APPENDIX: SYNCHRONIZE ACTUAL EVENTS BACK TO TM SYSTEM

Your TM system for freight orders or freight bookings is either your:
- On-premise SAP Transportation Management (SAP TM) standalone system or
- Transportation Management in SAP S/4HANA (TM in SAP S/4HANA).

To send event notifications for freight orders or freight bookings from the GTT system to your TM system, you need to set up a connection between TM system and SAP Logistics Business Network, global track and trace option as follows:
1. Configure a web service in your TM system
2. Configure a connection in your SAP Cloud Connector
3. Define the destination service in your SAP BTP cockpit
4. Define the destination in Event to Action of your GTT model

The steps are explained in the following.

1. Configure a Web Service in Your TM System

1.1 Check if Interface `TransportationEventBulkNotification_In` is available in your TM system.

To receive event notifications, you must use the B2B message interface `TransportationEventBulkNotification_In` in your TM system.
For more information about the required message enhancement, see SAP Notes 2721729 and 2743015 .

1.2 Execute T-CODE `SOAMANAGER` in your TM system.
Under the Service Administration tab, select Web Service Configuration.

1.3 Search for "TransportationEventBulkNotification_In" and select the service /SCMTMS/TPEVTBNTFI to enter the detail page.

Design Time Object Search   Configuration Search

ˇ Search criteria

| Object Type | ˇ | is | ˇ | All | ˇ | ⊕⊖ |
| Object Name | ˇ | is | ˇ | TRANSPORTATIONEVE | | ⊕⊖ |

Maximum Number of Results: 100

Search Clear values Reset search criteria

Search Result

Internal Name	Type
🔴 /SCMTMS/TPEVTBNTFI	Service Definition

1.4 In the Configuration tab, click Create Service.

1.5 In the popup window, fill in your own service name and security settings and save the service you created.

Configuration of New Binding for Service Definition '/SCMTMS/TPEVTBNTFI'

1	2	3	3
Service and Binding Name	Provider Security	SOAP Protocol	Operation Settings

Back Next Finish Cancel

Service Information

Service Name:*	ZGTT_Event_In
Service Description Text:	

Binding Information

New Binding Name:*	ZGTT_Event_In

Configuration of New Binding for Service Definition '/SCMTMS/TPEVTBNTFI'

1	2	3	3
Service and Binding Name	**Provider Security**	SOAP Protocol	Operation Settings

Back Next Finish Cancel

Transport Guarantee

Transport Level: **None**

Transport Level Security

- ◉ None (http)
- ○ SSL (https)

Message Level Security

- ◉ None
- ○ Symmetric Message Signature and Encryption
- ○ Asymmetric Message Signature
- ○ Asymmetric Message Signature and Encryption
- ☐ Secure Conversation
- ☐ Extended Signature and Header Protection

Authentication Settings

Authentication Level: **Basic**

Authentication Method

- ☐ No Authentication

Transport Channel Authentication

- ☑ User ID/Password
- ☐ X.509 SSL Client Certificate
- ☐ Single Sign On using SAP Assertion Ticket
- ☐ Single Sign On using SPNego

Message Authentication

- ☐ User ID/Password
- ☐ X.509 Certificate
- ☐ Single Sign On using SAML

1.6 Click the Display Binding icon to check your service's Calculated Access URL.

2. Configure a Connection in Your SAP Cloud Connector

2.1 Ensure that you have installed SAP Cloud Connector.
For details about how to install it, see the installation guide of Cloud Connector on the SAP Help Portal.
https://help.sap.com/viewer/cca91383641e40ffbe03bdc78f00f681/Cloud/en-US/57ae3d62f63440f7952e57bfcef948d3.html

2.2 Log on to the Cloud Connector.

2.3 Add your subaccount into the Cloud Connector.

Click the Add Subaccount button.

Fill the required information in the pop-up window as instructed in the table below.

