Implementation Guide

- Track PO 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.

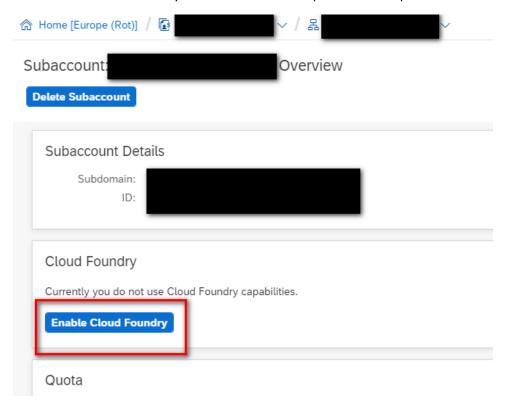
0.Prerequisites

- A SAP Cloud Platform global account with entitlement to the global track and trace option for SAP Logistics Business Network, 1 portal service quota and 2 GB Application Runtime quota.
- To integrate the global track and trace option with ERP, your SAP ERP system should be running on Netweaver 7.31 or higher with SAP NOTE 2937175 being implemented. Besides, to implement the template apps' extractor codes, your SAP ERP system version should be S4 1909 SP03 on premise or higher.
- To integrate with visibility providers, log your incident in SAP BCP system with component "SCM-LBN-GTT-COR".

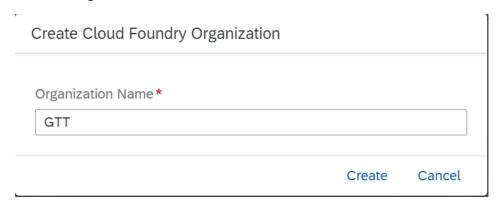
1.Environment Configuration in Logistics Business Network, Global Track and Trace Option

1.1 Enable Cloud Foundry and Create Space

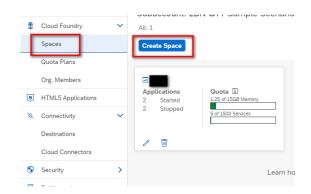
1. Click "Enable Cloud Foundry" to enable the development landscape

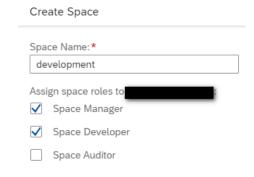


2. Fill in the Organization Name and click "Create"



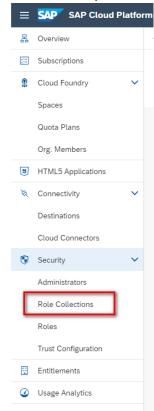
Go to "Cloud Foundry" -> "Spaces"
 Click "Create Space"
 Fill in the Space Name and click "Create"





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 *Track PO 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 Ibnplatform-loc-broker		
BPEditTemplate	lbnplatform-bprepo	
BusinessPartnerDiscoveryTemplate	Ibnplatform-bprepo	

InviteBPProcessTemplate	lbnplatform-bprepo	
ManageInvitationsProcessTemplate	lbnplatform-bprepo	
BlockStoreProcessTemplate	Ibn-retentionmanagement-sb	
ReminderTemplateProcessTemplate	derTemplateProcessTemplate Ibn-retentionmanagement-sb	

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

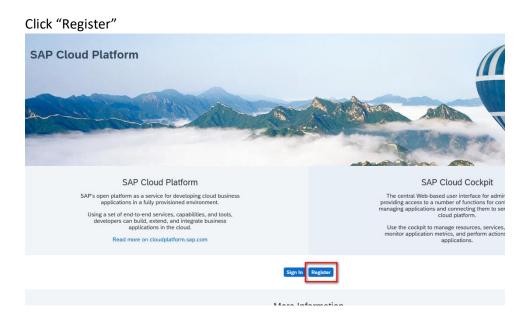
IT Administrator needs to maintain application users in identity provider. For example, user1@sap.com



