deployed Apps on SAP Cloud Foundry Cockpit

After operations from <a>Step 2.4.1 to Step 2.4.3, check the deployed apps on SAP Cloud Platform cockpit.

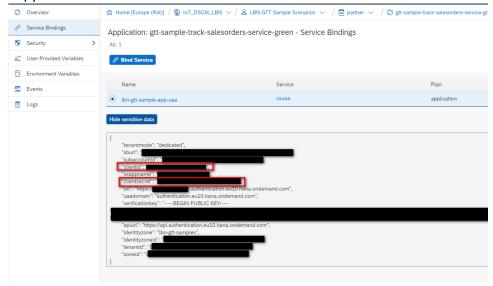


2.4.6 Maintain Destination of Forwarding

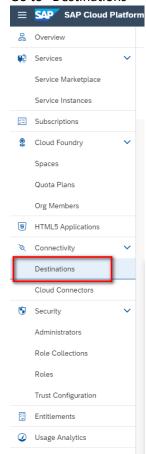
- 1. Obtain the UAA Token
- Go to the Track SO Fulfillment backend application that you have deployed



- Find the environment of UAA
- Copy the value of clientid and clientsecret



2. Go to "Destinations"



3. Configure Destination of Event to Action Forwarding

Name	e.g. gtt_sof_forwarding_int
Туре	HTTP
Description	<optional></optional>
URL	e.g. https://gtt-sample-track-salesorders-
	<pre>service.cfapps.eu10.hana.ondemand.com/sap/logistics/gtt/sample/sof/rest/v1/</pre>
	<u>forward</u>
Proxy Type	Internet
Authenticati	OAuth2ClientCredentials
on	
Client ID	Copied in the previous step
Client Secret	Copied in the previous step
Token	e.g. https://lbn-gtt-
Service URL	samples.authentication.eu10.hana.ondemand.com/oauth/token

Note: You need to update the destination name in the *Event to Action* script of the *Track SO Fulfillment* model if you change the name from "gtt_sof_forwarding_int" to others.

2.4.7 Maintain Roles and Users

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

Role	Application
SalesOrderFulfillmentAppUserDisplayTemplate	tt_sof_{space}

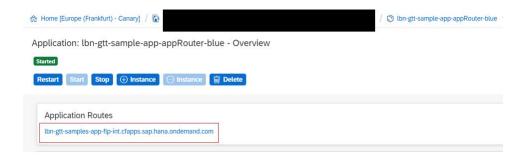
Note that the role of "SalesOrderFulfillmentAppUser" is used to access the *Track SO Fulfillment* template app.

If you need to access other template apps such as *Track Shipments* or *Track PO Fulfillment*, add the following roles:

Role	Application
StandaloneShipmentTrackingAppUserDisplayTemplate	tt_sof_{space}
Standal one Shipment Tracking App User Process Template	tt_sof_{space}
PurchaseOrderFulfillmentAppUserDisplayTemplate	tt_sof_{space}

2.4.8 Open Track SO Fulfillment Template App from SAP Fiori Launchpad

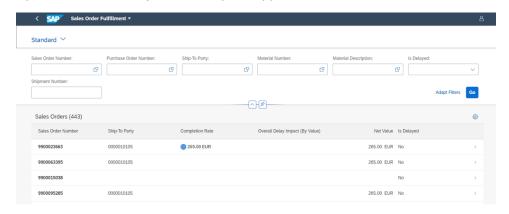
• Obtain the Application Routes from SAP Cloud Foundry cockpit



Click the link of Application Routes
 The system browser then navigates to the SAP Fiori Launchpad of Track SO Fulfillment



• Open the Track SO Fulfillment template app



3. Implement ERP Extractor

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

02_Extractor_Creation_Guide-TSOF.pdf

4. Other Configuration

4.1 Obtain Here Map License

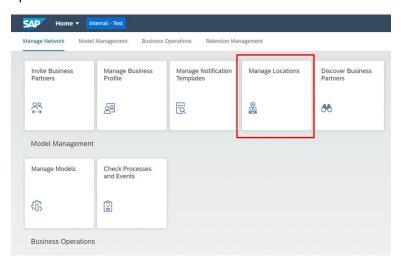
To have the map view, log the incident with the URL of Fiori Launchpad of *Track SO Fulfillment* template app in SAP BCP system under component "SCM-LBN-GTT-APP". Then follow the SAP Note 1773689: https://launchpad.support.sap.com/#/notes/0001773689 to add logon credentials to the secure area so that we can provide you with the key in a safe way. After you get the key, you can use it in Step 2.4.4 when deploying the backend service.

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

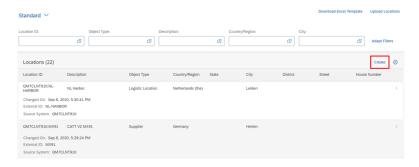
4.2 Maintain Location Master

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

 Open the Manage Locations app in your SAP Fiori Launchpad for the global track and trace option



2. Click "Create" to create a new location

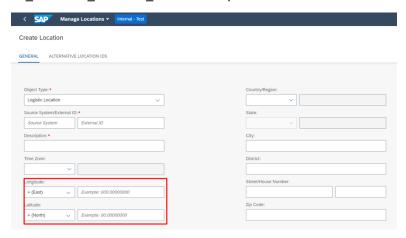


3. Maintain location information with valid geocoordinates

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

For more, refer to the following document:

 $02_Extractor_Creation_Guide-TSOF.pdf$



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)".