## Implementation Guide

# - Track Shipments 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.

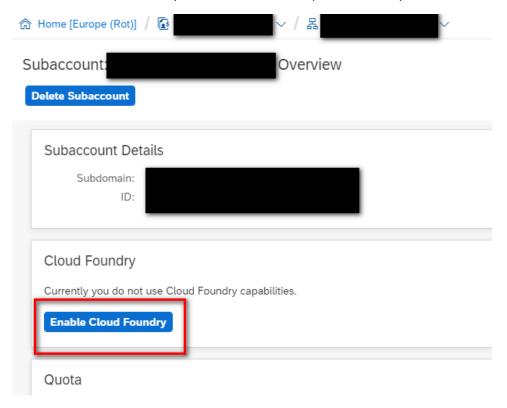
### 0.Prerequisites

- 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 visibility providers, log your incident in SAP BCP system with component "SCM-LBN-GTT-COR"

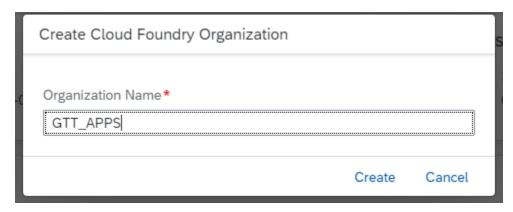
# 1.Environment Configuration in Logistics Business Network, Global Track and Trace Option

#### 1.1 Enable Cloud Foundry and Create Space

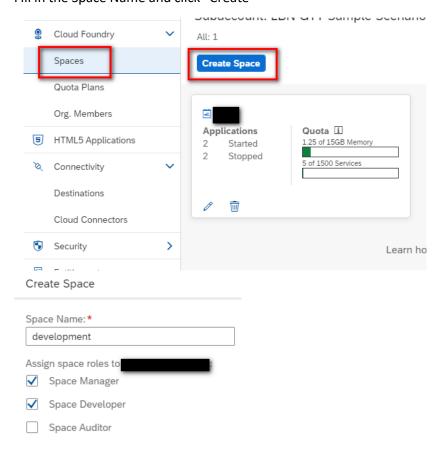
1. Click "Enable Cloud Foundry" to enable the development landscape



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

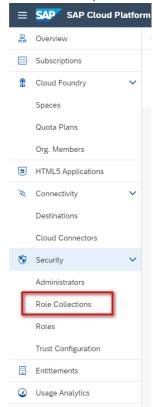


Go to "Cloud Foundry" -> "Spaces"
 Click "Create Space"
 Fill in the Space Name and click "Create"

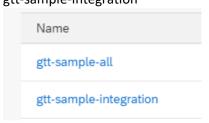


#### 1.2 Maintain Roles and Users

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 Shipments* template app.
- Role template "gtt-sample-integration" is granted to technical users who only 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 Shipments* template app.

IT Administrator needs to maintain application users in the identity provider. For example, <u>user1@sap.com</u>

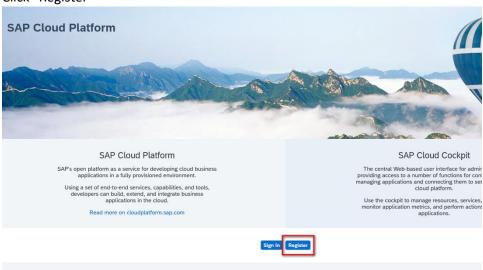


Note: The application user in this step should be different from the technical user created in <a href="Step 1.3">Step 1.3</a>.