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

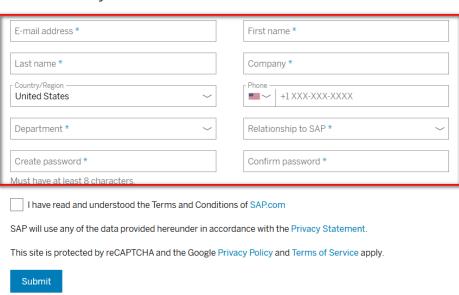
1.3 Maintain Technical User

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

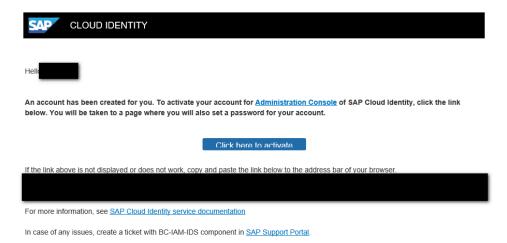


2. Fill in the mandatory fields:

Tell us about yourself



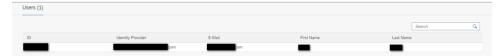
3. Go to the mail inbox to activate the account



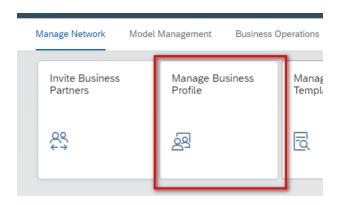
4. As shown in <u>Step 1.2</u>, go to the role of "gtt-sample-integration", and add the following roles:

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, technical user:



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



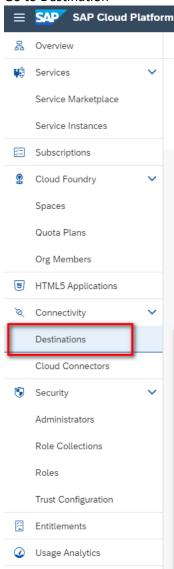
7. Add one Alternate Identifier:
Identifier Type: Technical User
ID: the email address of technical user



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 Destination



2. Configure Destination of GTT Core Engine Base URL

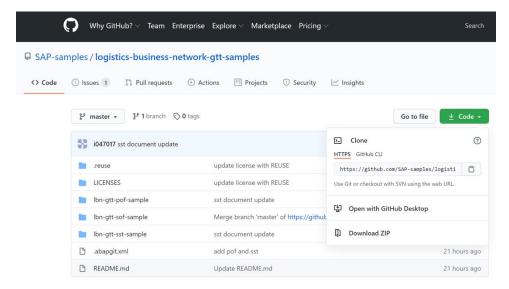
Name	gtt_core_engine_flp_base_url
Туре	HTTP
Description	<optional></optional>
URL	e.g. https://lbn-gtt-samples.gtt-flp-lbnplatform-
	int.cfapps.sap.hana.ondemand.com/api
Proxy Type	Internet
Authentication	BasicAuthentication
User	User from <u>Step 1.3</u>
Password	Password from Step 1.3

2.Implement Track PO 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.