Fields	Value
Region	Specify the SAP BTP region that should be used
Subaccount	The ID of your target subaccount
Display Name	Enter a name
Subaccount User	BTP Login E-Mail of the user. Note that this user must be assigned to the role collection "Cloud Connector".
Subaccount Password	The login password of the subaccount user for BTP
Location ID	Enter a short string without space for identifying this subaccount
Description	Provide the description

Note:
- The "subaccount user" must have a role for "Cloud Connector". If you do not have it, contact your BTP administrator (or the one who has "security" related roles) to assign the user into the "Cloud Connector Administrator" role collection. Remember to choose "Default identity provider". To add role collections to the subaccount user, see the following:

https://help.sap.com/viewer/cca91383641e40ffbe03bdc78f00f681/Cloud/en-US/daca64dacc6148fcb5c70ed86082ef91.html#loiodaca64dacc6148fcb5c70ed86082ef91__table_default_role_collections_setB

- Always overwrite the "Location ID" and note it down for future reference.

2.4 After setting up the connection between SAP BTP and your Cloud Connector, set up the connection between your TM system and your cloud connector.

Open Cloud To On-Premise. Click the Create icon in the Mapping Virtual to Internal System section.
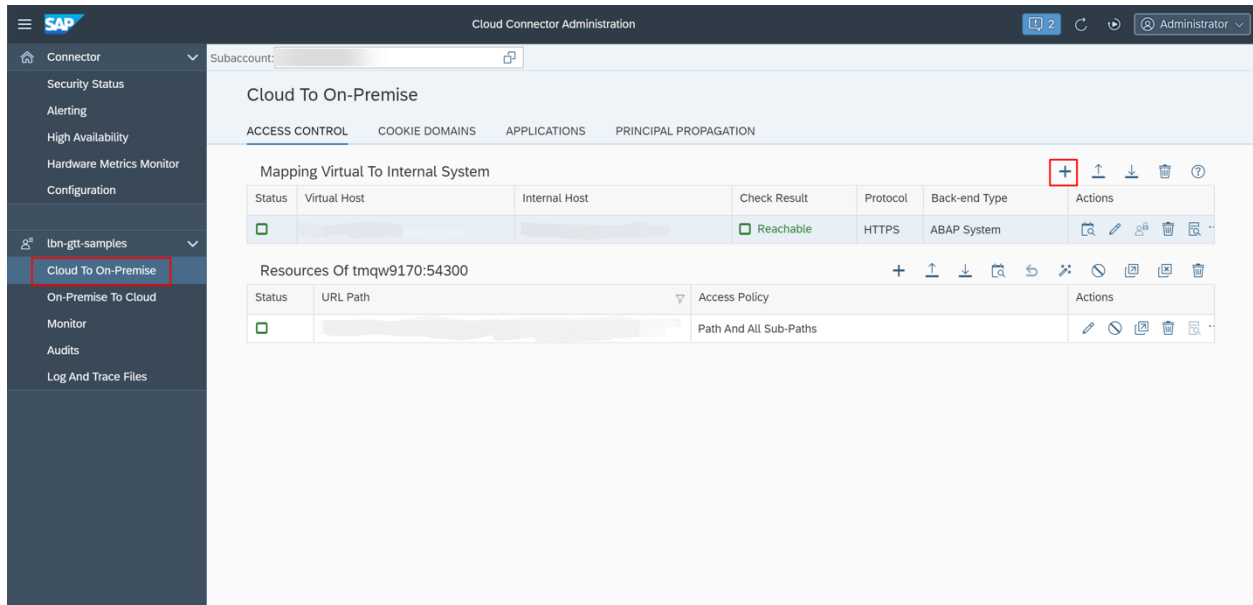
In the pop-up window, fill in the Virtual Host, Virtual Port, Internal Host, and Internal Port of your TM systems as instructed in the table below.