#### 1.3 Maintain Technical User

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

Click "Register"



Mara Information

2. Fill in the mandatory fields:

#### Tell us about yourself

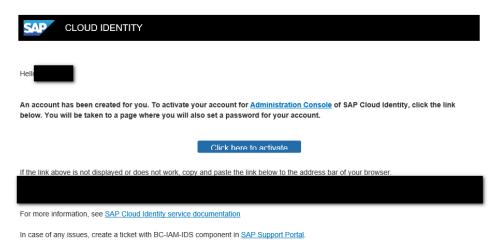
E-mail address *	First name *			
Last name *	Company *			
Country/Region United States	Phone +1 XXX-XXX-XXXX			
Department *	Relationship to SAP *			
Create password *	Confirm password *			
Must have at least 8 characters.				
I have read and understood the Terms and Conditions of SAP.com				

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

3. Go to the mail inbox to activate the account



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

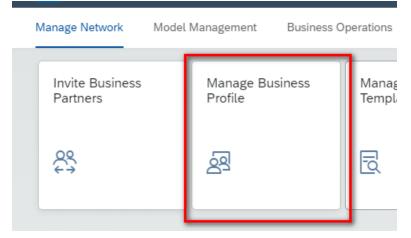
Role	Application
EMIDocIntegrationTemplate	lbn_gtt_core
MetadataServiceIntegrationTemplate	lbn_gtt_core
ReadServiceIntegrationTemplate	lbn_gtt_core
WriteServiceIntegrationTemplate	lbn_gtt_core
LocationProcessTemplate	lbnplatform-loc-broker

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

For example, <a href="mailto:techuser1@techcompany.com">techuser1@techcompany.com</a>



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

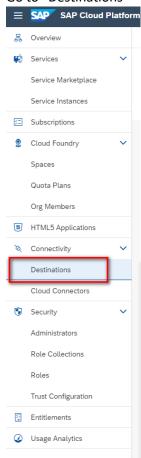
ID: the email address of technical user



Note: The technical user in this step should be different from the application user in <a href="Step 1.2.4">Step 1.2.4</a>.

## 1.4 Maintain Destination of GTT Core Engine Base URL

• Go to "Destinations"



• Configure Destination of GTT Core Engine Base URL

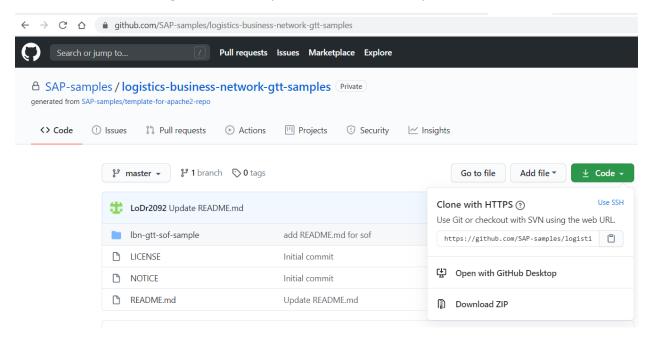
Name	gtt_core_engine_flp_base_url
Туре	НТТР
Description	<optional></optional>
URL	e.g. https://lbn-gtt-samples.gtt-flp-
	lbnplatform.cfapps.eu10.hana.ondemand.com/api
Proxy Type	Internet
Authentication	BasicAuthentication
User	User from <u>Step 1.3</u>
Password	Password from Step 1.3

## 2.Implement Track Shipments Template App

#### 2.1 Download Template Code

Go to <a href="https://github.com/SAP-samples/logistics-business-network-gtt-samples.">https://github.com/SAP-samples/logistics-business-network-gtt-samples.</a>

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



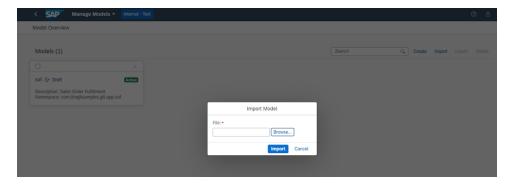
#### 2.2 Download and Setup Tools

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

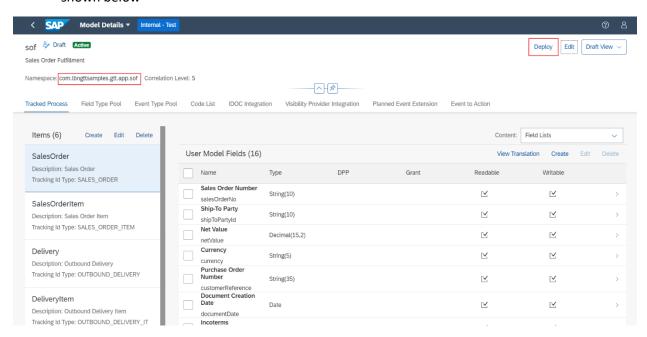
   Run the following command after NPM is installed:
   npm config set @sap:registry "https://npm.sap.com" -g
- Install Cloud Foundry Command Line Interface https://developers.sap.com/tutorials/cp-cf-download-cli.html
- 4. Install MultiApps CF CLI Plugin https://github.com/cloudfoundry-incubator/multiapps-cli-plugin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