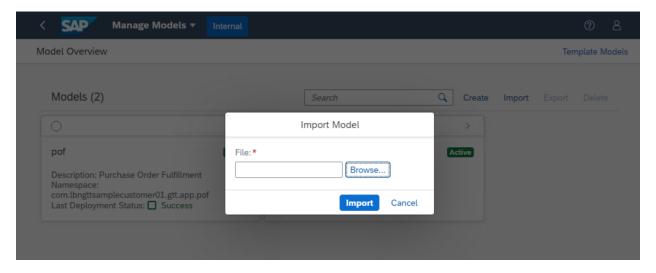
2.2 Download and Setup Tools

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

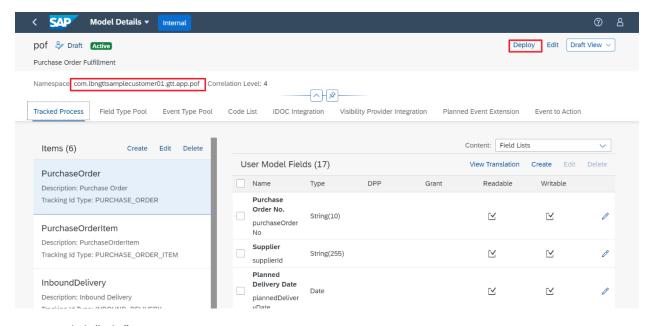
 Run the following command after NPM is installed:
 npm config set @sap:registry "https://npm.sap.com" -g
- Install Cloud Foundry Command Line Interface https://developers.sap.com/tutorials/cp-cf-download-cli.html
- 4. Install MultiApps CF CLI Plugin https://github.com/cloudfoundry-incubator/multiapps-cli-plugin
- 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 *pof-model-YYYYMMDDxx.json* (e.g. pof-model-2020121901.json).
- Open Manage Models app on SAP Fiori Launchpad for the global track and trace option
- Click "Import"
- Click "Browse" to select the pof-model-YYYYMMDDxx.json file
- Click "Import" to import the model

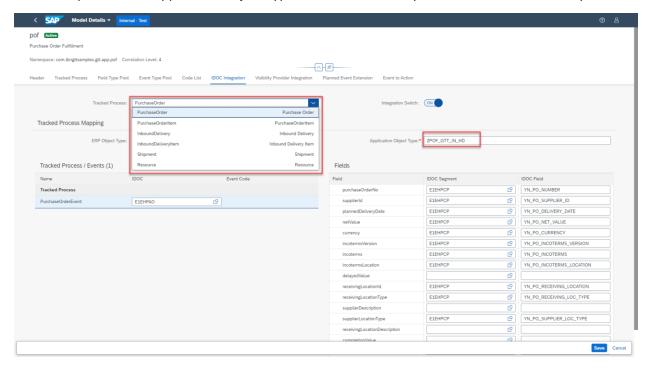


- · Click "Deploy"
- Record the model namespace for later reference, in this case, "com.lbngttsamples.gtt.app.pof" in the following screenshot:

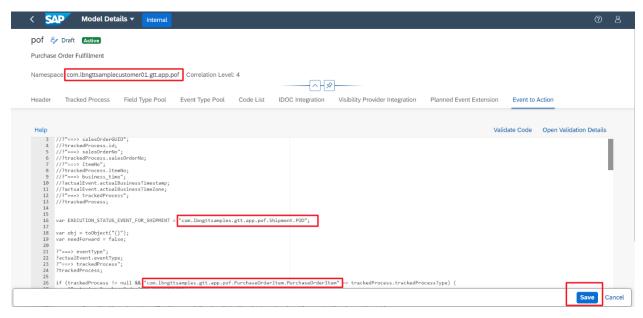


- Click "Edit"
- Go to IDOC Integration tab

Replace all the Application Object Type value with the one you maintained in the ERP system



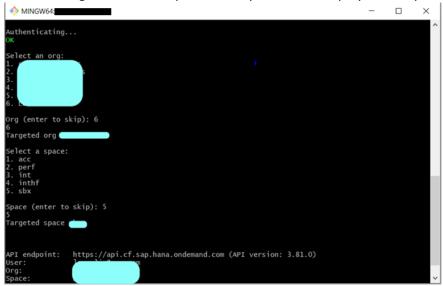
- Go to Event to Action tab
- Replace all the namespace strings, in this case, "com.lbngttsamples.gtt.app.pof" in *Event to Action* script with the model namespace you recorded in the previous step
- Click "Save and Deploy" to deploy the model



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 where you want to deploy the template apps



2.4.2 Package and Deploy Track PO Fulfillment Frontend App

Go to GTT-V2-Sample-TrackPurchaseOrders-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.pof" shown in Step 2.3.

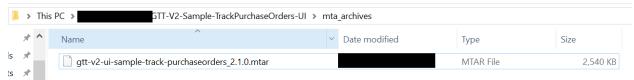


In the command line tool,

Run the following command to build the MTAR package:

mbt build

A MTAR file ./mta_archives/gtt-v2-ui-sample-track-purchaseorders_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-purchaseorders_xxx.mtar

The deployment time depends on your network performance.

