



PUBLIC

Sample Code Configuration Guide for Integration with SAP Business Network Global Track and Trace

SAP Business Network Global Track and Trace

December 2025

THE BEST RUN  SAP

The SAP logo consists of the word "SAP" in a bold, sans-serif font, with a blue triangle pointing upwards to the right positioned behind the letter "A".

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Document History

2512 Release:

1. Add [3.12](#) TM Configurations and [4.19](#) TM configurations
2. Update [3.3](#) Activate BC Set

2505 Release:

1. Update [3.4](#) Define RFC Connection for SAP Business Network Global Track and Trace

2408 Release:

1. Update [4.8](#) Define Application Object Types for Header Level Extractor
2. Update [4.9](#) Define Application Object Types for Item Level Extractor

2406 Release:

1. Update [3.4](#) Define RFC Connection for SAP Business Network Global Track and Trace
2. Update [4.1](#) Define RFC Connection for SAP Business Network Global Track and Trace

2403 Release:

1. Update [1.2](#) Log on the Development Client to Configure BTE
2. Update [3.4](#) Define RFC Connection for SAP Business Network Global Track and Trace
3. Update [4.1](#) Define RFC Connection for SAP Business Network Global Track and Trace

2307 Release:

1. Update [3.3](#) Activate BC Set
2. Update [5. Configuration and Coding Guide-Advanced](#)

2306 Release:

1. Update [2.1.1](#) Install ABAPGit
2. Update [2.1.2](#) Download ABAP Code from GitHub
3. Update [3.7](#) Maintain AOT Type Restriction for Cross-Processes
4. Update [3.8](#) Maintain Event Type Restriction for Cross-Processes
5. Update [4.12.4](#) Cross-processes for Purchase Order
6. Update [4.13.5](#) Cross-processes for Inbound Delivery
7. Update [4.14.3](#) Cross-processes for Sales Order
8. Update [4.15.5](#) Cross-processes for Outbound Delivery

2305 Release:

1. Update [3.4](#) Define RFC Connection for SAP Business Network Global Track and Trace
2. Update [4.1](#) Define RFC Connection for SAP Business Network Global Track and Trace
3. Update [5.7](#) Enhancement Codes for Cross-processes Tracking
4. Add [Q8: How to deactivate or activate the application log?](#)

2304 Release:

1. Update prerequisites for Chapter 3 SAP S/4HANA Integration Configuration option 1 (Import BC set + Manual configuration)
2. Update [5.7](#) Enhancement Codes for Cross-processes Tracking
3. Add the [Chapter 6 Known Issues](#)
4. Update [Q1: After the configuration of GTT and SAP TM systems, we found that the freight unit / freight order / freight booking IDOC cannot be sent to SAP Business Network Global Track and Trace, how can we do the troubleshooting?](#)
5. Add the following FAQs:
 - [Q6: Do sample codes support one-time locations? Where can we maintain the one-time location address?](#)
 - [Q7: How to stop sending unnecessary IDOCs from SAP S/4HANA system to the GTT system?](#)

2303 Release:

1. Update [3.4](#) Define RFC Connection for SAP Business Network Global Track and Trace
2. Update [3.7](#) Maintain AOT Type Restriction for Cross-Processes
3. Update [3.10](#) Maintain Delivery Types that will be sent to SAP Business Network Global Track and Trace
4. Add [3.11](#) Maintain Purchase Order Types that will be sent to SAP Business Network Global Track and Trace
5. Update [4.1](#) Define RFC Connection for SAP Business Network Global Track and Trace

6. Update [4.12.4](#) Cross-processes for Purchase Order
7. Add [4.12.5](#) Maintain Purchase Order Types that will be sent to SAP Business Network Global Track and Trace
8. Add [4.13.6](#) Maintain Delivery Types that will be sent to SAP Business Network Global Track and Trace
9. Update [4.14.3](#) Cross-processes for Sales Order
10. Update [Q2](#): How to add customized planned event and synchronize this event back to SAP TM?
11. Add [Q4](#): How is the connection established between SAP S/4HANA and SAP Business Network Global Track and Trace? Do we need to configure PI in SAP S/4HANA?
12. Add [Q5](#): What scenarios are supported in SAP Business Network Global Track and Trace?

1. PREREQUISITES

1.1 Check the SAP Product Version

Make sure that you have met the requirements for the product version mentioned in the “[Prerequisites](#)” section of *Basic Knowledge: Connect to SAP S/4HANA in How to Send Documents from SAP S/4HANA to SAP Business Network Global Track and Trace*. You can find this guide at <http://help.sap.com/gtt>.

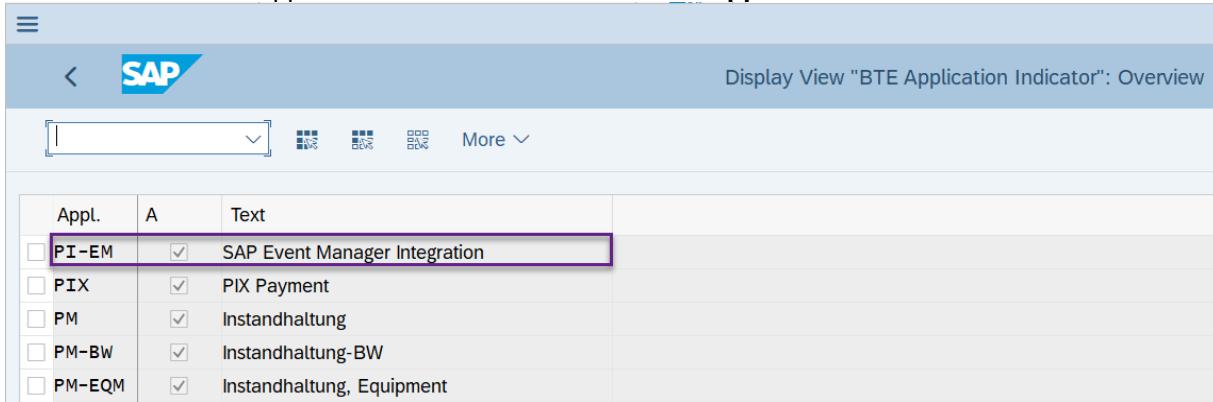
The ABAP codes on Github to support fulfillment tracking apps for SAP Business Network Global Track and Trace shall be implemented in SAP S/4HANA 1909 SP03 on premise or higher. Please note that the codes are not validated in its lower version or other ECC series of products, so you might need to do further adaptation work or build your own extractor.

1.2 Log on the Development Client to Configure BTE

1.2.1 Ensure you have development access to the client for cross-client customizing and local development.

1.2.2 Log on to the client and enter transaction code (T-code): **BF11**.

1.2.3 Position on the Application ID: **PI-EM**. Check the field **Application Active**.



| Appl. | A | Text |
|---------------------------------|-------------------------------------|-------------------------------|
| <input type="checkbox"/> PI-EM | <input checked="" type="checkbox"/> | SAP Event Manager Integration |
| <input type="checkbox"/> PIX | <input checked="" type="checkbox"/> | PIX Payment |
| <input type="checkbox"/> PM | <input checked="" type="checkbox"/> | Instandhaltung |
| <input type="checkbox"/> PM-BW | <input checked="" type="checkbox"/> | Instandhaltung-BW |
| <input type="checkbox"/> PM-EQM | <input checked="" type="checkbox"/> | Instandhaltung, Equipment |

1.2.4 Click **Save**.

2. DOWNLOAD ABAP CODE FROM GITHUB

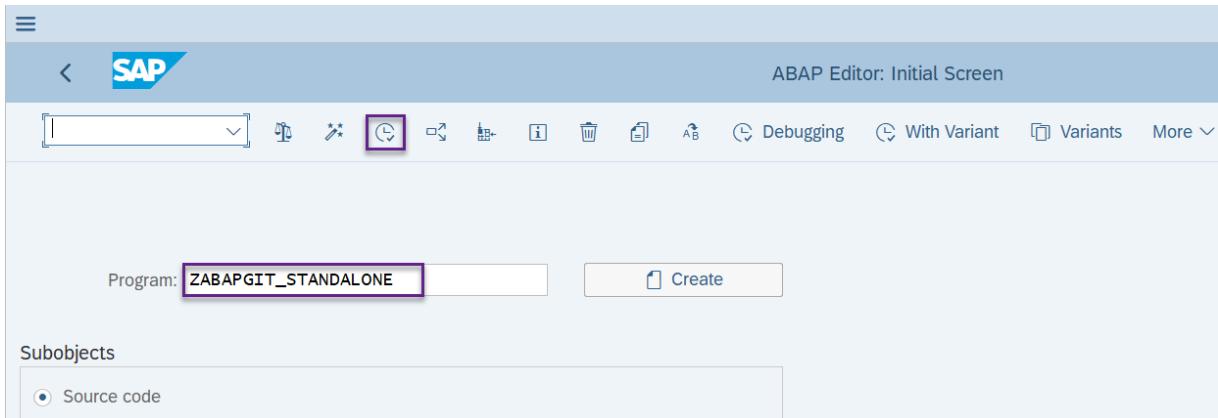
2.1 Initial Download ABAP Code from GitHub

2.1.1 Install ABAPGit

You need to install ABAPGit before downloading the codes from GitHub. To install ABAPGit, follow the instructions on <https://docs.abapgit.org/user-guide/getting-started/install.html>. Make sure you **Install the standalone version** in your dev system. When installation is complete, a new report is created, **ZABAPGIT_STANDALONE**.

2.1.2 Download ABAP Code from GitHub

2.1.2.1 Enter T-code **SE38** and fill in the report name from [2.1.1](#), **ZABAPGIT_STANDALONE**. Click **Execute** to run the report.



2.1.2.2 Click **New Online** to download the code.

A screenshot of the abapGit application's "Tutorial" section. At the top, there's a navigation bar with "abapGit" and "Tutorial" on the left, and "Repository List", "New Online" (which is highlighted with a purple border), "New Offline", "Settings", and "?" on the right. The main content area has a heading "Tutorial" and a section "Online repositories" with a bulleted list: "To clone a remote repository (e.g. from github) click New Online from the top menu. This will link a remote repository with a package on your system.", "Use the pull button to retrieve and activate the remote objects.", and "If the remote repository is updated, you will see the changes and can pull to apply the updates.". Below that is a section "Offline repositories" with a bulleted list: "To add a package as an offline repository, click New Offline from the top menu.", "abapGit will start tracking changes for the package without linking it to an online git repository.", and "You can link the package later or just export the package content as a ZIP file.". At the bottom is a section "Repository list and favorites" with a bulleted list: "To favorite a repository, use the ★ icon in the repository list.", "To go to a repository, click on the repository name.", "To go back to your favorites, use the Repository List", and "Explore to find projects using abapGit".

2.1.2.3 Fill in the **Git Repository URL**.

<https://github.com/SAP-samples/logistics-business-network-gtt-standardapps-samples.git>

2.1.2.4 Fill in the **Package** where you want to create the new ABAP code. If the package does not exist yet, click **Create package** to create it. Set **Full** for **Folder Logic**. Click **Clone Online Repo** to download the code.

abapGit

abapGit ► New Online Repository

Git Repository URL *

Package *

Branch

Folder Logic

Prefix

Display Name

Ignore Subpackages

Serialize Main Language Only

2.1.2.5 Assign the change to a change request. If you do not have any available change requests, you need to create a new one.

2.1.2.6 Click **Pull** to pull down the code of the latest version.

The screenshot shows the SAP abapGit interface. At the top, there's a toolbar with 'selections', 'Edit', 'Goto', 'System', and 'Help'. Below the toolbar, it says 'abapGit' and 'Repository'. Underneath that, it shows 'GTT-V2-Standard-Apps' and the URL 'https://SAP-samples/logistics-business-network-gtt-standardapps-samples.git'. A status bar at the bottom indicates 'b19790'. The main area is a table with columns 'Type', 'Name', and 'Path'. The 'Type' column shows mostly 'CLAS' (classes). The 'Name' column lists various class names like 'ZCL_GTT_MIA_AE_FILLER_DLH_GR', 'ZCL_GTT_MIA_AE_FILLER_DLH_PA', etc. The 'Path' column shows the full ABAP path for each class. At the top of the table, there are buttons for 'Pull', 'Stage', 'Diff', 'Branch', 'Tag', 'Advanced', 'View', 'Refresh', and a gear icon.

2.1.2.7 After you download the code, you can check it with T-code **SE80**.

2.2 Update ABAP Code from GitHub

In each release, there are some changes in the public sample codes. To update your local sample codes of Fulfillment Tracking apps after a future release, do the following:

2.2.1 Update ABAP Code from GitHub

2.2.1.1 Enter T-code **SE38** and fill in the report name **ZABAPGIT_STANDALONE**. Click the **Execute** icon to run the report.

The screenshot shows the SAP ABAP Editor: Initial Screen. The title bar says 'ABAP Editor: Initial Screen'. The toolbar includes icons for search, copy, paste, cut, delete, and other functions. Below the toolbar, there's a search bar and a 'Create' button. The main area has a 'Program:' field containing 'ZABAPGIT_STANDALONE' and a 'Subobjects' section. In the 'Subobjects' section, there are radio buttons for 'Source code' (which is selected), 'Variants', 'Attributes', 'Text elements', and 'Documentation'. The background shows a light blue grid pattern.

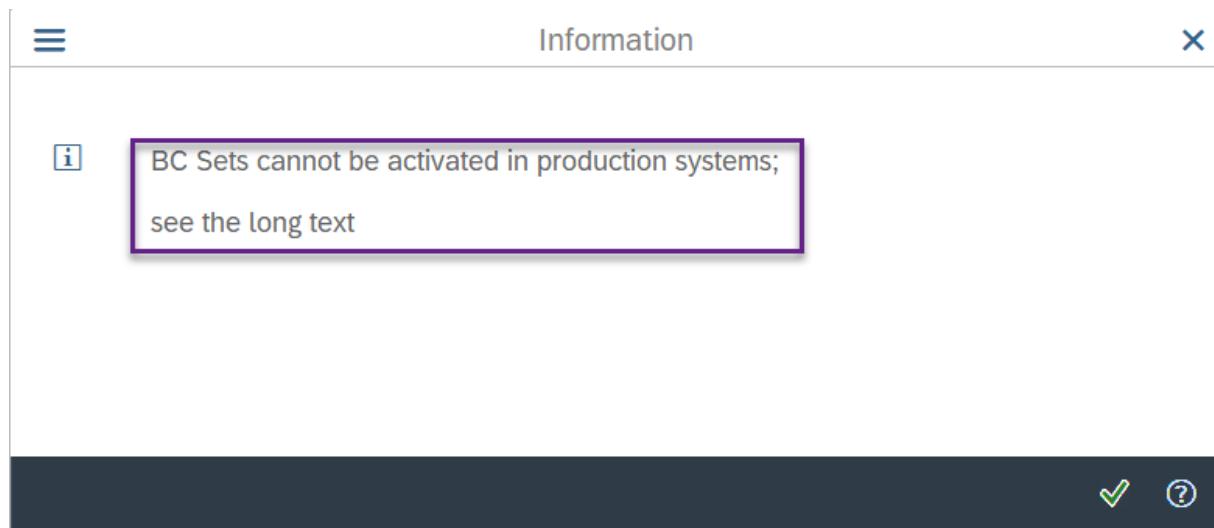
2.2.1.2 To access the Fulfillment Tracking apps' repository, click the button.

2.2.1.3 Click **Pull** to pull down the latest version code.

3. SAP S/4HANA INTEGRATION CONFIGURATION OPTION 1 (IMPORT BC SET + MANUAL CONFIGURATION)

Prerequisites:

- For this option, you must establish the system environment WITHOUT a production client for preparation. If you try to import the BC set into the system with a production client, an error will pop up.



Performance Assistant

BC Sets cannot be activated in production systems; see the long text

Message no. SCPR229

Diagnosis

You tried to activate BC Sets in a system with at least one production client. This is not allowed. You can only activate Business Configuration Sets in systems with no production client.

System Response

The procedure was cancelled. No data was written into customizing tables.

Procedure

Activate the BC Set in a test system.

- You must maintain the business process types used for SAP Business Network Global Track and Trace correctly. To do so, follow the steps below:
 - In **Display IMG** page, click **Integration with Other SAP Components -> Interface to Global Track and Trace -> Define Application Interface**.
 - Choose activity **Define Used Business Process Types, Appl. Object Types and Event Types**.
 - Choose **Define Used Business Process Types** and click **New Entries** to maintain business process type as follows:

| Business Process Type | Update Mode | BPT Processing Mode | Description |
|-----------------------|------------------|---------------------|---|
| ESC_DELIV | Update Task (V1) | Active | Delivery in SAP R/3 Enterprise |
| ESC_MATDOC | Update Task (V1) | Active | Material Document in SAP R/3 Enterprise |
| ESC_PURORD | Update Task (V1) | Active | Purchase Order in SAP R/3 Enterprise |

| | | | |
|------------|------------------|--------|-----------------------------------|
| ESC_SHIPMT | Update Task (V1) | Active | Shipment (SAP R/3 Enterprise) |
| ESC_SORDER | Update Task (V1) | Active | Sales Order in SAP R/3 Enterprise |
| TMS_TOR | Update Task (V1) | Active | Transportation Order (SAP TM) |

3.1 Download BC Set from GitHub

3.1.1 Navigate to BC Set in https://github.com/SAP-samples/logistics-business-network-gtt-standardapps-samples/blob/main/lbn-gtt-standard-app/BCset/ZGTT_CONF.bcs.