#### 2.3 Deploy Model

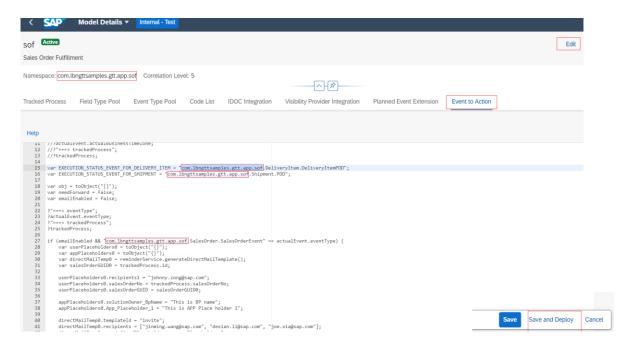
- Go to the folder *model* with downloaded source code. Make sure you have a JSON file *sof-model-YYYYMMDDxx.json* (e.g. sof-model-2020091001.json).
- Open the Manage Models app on SAP Fiori Launchpad for the global track and trace option
- Click "Import"
- Click "Browse" to select the sof-model-YYYYMMDDxx.json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

```
MINGW64;
                                                                                                \times
Authenticating...
Select an org:
Org (enter to skip): 6
Targeted org (
Select a space:
. acc
. perf
  int
  inthf
  sbx
Space (enter to skip): 5
Targeted space 👉
API endpoint:
                https://api.cf.sap.hana.ondemand.com (API version: 3.81.0)
User:
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 part of the namespace you got from <a href="Step 2.3">Step 2.3</a>.
   For example, replace it with "lbngttsamples" in "com.lbngttsamples.gtt.app.sof" as shown in Step 2.3.

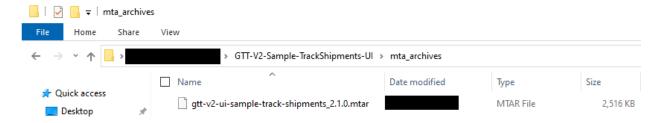
```
Image: Imag
```

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 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
3 _schema-version: "3.1"
4 parameters:
5
      deploy_mode: html5-repo
      enable-parallel-deployments: true
     append: "${space}"
      xsappname: tt_sof_${append}
9 version: 2.3.0
10
    modules:
11
      - name: lbn-gtt-sample-app-appRouter
        type: approuter.nodejs
        path: flp_appRouter
14
      parameters:
         disk-quota: 256M
         memory: 256M
          routes:
            - route: lbn-gtt-samples-app-flp-{unique-identifier} ${domain}
        properties:
20
          SAP_JWT_TRUST_ACL:
           - clientid: "*"
             identityzone: "*"
          destinations:
            - name: 1hn-ott-sof-ani
24
```

```
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
   parameters:
```