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

```
2 ID: 1bn-gtt-sample-app-flp
   _schema-version: "3.1"
4 parameters:
    deploy_mode: html5-repo
     append: "${space}"
     xsappname: tt_sof_${append}
9 version: 2.3.0
10 modules:
     - name: lbn-gtt-sample-app-appRouter
       type: approuter.nodeis
      path: flp_appRouter
       disk-quota: 256M
         memory: 256M
        routes:
           - route: lbn-gtt-samples-app-flp-{unique-identifier} ${domain}
     properties:
       SAP_JWT_TRUST_ACL:
20
         - clientid: "*"
             identityzone: "*"
        destinations:
           - name: 1hn-øtt-sof-ani
24
 resources:
   - name: lbn-gtt-sample-app-runtime
     parameters:
       service-plan: app-runtime
       service: html5-apps-repo
     type: org.cloudfoundry.managed-service
    - name: 1bn-gtt-sample-portal-resources
     parameters:
       service-plan: standard
       service: portal
     type: org.cloudfoundry.managed-service
    - name: lbn-gtt-sof-api
     properties:
       url: https://gtt-sample-track-salesorders-service-{unique-identifier}.${default-domain}
    - name: lbn-gtt-sst-api
       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
```

This FLP project includes 3 template applications: 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 PO Fulfillment app, make the following changes:

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

```
2 ID: lbn-gtt-sample-app-flp
3 _schema-version: '3.1'
4 parameters:
5 deploy_mode: html5-repo
6 enable-parallel-deployments: true
7 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:
14
      disk-quota: 256M
     memory: 256M
       - route: 1bn-gtt-samples-app-flp-${space}.${domain}
19 properties:
20 SAP_JWT_TRUST_ACL:
      - clientid: "*"
         identityzone: "*"
      - name: lbn-gtt-sof-api
         url: "~{lbn-gtt-sof-api/url}"
       forwardAuthToken: true
      - name: lbn-gtt-sst-api
      url: "~{lbn-gtt-sst-api/url}"
forwardAuthToken: true
29
30
    - name: lbn-gtt-pof-api
        url: "~{lbn-gtt-pof-api/url}"
         forwardAuthToken: true
     requires:
34
     - 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
40 - name: flp
41 type: com.sap.portal.content
42 path: flp
43 parameters:
     stack: cflinuxfs3
44
      memory: 128M
45
46
      buildpack: https://github.com/cloudfoundry/nodejs-buildpack/releases/download/v1.6.39/nodejs-buildpack-cflinuxfs3-v1.6.39.zip
     requires:
48
      - name: lbn-gtt-sample-app-uaa
      - name: lbn-gtt-sample-portal-resources
49
     - 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: 1bn-gtt-sample-app-runtime
      parameters:
        service-plan: app-runtime
       service: html5-apps-repo
58
      type: org.cloudfoundry.managed-service
59 - name: 1bn-gtt-sample-portal-resources
      parameters:
        service-plan: standard
        service: portal
62
       type: org.cloudfoundry.managed-service
     - name: lbn-gtt-sof-api
64
      properties:
        url: https://gtt-sample-track-salesorders-service-${space}.${default-domain}
     - name: lbn-gtt-sst-api
      properties:
         url: https://gtt-sample-track-shipments-service-${space}.${default-domain}
     - name: lbn-gtt-pof-api
       properties:
        url: https://gtt-sample-track-purchaseorders-service-${space}.${default-domain}
    - name: lbn-gtt-sample-app-uaa
      type: com.sap.xs.uaa-application
      parameters:
       config:
          xsappname: "${xsappname}"
78
          tenant-mode: dedicated
          oauth2-configuration:
            system-attributes:
81
            - rolecollections
          description: Security profile of sales order fulfillment application
          scopes:
          - name: "$XSAPPNAME.sof.r"
84
            description: Allow to access sales order fulfillment application
          - name: "$XSAPPNAME.pof.r"
            description: Allow to access purchase order fulfillment application
          - name: "$XSAPPNAME.sst.r"
            description: Allow to access standalone shipment tracking application
          - name: "$XSAPPNAME.sst.w"
91
            description: Allow to report events in standalone shipment tracking application
          - name: uaa.user
            description: UAA
94
          authorities:
          - "$XSAPPNAME.sof.r"
          - "$XSAPPNAME.pof.r"
          - "$XSAPPNAME.sst.r"
          - "$XSAPPNAME.sst.w"
          - uaa.user
```

```
role-templates:
           - name: SalesOrderFulfillmentAppUserDisplayTemplate
             description: Track & Trace Sales Order Fulfillment Template App User Read Access
             scope-references:
             - "$XSAPPNAME.sof.r"
104
             - uaa.user
            - name: PurchaseOrderFulfillmentAppUserDisplayTemplate
             description: Track & Trace Purchase Order Fulfillment Template App User Read Access
             scope-references:
             - "$XSAPPNAME.pof.r"
              - waa.user
111
           - name: StandaloneShipmentTrackingAppUserDisplayTemplate
             description: Track & Trace Standalone Shipment Tracking Template App User Read Access
             scope-references:
             - "$XSAPPNAME.sst.r"
114
              - uaa.user
           - name: StandaloneShipmentTrackingAppUserProcessTemplate
             description: Track & Trace Standalone Shipment Tracking Template App User Write Access
             scope-references:
              - "$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
124
       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.sst_and com.sap.gtt.app.sample.sof in payload/catalogs/payload/viz array

- Delete groups salesOrder and shipments in payload/groups array
- Delete orders salesOrder and shipments in payload/sites/payload/groupsOrder array