3.1.2 Click on “Raw” button.

SAP-samples / logistics-business-network-gtt-standardapps-samples · Private

generated from SAP-samples/apache2-reuse-template

[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Security](#) [Insights](#)

[main](#) | [logistics-business-network-gtt-standardapps-samples / lbn-gtt-standard-app / BCset / ZGTT_CONF.bcs](#) [Go to file](#) [...](#)

[1067300 initial version](#) [Latest commit 3180cc5 12 hours ago](#) [History](#)

[0 contributors](#)

1191 lines (1191 sloc) 444 KB [Raw](#) [Blame](#) [Copy](#) [Edit](#)

```

1 VERSION          1
2 DATE            20210513      150436
3 BCSET           ZGTT_CONF
4 ORGID           /CUSTOMER/
5 COMPONENT       SAP_BASIS
6 MINRELEASE     750
7 MAXRELEASE    *

```

3.1.3 Click Save as to save the configuration file to your local path.

http://raw.githubusercontent.com/SAP-samples/logistics-business-network-gtt-standardapps-samples/main/lbn-gtt-standard-app/BCset/ZGTT_CONF.bcs?token=ASES7YJIVFHZ3NE4463OY2DAU3IDY

Apps SAP Managed Bookmarks

```

1 VERSION          1
2 DATE            20210513      150436
3 BCSET           ZGTT_CONF
4 ORGID           /CUSTOMER/
5 COMPONENT       SAP_BASIS
6 MINRELEASE     750
7 MAXRELEASE    *

```

GTt Standard APP Configuration
E GTt Standard APP Configuration

```

/SAPTRX/VFUNC_A          1 FUNCTION_ID
/SAPTRX/VFUNC_A          1 FUNC_NAME
/SAPTRX/VFUNC_A          1 FUNC_TYPE
/SAPTRX/VFUNC_A          1 MANDT
/SAPTRX/VFUNC_A          2 FUNCTION_ID
/SAPTRX/VFUNC_A          2 FUNC_NAME
/SAPTRX/VFUNC_A          2 FUNC_TYPE
/SAPTRX/VFUNC_A          2 MANDT
/SAPTRX/VFUNC_A          3 FUNCTION_ID
/SAPTRX/VFUNC_A          3 FUNC_NAME
/SAPTRX/VFUNC_A          3 FUNC_TYPE
/SAPTRX/VFUNC_A          3 MANDT
/SAPTRX/VFUNC_A          4 FUNCTION_ID
/SAPTRX/VFUNC_A          4 FUNC_NAME
/SAPTRX/VFUNC_A          4 FUNC_TYPE
/SAPTRX/VFUNC_A          4 MANDT
/SAPTRX/VFUNC_A          5 FUNCTION_ID
/SAPTRX/VFUNC_A          5 FUNC_NAME
/SAPTRX/VFUNC_A          5 FUNC_TYPE
/SAPTRX/VFUNC_A          5 MANDT
/SAPTRX/VFUNC_B          1 FUNCTION_ID
/SAPTRX/VFUNC_B          1 FUNC_NAME
/SAPTRX/VFUNC_B          1 FUNC_TYPE
/SAPTRX/VFUNC_B          1 MANDT
/SAPTRX/VFUNC_B          2 FUNCTION_ID
/SAPTRX/VFUNC_B          2 FUNC_NAME
/SAPTRX/VFUNC_B          2 FUNC_TYPE
/SAPTRX/VFUNC_B          2 MANDT
/SAPTRX/VFUNC_B          3 FUNCTION_ID
/SAPTRX/VFUNC_B          3 FUNC_NAME
/SAPTRX/VFUNC_B          3 FUNC_TYPE
/SAPTRX/VFUNC_B          3 MANDT
/SAPTRX/VFUNC_B          4 FUNCTION_ID
/SAPTRX/VFUNC_B          4 FUNC_NAME
/SAPTRX/VFUNC_B          4 FUNC_TYPE
/SAPTRX/VFUNC_B          4 MANDT
/SAPTRX/VFUNC_B          5 FUNCTION_ID
/SAPTRX/VFUNC_B          5 FUNC_NAME

```

FKY GTT_MIA_IDLV_HD_REL
USE ZGTT_MIA_OTE_DL_HDR_REL
A

172 GTT_MIA_IDLV_IT_REL
USE ZGTT_MIA_OTE_DL_ITEM_REL
A

172 GTT_MIA_TS_FO_HD_REL
USE ZGTT_ST5_OTE_FO_HDR_REL
A

172 GTT_MIA_SHP_HD_REL
USE ZGTT_MIA_OTE_SH_HDR_REL
A

172 GTT_TS_FU_HD_REL
USE ZGTT_ST5_OTE_FO_HDR_REL
A

172 GTT_MIA_IDLV_HD_EE
B ZGTT_MIA_EE_DL_HDR
B

172 GTT_MIA_IDLV_IT_EE
B ZGTT_MIA_OTE_DL_ITEM
B

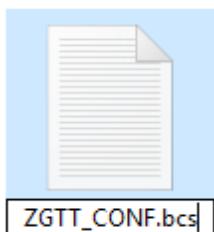
172 GTT_MIA_TS_FO_HD_EE
B ZGTT_ST5_OTE_FO_HDR
B

172 GTT_MIA_SHP_HD_EE
B ZGTT_MIA_OTE_SH_HDR
B

172 GTT_TS_FU_HD_EE
B ZGTT_ST5_OTE_FO_HDR
B

Back Alt+Left Arrow
Forward Alt+Right Arrow
Reload Ctrl+R
Save... Ctrl+S
Print... Ctrl+P
Cast...
Create QR code for this page
Translate to English
View page source Ctrl+U
Inspect Ctrl+Shift+I
FKY USE

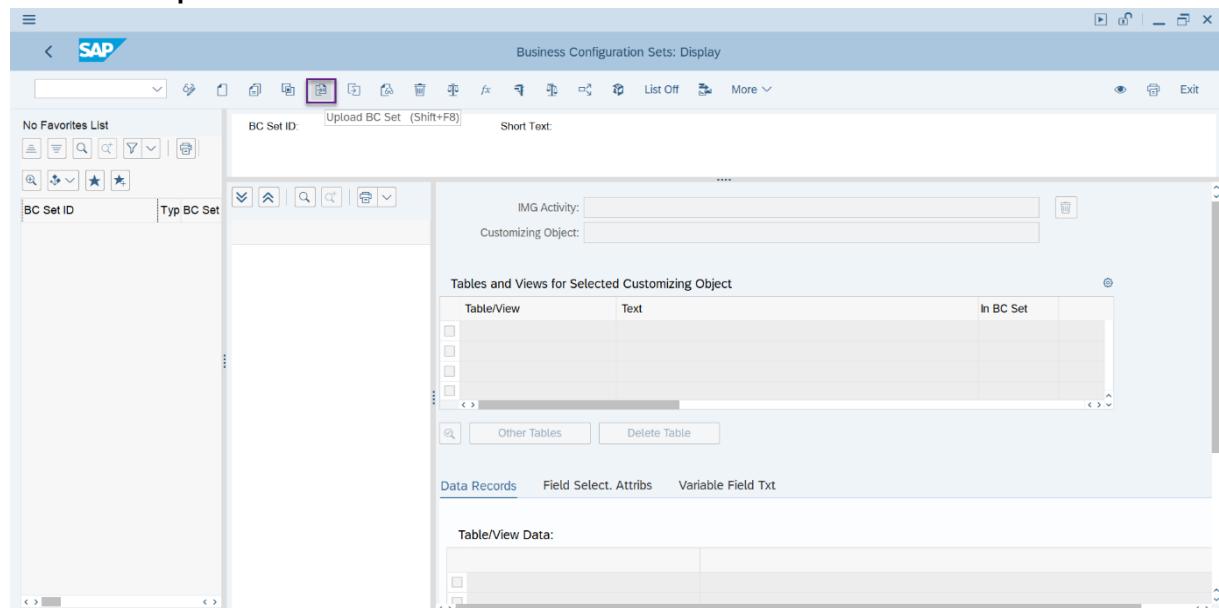
3.1.4 Change file extension to “.bcs”.



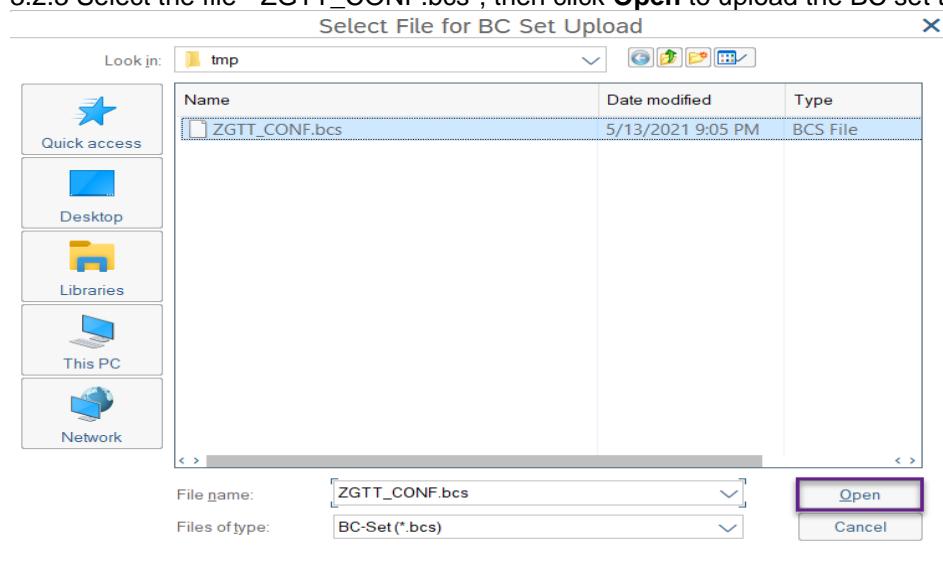
3.2 Import BC Set

3.2.1 From SAP Easy Access Menu, **Tools -> Customizing -> Business Configuration Sets -> Display and Maintain BC Sets** (Transaction Code SCPR3).

3.2.2 Select Upload BC Set.



3.2.3 Select the file " ZGTT_CONF.bcs", then click **Open** to upload the BC set to your development system.



All of the configurations are loaded in the system.

The screenshot shows the SAP Business Configuration Sets: Change interface. The top bar displays the title "Business Configuration Sets: Change". The left sidebar has a "No Favorites List" and a search bar. The main area shows "BC Set ID: ZGTT_CONF" and "Short Text: GTT Standard APP Configuration". A tree view under "GTT Standard APP Configuration (ZGTT_CONF)" includes nodes for "Define Logical System", "Define Used Business Process Types, Appl. Object Ty", "Define SAP GTT Extraction Functions", and "Define CI Tenant for SAP GTT". To the right, there's a section titled "Tables and Views for Selected Customizing Object" showing "Table/View" and "Text" for "V_TBDLS" (Logical Systems). Below this is a table titled "Data Records" with a single entry "GTTAPPLOGS" (Logical System for GTT Standard APP). A message bar at the bottom says "BC Set ZGTT_CONF saved".

3.2.4 Click **Save** to save the BC Set.

BC Set ZGTT_CONF saved

3.3 Activate BC Set

3.3.1 From SAP Easy Access Menu, **Tools** -> **Customizing** -> **Business Configuration Sets** -> **Activation of BC Sets** (Transaction Code SCPR20).

3.3.2 Enter the name of the BC Set and select **Activate**.

The screenshot shows the SAP Business Configuration Sets: Activation interface. The top bar displays the title "Business Configuration Sets: Activation". The main area has fields for "BC Set:" (containing "ZGTT_CONF") and "Short Text:" (containing "GTT Standard APP Configuration"). A toolbar with various icons is visible above the input fields.

3.3.3 Provide a Workbench request and a Customizing request.

Prompt for Workbench request

Request: 900368 Workbench request

Short Description: Import GTT Standard APP configuration

Own Requests

Prompt for Customizing request

Request: 900372 Customizing request

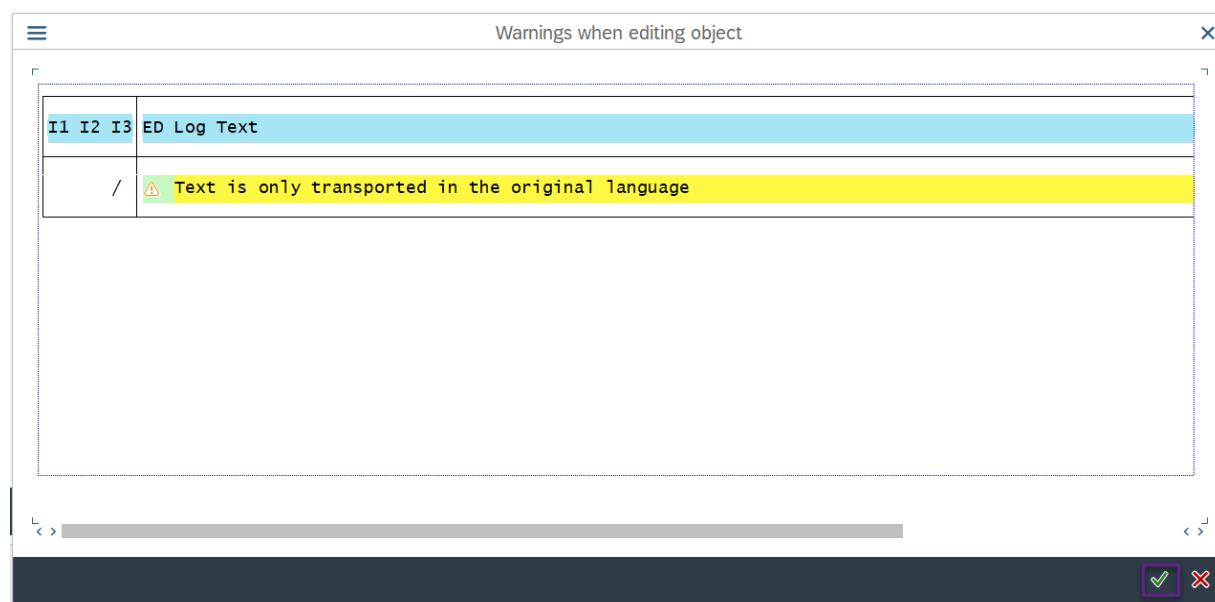
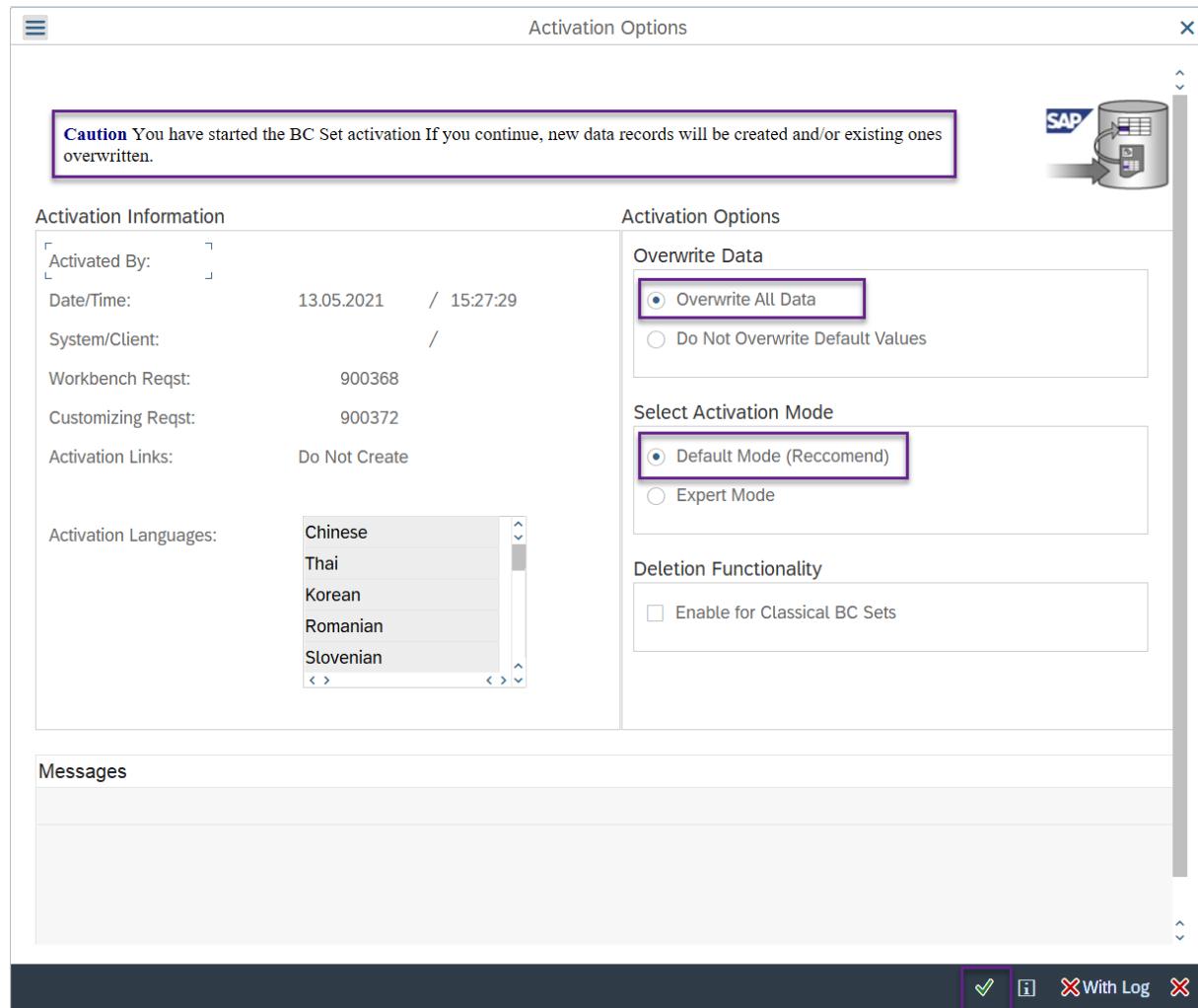
Short Description: Import GTT Standard APP configuration

Own Requests

3.3.4 Various activation options are available. Choose appropriate ones and click **Continue** to proceed with the activation.

The following message is displayed:

Caution You have started the BC Set activation If you continue, new data records will be created and/or existing ones overwritten."