Fields	Value
Back-end Type	ABAP System
Protocol	HTTPS
Virtual Host	Enter a virtual host name of your connection, such as "tm<TARGET_ERP_NAME>< TARGET_ERP _CLIENT>", Example: "tmUYR120" means we want to connect to UYR system with client 120
Virtual Port	Enter a virtual port of your connection
Internal Host	The URL of your TM system This information can be got from transaction "smgw". URL pattern: ldci<ERP_NAME>.wdf.sap.corp
Internal Port	The port of your TM system The default HTTPS port for Application Server ABAP is 44300. If it's not the default one, you should contact your system administrator.
Principal Type	Default
Host In Request Header	Default
Description	Add the description of this connection
Check Internal Host	Default

2.5 Add a resource for your mapping internal URL.

Choose the newly created mapping item in the previous step.

Click the Add icon and fill in the URL Path with the Calculated Access URL from Step 6 of "Configure a Web Service in Your TM System". For the Access Policy field, choose "Path And All Sub-Paths".
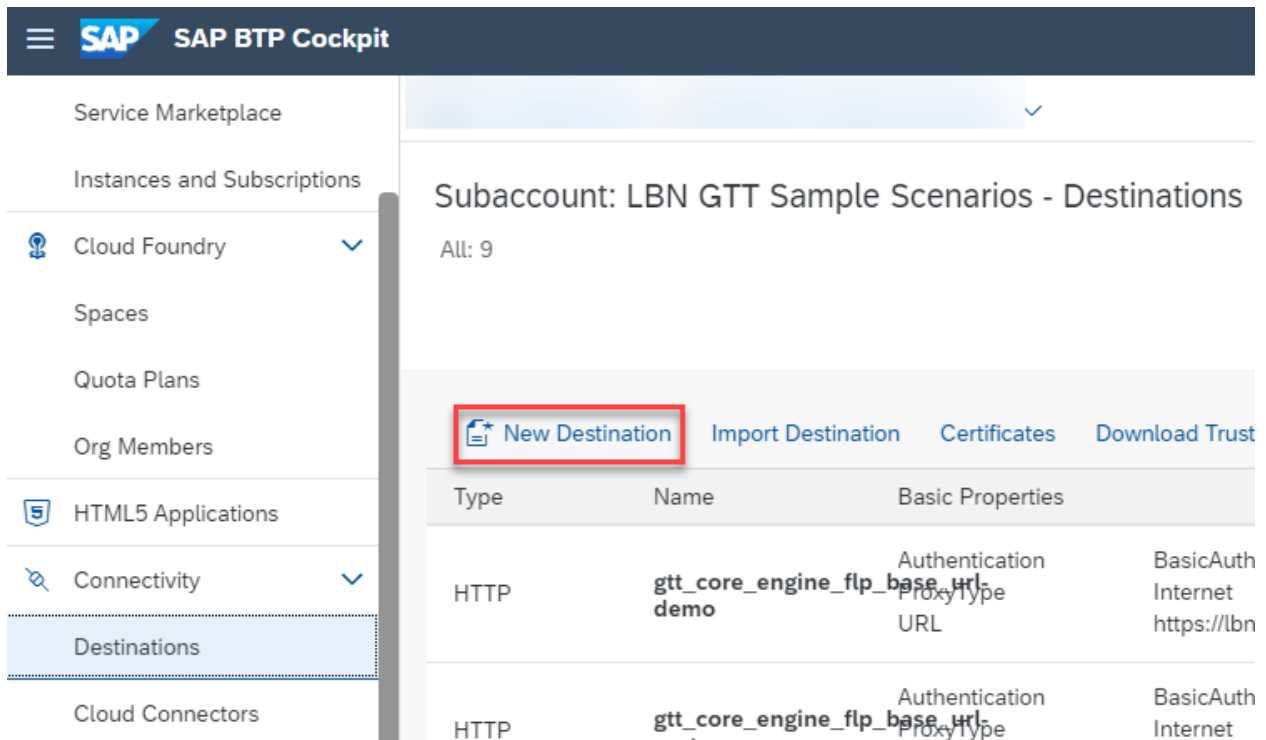
3. Define the Destination Service in Your SAP BTP Cockpit
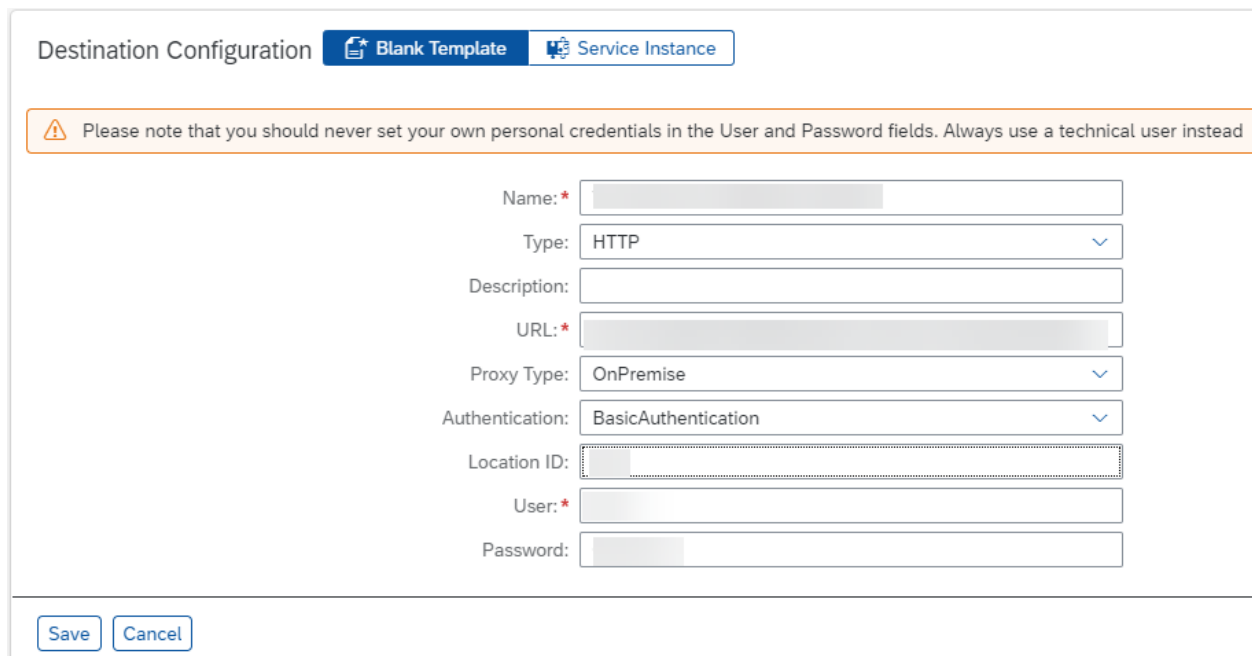
3.1 Go to your GTT subaccount that you used to subscribe in SAP BTP cockpit.

3.2 Create a destination service.

Fill the required information in the pop-up window as instructed in the table below.

Field	Value
Name	Enter a name
Type	HTTP
Description	Provide some description
URL	The URL to the web service provided by TM. URL Pattern: http://{virtual host in cloud connector}:{virtual port in cloud connector}{Calculated Access URL}
Proxy Type	OnPremise
Authentication	BasicAuthentication
Location ID	The location ID that you filled in the step 3 of "Configure a Connection in Your SAP Cloud Connector"
User and Password	The logon user and password to your TM system Usually, you should create a technical user for connection.

. Note:
- Note down the name of your destination service for future reference.
- The Check Connection button within Destination Configuration pop-up has no effect on "BasicAuthentication". Therefore, when you click it, the success message prompted is not a guarantee for a correct configuration.

4. Define the Destination in Event to Action of Your GTT Model

4.1 Open the Manage Models app and open the GTT standard model. In the Event to Action tab, overwrite the `destinationTMName` with your own destination name that you defined in the previous step.

For details, see help.sap.com/gtt and search for *Guide for Model Administrators*.