```
1 {
 2
      "_version": "3.0.0",
      "identification": {
        "id": "ee7d30df-c86c-48b1-8f02-c2abc4e18f54-1578021444073",
       "entityType": "bundle"
 6
     },
 7
      "payload": {
8
        "catalogs": [
9
            "_version": "3.0.0",
            "identification": {
11
12
              "id": "defaultCatalogId",
              "title": "{{title}}",
13
              "entityType": "catalog",
14
15
              "i18n": "i18n/defaultCatalogId.properties"
            },
             "payload": {
17
               "viz": [
18
                  "id": "com.sap.gtt.app.sample.sof",
20
                  "vizId": "SalesOrder-track"
21
22
                 },
23
                  "id": "com.sap.gtt.app.sample.sst",
24
                  "vizId": "Shipment-track"
25
26
27
                  "id": "com.sap.gtt.app.sample.pof",
28
                  "vizId": "PurchaseOrder-track"
30
31
               ]
32
            }
33
          }
34
         ],
```

```
"groups": [
36
             "_version": "3.0.0",
38
            "identification": {
              "id": "salesOrder",
               "title": "{{title}}",
40
41
               "entityType": "group",
               "i18n": "i18n/salesOrder.properties"
42
43
            },
44
             "payload": {
               "viz": [
45
47
                   "id": "com.sap.gtt.app.sample.sof",
48
                   "appId": "com.sap.gtt.app.sample.sof",
49
                   "vizId": "SalesOrder-track"
                 }
               ]
             }
           },
54
             "_version": "3.0.0",
56
            "identification": {
              "id": "shipment",
58
               "title": "{{title}}",
               "entityType": "group",
               "i18n": "i18n/shipment.properties"
62
             "payload": {
               "viz": [
64
                  "id": "com.sap.gtt.app.sample.sst",
                   "appId": "com.sap.gtt.app.sample.sst",
                   "vizId": "Shipment-track"
67
                 }
               1
70
             }
72
             "_version": "3.0.0",
74
             "identification": {
              "id": "purchaseOrder",
               "title": "{{title}}",
76
               "entityType": "group",
78
               "i18n": "i18n/purchaseOrder.properties"
             "payload": {
81
              "viz": [
82
                   "id": "com.sap.gtt.app.sample.pof",
84
                  "appId": "com.sap.gtt.app.sample.pof",
                   "vizId": "PurchaseOrder-track"
                }
87
               ]
```