3.3.5 BC Set is activated and BC set data is stored in the customization tables.



Activation ended with warning [View details](#)

3.3.6 Click **Activation Logs** to check the logs.

The screenshot shows two SAP application screens. The top screen is titled "Business Configuration Sets: Activation" and displays a search bar and toolbar. A dropdown menu shows "BC Set: ZGTT_CONF" highlighted. Below it, a "Short Text" field contains "GTT Standard APP Configuration". The bottom screen is titled "Business Configuration Sets: Activation Logs" and shows a detailed log for activation on 13.05.2021 at 15:27:29. The log lists various objects and their activation status, including BC sets like ZGTT_CONF and customizing objects like /SAPTRX/VC_AOTYPE_CTT and /SAPTRX/VC_ASFUNC_CTT. Most entries show successful activation, except for some where differences between BC set and table data were found.

| Type | BC Sets | Object | Message Text | Key Field | Infor... |
|------|-----------|-----------------------|---|-----------|----------|
| ■ | | | Main Activation Started | | |
| ■ | ZGTT_CONF | | User-defined languages are not installed in the system | | |
| ■ | ZGTT_CONF | /SAPTRX/VC_AOTYPE_CTT | BC Set ZGTT_CONF passed to activate | | |
| ■ | ZGTT_CONF | /SAPTRX/VC_ASFUNC_CTT | Customizing object /SAPTRX/VC_AOTYPE_CTT passed to activation | | |
| ■ | ZGTT_CONF | /SAPTRX/V_CTTSRV | Customizing object /SAPTRX/V_CTTSRV passed to activation | | |
| ■ | ZGTT_CONF | V_TBDLS | Customizing object V_TBDLS passed to activation | | |
| ■ | ZGTT_CONF | /SAPTRX/VC_ASFUNC_CTT | Not all data was activated in all languages in object /SAPTRX/VC_ASFUNC_CTT | | |
| ■ | ZGTT_CONF | /SAPTRX/VFUNC_A | No difference between BC set (activation) and table data | | |
| ■ | ZGTT_CONF | /SAPTRX/VFUNC_L | No difference between BC set (activation) and table data | | |
| ■ | ZGTT_CONF | /SAPTRX/VFUNC_B | No difference between BC set (activation) and table data | | |
| ■ | ZGTT_CONF | /SAPTRX/VFUNC_G | No difference between BC set (activation) and table data | | |
| ▲ | ZGTT_CONF | /SAPTRX/VC_ASFUNC_CTT | View /SAPTRX/VFUNC_H: View cluster /SAPTRX/VC_ASFUNC_CTT does not co... | | |
| ■ | ZGTT_CONF | /SAPTRX/VFUNC_D | No difference between BC set (activation) and table data | | |
| ■ | ZGTT_CONF | /SAPTRX/VFUNC_E | No difference between BC set (activation) and table data | | |
| ▲ | ZGTT_CONF | /SAPTRX/VC_ASFUNC_CTT | View /SAPTRX/VFUNC_F: View cluster /SAPTRX/VC_ASFUNC_CTT does not co... | | |

Tips:

- By default, the application log is activated for the imported configurations. If you want to stop recording the application log, refer to [Q8: How to deactivate or activate the application log?](#) for detailed instructions.
- When the system is upgraded to a new version, the BC set ZGTT_CONF might be missing. You must follow the steps outlined in this chapter to reactivate the BC set.

3.4 Define RFC Connection for SAP Business Network Global Track and Trace

3.4.1 Log on to the business client, enter T-code **SPRO** and then click **SAP Reference IMG** to open **Display IMG** page.

3.4.2 Click **Integration with Other SAP Components -> Interface to Global Track and Trace -> Define System Configuration**. Choose activity: **Define RFC Connection for SAP GTT**

3.4.3 Choose **HTTP Connections to External Server**, click **Create** to create a new RFC connection.

SAP Configuration of RFC Connections

Generate RFC Callback Allowlist Activate Non-Empty Allowlists Allowlist for Dynamic

● OO RFC callback check not secure

| RFC Connections | Type | PL Active | Comment |
|---------------------------------------|------|-----------|---------|
| > ABAP Connections | 3 | | |
| > HTTP Connections to External Server | G | | |
| > HTTP Connections to ABAP System | H | | |
| > Internal Connections | I | | |
| > Logical Connections | L | | |

3.4.4 Fill in the **Destination** and choose the **Connection Type**: “G-HTTP connection to external server”.

Create Destination

* Destination: GTT_APP_RFC

* Connection Type: G HTTP connection to external server

3.4.5 Enter a description. In the **Technical Settings** tab, fill in the **Host**, **Port** and **Path Prefix**.

For example, the URL of solution owners is as follows:

<https://xxxxxx.gtt-flp-lbnplatform.cfapps.eu10.hana.ondemand.com>

Host: xxxx.gtt-flp-lbnplatform.cfapps.eu10.hana.ondemand.com

Port: 443

Path Prefix: /api/idoc/em/v1/TrackedProcessAndEvent

The screenshot shows the SAP Fiori launchpad interface for configuring an RFC destination. The top navigation bar includes the SAP logo and the title "RFC Destination GTT_APP_RFC". Below the header, there are buttons for "Connection Test" and "More". The main configuration area has the following fields:

- RFC Destination:** GTT_APP_RFC
- Connection Type:** G (selected) - HTTP Connection to External Server
- Description:** (empty field)
- Description 1:** RFC for GTT Standard APP
- Description 2:** (empty field)
- Description 3:** (empty field)

At the bottom, there are tabs for "Administration", "Technical Settings" (which is highlighted with a purple border), "Logon & Security", and "Special Options". The "Target System Settings" section contains the following fields:

- Host:** (empty input field)
- Port:** 443
- Path Prefix:** /api/idoc/em/v1/TrackedProcessAndEvent (this field is also highlighted with a purple border)

3.4.6 In the **Logon & Security** tab, enter the Logon information.

For the basic authentication, the GTT technical user / password is needed. You can get this from your GTT administrator.

For more information about the technical user, please refer to "[Create a Technical User and Assign Role Collection](#)". Please be noted that the technical user must be maintained in "System Connections App", for more information, please refer to "[Maintain Technical User in the System Connections App](#)".

Also, SSL must be **Active**. The recommended SSL Certificate is: DEFAULT SSL Client (Standard).

SAP

RFC Destination GTT_APP_RFC

Connection Test More ▾

RFC Destination: **GTT_APP_RFC**

Connection Type: **G** HTTP Connection to External Server Description

Description

Description 1: RFC for GTT Standard APP

Description 2:

Description 3:

Administration Technical Settings **Logon & Security** Special Options

Logon Procedure

Logon with User

Do not use a user **OAuth Settings**

Basic authentication

User:

PW Status: **saved**

Logon with Ticket

Do not send logon ticket

Send ticket without reference to target system

Send assertion ticket for dedicated target system

System ID Client

Logon with MQTT/AMQP

User:

PW Status: **is initial**

Security Options

Status of Secure Protocol

SSL: Inactive Active

SSL Certificate: **DEFAULT SSL Client (Standard)** Cert. List

Do not use certificate for logon

3.4.7 Save the configuration.

3.4.8 Click **Connection Test** and check the HTTP status code in the **Test Result** tab:

- Status code “403” indicates the configuration is correct. No action is required.
- If the status code is “401” or a prompt window (as shown in the screenshot below) appears asking your username and password, there are three possibilities:

Enter Logon Data

Enter your user name and ID

Resource: []

User Name: []

Password: [REDACTED]

- The technical user may be locked (informed by an email received in the technical user's mailbox), you need to follow the steps in the email to unlock the technical user.
- Your username, password, or URL of **Host** and **Path Prefix** may be incorrect. You need to provide the correct ones.
- You may have used incorrect technical user in RFC connection. Use the valid one.
A valid technical user must meet the following requirements:
 - It can successfully sign in to the site <https://accounts.sap.com/ui/protected/profilemanagement> with its email and password.
 - The **User ID** of the technical user must start with "P", as shown in the following screenshot. You can check this after signing in. Regarding how to create a technical user, please refer to "[Create a Technical User and Assign Role Collection](#)".

SAP ID Service

Log Out

My Data

View Download

Profile

Personal Information

Company Information

Contact Preferences

User ID: P200

3.5 Define Ports

3.5.1 In Display IMG page, click **Integration with Other SAP Components -> Interface to Global Track and Trace -> IDoc Settings**. Choose activity **Define Ports**.

3.5.2 Choose **XML HTTP** folder, and click **Create** to create a new port **GTTAPPOR**.

3.5.3 Fill in the **RFC Destination**.

3.5.4 Choose **Content Type** as *application/x-sap.idoc*

3.5.5 Choose **HTTP Version** as Version 1.0. Mark it as SOAP Protocol.

The screenshot shows the SAP Fiori interface for configuring ports in IDoc processing. The left sidebar lists various port types: Ports, Transactional RFC, File, ABAP-PI, XML File, and XML HTTP. Under XML HTTP, the port 'GTTAPPPORT' is selected, highlighted with a purple border. The right panel displays the configuration details for this port:

- Port:** GTTAPPPORT
- Description:** Port for GTT Standard APP
- RFC Destination:** GTT_APP_RFC
- Content Type:** application/x-sap.idoc (selected)
- HTTP Version:** Version 1.0 (selected)
- SOAP Protocol:** (checkbox checked)
- Port Options:** A table with two rows:

| Description | Value |
|--|--------------------------|
| No Initial Values for DATS, TIMS, NUMC for Alignment | <input type="checkbox"/> |
| Send Dynamic Enhancement Segments | <input type="checkbox"/> |

3.5.6 Save the configuration.

3.6 Define Partner Profiles

3.6.1 In Display IMG page, unfold Integration with Other SAP Components -> Interface to Global Track and Trace -> IDoc Settings. Choose activity Define Partner Profiles.

3.6.2 Choose Partner Type LS folder, and click Create to create a new partner profile.

Partner profiles

Partner

Description

Partner No.:

Type:

Post Processing: Valid Processors Classification Telephony

Ty.: Processor: Lang.:

Partner No.: GTTAPPLOGS Logical System for GTT Standard APP

Type: LS Logical system

Outbound

3.6.3 Fill in the Partner No. that you created and fill in the Processor information.

Post Processing: Valid Processors Classification Telephony

Ty.: Processor: Lang.:

Outbound

| Partner Role | Message Type | Message Variant | Function | Test | Receiver Port | I... | Pac... | Basic Type |
|-----------------------|--------------|-----------------|----------|--------------------------|---------------|------|--------|------------|
| <input type="radio"/> | | | | <input type="checkbox"/> | | | | |
| <input type="radio"/> | | | | <input type="checkbox"/> | | | | |
| <input type="radio"/> | | | | <input type="checkbox"/> | | | | |

3.6.4 Click Add under Outbound box to create a new outbound parameter.

Post Processing: Valid Processors Classification Telephony

Ty.: Processor: Lang.:

Outbound

| Partner Role | Message Type | Message Variant | Function | Test | Receiver Port | I... | Pac... | Basic Type |
|-----------------------|--------------|-----------------|----------|--------------------------|---------------|------|--------|------------|
| <input type="radio"/> | | | | <input type="checkbox"/> | | | | |
| <input type="radio"/> | | | | <input type="checkbox"/> | | | | |
| <input type="radio"/> | | | | <input type="checkbox"/> | | | | |

3.6.5 Fill in the Message Type GTTMSG and Fill in the Receiver Port that you created in [3.5](#).

The screenshot shows the SAP Fiori interface for configuring Partner profiles: Outbound parameters. The page title is "Partner profiles: Outbound parameters". The main content area displays the configuration for a partner profile:

- Partner No.:** GTTAPPLOGS (Logical System for GTT Standard APP)
- Type:** LS (Logical system)
- Partner Role:** (empty field)
- Message Type:** GTTMSG (highlighted with a purple border)
- Message Code:** (empty field)
- Message Function:** (empty field) Test

Below the main configuration, there are several tabs:

- Outbound Options** (selected)
- Message Control**
- Post Processing: Valid Processors**
- Telephony**
- EDI Standard**

In the **Outbound Options** section, the following fields are visible:

- Receiver Port:** GTTAPPOR (highlighted with a purple border)
- Pack. Size:** 0
- Queue Processing

In the **Output Mode** section, the following fields are visible:

- Pass IDoc Immediately
- Collect IDocs
- Output Mode:** 2

In the **IDoc Type** section, the following fields are visible:

- Basic Type:** GTTMSG01 (highlighted with a purple border)
- Extension:** (empty field)
- View:** (empty field)
- Cancel Processing After Syntax Error
- Seg. release in IDoc type:** (empty field)
- Application Release:** (empty field)

3.6.6 Save the configuration.

3.7 Maintain AOT Type Restriction for Cross-Processes

The following entries should be maintained in transaction “ZGTT_AOTYPE_RST - AOT Types Restrictions” for Cross-Processes tracking scenario.

| Restr.ID | Restr.Pos | Option | Sign | Application Obj.Type |
|-----------------|------------------|---------------|-------------|-----------------------------|
| FU_TO_IDLH | 001 | Equal To | Include | GTT_IDLV_HD |
| FU_TO_IDLI | 001 | Equal To | Include | GTT_IDLV_IT |
| SH_TO_IDLH | 001 | Equal To | Include | GTT_IDLV_HD |
| SH_TO_IDLI | 001 | Equal To | Include | GTT_IDLV_IT |
| DL_TO_POIT | 001 | Equal To | Include | GTT_PO_IT |
| DL_TO_SOIT | 001 | Equal To | Include | GTT_SO_IT |
| SH_TO_ODLH | 001 | Equal To | Include | GTT_ODLV_HD |
| FU_TO_ODLH | 001 | Equal To | Include | GTT_ODLV_HD |
| FU_TO_ODLI | 001 | Equal To | Include | GTT_ODLV_IT |
| DL_TO_POHD | 001 | Equal To | Include | GTT_PO_HD |
| DL_TO_SOHD | 001 | Equal To | Include | GTT_SO_HD |

3.8 Maintain Event Type Restriction for Cross-Processes

The following entry should be maintained in transaction “ZGTT_EVTYPE_RST – Event Types Restrictions” for Cross-Processes tracking scenario.

| Restr.ID | Restr.Pos | Option | Sign | Event Type |
|-----------------|------------------|---------------|-------------|-------------------|
| DL_TO_POIT | 001 | Equal To | Include | GTT_EVT_PO_IT_CF |

3.9 Maintain Sales Order Types that will be sent to SAP Business Network Global Track and Trace

Maintain the sales order type that you want to send to SAP Business Network Global Track and Trace via transaction “ZGTT_SOTYPE_RST - GTT Sales Doc Type Configuration”, then mark it as active.

For example:

| Sales Document Type | Active |
|----------------------------|---------------|
| ZGTT | X |

3.10 Maintain Delivery Types that will be sent to SAP Business Network Global Track and Trace

Maintain the outbound and inbound delivery type that you want to send to SAP Business Network Global Track and Trace via transaction "ZGTT_DLVTYPE_RST - GTT Delivery Type Configuration", then mark it as active.

For example:

| Delivery Type | Active |
|---------------|--------|
| LBNP | X |
| EL | X |

3.11 Maintain Purchase Order Types that will be sent to SAP Business Network Global Track and Trace

Maintain the purchase order type that you want to send to SAP Business Network Global Track and Trace via transaction "ZGTT_POTYPE_RST - GTT Purchase Doc Type Configuration", then mark it as active.

For example:

| Purchasing Document Type | Active |
|--------------------------|--------|
| NB | X |

3.12 TM Configurations

You must do the following configurations in TM in SAP S/4HANA to ensure the following documents can be sent to Global Track and Trace:

- freight unit
- freight order
- freight booking

Procedure

1. Adjust the integration with TM in SAP S/4HANA and SAP EM. The Post Processing Framework (PPF) is used to trigger the communication from SAP Transportation Management (SAP TM) to SAP Event Management (SAP EM). You need to maintain the output management adapter for this communication to work.
 - a. Log onto SAP, enter T-code **SPRO** and then click **SAP Reference IMG** to open the **Display IMG** page. Go to **Cross-Application Components -> Processes and Tools for Enterprise Applications -> Reusable Objects and Functions for BOPF Environment -> PPF Adapter for Output Management -> Maintain Output Management Adapter Settings**.
 - b. In the **Dialog Structure** section, choose **Direct Output Agents (w/o PPF & w/o History)**.
 - c. Choose the following entry and enable it.
 - Business Object: /SCMTMS/TOR
 - Node: ROOT
 - Agent Name: SEND_EM_DATA_FROM_TOR
 - d. Choose **Synch/Asynch** with value "Has Critical o/p: Process during Save - before Commit". (As described in note 1842397, the Synch/Asynch setting has to be set to "Has Critical o/p: Process during Save - before Commit" in order to use the before image data in the BAdI implementations.)
 - e. In the **Dialog Structure** section, choose **Nodes for Before Image**.

f. Create the following entries:

| Business Object | Node | Sub Node Name |
|------------------------|-------------|-------------------------|
| /SCMTMS/TOR | ROOT | EXECUTIONINFORMATION |
| /SCMTMS/TOR | ROOT | ITEM_TR |
| /SCMTMS/TOR | ROOT | STOP |
| /SCMTMS/TOR | ROOT | STOP_SUCCESSOR |
| /SCMTMS/TOR | ROOT | DOCREFERENCE |
| /SCMTMS/TOR | ROOT | EXECUTIONINFORMATION_TR |
| /SCMTMS/TXC | ROOT | TEXT |
| /SCMTMS/TXC | TEXT | TEXT_CONTENT |

2. Adjust document type settings.

Note

Adjust the value of **Appl.Obj.Type** of these document types to ensure it's consistent with the following fields:

- **Appl.Obj.Type** field in **IMG -> Integration with Other SAP Components - > Interface to Global Track and Trace -> Define Application Interface -> Define Used Business Process Types, Appl. Object Types and Event Types - > Business Process Type TMS_TOR -> Define Application Object Types -> Interface to Global Track and Trace**
- **Application Object Type** field in the "gttft1" model (under the tab IDOC Integration) of the **Manage Models** app.

a. Adjust freight unit type settings.

- i. On the IMG, go to **Transportation Management -> Planning -> Freight Unit -> Define Freight Unit Types**
- ii. In the table, open the applicable freight unit type to be tracked with SAP Event Management.
- iii. In the **Integration Settings**, fill in the **Application Obj.Type** field with value "**GTT_FU**".
- iv. In the **Execution Settings**, the **Execution Tracking Relevance** field is set to "Execution Tracking with External Event Management".

b. Adjust freight order type settings.

- i. On the IMG, go to **Transportation Management -> Freight Order Management -> Freight Order -> Define Freight Order Types**
- ii. In the table, open the applicable freight order type to be tracked with SAP Event Management.
- iii. In the **Integration Settings**, fill in the **Application Obj.Type** field with value **GTT_SHP_HD**.
- iv. In the **Execution Settings**, the **Execution Tracking Relevance** field is set to "Execution Tracking with External Event Management".

c. Adjust the freight booking type settings.