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

If you only need the *Track Shipments* template app, make 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

```
ID: lbn-gtt-sample-app-flp
_schema-version: "3.1"
parameters:
 deploy_mode: html5-repo
  enable-parallel-deployments: true append: "${space}"
xsappname: tt_sof_${append}
version: 2.3.0

    name: lbn-gtt-sample-app-appRouter
type: approuter.nodejs
path: flp_appRouter

     parameters:
       disk-quota: 256M
        memory: 256M
          - route: lbn-gtt-samples-app-flp-{unique-identifier}.${domain}
      properties:
        SAP_JWT_TRUST_ACL:
- clientid: "*"
              identityzone: "*"
         destinations:
- name: lbn-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: lbn-gtt-pof-api
            url: "~{lbn-gtt-pof-api/url}"
             forwardAuthToken: true
         - name: lbn-gtt-sample-app-uaa
      name: lbn-gtt-sample-app-runtime
name: lbn-gtt-sample-portal-resources
name: lbn-gtt-sof-api
name: lbn-gtt-sst-api
      - name: lbn-gtt-pof-api
name: flp
      type: com.sap.portal.content
      path: flp
      parameters:
        stack: cflinuxfs3
         memory: 128M
        build pack: \ \texttt{https://github.com/cloudfoundry/nodejs-build pack/releases/download/v1.6.39/nodejs-build pack-cflinux fs3-v1.6.39.zip
      requires:
       - name: 1bn-gtt-sample-app-uaa
     name: lbn-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-ho
```

```
53 resources:
      - 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:
          service-plan: standard
          service: portal
         type: org.cloudfoundry.managed-service
64
       - 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-purchase orders-service-\{unique-identifier\}.\$\{default-domain\}
       - name: lbn-gtt-sample-app-uaa
74
        type: com.sap.xs.uaa-application
        parameters:
         config:
           xsappname: "${xsappname}"
           tenant-mode: dedicated
           oauth2-configuration:
            system-attributes:
                - rolecollections
           description: Security profile of sales order fulfillment application
           scopes:
84
            - name: "$XSAPPNAME.sof.r"
               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"
89
               description: Allow to access standalone shipment tracking application
90
            - name: "$XSAPPNAME.sst.w"
              description: Allow to report events in standalone shipment tracking application
             - name: uaa.user
               description: UAA
94
           authorities:
             - "$XSAPPNAME.sof.r"
             - "$XSAPPNAME.pof.r"
             - "$XSAPPNAME.sst.r"
98
             - "$XSAPPNAME.sst.w"
             - uaa.user
           role-templates:
             - name: SalesOrderFulfillmentAppUserDisplayTemplate
                description: Track & Trace Sales Order Fulfillment Template App User Read Access
               scope-references:
                 - "$XSAPPNAME.sof.r"
                 - waa.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
          authorities:
              - "$XSAPPNAME.sof.r"
             - "$XSAPPNAME.pof.r"
              - "$XSAPPNAME.sst.w"
100
         role-templates:

    - name: SalesOrderFulfillmentAppUserDisplayTemplate
    description: Track & Trace Sales Order Fulfillment Template App User Read Access

104
          - udd.user
- name: PurchaseOrderFulfillmentAppUserDisplayTemplate
           description.
scope-references:
                description: Track & Trace Purchase Order Fulfillment Template App User Read Access
                - "$XSAPPNAME.pof.r"
- uaa.user
          - name: StandaloneShipmentTrackingAppUserDisplayTemplate
            description: Track & Trace Standalone Shipment Tracking Template App User Read Access scope-references:
                  - "$XSAPPNAME.sst.r
                  - uaa.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
        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

```
"_version": "3.0.0",
                "identification": {
                   "id": "ee7d30df-c86c-48b1-8f02-c2abc4e18f54-1578021444073",
"entityType": "bundle"
              },
"payload": {
                    "catalogs": [
                      "catalogs": [

"_version": "3.0.0",

"identification": {
    "id": "defaultCatalogId",
    "title": "{{title}}",
    "entityType": "catalog",
    "i38n": "i18n/defaultCatalogId.properties"
14
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18
19
20
21
22
23
24
25
26
27
28
29
30
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32
33
34
35
36
37
36
37
38
39
40
41
42
43
44
45
46
47
                             "payload": {
    "viz": [
                                           "id": "com.sap.gtt.app.sample.sof",
"vizId": "SalesOrder-track"
                                           "id": "com.sap.gtt.app.sample.sst",
"vizId": "Shipment-track"
                                           "id": "com.sap.gtt.app.sample.pof",
"vizId": "PurchaseOrder-track"
                  ],
"groups": [
                            "version": "3.0.0",
"identification": {
  "id": "salesorder",
  "title": "{{title}}",
  "entityType": "group",
  "i38n": "i18n/salesOrder.properties"
                             "payload": {
    "viz": [
                                     (
  "id": "com.sap.gtt.app.sample.sof",
  "appId": "com.sap.gtt.app.sample.sof",
  "vizId": "SalesOrder-track"
48
49
50
51
                                ]
```