```
"sites": [
            {
              "_version": "3.0.0",
 94
              "identification": {
                "id": "a3eee102-5181-4222-9924-8b8e90985f07-1578021444073",
                "entityType": "site",
                "title": "SAP Fiori launchpad site on Cloud Foundry",
98
                "description": "SAP Fiori launchpad site on Cloud Foundry, deployed from SAP Web IDE"
              },
              "payload": {
                "config": {
                  "ushellConfig": {
                    "renderers": {
                      "fiori2": {
104
                        "componentData": {
                          "config": {
                            "applications": {
                              "Shell-home": {}
                            },
                            "enableHelp": false,
                            "enableSearch": false,
                            "sessionTimeoutIntervalInMinutes": 19,
                            "sessionTimeoutReminderInMinutes": 3
114
                          }
                        }
                      }
                  }
                },
                "groupsOrder": [
                   'salesOrder",
                  "shipment",
                   "purchaseOrder"
124
                ],
```

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 PO Fulfillment Backend Service

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

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

```
_schema-version: '3.1'
ID: gtt-v2-sample-track-purchaseorders-service
version: 2.3.0
modules:
 name: gtt-sample-track-purchaseorders-service
 path: srv/
 properties:
   SPRING_PROFILES_ACTIVE: cloud
   DESTINATION_GTT: qtt core engine_flp_base_url
   HERE_MAP_KEY: {HERE_MAP_KEY}
 parameters:
   buildpack: java_buildpack
   health-check-timeout: 180
   host: gtt-sample-track-purchaseorders-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
 type: org.cloudfoundry.existing-service
```

- o Replace {here-map-key} with your license key
- 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/pof/constant/Constants.java
 - Replace "com.lbngttsamples.gtt.app.pof" with the model namespace you got from Step
 2.3

```
package com.sap.gtt.v2.sample.pof.constant;