- i. On the IMG, go to **Transportation Management -> Freight Booking Management -> Freight Booking -> Define Freight Booking Types**
- ii. In the table, open the applicable freight booking type to be tracked with SAP Event Management

- iii. In the Integration Settings, fill in the **Application Obj.Type** field with value **GTT_SHP_HD**.
- iv. In the **Execution Settings**, the **Execution Tracking Relevance** field is set to "Execution Tracking with External Event Management"

4. SAP S/4HANA INTEGRATION CONFIGURATION OPTION 2 (MANUAL CONFIGURATION)

4.1 Define RFC Connection for SAP Business Network Global Track and Trace

4.1.1 Log on to the business client, enter T-code **SPRO** and then click **SAP Reference IMG** to open **Display IMG** page.

4.1.2 Click **Integration with Other SAP Components -> Interface to Global Track and Trace -> Define System Configuration**. Choose activity: **Define RFC Connection for SAP GTT**

4.1.3 Choose **HTTP Connections to External Server**. Click **Create** to create a new RFC connection.

The screenshot shows the SAP Reference IMG interface with the title 'Configuration of RFC Connections'. Below the title, there are three buttons: 'Generate RFC Callback Allowlist', 'Activate Non-Empty Allowlists', and 'Allowlist for Dynamic'. A note at the top states 'RFC callback check not secure'. Below these buttons are icons for refresh, search, create (highlighted with a purple border), edit, and delete. A table titled 'RFC Connections' lists several connection types with their corresponding Type codes (3, G, H, I, L) and PL Active status. The 'HTTP Connections to External Server' row is also highlighted with a purple border.

| RFC Connections | Type | PL Active | Comment |
|---------------------------------------|------|-----------|---------|
| > ABAP Connections | 3 | | |
| > HTTP Connections to External Server | G | | |
| > HTTP Connections to ABAP System | H | | |
| > Internal Connections | I | | |
| > Logical Connections | L | | |

4.1.4 Fill in the **Destination** and choose the **Connection Type**: 'G-HTTP connection to external server'.

The screenshot shows the 'Create Destination' dialog box. It has fields for 'Destination' (containing 'GTT_APP_RFC') and 'Connection Type' (set to 'G HTTP connection to external server'). At the bottom are two buttons: a green checkmark and a red X.

4.1.5 Enter a description. In the **Technical Settings** tab, fill in the **Host**, **Port** and **Path Prefix**.

For example, the URL of solution owners is as follows:

<https://xxxxxx.gtt-flp-lbnplatform.cfapps.eu10.hana.ondemand.com>

Host: xxxx.gtt-flp-lbnplatform.cfapps.eu10.hana.ondemand.com

Port: 443

Path Prefix: /api/idoc/em/v1/TrackedProcessAndEvent

The screenshot shows a SAP Fiori application interface for configuring an RFC destination. The top navigation bar includes a SAP logo and a back arrow. The title is "RFC Destination GTT_APP_RFC". Below the title are buttons for "Connection Test" and "More". The main area starts with "RFC Destination: GTT_APP_RFC". Under "Connection Type", "G HTTP Connection to External Server" is selected. A "Description" section contains three input fields: "Description 1: RFC for GTT Standard APP", "Description 2:", and "Description 3:". At the bottom, tabs for "Administration", "Technical Settings" (which is highlighted with a purple border), "Logon & Security", and "Special Options" are visible. A "Target System Settings" section contains fields for "Host:" (with value "xxxxxx.gtt-flp-lbnplatform.cfapps.eu10.hana.ondemand.com") and "Port:" (with value "443"). The "Path Prefix:" field (with value "/api/idoc/em/v1/TrackedProcessAndEvent") is also highlighted with a purple border.

4.1.6 In the **Logon & Security** tab, enter the Logon information.

For the basic authentication, the GTT technical user / password is needed. You can get this from your GTT administrator.

For more information about the technical user, please refer to "[Create a Technical User and Assign Role Collection](#)". Please be noted that the technical user must be maintained in "System Connections App", for more information, please refer to "[Maintain Technical User in the System Connections App](#)".

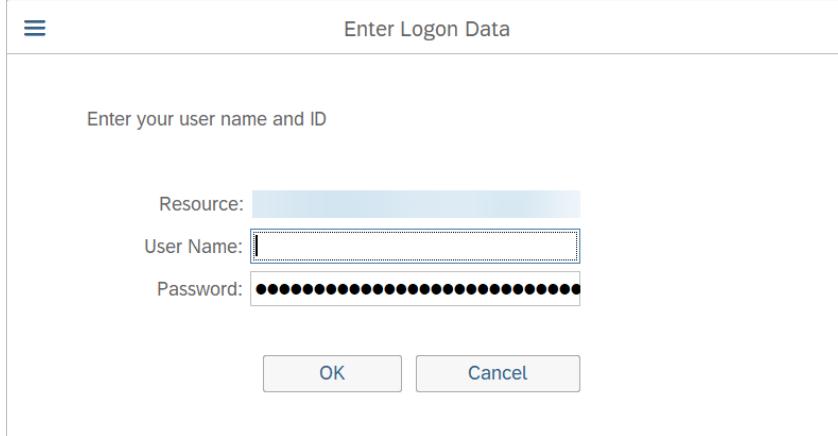
Also, SSL must be **Active**. The recommended SSL Certificate is: DEFAULT SSL Client (Standard).

The screenshot shows the SAP Fiori interface for configuring an RFC destination. The top navigation bar includes a back arrow, the SAP logo, and the title "RFC Destination GTT_APP_RFC". Below the title are buttons for "Connection Test" and "More". The main configuration area has fields for "RFC Destination" (set to "GTT_APP_RFC") and "Connection Type" (set to "HTTP Connection to External Server"). A "Description" section contains three text input fields: "Description 1" (RFC for GTT Standard APP), "Description 2", and "Description 3". Below this is a navigation bar with tabs: "Administration", "Technical Settings", "Logon & Security" (which is highlighted with a purple border), and "Special Options". The "Logon & Security" tab is expanded to show the "Logon Procedure" section. This section includes "Logon with User" (with "Basic authentication" selected) and "Logon with Ticket" (with "Do not send logon ticket" selected). It also includes a "System ID" field with "Client" selected. The "Logon with MQTT/AMQP" section shows a "User" field and a "PW Status" field containing "is initial". The "Security Options" section includes a "Status of Secure Protocol" field where "SSL" is set to "Active" and the "SSL Certificate" is set to "DEFAULT SSL Client (Standard)". There is also a checkbox for "Do not use certificate for logon".

4.1.7 Save the configuration.

4.1.8 Click **Connection Test** and check the HTTP status code in the **Test Result** tab:

- Status code “403” indicates the configuration is correct. No action is required.
- If the status code is “401” or a prompt window (as shown in the screenshot below) appears asking your username and password, there are three possibilities:



- The technical user may be locked (informed by an email received in the technical user's mailbox), you need to follow the steps in the email to unlock the technical user.
- Your username, password, or URL of **Host** and **Path Prefix** may be incorrect. You need to provide the correct ones.
- You may have used incorrect technical user in RFC connection. Use the valid one.
A valid technical user must meet the following requirements:
 - It can successfully sign in to the site <https://accounts.sap.com/ui/protected/profilemanagement> with its email and password.
 - The **User ID** of the technical user must start with “P”, as shown in the following screenshot. You can check this after signing in. Regarding how to create a technical user, please refer to “[Create a Technical User and Assign Role Collection](#)”.

A screenshot of the SAP ID Service profile management interface. The URL in the browser is https://accounts.sap.com/ui/protected/profilemanagement. The page has a header with the SAP logo and 'Log Out'. On the left, there's a profile picture with 'AG' and a 'Profile' section. The main area is divided into several sections: 'Personal Information' (First Name, Last Name, Email - showing 'gtt@... .com' with a green 'Verified' badge, Login Name, Display Name, User ID - showing 'P200'), 'Company Information' (Company Country/Region - China, Company City - empty), and 'Contact Preferences' (By email, By telephone). Buttons for 'Edit' are available in each section.

4.2 Define Logical System

4.2.1 In Display IMG page, click **Integration with Other SAP Components** -> **Interface to Global Track and Trace** -> **Define System Configuration**. Choose activity **Define Logical System**.

4.2.2 Create **New Entries** to create a new Logical System, fill in the Logical System code and Name of the new logical system.

| Log.System | Name |
|------------|-------------------------------------|
| GTAPPLOGS | Logical System for GTT Standard APP |

4.2.3 Save the configuration.

4.3 Define Ports

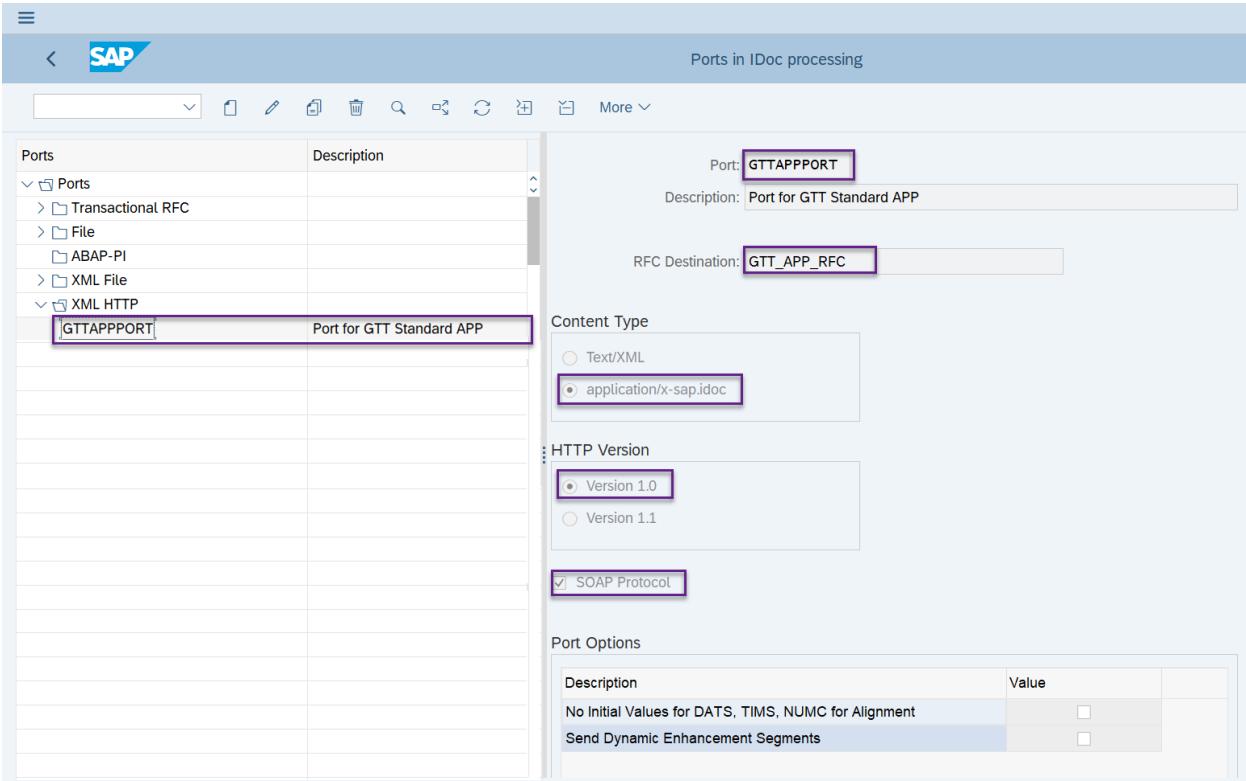
4.3.1 In Display IMG page, click **Integration with Other SAP Components -> Interface to Global Track and Trace -> IDoc Settings**. Choose activity **Define Ports**.

4.3.2 Choose **XML HTTP** folder, and click **Create** to create a new port **GTTAPPPORT**.

4.3.3 Fill in the **RFC Destination**.

4.3.4 Choose **Content Type** as *application/x-sap.idoc*

4.3.5 Choose **HTTP Version** as Version 1.0. Mark it as **SOAP Protocol**.



4.3.6 Save the configuration.

4.4 Define Partner Profiles

4.4.1 In Display IMG page, unfold **Integration with Other SAP Components** -> **Interface to Global Track and Trace** -> **IDoc Settings**. Choose activity **Define Partner Profiles**.

4.4.2 Choose **Partner Type LS** folder, and click **Create** to create a new partner profile.

Partner profiles

| Partner | Description |
|------------------------|-------------------|
| Partner Profiles | |
| Partner Type AD | |
| Partner Type B | Bank |
| Partner Type BP | Benefits provider |
| Partner Type GP | Business Partner |
| Partner Type KU | Customer |
| Partner Type LI | Vendor |
| Partner Type LS | Logical system |
| Partner Type US | User |

Post Processing: Valid Processors Classification

Partner No.:
Type:
Ty.:
Processor:
Lang.:

4.4.3 Fill in the **Partner No.** that you created and fill in the **Processor** information.

Logical System for GTT Standard APP
Logical system

Post Processing: Valid Processors Classification Telephony

Partner No.: **GTTAPPLOGS** Logical System for GTT Standard APP
Type: **LS** Logical system

Ty.: **US** User
Processor:
Lang.: **EN** English

Outbound

| Partner Role | Message Type | Message Variant | Function | Test | Receiver Port | I... | Pac... | Basic Type |
|-----------------------|--------------|-----------------|----------|--------------------------|---------------|------|--------|------------|
| <input type="radio"/> | | | | <input type="checkbox"/> | | | | |
| <input type="radio"/> | | | | <input type="checkbox"/> | | | | |
| <input type="radio"/> | | | | <input type="checkbox"/> | | | | |

4.4.4 Click **Add** under the **Outbound** box to create a new outbound parameter.

Partner No.: **GTTAPPLOGS** Logical System for GTT Standard APP
Type: **LS** Logical system

Post Processing: Valid Processors Classification Telephony

Ty.: **US** User
Processor:
Lang.: **EN** English

Outbound

| Partner Role | Message Type | Message Variant | Function | Test | Receiver Port | I... | Pac... | Basic Type |
|--------------|--------------|-----------------|----------|--------------------------|---------------|---------|---------|------------|
| (empty) | (empty) | (empty) | (empty) | <input type="checkbox"/> | (empty) | (empty) | (empty) | (empty) |
| (empty) | (empty) | (empty) | (empty) | <input type="checkbox"/> | (empty) | (empty) | (empty) | (empty) |
| (empty) | (empty) | (empty) | (empty) | <input type="checkbox"/> | (empty) | (empty) | (empty) | (empty) |

+ Add

4.4.5 Fill in the Message Type GTTMSG and Fill in the Receiver Port that you created in [4.3](#).

Partner profiles: Outbound parameters

Partner No.: **GTTAPPLOGS** Logical System for GTT Standard APP
Type: **LS** Logical system
Partner Role:

Message Type: **GTTMSG**
Message Code:
Message Function: Test

Outbound Options Message Control Post Processing: Valid Processors Telephony EDI Standard

Receiver Port: **GTTAPPOR** Port for GTT Standard APP
Pack. Size: **0**
 Queue Processing

Output Mode
 Pass IDoc Immediately Output Mode: **2**
 Collect IDocs

IDoc Type
Basic Type: **GTTMSG01** LBN-TT: Process and Event Posting
Extension:
View:
 Cancel Processing After Syntax Error
Seg. release in IDoc type: Application Release:

4.4.6 Save the configuration.

4.5 Define CI tenant for SAP Business Network Global Track and Trace

4.5.1 In Display IMG page, click **Integration with Other SAP Components -> Interface to Global Track and Trace -> Define Application Interface**.

Choose activity **Define CI Tenant for SAP GTT**.

4.5.2 Click **New Entries** to create a new CI tenant for SAP Business Network Global Track and Trace, fill in the information for the new CI tenant. The **CI Log. System** is the logical system you created in [4.2](#).

The first screenshot shows the 'Change View "SAP Global Track & Trace Definitions": Overview' screen. A purple box highlights the 'New Entries' button in the top navigation bar. The second screenshot shows the 'Display View "SAP Global Track & Trace Definitions": Overview' screen, where a new entry 'GTTAPPLOGS' has been created. The 'Description' column for this entry contains the text 'CI Tenant for GTT Standard APP'.

4.6 Define GTT Extraction Functions

Prerequisite:

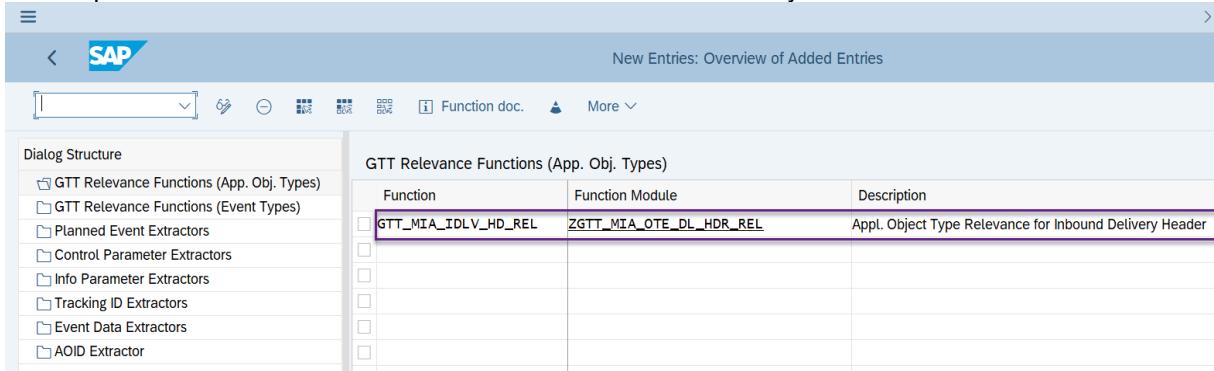
You have already installed ABAPGit and downloaded the code of Fulfillment Tracking apps in your development system.

4.6.1 In Display IMG page, click **Integration with Other SAP Components -> Interface to Global Track and Trace -> Define Application Interface**. Choose activity **Define SAP GTT Extraction Functions**.

4.6.2 Choose the type of extraction function you want to create from the **Dialog Structure**, and click **New entries**.

The screenshot shows the 'Change View "GTT Relevance Functions (App. Obj. Types)": Overview' screen. A purple box highlights the 'New entries' button in the top navigation bar. On the left, the 'Dialog Structure' sidebar lists several categories under 'GTT Relevance Functions (App. Obj. Types)'. The 'Function' table on the right is currently empty, showing columns for 'Function', 'Function Module', and 'Description'.