```
"_version": "3.0.0",
    _verion: 5.0.0,
"identification": {
    "id": "shipment",
    "title": "{{title}}",
    "entityType": "group",
    "i18n": "i18n/shipment.properties"
     },
"payload": {
         "viz": [
               "id": "com.sap.gtt.app.sample.sst",
              "appId": "com.sap.gtt.app.sample.sst",
"vizId": "Shipment-track"
       ]
     "_version": "3.0.0",
      "identification": {
       "id": "purchaseOrder",
"title": "{{title}}",
"entityType": "group",
        "i18n": "i18n/purchaseOrder.properties"
     "payload": {
    "viz": [
          "appId": "com.sap.gtt.app.sample.pof",
"vizId": "PurchaseOrder-track"
        ]
],
"sites": [
     "identification": {
       'idm': "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"
     "payload": {
    "config": {
        "ushellConfig": {
```

```
90
         "sites": [
             "_version": "3.0.0",
            "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"
99
            },
100
             "payload": {
101
              "config": {
102
                "ushellConfig": {
LØ3
                  "renderers": {
                     "fiori2": {
                      "componentData": {
                         "config": {
                           "applications": {
                             "Shell-home": {}
109
                          },
110
                           "enableHelp": false,
                           "enableSearch": false,
                           "sessionTimeoutIntervalInMinutes": 19,
                           "sessionTimeoutReminderInMinutes": 3
                     }
                   }
L20
                "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 Shipments Backend Service

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

- Obtain Here Map license from <a>Step 4.1</a>
- 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: 2.3.0
      modules:
     name: gtt-sample-track-shipments-service
        type: java
        path: srv/
        properties:
          SPRING_PROFILES_ACTIVE: cloud
          DESTINATION_GTT: gtt core engine flp_base_url-${space}
          HERE MAP KEY: {here-map-license-key}
    parameters:
          buildpack: java_buildpack
 14
          health-check-timeout: 180
          host: gtt-sample-track-shipments-service-{unique-identifier}
 16
       build-parameters:
 18
          ignore:
 19
           - "*.md"
          build-result: target/*.jar
          timeout: 10m
        requires:
         - name: lbn-gtt-sample-app-uaa
        - name: lbn-gtt-sample-destination
      resources:
     p- name: lbn-gtt-sample-app-uaa
        type: org.cloudfoundry.existing-service
 28
     □- name: lbn-gtt-sample-destination
 29
         type: org.cloudfoundry.existing-service
 30
```

- o 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/sst/common/constant/Constants.java
  - o Replace "com.lbngttsamples.gtt.app.sof" with the model namespace you got from <u>Step</u>