public class Constants {
    public static final String GTT_MODEL_NAMESPACE = "com.lbngttsamples.gtt.app.pof";
    public static final String GTT_MODEL_NAMESPACE = GTT_MODEL_NAMESPACE + ".pofService";
    public static final String MODEL_NAMESPACE = GTT_MODEL_NAMESPACE + ".pofService";
```

• Run the following command to build the MTAR package:

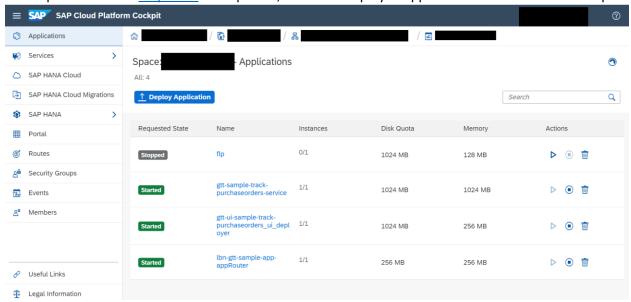
mbt build

A MTAR file ./mta archives/qtt-v2-sample-track-purchaseorders-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-purchaseorders-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.



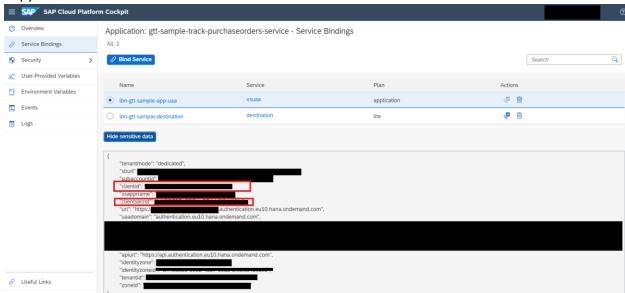
2.4.6 Maintain Destination of Forwarding URL

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

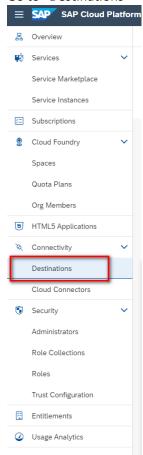


• Find the environment of UAA

• Copy the value of clientid and clientsecret



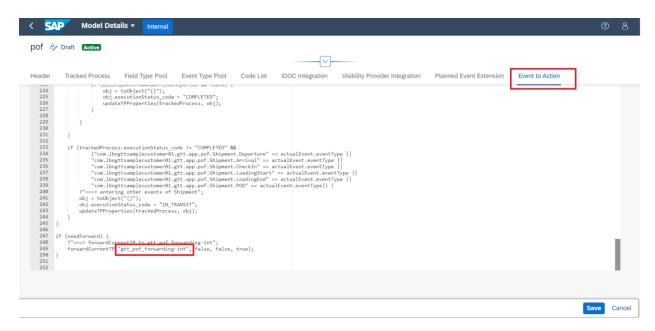
2. Go to "Destinations"



3. Configure Destination of Event to Action Forwarding

Name	e.g. gtt_pof_forwarding_int
Туре	HTTP
Description	<optional></optional>
URL	e.g. https://gtt-sample-track-purchaseorders-
	<pre>service.cfapps.eu10.hana.ondemand.com/sap/logistics/gtt/sample/pof/rest/v1/fo</pre>
	<u>rward</u>
Proxy Type	Internet
Authenticatio	OAuth2ClientCredentials
n	
Client ID	Copied in the previous step
Client Secret	Copied in the previous step
Token Service	e.g. https://lbn-gtt-
URL	samples.authentication.eu10.hana.ondemand.com/oauth/token

Note: You need to update the destination name in *Event to Action* script of *Track PO Fulfillment* model if you change the name from "gtt_pof_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
PurchaseOrderFulfillmentAppUserDisplayTemplate	tt_pof_{space}

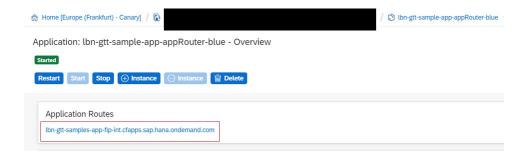
Note that the role of "PurchaseOrderFulfillmentAppUser" is used to access the *Track PO Fulfillment* app.

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

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

2.4.8 Open Track PO Fulfillment Template App from SAP Fiori Launchpad

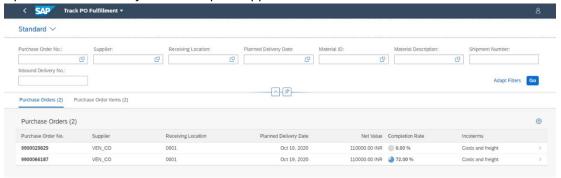
• Obtain the Application Routes from SAP Cloud Foundry Cockpit



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



• Open the *Track PO Fulfillment* template app



3. Implement ERP Extractor

For ERP extractor implementation, refer to the following document:

 ${\tt 02_Extractor_Creation_Guide-TPOF.pdf}$

4. Other Configuration

4.1 Obtain A 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

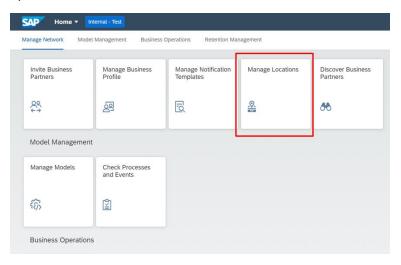
1773689: https://launchpad.support.sap.com/#/notes/0001773689 to add logon credentials to the secure area so that we can provide you with the key in a safe way. After you get the key, you can use it in Step 2.4.4 when deploying the backend service.

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

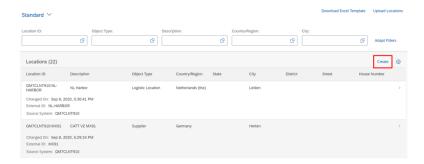
4.2 Maintain Location Master

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

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

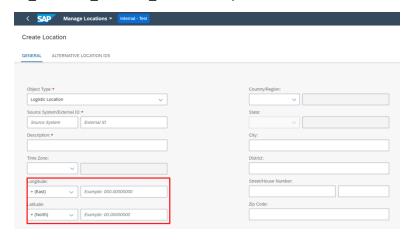


3. Maintain location information with valid geocoordinates

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

For details, refer to the following document:

02_Extractor_Creation_Guide-TPOF.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)".