4.6.3 Input the **Function** name and **Function Module** for the newly created extraction function.



4.6.4 Click **Save**.

Hint:

After completing the configuration of 'Define GTT Extraction Functions', the configuration should be as follows:

| Category | Extractor | Function Module Name | Description |
|------------------------------|---------------------|-----------------------|---|
| Control Parameter Extractors | GTT_MIA_IDLV_HD_OTE | ZGTT_MIA_OTE_DL_HDR | Control Parameter Extractor for Inbound Delivery Header |
| | GTT_MIA_IDLV_IT_OTE | ZGTT_MIA_OTE_DL_ITEM | Control Parameter Extractor for Inbound Delivery Item |
| | GTT_MIA_SHP_HD_OTE | ZGTT_MIA_OTE_SH_HDR | Control Parameter Extractor for Shipment Header |
| | GTT_TS_FO_HD_OTE | ZGTT_STS_OTE_FO_HDR | Control Parameter Extractor for Freight Order and Freight Booking |
| | GTT_TS_FU_HD_OTE | ZGTT_STS_OTE_FO_HDR | Control Parameter Extractor for Freight Unit |
| | GTT_POF_PO_HD_OTE | ZGTT_SPOF_OTE_PO_HDR | Control Parameter Extractor for Purchase Order Header |
| | GTT_POF_PO_IT_OTE | ZGTT_SPOF_OTE_PO_ITM | Control Parameter Extractor for Purchase Order Item |
| | GTT_SOF_SO_HD_OTE | ZGTT_SSOF_OTE_SO_HD | Control Parameter Extractor for Sales Order Header |
| | GTT_SOF_SO_IT_OTE | ZGTT_SSOF_OTE_SO_ITEM | Control Parameter Extractor for Sales Order Item |
| | GTT_SOF_ODLV_HD_OTE | ZGTT_SSOF_OTE_DE_HD | Control Parameter Extractor for Outbound Delivery Header |
| | GTT_SOF_ODLV_IT_OTE | ZGTT_SSOF_OTE_DE_ITEM | Control Parameter Extractor for Outbound Delivery Item |
| Event Data Extractors | GTT_MIA_IDLV_HD_GR | ZGTT_MIA_EE_DL_HDR_GR | Actual event Inbound Delivery Header Goods Receipt |

| | | | |
|--------------------------|----------------------|-----------------------------|---|
| | GTT_MIA_IDLV_IT_PA | ZGTT_MIA_EE_DL_ITEM_PA | Actual event Inbound Delivery Item Put Away |
| | GTT_MIA_IDLV_IT_PKNG | ZGTT_MIA_EE_DL_ITEM_PKNG | Actual event Inbound Delivery Item Packing |
| | GTT_MIA_SHP_HD_ARR | ZGTT_MIA_EE_SH_HDR_ARR | Actual event Shipment Header Arrival |
| | GTT_MIA_SHP_HD_CI | ZGTT_MIA_EE_SH_HDR_CI | Actual event Shipment Header Check In |
| | GTT_MIA_SHP_HD_DEP | ZGTT_MIA_EE_SH_HDR_DEP | Actual event Shipment Header Departure |
| | GTT_MIA_SHP_HD_LE | ZGTT_MIA_EE_SH_HDR_LE | Actual event Shipment Header Load End |
| | GTT_MIA_SHP_HD_LS | ZGTT_MIA_EE_SH_HDR_LS | Actual event Shipment Header Load Start |
| | GTT_TS_TOR_ARRIVAL | ZGTT_STS_EE_FO_ARRIVAL | Actual Event FO/FB/FU Proof of Arrival |
| | GTT_TS_TOR_COUPLING | ZGTT_STS_EE_FO_COUPLING | Actual Event FO/FB/FU Coupling |
| | GTT_TS_TOR_DECOUPL | ZGTT_STS_EE_FO_DECOUPLING | Actual Event FO/FB/FU Decoupling |
| | GTT_TS_TOR_DELAY | ZGTT_STS_EE_FO_DELAY | Actual Event FO/FB/FU Delay |
| | GTT_TS_TOR_DEPART | ZGTT_STS_EE_FO_DEPARTURE | Actual Event FO/FB/FU Proof of Departure |
| | GTT_TS_TOR_FU_DELAY | ZGTT_STS_EE_FU_DELAY | Actual Event FO/FB/FU Delay |
| | GTT_TS_TOR_LOAD_END | ZGTT_STS_EE_FO_LOAD_END | Actual Event FO/FB/FU Loading End |
| | GTT_TS_TOR_LOAD_STR | ZGTT_STS_EE_FO_LOAD_START | Actual Event FO/FB/FU Loading Start |
| | GTT_TS_TOR_POD | ZGTT_STS_EE_FO_POD | Actual Event FO/FB/FU Proof of Delivery |
| | GTT_TS_TOR_POPU | ZGTT_STS_EE_FO_POPU | Actual Event FO/FB/FU Proof of Pick-Up |
| | GTT_TS_TOR_UNLD_END | ZGTT_STS_EE_FO_UNLOAD_END | Actual Event FO/FB/FU Unloading End |
| | GTT_TS_TOR_UNLD_STR | ZGTT_STS_EE_FO_UNLOAD_START | Actual Event FO/FB/FU Unloading Start |
| | GTT_POF_PO_IT_CF | ZGTT_SPOF_EE_PO_ITM_CONF | Actual Event PO Item Confirmation |
| | GTT_POF_PO_IT_DE | ZGTT_SPOF_EE_PO_ITM_DEL | Actual Event PO Item Deletion |
| | GTT_POF_PO_IT_GR | ZGTT_SPOF_EE_PO_ITM_GR | Actual Event PO Item Goods Receipt |
| | GTT_SOF_ODLV_GI | ZGTT_SSOF_EE_DE_GI | Actual Event of Outbound Delivery Goods Issue |
| | GTT_SOF_ODLV_IT_PA | ZGTT_SSOF_EE_DE_PACKING | Actual Event Outbound Delivery Packing |
| | GTT_SOF_ODLV_IT_PI | ZGTT_SSOF_EE_DE_PICKING | Actual Event Outbound Delivery Picking |
| | GTT_SOF_ODLV_IT_POD | ZGTT_SSOF_EE_DE_POD | Actual Event Outbound Delivery POD |
| Planned Event Extractors | GTT_MIA_IDLV_HD_EE | ZGTT_MIA_EE_DL_HDR | Selection of EEs for Inbound Delivery Header |
| | GTT_MIA_IDLV_IT_EE | ZGTT_MIA_EE_DL_ITEM | Selection of EEs for Inbound Delivery Item |

| | | | |
|-------------------------------|---------------------|------------------------------|---|
| | GTT_MIA_SHP_HD_EE | ZGTT_MIA_EE_SH_HDR | Selection of EEs for Shipment Header |
| | GTT_TS_FO_HD_EE | ZGTT_STS_EE_FO_HDR | Selection of EEs for FO/FB Header |
| | GTT_TS_FU_HD_EE | ZGTT_STS_EE_FO_HDR | Selection of EEs for FU Header |
| | GTT_POF_PO_HD_EE | ZGTT_SPOF_EE_PO_HDR | Selection of EEs for Purchase Order Header |
| | GTT_POF_PO_IT_EE | ZGTT_SPOF_EE_PO_ITM | Selection of EEs for Purchase Order Item |
| | GTT_SOF_SO_HD_EE | ZGTT_SSOF_EE_SO_HD | Selection of EEs for Sales Order Header |
| | GTT_SOF_SO_IT_EE | ZGTT_SSOF_EE_SO_ITM | Selection of EEs for Sales Order Item |
| | GTT_SOF_ODLV_HD_EE | ZGTT_SSOF_EE_DE_HD | Selection of EEs for Outbound Delivery Header |
| | GTT_SOF_ODLV_IT_EE | ZGTT_SSOF_EE_DE_ITM | Selection of EEs for Outbound Delivery Item |
| | | | |
| Tracking ID Extractors | GTT_MIA_IDLV_HD_TID | ZGTT_MIA_OTE_DL_HDR_TID | Tracking ID Extractor for Inbound Delivery Header |
| | GTT_MIA_IDLV_IT_TID | ZGTT_MIA_OTE_DL_ITEM_TID | Tracking ID Extractor for Inbound Delivery Item |
| | GTT_MIA_SHP_HD_TID | ZGTT_MIA_OTE_SH_HDR_TID | Tracking ID Extractor for Shipment Header |
| | GTT_TS_FO_HD_TID | ZGTT_STS_OTE_FO_HEADER_TID | Tracking ID Extractor for Freight Order and Freight Booking |
| | GTT_TS_FU_HD_TID | ZGTT_STS_OTE_FO_HEADER_TID | Tracking ID Extractor for Freight Unit |
| | GTT_POF_PO_HD_TID | ZGTT_SPOF_OTE_PO_HDR_TID | Tracking ID Extractor for Purchase Order Header |
| | GTT_POF_PO_IT_TID | ZGTT_SPOF_OTE_PO_ITM_TID | Tracking ID Extractor for Purchase Order Item |
| | GTT_SOF_SO_HD_TID | ZGTT_SSOF_TRACKID_OTE_SOHDR | Tracking ID Extractor for Sales Order Header |
| | GTT_SOF_SO_IT_TID | ZGTT_SSOF_TRACKID_OTE_SOITEM | Tracking ID Extractor for Sales Order Item |
| | GTT_SOF_ODLV_HD_TID | ZGTT_SSOF_TRACKID_OTE_DEHDR | Tracking ID Extractor for Outbound Delivery Header |
| GTT relevance function of AOT | GTT_SOF_ODLV_IT_TID | ZGTT_SSOF_TRACKID_OTE_DEITEM | Tracking ID Extractor for Outbound Delivery Item |
| | GTT_MIA_IDLV_HD_REL | ZGTT_MIA_OTE_DL_HDR_REL | Appl. Object Type Relevance for Inbound Delivery Header |
| | GTT_MIA_IDLV_IT_REL | ZGTT_MIA_OTE_DL_ITEM_REL | Appl. Object Type Relevance for Inbound Delivery Item |
| | GTT_MIA_SHP_HD_REL | ZGTT_MIA_OTE_SH_HDR_REL | Appl. Object Type Relevance for Shipment Header |

| | | | |
|---|----------------------|-------------------------------|---|
| | GTT_TS_FO_HD_REL | ZGTT_STS_OTE_FO_HDR_REL | Appl. Object Type Relevance for FO/FB Header |
| | GTT_TS_FU_HD_REL | ZGTT_STS_OTE_FO_HDR_REL | Appl. Object Type Relevance for FU Header |
| | GTT_POF_PO_HD_REL | ZGTT_SPOF_OTE_PO_HDR_REL | Appl. Object Type Relevance for Purchasing Order Header |
| | GTT_POF_PO_IT_REL | ZGTT_SPOF_OTE_PO_ITM_REL | Appl. Object Type Relevance for Purchasing Order Item |
| | GTT_SOF_SO_HD_REL | ZGTT_SSOF_OTE_SO_HDR_REL | Appl. Object Type Relevance for Sales Order Header |
| | GTT_SOF_SO_IT_REL | ZGTT_SSOF_OTE_SO_ITM_REL | Appl. Object Type Relevance for Sales Order Items |
| | GTT_SOF_ODLV_HD_REL | ZGTT_SSOF_OTE_DE_HDR_REL | Appl. Object Type Relevance for Outbound Delivery Header |
| | GTT_SOF_ODLV_IT_REL | ZGTT_SSOF_OTE_DE_ITM_REL | Appl. Object Type Relevance for Outbound Delivery Items |
| GTT relevance function of Event Type | GTT_MIA_IDLV_HD_GR | ZGTT_MIA_EE_DL_HDR_GR_REL | Relevance function for Actual event Delivery Header Goods Receipt |
| | GTT_MIA_IDLV_IT_PA | ZGTT_MIA_EE_DL_ITEM_PA_REL | Relevance function for Actual event Delivery Item Put Away |
| | GTT_MIA_IDLV_IT_PKNG | ZGTT_MIA_EE_DL_ITEM_PKNG_REL | Relevance function for Actual event Delivery Item Packing |
| | GTT_MIA_SHP_HD_ARR | ZGTT_MIA_EE_SH_HDR_ARR_REL | Relevance function for Actual event Shipment Header Arrival |
| | GTT_MIA_SHP_HD_CI | ZGTT_MIA_EE_SH_HDR_CI_REL | Relevance function for Actual event Shipment Header Check In |
| | GTT_MIA_SHP_HD_DEP | ZGTT_MIA_EE_SH_HDR_DEP_REL | Relevance function for Actual event Shipment Header Departure |
| | GTT_MIA_SHP_HD_LE | ZGTT_MIA_EE_SH_HDR_LE_REL | Relevance function for Actual event Shipment Header Load End |
| | GTT_MIA_SHP_HD_LS | ZGTT_MIA_EE_SH_HDR_LS_REL | Relevance function for Actual event Shipment Header Load Start |
| | GTT_TS_TOR_ARRIVE | ZGTT_STS_EE_FO_ARRIVAL_REL | Relevance function for Actual event FO/FB/FU Arrival |
| | GTT_TS_TOR_COUP | ZGTT_STS_EE_FO_COUPLING_REL | Relevance function for Actual event FO/FB/FU Coupling |
| | GTT_TS_TOR_DECP | ZGTT_STS_EE_FO_DECOUPLING_REL | Relevance function for Actual event FO/FB/FU Decoupling |

| | | | |
|----------------|----------------------|--------------------------------|---|
| | GTT_TS_TOR_DELAY | ZGTT_STS_EE_FO_DELAY_REL | Relevance function for Actual event FO/FB/FU Delay |
| | GTT_TS_TOR_DEPART | ZGTT_STS_EE_FO_DEPARTURE_REL | Relevance function for Actual event FO/FB/FU Departure |
| | GTT_TS_TOR_FU_DELAY | ZGTT_STS_EE_FU_DELAY_REL | Relevance function for Actual event FO/FB/FU Freight Unit Delay |
| | GTT_TS_TOR_LEND | ZGTT_STS_EE_FO_LOAD_END_REL | Relevance function for Actual event FO/FB/FU Loading End |
| | GTT_TS_TOR_LSTR | ZGTT_STS_EE_FO_LOAD_START_REL | Relevance function for Actual event FO/FB/FU Loading Start |
| | GTT_TS_TOR_POD | ZGTT_STS_EE_FO_POD_REL | Relevance function for Actual event FO/FB/FU Proof of Delivery |
| | GTT_TS_TOR_POPU | ZGTT_STS_EE_FO_POPU_REL | Relevance function for Actual event FO/FB/FU Proof of Pick Up |
| | GTT_TS_TOR_UEND | ZGTT_STS_EE_FO_UNLOAD_END_REL | Relevance function for Actual event FO/FB/FU Unloading End |
| | GTT_TS_TOR_USTR | ZGTT_STS_EE_FO_UNLOAD_STRT_REL | Relevance function for Actual event FO/FB/FU Unloading Start |
| | GTT_POF_PO_IT_CF_REL | ZGTT_SPOF_EE_PO_ITM_CONF_REL | Relevance function for Actual event PO Item Confirmation |
| | GTT_POF_PO_IT_DE_REL | ZGTT_SPOF_EE_PO_ITM_DEL_REL | Relevance function for Actual event PO Item Deletion |
| | GTT_POF_PO_IT_GR_REL | ZGTT_SPOF_EE_PO_ITM_GR_REL | Relevance function for Actual event PO Item Goods Receipt |
| | GTT_SOF_ODLV_GI_REL | ZGTT_SSOF_EE_DE_GI_REL | Relevance function for Actual event Outbound Delivery Goods Issue |
| | GTT_SOF_ODLV_PA_REL | ZGTT_SSOF_EE_DE_PACKING_REL | Relevance function for Actual event Outbound Delivery Packing |
| | GTT_SOF_ODLV_PI_REL | ZGTT_SSOF_EE_DE_PICKING_REL | Relevance function for Actual event Outbound Delivery Picking |
| | GTT_SOF_ODLV POD_REL | ZGTT_SSOF_EE_DE_POD_REL | Relevance function for Actual event Outbound Delivery POD |
| AOID Extractor | GTT_MIA_IDLV_HD_AOID | ZGTT_MIA_AOID_DL_HDR | AOID Extractor for Inbound Delivery Header |
| | GTT_MIA_IDLV_IT_AOID | ZGTT_MIA_AOID_DL_ITEM | AOID Extractor for Inbound Delivery Item |
| | GTT_MIA_SHP_HD_AOID | ZGTT_MIA_AOID_SH_HDR | AOID Extractor for Shipment Header |
| | GTT_STS_AOID_TOR | ZGTT_STS_AOID_TOR | AOID Extractor for FU/FO/FB |
| | GTT_POF_PO_IT_AOID | ZGTT_SPOF_AOID_PO_ITM | AOID Extractor for Purchase Order Item |

| | | |
|--------------------|-----------------------|--|
| GTT_POF_PO_HD_AOID | ZGTT_SPOF_AOID_PO_HDR | AOID Extractor for Purchase Order Header |
| GTT_SOF_AOID | ZGTT_SSOF_AOID | AOID Extractor for Sales Order / Outbound Delivery |

4.7 Define Used Business Process Types, Appl. Object Types and Event Types

4.7.1 In Display IMG page, click **Integration with Other SAP Components -> Interface to Global Track and Trace -> Define Application Interface.**

Choose activity **Define Used Business Process Types, Appl. Object Types and Event Types.**

4.7.2 You can create event types and application object types for each business process type.

The following sections from 4.8 to 4.11 only demonstrate how to configure relevant objects. For actual configuration, refer to the scenarios configuration listed below.

Scenarios configuration:

1) Purchase Order -> Inbound Delivery -> Shipment.

For this scenario, see the following configurations:

[4.12](#) Purchase Order Extractor Configuration

[4.13](#) Inbound Delivery Extractor Configuration

[4.16](#) Shipment Extractor Configuration

2) Purchase Order -> Inbound Delivery -> Freight Unit -> Road Freight Order / Ocean booking / Air Booking.

For this scenario, see the following configurations:

[4.12](#) Purchase Order Extractor Configuration

[4.13](#) Inbound Delivery Extractor Configuration

[4.17](#) Freight Unit Extractor Configuration

[4.18](#) Road Freight Order/Ocean Booking/Air booking Extractor Configuration

3) Sales Order -> Outbound Delivery -> Shipment.