```
Constants.iava
      package com.sap.gtt.v2.sample.sst.common.constant;
      import java.math.BigDecimal;
     □public class Constants {
           public static final String GTT MODEL NAMESPACE = "com.lbngttsamples
           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 CONTAINER NAME = "EntityContainer";
           public static final String COMBINED_MODEL_PATH_SEGMENT = "combined-model";
           public static final String SHIPMENT_MODEL_NAME = "Shipment";
           public static final String ELEMENTS_PATH SEGMENT = "elements";
           public static final String REST_ROOT_URL = "/sap/logistics/gtt/sample/sst/rest/v1";
public static final String ODATA_ROOT_URL = "/sap/logistics/gtt/sample/sst/odata/v1";
 14
 16
           public static final String DATE TIME PATTERN = "yyyy-MM-dd'T'HH:mm:ss'Z'";
           public static final BigDecimal MAX LONGITUDE = BigDecimal.valueOf(180);
           public static final BigDecimal MAX LATITUDE = BigDecimal.valueOf(90);
```

Run the following command to build the MTAR package:

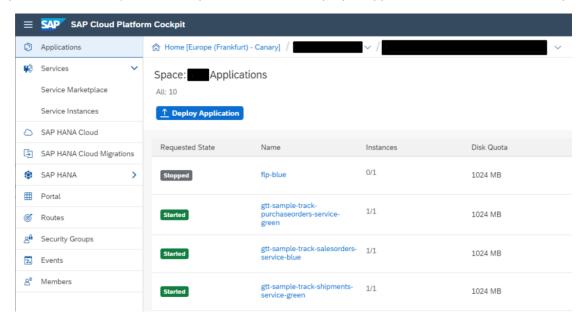
mbt build

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

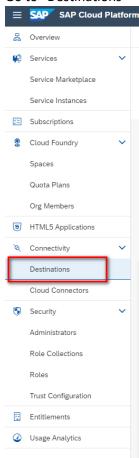
#### 2.4.5 Check Deployed Apps on SAP Cloud Foundry Cockpit

After operations from <a>Step 2.4.1</a> to Step 2.4.4, check the deployed apps on SAP Cloud Platform cockpit.



## 2.4.6 Maintain Destination of Forwarding

1. Go to "Destinations"



#### 2. 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 here and replace "QW9CLNT170" with the logical system of shipment tracked process.