For this scenario, see the following configurations:

[4.14](#) Sales Order Extractor Configuration

[4.15](#) Outbound Delivery Extractor Configuration

[4.16](#) Shipment Extractor Configuration

4) Sales Order -> Outbound Delivery -> Freight Unit -> Road Freight Order / Ocean Booking / Air Booking.

For this scenario, see the following configurations:

[4.14](#) Sales Order Extractor Configuration

[4.15](#) Outbound Delivery Extractor Configuration

[4.17](#) Freight Unit Extractor Configuration

[4.18](#) Road Freight Order/Ocean Booking/Air booking Extractor Configuration

4.8 Define Application Object Types for Header Level Extractor

4.8.1 As an example of AOT type's header level tracking introduction, choose the business process type ESC_DELIV from the **Define Used Business Process Types** on the right side.

Double click **Define Application Object Types**.

The screenshot shows the SAP Fiori interface for defining used business process types. The title bar reads "Display View 'Define Used Business Process Types': Overview". The left sidebar has a tree view with "Define Used Business Process Types" expanded, showing "Define Application Object Types" selected. The main area displays a table titled "Define Used Business Process Types" with two rows:

| Bus. Proc. Type | Update Mode | BPT Process Mode | Description |
|---|------------------|------------------|-----------------------------------|
| <input checked="" type="checkbox"/> ESC_DELIV | Update Task (V1) | Active | Delivery in SAP R/3 Enterprise |
| <input type="checkbox"/> ESC_FI_CLEARING | Update Task (V1) | Active | FI Clearing in SAP R/3 Enterprise |

4.8.2 Click **New Entries** to create a new Application Object Type.

4.8.3 Fill in the **Application Object Type** and **Text** fields.

4.8.4 Fill in the information required in the **General Data** tab. **CI for GTT** is the CI Tenant you created in [4.5](#). Check **GTT Relevant**.

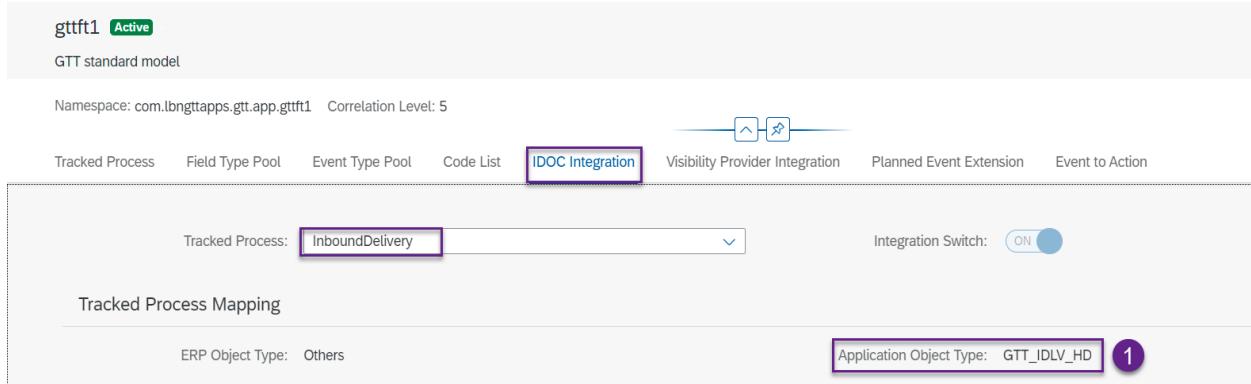
The screenshot shows the SAP Fiori interface for defining application object types. The title bar reads "Display View 'Define Application Object Types': Details". The left sidebar shows "Define Used Business Process Types" expanded, with "Define Application Object Types" selected. The main area has several tabs: General Data (selected), Control Tables, Object Identification, Global Track & Trace Relevance, and Parameter Setup. The General Data tab contains the following fields:

- Bus. Proc. Type: ESC_DELIV
- Appl. Obj. Type: **GTT_IDLV_HD** (highlighted with a purple box and circled with a purple number 1)
- Text: Inb. Delivery Header

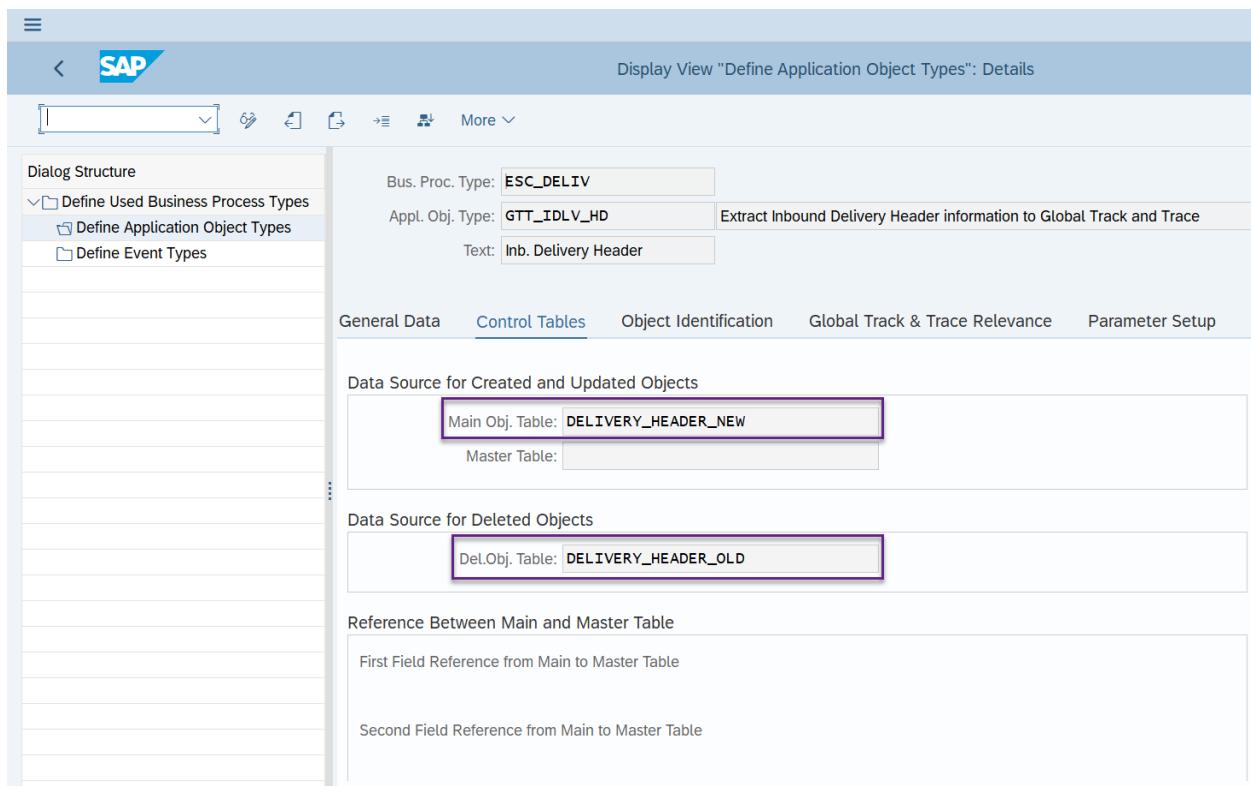
Below the tabs, there are three sections: Sequencing / Destination, Business Object Reference, and Behavior. The Behavior section contains checkboxes for "GTT Relevant" (checked), "Stop AO Determ.", and "Appl. Log Deact".

Hint:

When you are creating Application Object Type for one Business Process Type, make sure the AOT name must be the same name defined in the corresponding model in the *Manage Models* app in Version 2 of SAP Business Network Global Track and Trace.



4.8.5 Fill in the Main Object table and Master Table in the Control Tables tab.

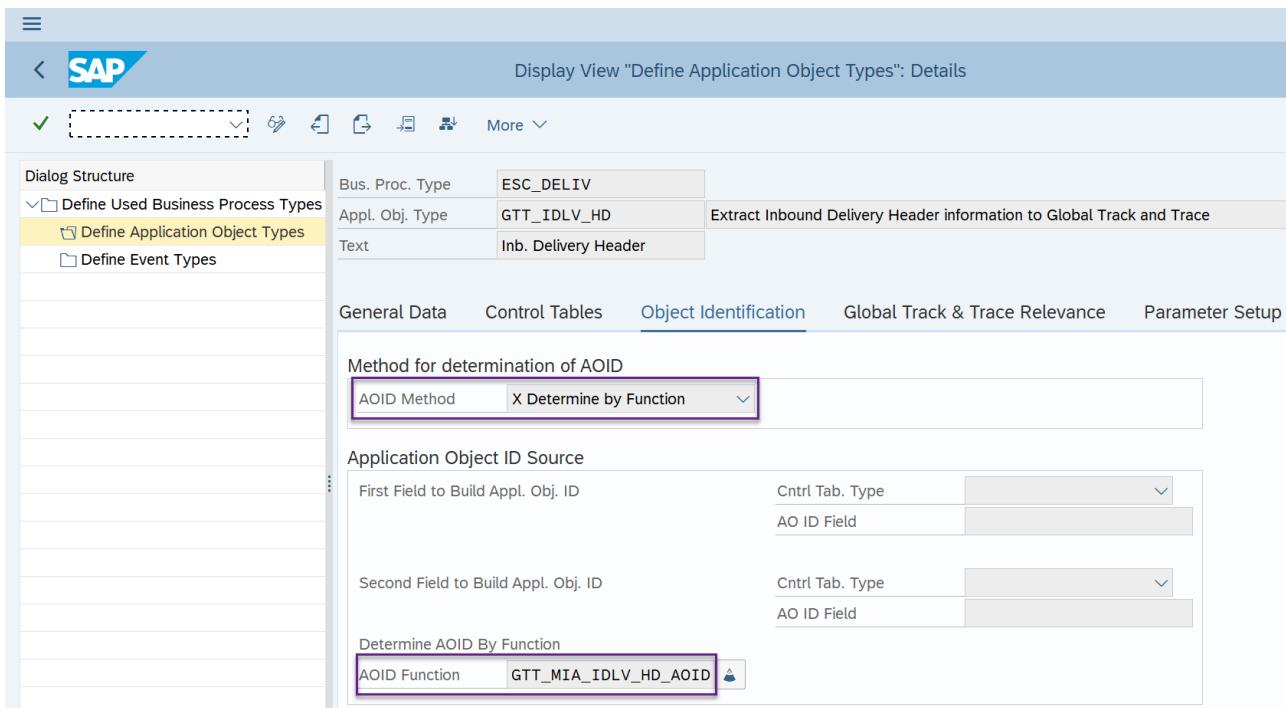


Note:

If the event type or application object type is on the header level, then you only need to assign the **Main Object Table**.

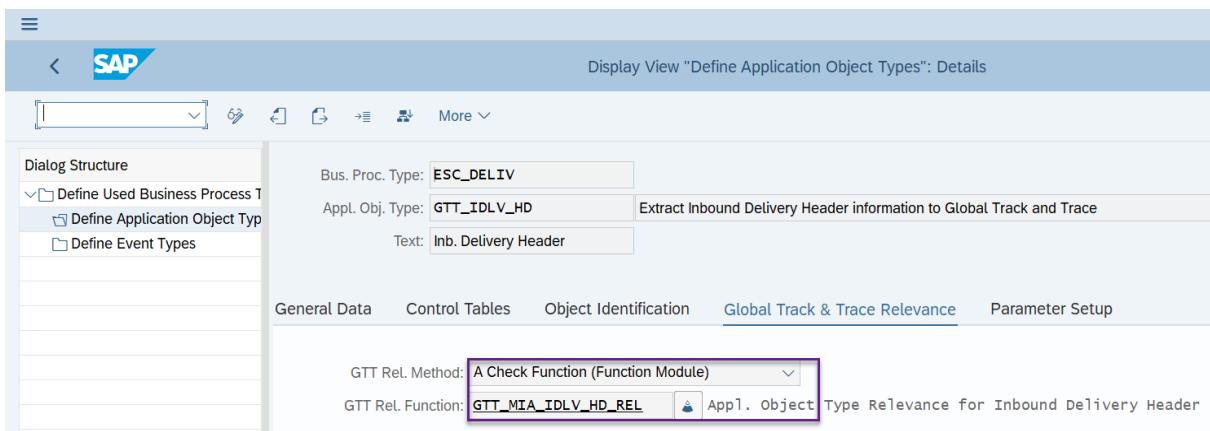
If the event type or application object type is on the item level, then you need to assign the **Main Object Table** and **Master Table**, and assign the reference between the **Main Object Table** and **Master Table**.

4.8.6 If there is no customized logic to determine the AOT ID, choose **Determine from Field**, and use the key field to fill the AO ID fields. When choosing **Determine by Function**, you must enter the customized information in the AOID function field.



4.8.7 In the **Global Track & Trace Relevance** tab, choose the **GTT Relevance Method** you need.

If you choose the **GTT Relevance Method** as *Check Function*, then you need to define a relevance function according to [4.6](#), and fill in the relevance function name here.



4.8.8 In the **Parameter Setup** tab, choose the **TrkID Method** as you need.

If you choose the **TrkID Method** as *Determine by Function*, then you need to define a tracking ID function according to [4.6](#), and fill in the relevance function name here.

If no customized logic exists, for **TrkID Method** choose *Determine from Field*, then you need to fill the key field and name the Code Set for the AOT.

Fill in the extractor functions for **Control Data, Info Data(optional), Planned Event**.

Click **Save**.

Hint:

In the AOT you maintained, make sure the name of Tracking ID Type is the same name defined in the corresponding process type of the model in the *Manage Models* app in Version 2 of SAP Business Network Global Track and Trace.

If the Tracking ID Type is determined by Field, input the value source field in the Tracking ID field, and the Code Set that refers to the Tracking ID Type for the AOT as below.

4.9 Define Application Object Types for Item Level Extractor

4.9.1 As an example of AOT type's item level tracking introduction, choose the business process type ESC_DELIV from the **Define Used Business Process Types** on the right side. Double click **Define Application Object Types**.

| Bus. Proc. Type | Update Mode | BPT Process Mode | Description |
|-----------------|------------------|------------------|-----------------------------------|
| ESC_DELIV | Update Task (V1) | Active | Delivery in SAP R/3 Enterprise |
| ESC_FT_CLEARING | Update Task (V1) | Active | FI Clearing in SAP R/3 Enterprise |

4.9.2 Click **New Entries** to create a new Application Object Type.

4.9.3 Fill in the **Application Object Type** and **Text** fields.

4.9.4 Fill in the information required in the **General Data** tab. **CI for GTT** is the CI Tenant you created in [4.5](#). Check **GTT Relevant**.

| | | | | |
|--------------|----------------|-----------------------|--------------------------------|-----------------|
| General Data | Control Tables | Object Identification | Global Track & Trace Relevance | Parameter Setup |
|--------------|----------------|-----------------------|--------------------------------|-----------------|

4.9.5 Fill in the Main Object table and Master Table in the Control Tables tab.

Display View "Define Application Object Types": Details

Dialog Structure

- Define Used Business Process Types
 - Define Application Object Types
 - Define Event Types

General Data **Control Tables** Object Identification Global Track & Trace Relevance Parameter Setup

Data Source for Created and Updated Objects

| | |
|------------------|----------------------------|
| Main Obj. Table: | DELIVERY_ITEM_NEW |
| Master Table: | DELIVERY_HEADER_NEW |

Data Source for Deleted Objects

| | |
|-----------------|--------------------------|
| Del.Obj. Table: | DELIVERY_ITEM_OLD |
|-----------------|--------------------------|

Reference Between Main and Master Table

First Field Reference from Main to Master Table

| | | | |
|--------------------|--------------|---------------|----------|
| Uplink Field: | VBELN | Uplink Mode: | R |
| Uplink Target Fld: | VBELN | Uplink Const: | |

Second Field Reference from Main to Master Table

| | | | |
|--------------------|--|---------------|--|
| Uplink Field: | | Uplink Mode: | |
| Uplink Target Fld: | | Uplink Const: | |

4.9.6 Fill in the AOID method in the Object Identification tab.

Display View "Define Application Object Types": Details

Dialog Structure

- Define Used Business Process Types
 - Define Application Object Types
 - Define Event Types

General Data Control Tables **Object Identification** Global Track & Trace Relevance Parameter Setup

Method for determination of AOID

| | |
|-------------|--------------------------------|
| AOID Method | X Determine by Function |
|-------------|--------------------------------|

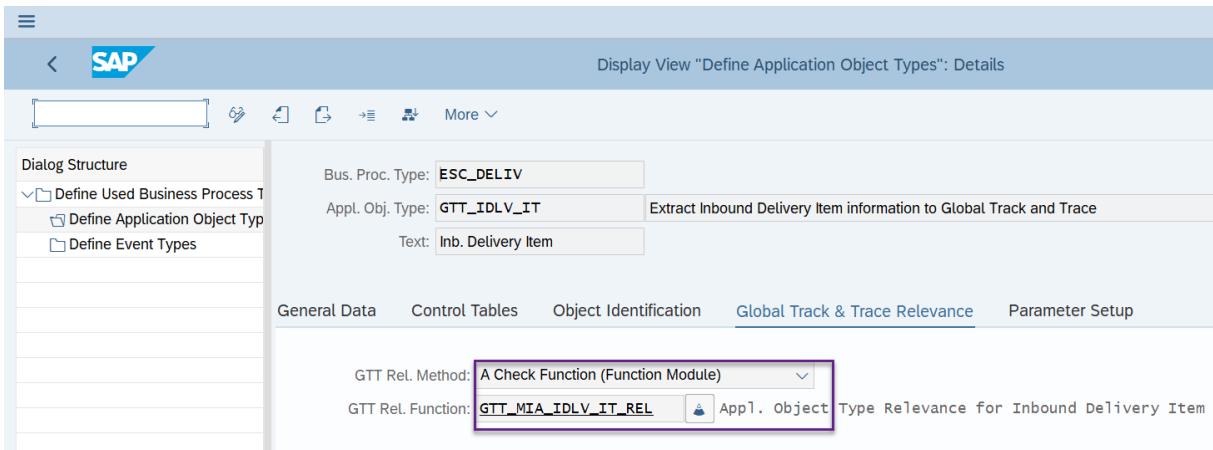
Application Object ID Source

| | |
|-------------------------------------|-----------------|
| First Field to Build Appl. Obj. ID | Cntrl Tab. Type |
| | AO ID Field |
| Second Field to Build Appl. Obj. ID | Cntrl Tab. Type |
| | AO ID Field |

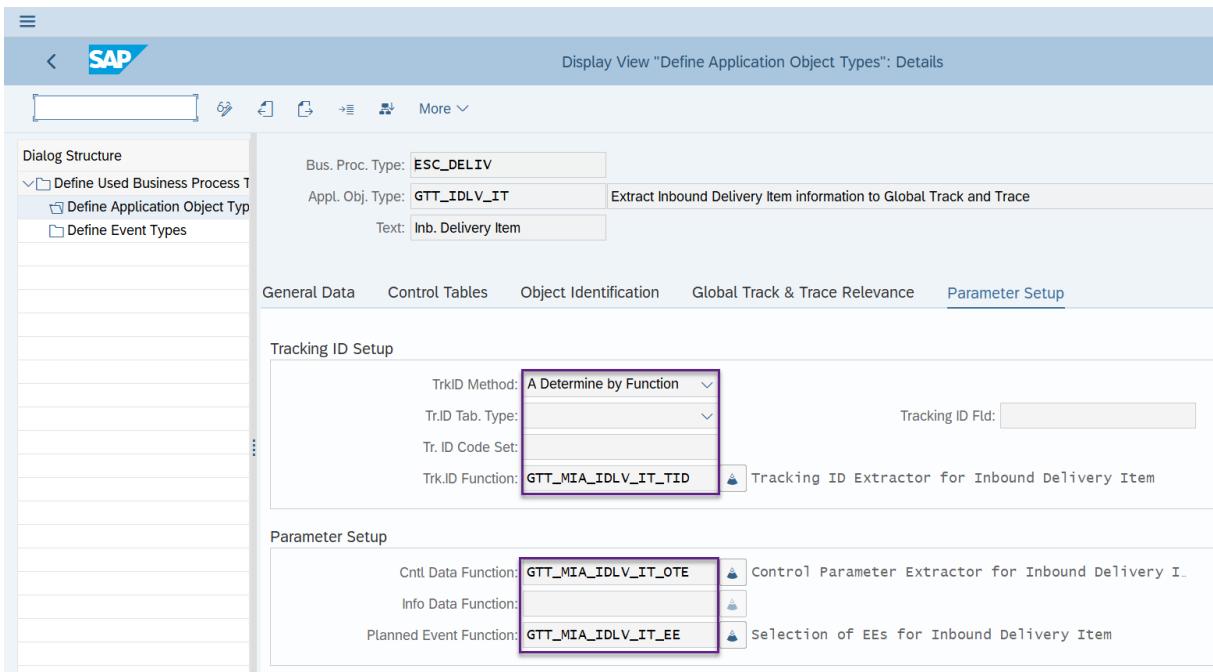
Determine AOID By Function

| | |
|---------------|-----------------------------|
| AOID Function | GTT_MIA_IDLV_IT_AOID |
|---------------|-----------------------------|

4.9.7 In the Global Track & Trace Relevance tab, choose the GTT Relevance Method you need.



4.9.8 In the **Parameter Setup** tab, choose the **TrkID Method** as you need.



4.10 Define Event Types for Header Level Extractor

4.10.1 As an example of event's header level tracking introduction, choose the business process type ESC_MATDOC from the **Define Used Business Process Types** on the right side. Double click **Define Event Types**.

| Bus. Proc. Type | Update Mode | BPT Process Mode | Description |
|-----------------|------------------|------------------|---|
| ESC_MATDOC | Update Task (V1) | Active | Material Document in SAP R/3 Enterprise |
| ESC_MM_INVOICE | Update Task (V1) | Active | MM Invoice in SAP R/3 Enterprise |

4.10.2 Click **New Entries** to create a new event type.

4.10.3 Fill in the **Event Type** and **Text** fields.

4.10.4 Fill in the information required in the **General Data** tab. **HCI for GTT** is the CI Tenant you created in [4.5. Event Function](#) is the extractor function you created in [4.6](#). Check **GTT Relevant**.

| | |
|------------------|-----------------|
| Bus. Proc. Type: | ESC_MATDOC |
| Event Type: | GTT_EVT_IDLV_GR |
| Text: | Delivery GR |

General Data Control Tables Global Track & Trace Relevance

Sequencing / Destination

| | |
|--------------|-------------|
| Seq. No.: | 10 |
| HCI for GTT: | GTT_APPLOGS |

Data Setup

| | |
|-----------------|--------------------|
| Event Function: | GTT_MIA_IDLV_HD_GR |
|-----------------|--------------------|

Behavior

| |
|--|
| <input checked="" type="checkbox"/> GTT Relevant |
| <input type="checkbox"/> Stop ET Det. |
| <input type="checkbox"/> Appl. Log Deact |

4.10.5 Fill in the Main Object Table and Master Table in the Control Tables tab.

The screenshot shows the SAP Fiori interface for defining event types. The title bar reads "Display View 'Define Event Types': Details". The left sidebar shows "Dialog Structure" with "Define Used Business Process Types" expanded, showing "Define Application Object Types" and "Define Event Types". The main area has tabs: "General Data", "Control Tables" (which is selected), and "Global Track & Trace Relevance". In the "Control Tables" section, under "Data Source for Events", the "Main Obj. Table" field contains "MATERIAL_HEADER" and is highlighted with a purple border. Other fields include "Master Table", "Old Main Obj. Table", and "Old Master Table". Below this, under "Reference Between Main and Master Table", there are fields for "First Field Reference from Main to Master Table" and "Second Field Reference from Main to Master Table".

Caution:

If the event type or application object type is on the header level, then you only need to assign the **Main Object Table**.

If the event type or application object type is on the item level, then you need to assign the **Main Object Table** and **Master Table**, and assign the reference between the **Main Object Table** and **Master Table**.

4.10.6 In the Global Track & Trace Relevance tab, choose the GTT Relevance Method you need.

If you choose the **GTT Relevance Method** as *Check Function*, then you need to define a relevance function according to [4.6](#), and fill in the relevance function name here. Click **Save**.

The screenshot shows the SAP Fiori interface for defining event types. The title bar reads "Display View 'Define Event Types': Details". The left sidebar shows "Dialog Structure" with "Define Used Business Process Types" expanded, showing "Define Application Object Types" and "Define Event Types". The main area has tabs: "General Data", "Control Tables" (selected), and "Global Track & Trace Relevance". In the "Global Track & Trace Relevance" section, the "GTT Rel. Method" dropdown is set to "A Check Function (Function...)" and the "GTT Rel. Function" field contains "GTT_MIA_IDLV_HD_GR" and is highlighted with a purple border. A tooltip "Relevance function for Actu" is visible next to the function field.

4.11 Define Event Types for Item Level Extractor

4.11.1 As an example of the event's item level tracking introduction, choose the business process type ESC_DELIV from the **Define Used Business Process Types** on the right side. Double click **Define Event Types**.

The screenshot shows the SAP Fiori interface with the title "Display View 'Define Used Business Process Types': Overview". On the left, there is a "Dialog Structure" sidebar with sections: "Define Used Business Process Types" (selected), "Define Application Object Types", and "Define Event Types". The main area displays a table titled "Define Used Business Process Types" with columns: Bus. Proc. Type, Update Mode, BPT Process Mode, and Description. Two entries are listed: "ESC_DELIV" (selected) with "Update Task (V1)" and "Active" status, and "ESC_FI_CLEARING" with "Update Task (V1)" and "Active" status. A tooltip for "ESC_DELIV" indicates "Delivery in SAP R/3 Enterprise".

4.11.2 Click **New Entries** to create a new event type.

4.11.3 Fill in the **Event Type** and **Text** fields.

4.11.4 Fill in the information required in the **General Data** tab. **HCI for GTT** is the CI Tenant you created in [4.5. Event Function](#) is the extractor function you created in [4.6](#). Check **GTT Relevant**.

The screenshot shows the SAP Fiori interface with the title "Display View 'Define Event Types': Details". On the left, there is a "Dialog Structure" sidebar with sections: "Define Used Business Process Types" (selected), "Define Application Object Types", and "Define Event Types". The main area displays a form for defining an event type. The "Bus. Proc. Type" field is set to "ESC_DELIV". The "Event Type" field is set to "GTT_EVT_IDLV_PA" with a tooltip "Delivery Item Put Away Event". The "Text" field is set to "Put Away Event". Below this, there are tabs for "General Data", "Control Tables", and "Global Track & Trace Relevance". The "General Data" tab is selected, showing fields for "Seq. No." (10), "HCI for GTT" (set to "GTTAPPLOGS" with a tooltip "CI Tenant for GTT Standard APP"), and "Event Function" (set to "GTT_MIA_IDLV_IT_PA" with a tooltip "Actual event Inbound Delivery Item"). The "Behavior" section contains checkboxes: "GTT Relevant" (selected), "Stop ET Det.", and "Appl. Log Deact".

4.11.5 Fill in the Main Object Table and Master Table in the Control Tables tab.

Bus. Proc. Type: ESC_DELIV
Event Type: GTT_EVT_IDLV_PA Delivery Item Put Away Event
Text: Put Away Event

Main Obj. Table: DELIVERY_ITEM_NEW
Master Table: DELIVERY_HEADER_NEW

Old Main Obj. Table: DELIVERY_ITEM_OLD
Old Master Table: DELIVERY_HEADER_OLD

Caution:

If the event type or application object type is on the header level, then you only need to assign the **Main Object Table**.

If the event type or application object type is on the item level, then you need to assign the **Main Object Table** and **Master Table**, and assign the reference between the **Main Object Table** and **Master Table**.

4.11.6 In the Global Track & Trace Relevance tab, choose the GTT Relevance Method you need.

If you choose the **GTT Relevance Method** as *Check Function*, then you need to define a relevance function according to [4.6](#), and fill in the relevance function name here. Click **Save**.

Bus. Proc. Type: ESC_DELIV
Event Type: GTT_EVT_IDLV_PA Delivery Item Put Away Event
Text: Put Away Event

GTT Rel. Method: A Check Function (Function)
GTT Rel. Function: GTT_MIA_IDLV_IT_PA

4.12 Purchase Order Extractor Configuration

4.12.1 Define Application Object Types for Purchase Order Header

| Segment | Field | Value |
|---|------------------------|--|
| Header | Bus. Proc. Type | ESC_PURORD |
| | Appl. Obj. Type | GTT_PO_HD |
| | Description | Extract purchase order header information to SAP Business Network Global Track and Trace |
| | Text | Purchase Order Header |
| General Data | Seq. No. | 10 |
| | CI for GTT | GTTAPPLOGS |
| | Object Type | BUS2012 |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | PURCHASE_ORDER_HEADER_NEW |
| Object Identification | AOID Method | Determine by Function |
| Object Identification – Application Object ID Source – Determine AOID by Function | AOID Extractor | GTT_POF_PO_HD_AOID |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_POF_PO_HD_REL |
| Parameter Setup | TrkID Method | Determine by Function |
| | Tr.ID Extractor | GTT_POF_PO_HD_TID |
| | Ctrl Data Function | GTT_POF_PO_HD_OTE |
| | Planned Event Function | GTT_POF_PO_HD_EE |

4.12.2 Define Application Object Types for Purchase Order Item

| Segment | Field | Value |
|--|-----------------|--|
| Header | Bus. Proc. Type | ESC_PURORD |
| | Appl. Obj. Type | GTT_PO_IT |
| | Description | Extract purchase order item information to SAP Business Network Global Track and Trace |
| | Text | Purchase Order Item |
| General Data | Seq. No. | 10 |
| | CI for GTT | GTTAPPLOGS |
| | Object Type | BUS2012 |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | PURCHASE_ITEM_NEW |
| | Master Table | PURCHASE_ORDER_HEADER_NEW |
| | Del. Obj. Table | PURCHASE_ITEM_OLD |
| Control Tables – Reference Between Main and Master | Uplink Field | EBELN |
| | Uplink Mode | R |

| | | |
|---|------------------------|----------------------------------|
| Table – First Field Reference from Main to Master Table | Uplink Target Fld | EBELN |
| Object Identification | AOID Method | Determine by Function |
| Object Identification – Application Object ID Source – Determine AOID by Function | AOID Extractor | GTT_POF_PO_IT_AOID |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_POF_PO_IT_REL |
| Parameter Setup | TrkID Method | Determine by Function |
| | Trk. ID Function | GTT_POF_PO_IT_TID |
| | Ctrl Data Function | GTT_POF_PO_IT_OTE |
| | Planned Event Function | GTT_POF_PO_IT_EE |

4.12.3 Define Event Types for Purchase Order Item

| Segment | Field | Value |
|--|---------------------|----------------------------------|
| Header | Bus. Proc. Type | ESC_PURORD |
| | Event Type | GTT_EVT_PO_IT_CF |
| | Description | PO Item Confirmation Event |
| | Text | Confirmation Event |
| General Data | Seq. No. | 10 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_POF_PO_IT_CF |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | PURCHASE_ITEM_NEW |
| | Master Table | PURCHASE_ORDER_HEADER_NEW |
| | Old Main Obj. Table | PURCHASE_ITEM_OLD |
| | Old Master Table | PURCHASE_ORDER_HEADER_OLD |
| Control Tables – Reference Between Main and Master Table – First Field Reference from Main to Master Table | Uplink Field | EBELN |
| | Uplink Mode | R |
| | Uplink Target Fld | EBELN |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_POF_PO_IT_CF_REL |

| Segment | Field | Value |
|---------|-----------------|------------------------|
| Header | Bus. Proc. Type | ESC_PURORD |
| | Event Type | GTT_EVT_PO_IT_DE |
| | Description | PO Item Deletion Event |

| | | |
|--|---------------------|----------------------------------|
| | Text | Deletion Event |
| General Data | Seq. No. | 10 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_POF_PO_IT_DE |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | PURCHASE_ITEM_NEW |
| | Master Table | PURCHASE_ORDER_HEADER_NEW |
| | Old Main Obj. Table | PURCHASE_ITEM_OLD |
| | Old Master Table | PURCHASE_ORDER_HEADER_OLD |
| Control Tables – Reference Between Main and Master Table – First Field Reference from Main to Master Table | Uplink Field | EBELN |
| | Uplink Mode | R |
| | Uplink Target Fld | EBELN |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_POF_PO_IT_DE_REL |

| Segment | Field | Value |
|--|-------------------|----------------------------------|
| Header | Bus. Proc. Type | ESC_MATDOC |
| | Event Type | GTT_EVT_PO_IT_GR |
| | Description | PO Item Goods Receipt Event |
| | Text | Goods Receipt Event |
| General Data | Seq. No. | 10 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_POF_PO_IT_GR |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | MATERIAL_SEGMENT |
| | Master Table | MATERIAL_HEADER |
| Control Tables – Reference Between Main and Master Table – First Field Reference from Main to Master Table | Uplink Field | MBLNR |
| | Uplink Mode | R |
| | Uplink Target Fld | MBLNR |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_POF_PO_IT_GR_REL |

4.12.4 Cross-processes for Purchase Order

The following entries should be maintained in transaction “ZGTT_AOTYPE_RST - AOT Types Restrictions” for the cross-processes tracking scenario.

| Restr.ID | Restr.Pos | Option | Sign | Application Obj.Type |
|-----------------|------------------|---------------|-------------|-----------------------------|
| DL_TO_POIT | 001 | Equal To | Include | GTT_PO_IT |
| DL_TO_POHD | 001 | Equal To | Include | GTT_PO_HD |

The following entries should be maintained in transaction “ZGTT_EVTYPE_RST - Event Types Restrictions” for the cross-processes tracking scenario.

| Restr.ID | Restr.Pos | Option | Sign | Event Type |
|-----------------|------------------|---------------|-------------|-------------------|
| DL_TO_POIT | 001 | Equal To | Include | GTT_EVT_PO_IT_CF |

4.12.5 Maintain Purchase Order Types that will be sent to SAP Business Network Global Track and Trace

Maintain the purchase order type that you want to send to SAP Business Network Global Track and Trace via transaction “ZGTT_POTYPE_RST - GTT Purchase Doc Type Configuration”, then mark it as active. For example:

| Purchasing Document Type | Active |
|---------------------------------|---------------|
| NB | X |

4.13 Inbound Delivery Extractor Configuration

4.13.1 Define Application Object Types for Inbound Delivery Header

| Segment | Field | Value |
|---|------------------------|--|
| Header | Bus. Proc. Type | ESC_DELIV |
| | Appl. Obj. Type | GTT_IDLV_HD |
| | Description | Extract Inbound Delivery Header information to SAP Business Network Global Track and Trace |
| | Text | Inb. Delivery Header |
| General Data | Seq. No. | 10 |
| | CI for GTT | GTTAPPLOGS |
| | Object Type | BUS2015 |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | DELIVERY_HEADER_NEW |
| | Del. Obj. Table | DELIVERY_HEADER_OLD |
| Object Identification | AOID Method | Determine by Function |
| Object Identification – Application Object ID Source – Determine AOID by Function | AOID Extractor | GTT_MIA_IDLV_HD_AOID |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_MIA_IDLV_HD_REL |
| Parameter Setup | TrkID Method | Determine by Function |
| | Tr.ID Extractor | GTT_MIA_IDLV_HD_TID |
| | Ctrl Data Function | GTT_MIA_IDLV_HD_OTE |
| | Planned Event Function | GTT_MIA_IDLV_HD_EE |

4.13.2 Define Application Object Types for Inbound Delivery Item

| Segment | Field | Value |
|--|------------------------|--|
| Header | Bus. Proc. Type | ESC_DELIV |
| | Appl. Obj. Type | GTT_IDLV_IT |
| | Description | Extract Inbound Delivery Item information to SAP Business Network Global Track and Trace |
| | Text | Inb. Delivery Item |
| General Data | Seq. No. | 10 |
| | CI for GTT | GTTAPPLOGS |
| | Object Type | BUS2015 |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | DELIVERY_ITEM_NEW |
| | Master Table | DELIVERY_HEADER_NEW |
| | Del. Obj. Table | DELIVERY_ITEM_OLD |
| Control Tables – Reference Between Main and Master Table – First Field Reference from Main to Master Table | Uplink Field | VBELN |
| | Uplink Mode | R |
| | Uplink Target Fld | VBELN |
| Object Identification | AOID Method | Determine by Function |
| Object Identification – Application Object ID Source – Determine AOID by Function | AOID Extractor | GTT_MIA_IDLV_IT_AOID |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_MIA_IDLV_IT_REL |
| Parameter Setup | TrkID Method | Determine by Function |
| | Trk. ID Function | GTT_MIA_IDLV_IT_TID |
| | Ctrl Data Function | GTT_MIA_IDLV_IT_OTE |
| | Planned Event Function | GTT_MIA_IDLV_IT_EE |