```
Help
 368
                                                                Forward to TM system begin-----*/
                                       "TO_QW9_170_STANDARD"
        var destinationTMName =
  370 var msgObj = toObject("
  371
        var eventObj = toObject("{}");
  372
  373
         var estimatedArrivalTime = null;
  374
         var refPlannedEventMatchKey = null;
  375
        var estimatedArrival = null;
  376
         eventObj.eventReasonCode = "";
  377
  378
         if <u>(trackedProces</u>s != null &&
            "QW9CLNT170" == trackedProcess.logicalSystem &&
"SHIPMENT_ORDER" == actualEvent.trackingIdType &&
  380
  381
              ("com.lbngttsamples.gtt.app.sof.Shipment.Departure" == actualEvent.eventType
   "com.lbngttsamples.gtt.app.sof.Shipment.Arrival" == actualEvent.eventType ||
  382
  383
                    "com.lbngttsamples.gtt.app.sof.Shipment.Delay" == actualEvent.eventType
  384
                    "com.lbngttsamples.gtt.app.sof.Shipment.LoadingStart" == actualEvent.eventType ||
  385
                    "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 ||
"com.lbngttsamples.gtt.app.sof.Shipment.Decoupling" == actualEvent.eventType ||
  387
  388
  389
  390
                    "com.lbngttsamples.gtt.app.sof.Shipment.UnloadingStart" == actualEvent.eventType
"com.lbngttsamples.gtt.app.sof.Shipment.UnloadingEnd" == actualEvent.eventType))
  392
  393
              if (actualEvent.containsProperty("estimatedArrival") && actualEvent.containsProperty("refPlannedEventMatchKey")) {
  394
                    refPlannedEventMatchKey = actualEvent.refPlannedEventMatchKey;
  395
                    estimatedArrival = actualEvent.estimatedArrival;
  396
                    // Get the lastest matched estimatedArrivalTime
  397
                    while (i < estimatedArrival.size()) {
  399
                         if (refPlannedEventMatchKey == estimatedArrival[i].stopId) {
  400
                              estimatedArrivalTime = estimatedArrival[i].estimatedArrivalTime;
  401
  402
```

#### 2.4.7 Maintain Roles and Users

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

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

Note that the role "StandaloneShipmentTrackingAppUserDisplayTemplate" can only enable the user to view the *Track Shipments* template app.

The role "StandaloneShipmentTrackingAppUserProcessTemplate" can only enable the user to report events in the Track Shipments template app.

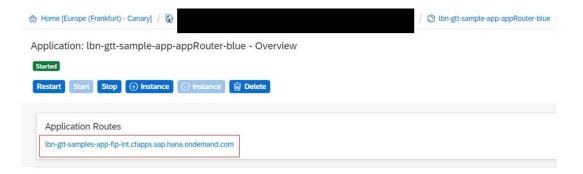
If the user needs access to both view the Track Shipments template app and report events in the app, then assign both roles to the role template.

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

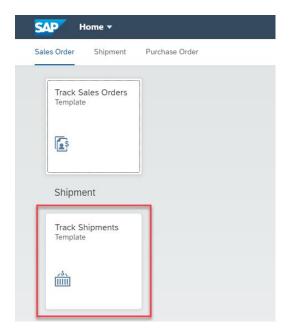
Role	Application
SalesOrderFulfillmentAppUserDisplayTemplate	tt_sof_{space}
PurchaseOrderFulfillmentAppUserDisplayTemplate	tt_sof_{space}

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

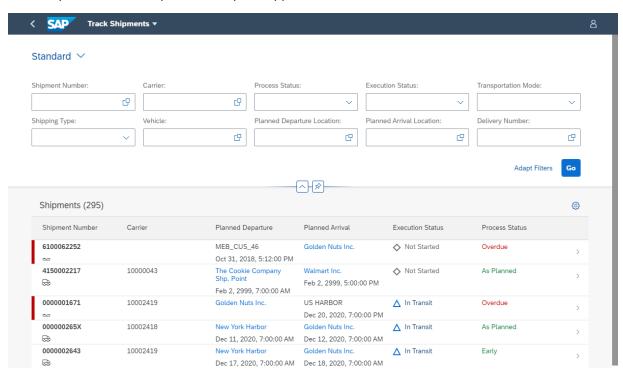
Obtain the Application Routes from SAP Cloud Foundry cockpit



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, refer to the following document:

 $04\_Extractor\_Creation\_Guide-TS.pdf$ 

## 4. Other Configuration

#### 4.1 Obtain Here Map License

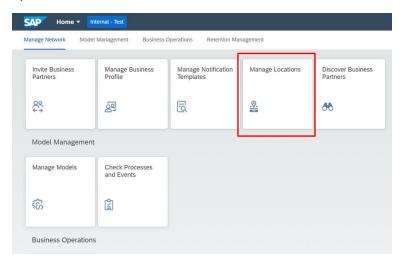
To have the map view, log the incident with the URL of Fiori Launchpad of template apps in SAP BCP system under component "SCM-LBN-GTT-APP". Then follow the SAP Note 1773689: <a href="https://launchpad.support.sap.com/#/notes/0001773689">https://launchpad.support.sap.com/#/notes/0001773689</a> to add 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 <a href="https://sepaper.com/stap.com/#/notes/0001773689">Step 2.4.4</a> when deploying the backend service.

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

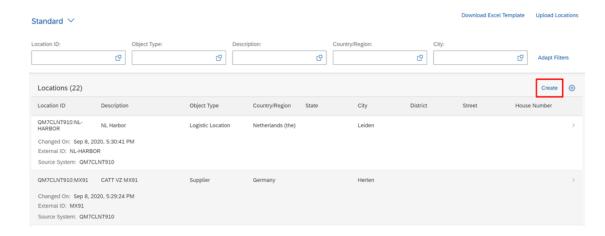
#### 4.2 Maintain Location Master

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

1. 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

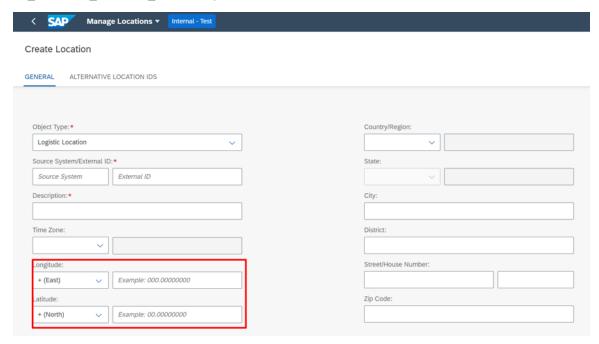


#### 3. Maintain location information with valid geocoordinates

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:

04\_Extractor\_Creation\_Guide-TS.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 <a href="help.sap.com/gtt">help.sap.com/gtt</a> and see the chapter "Onboarding and User Management (Data Contributors)".