4.13.3 Define Event Types for Inbound Delivery Header

| Segment | Field | Value |
|--------------------------------|-------------------|-------------------------------------|
| Header | Bus. Proc. Type | ESC_MATDOC |
| | Event Type | GTT_EVT_IDLV_GR |
| | Description | Delivery Header Goods Receipt Event |
| | Text | Delivery GR |
| General Data | Seq. No. | 10 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_MIA_IDLV_HD_GR |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | MATERIAL_HEADER |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_MIA_IDLV_HD_GR |

4.13.4 Define Event Types for Inbound Delivery Item

| Segment | Field | Value |
|--|---------------------|----------------------------------|
| Header | Bus. Proc. Type | ESC_DELIV |
| | Event Type | GTT_EVT_IDLV_PA |
| | Description | Delivery Item Put Away Event |
| | Text | Put Away Event |
| General Data | Seq. No. | 10 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_MIA_IDLV_IT_PA |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | DELIVERY_ITEM_NEW |
| | Master Table | DELIVERY_HEADER_NEW |
| | Old Main Obj. Table | DELIVERY_ITEM_OLD |
| | Old Master Table | DELIVERY_HEADER_OLD |
| Control Tables – Reference Between Main and Master Table – First Field Reference from Main to Master Table | Uplink Field | VBELN |
| | Uplink Mode | R |
| | Uplink Target Fld | VBELN |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_MIA_IDLV_IT_PA |

| Segment | Field | Value |
|---------|-------|-------|
|---------|-------|-------|

| | | |
|--|---------------------|----------------------------------|
| Header | Bus. Proc. Type | ESC_DELIV |
| | Event Type | GTT_EVT_IDLV_PACK |
| | Description | Delivery Item Packing Event |
| | Text | Delivery Packing |
| General Data | Seq. No. | 10 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_MIA_IDLV_IT_PKNG |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | DELIVERY_ITEM_NEW |
| | Master Table | DELIVERY_HEADER_NEW |
| | Old Main Obj. Table | DELIVERY_ITEM_OLD |
| | Old Master Table | DELIVERY_HEADER_OLD |
| Control Tables – Reference Between Main and Master Table – First Field Reference from Main to Master Table | Uplink Field | VBELN |
| | Uplink Mode | R |
| | Uplink Target Fld | VBELN |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_MIA_IDLV_IT_PKNG |

4.13.5 Cross-processes for Inbound Delivery

The following entries should be maintained in transaction “ZGTT_AOTYPE_RST - AOT Types Restrictions” for the cross-processes tracking scenario.

| Restr.ID | Restr.Pos | Option | Sign | Application Obj.Type |
|------------|-----------|----------|---------|----------------------|
| FU_TO_IDLH | 001 | Equal To | Include | GTT_IDLV_HD |
| FU_TO_IDLI | 001 | Equal To | Include | GTT_IDLV_IT |
| SH_TO_IDLH | 001 | Equal To | Include | GTT_IDLV_HD |
| SH_TO_IDLI | 001 | Equal To | Include | GTT_IDLV_IT |

4.13.6 Maintain Delivery Types that will be sent to SAP Business Network Global Track and Trace

Maintain the inbound delivery type that you want to send to SAP Business Network Global Track and Trace via transaction “ZGTT_DLVTYPED_RST - GTT Delivery Type Configuration”, then mark it as active.

For example:

| | |
|---------------|--------|
| Delivery Type | Active |
|---------------|--------|

| | |
|----|---|
| EL | X |
|----|---|

4.14 Sales Order Extractor Configuration

4.14.1 Define Application Object Types for Sales Order Header

| Segment | Field | Value |
|---|------------------------|---|
| Header | Bus. Proc. Type | ESC_SORDER |
| | Appl. Obj. Type | GTT_SO_HD |
| | Description | Extract sales order header information to SAP Business Network Global Track and Trace |
| | Text | Sales Order Header |
| General Data | Seq. No. | 10 |
| | CI for GTT | GTTAPPLOGS |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | SALES_ORDER_HEADER_NEW |
| | Del. Obj. Table | SALES_ORDER_HEADER_OLD |
| Object Identification | AOID Method | Determine by Function |
| Object Identification – Application Object ID Source – Determine AOID by Function | AOID Extractor | GTT_SOF_AOID |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_SOF_SO_HD_REL |
| Parameter Setup | TrkID Method | Determine by Function |
| | Tr.ID Extractor | GTT_SOF_SO_HD_TID |
| | Ctrl Data Function | GTT_SOF_SO_HD_OTE |
| | Planned Event Function | GTT_SOF_SO_HD_EE |

4.14.2 Define Application Object Types for Sales Order Item

| Segment | Field | Value |
|----------------|-----------------|---|
| Header | Bus. Proc. Type | ESC_SORDER |
| | Appl. Obj. Type | GTT_SO_IT |
| | Description | Extract sales order item information to SAP Business Network Global Track and Trace |
| | Text | Sales Order Item |
| General Data | Seq. No. | 20 |
| | CI for GTT | GTTAPPLOGS |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | SALES_ORDER_ITEMS_NEW |

| | | |
|--|------------------------|----------------------------------|
| | Master Table | SALES_ORDER_HEADER_NEW |
| | Del. Obj. Table | SALES_ORDER_ITEMS_OLD |
| Control Tables – Reference Between Main and Master Table – First Field Reference from Main to Master Table | Uplink Field | VBELN |
| | Uplink Mode | R |
| | Uplink Target Fld | VBELN |
| Object Identification | AOID Method | Determine by Function |
| Object Identification – Application Object ID Source – Determine AOID by Function | AOID Extractor | GTT_SOF_AOID |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_SOF_SO_IT_REL |
| Parameter Setup | TrkID Method | Determine by Function |
| | Trk. ID Function | GTT_SOF_SO_IT_TID |
| | Ctrl Data Function | GTT_SOF_SO_IT_OTE |
| | Planned Event Function | GTT_SOF_SO_IT_EE |

4.14.3 Cross-processes for Sales Order

The following entries should be maintained in transaction “ZGTT_AOTYPE_RST - AOT Types Restrictions” for the cross-processes tracking scenario.

| Restr.ID | Restr.Pos | Option | Sign | Application Obj.Type |
|------------|-----------|----------|---------|----------------------|
| DL_TO_SOIT | 001 | Equal To | Include | GTT_SO_IT |
| DL_TO_SOHD | 001 | Equal To | Include | GTT_SO_HD |

4.14.4 Maintain Sales Order Types that will be sent to SAP Business Network Global Track and Trace

Maintain the sales order type that you want to send to SAP Business Network Global Track and Trace via transaction “ZGTT_SOTYPE_RST - GTT Sales Doc Type Configuration”, then mark it as active.

For example:

| Sales Document Type | Active |
|---------------------|--------|
| ZGTT | X |

4.15 Outbound Delivery Extractor Configuration

4.15.1 Define Application Object Types for Outbound Delivery Header

| Segment | Field | Value |
|---------|-----------------|-----------|
| Header | Bus. Proc. Type | ESC_DELIV |

| | | |
|---|------------------------|--|
| | Appl. Obj. Type | GTT_ODLV_HD |
| | Description | Extract delivery header information to SAP Business Network Global Track and Trace |
| | Text | Delivery Header |
| General Data | Seq. No. | 10 |
| | CI for GTT | GTTAPPLOGS |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | DELIVERY_HEADER_NEW |
| | Del. Obj. Table | DELIVERY_HEADER_OLD |
| Object Identification | AOID Method | Determine by Function |
| Object Identification – Application Object ID Source – Determine AOID by Function | AOID Extractor | GTT_SOF_AOID |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_SOF_ODLV_HD_REL |
| Parameter Setup | TrkID Method | Determine by Function |
| | Tr.ID Extractor | GTT_SOF_ODLV_HD_TID |
| | Ctrl Data Function | GTT_SOF_ODLV_HD_OTE |
| | Planned Event Function | GTT_SOF_ODLV_HD_EE |

4.15.2 Define Application Object Types for Outbound Delivery Item

| Segment | Field | Value |
|---|-------------------|--|
| Header | Bus. Proc. Type | ESC_DELIV |
| | Appl. Obj. Type | GTT_ODLV_IT |
| | Description | Extract delivery item information to SAP Business Network Global Track and Trace |
| | Text | Delivery Item |
| General Data | Seq. No. | 20 |
| | CI for GTT | GTTAPPLOGS |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | DELIVERY_ITEM_NEW |
| | Master Table | DELIVERY_HEADER_NEW |
| | Del. Obj. Table | DELIVERY_ITEM_OLD |
| Control Tables – Reference Between Main and Master Table – First Field Reference from Main to Master Table | Uplink Field | VBELN |
| | Uplink Mode | R |
| | Uplink Target Fld | VBELN |
| Object Identification | AOID Method | Determine by Function |
| Object Identification – Application Object ID Source – Determine AOID by Function | AOID Extractor | GTT_SOF_AOID |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |

| | | |
|-----------------|------------------------|-----------------------|
| | GTT Rel. Function | GTT_SOF_ODLV_IT_REL |
| Parameter Setup | TrkID Method | Determine by Function |
| | Trk. ID Function | GTT_SOF_ODLV_IT_TID |
| | Ctrl Data Function | GTT_SOF_ODLV_IT_OTE |
| | Planned Event Function | GTT_SOF_ODLV_IT_EE |

4.15.3 Define Event Types for Outbound Delivery Header

| Segment | Field | Value |
|--------------------------------|---------------------|----------------------------------|
| Header | Bus. Proc. Type | ESC_DELIV |
| | Event Type | GTT_EVT_ODLV_GI |
| | Description | Delivery Goods Issue event |
| | Text | Goods Issue Event |
| General Data | Seq. No. | 10 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_SOF_ODLV_GI |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | DELIVERY_HEADER_NEW |
| | Old Main Obj. Table | DELIVERY_HEADER_OLD |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_SOF_ODLV_GI_REL |

4.15.4 Define Event Types for Outbound Delivery Item

| Segment | Field | Value |
|----------------|---------------------|-----------------------------|
| Header | Bus. Proc. Type | ESC_DELIV |
| | Event Type | GTT_EVT_ODLV_PA |
| | Description | Delivery Item Packing event |
| | Text | Packing Event |
| General Data | Seq. No. | 10 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_SOF_ODLV_IT_PA |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | DELIVERY_ITEM_NEW |
| | Master Table | DELIVERY_HEADER_NEW |
| | Old Main Obj. Table | DELIVERY_ITEM_OLD |

| | | |
|--|-------------------|----------------------------------|
| | Old Master Table | DELIVERY_HEADER_OLD |
| Control Tables – Reference Between Main and Master Table – First Field Reference from Main to Master Table | Uplink Field | VBELN |
| | Uplink Mode | R |
| | Uplink Target Fld | VBELN |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_SOF_ODLV_PA_REL |

| Segment | Field | Value |
|--|---------------------|----------------------------------|
| Header | Bus. Proc. Type | ESC_DELIV |
| | Event Type | GTT_EVT_ODLV_PI |
| | Description | Delivery Item Picking event |
| | Text | Picking Event |
| General Data | Seq. No. | 10 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_SOF_ODLV_IT_PI |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | DELIVERY_ITEM_NEW |
| | Master Table | DELIVERY_HEADER_NEW |
| | Old Main Obj. Table | DELIVERY_ITEM_OLD |
| | Old Master Table | DELIVERY_HEADER_OLD |
| Control Tables – Reference Between Main and Master Table – First Field Reference from Main to Master Table | Uplink Field | VBELN |
| | Uplink Mode | R |
| | Uplink Target Fld | VBELN |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_SOF_ODLV_PI_REL |

| Segment | Field | Value |
|--------------|-----------------|-------------------------|
| Header | Bus. Proc. Type | ESC_DELIV |
| | Event Type | GTT_EVT_ODLV_POD |
| | Description | Delivery Item POD event |
| | Text | POD Event |
| General Data | Seq. No. | 10 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_SOF_ODLV_IT_POD |
| | GTT Relevant | X |

| | | |
|--|---------------------|----------------------------------|
| Control Tables | Main Obj. Table | DELIVERY_ITEM_NEW |
| | Master Table | DELIVERY_HEADER_NEW |
| | Old Main Obj. Table | DELIVERY_ITEM_OLD |
| | Old Master Table | DELIVERY_HEADER_OLD |
| Control Tables – Reference Between Main and Master Table – First Field Reference from Main to Master Table | Uplink Field | VBELN |
| | Uplink Mode | R |
| | Uplink Target Fld | VBELN |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_SOF_ODLV POD_REL |

4.15.5 Cross-processes for Outbound Delivery

The following entries should be maintained in transaction “ZGTT_AOTYPE_RST - AOT Types Restrictions” for Cross-Processes tracking scenario.

| Restr.ID | Restr.Pos | Option | Sign | Application Obj.Type |
|------------|-----------|----------|---------|----------------------|
| SH_TO_ODLH | 001 | Equal To | Include | GTT_ODLV_HD |
| FU_TO_ODLH | 001 | Equal To | Include | GTT_ODLV_HD |
| FU_TO_ODLI | 001 | Equal To | Include | GTT_ODLV_IT |

4.15.6 Maintain Delivery Types that will be sent to SAP Business Network Global Track and Trace

Maintain the outbound delivery type that you want to send to SAP Business Network Global Track and Trace via transaction “ZGTT_DLVTTYPE_RST - GTT Delivery Type Configuration”, then mark it as active.

For example:

| Delivery Type | Active |
|---------------|--------|
| LBNP | X |

4.16 Shipment Extractor Configuration

4.16.1 Define Application Object Types for Shipment Header

| Segment | Field | Value |
|---------|-----------------|--|
| Header | Bus. Proc. Type | ESC_SHIPMT |
| | Appl. Obj. Type | GTT_SHP_HD |
| | Description | Extract Shipment Header information to SAP Business Network Global Track and Trace |

| | | |
|---|---------------------------|----------------------------------|
| | Text | Shipment Header |
| General Data | Seq. No. | 10 |
| | CI for GTT | GTTAPPLOGS |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | SHIPMENT_HEADER_NEW |
| | Del. Obj. Table | SHIPMENT_HEADER_OLD |
| Object Identification | AOID Method | Determine by Function |
| Object Identification – Application Object ID Source – Determine AOID by Function | AOID Extractor | GTT_MIA_SHP_HD_AOID |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_MIA_SHP_HD_REL |
| Parameter Setup | TrkID Method | Determine by Function |
| | Trk. ID Function | GTT_MIA_SHP_HD_TID |
| | Ctrl Data Function | GTT_MIA_SHP_HD_OTE |
| | Planned Event Function | GTT_MIA_SHP_HD_EE |

4.16.2 Define Event Types for Shipment Header

| Segment | Field | Value |
|--------------------------------|---------------------|----------------------------------|
| Header | Bus. Proc. Type | ESC_SHIPMT |
| | Event Type | GTT_EVT_SHP_ARRIVE |
| | Description | Shipment Header Arrival Event |
| | Text | Arrival Event |
| General Data | Seq. No. | 10 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_MIA_SHP_HD_ARR |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | SHIPMENT_HEADER_NEW |
| | Old Main Obj. Table | SHIPMENT_HEADER_OLD |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_MIA_SHP_HD_ARR |

| Segment | Field | Value |
|--------------|-----------------|--------------------------------|
| Header | Bus. Proc. Type | ESC_SHIPMT |
| | Event Type | GTT_EVT_SHP_CHECKIN |
| | Description | Shipment Header Check In Event |
| | Text | Check In Event |
| General Data | Seq. No. | 10 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_MIA_SHP_HD_CI |
| | GTT Relevant | X |

| | | |
|--------------------------------|---------------------|----------------------------------|
| Control Tables | Main Obj. Table | SHIPMENT_HEADER_NEW |
| | Old Main Obj. Table | SHIPMENT_HEADER_OLD |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_MIA_SHP_HD_CI |

| Segment | Field | Value |
|--------------------------------|---------------------|----------------------------------|
| Header | Bus. Proc. Type | ESC_SHIPMT |
| | Event Type | GTT_EVT_SHP_DEPART |
| | Description | Shipment Header Departure Event |
| | Text | Departure Event |
| General Data | Seq. No. | 10 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_MIA_SHP_HD_DEP |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | SHIPMENT_HEADER_NEW |
| | Old Main Obj. Table | SHIPMENT_HEADER_OLD |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_MIA_SHP_HD_DEP |

| Segment | Field | Value |
|--------------------------------|---------------------|----------------------------------|
| Header | Bus. Proc. Type | ESC_SHIPMT |
| | Event Type | GTT_EVT_SHP_LOADEND |
| | Description | Shipment Header Load End Event |
| | Text | Load End Event |
| General Data | Seq. No. | 10 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_MIA_SHP_HD_LE |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | SHIPMENT_HEADER_NEW |
| | Old Main Obj. Table | SHIPMENT_HEADER_OLD |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_MIA_SHP_HD_LE |

| Segment | Field | Value |
|---------|-----------------|----------------------------------|
| Header | Bus. Proc. Type | ESC_SHIPMT |
| | Event Type | GTT_EVT_SHP_LOADSTAR |
| | Description | Shipment Header Load Start Event |

| | | |
|--------------------------------|---------------------|----------------------------------|
| | Text | Load Start Event |
| General Data | Seq. No. | 10 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_MIA_SHP_HD_LS |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | SHIPMENT_HEADER_NEW |
| | Old Main Obj. Table | SHIPMENT_HEADER_OLD |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_MIA_SHP_HD_LS |

4.17 Freight Unit Extractor Configuration

4.17.1 Define Application Object Types for Freight Unit Header

| Segment | Field | Value |
|---|------------------------|---|
| Header | Bus. Proc. Type | TMS_TOR |
| | Appl. Obj. Type | GTT_FU |
| | Description | Extract FU Information to SAP Business Network Global Track and Trace |
| | Text | FU Header |
| General Data | Seq. No. | 10 |
| | CI for GTT | GTTAPPLOGS |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| | Del. Obj. Table | TOR_ROOT |
| Object Identification | AOID Method | Determine by Function |
| Object Identification – Application Object ID Source – Determine AOID By Function | AOID Function | GTT_STS_AOID_TOR |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_FU_HD_REL |
| Parameter Setup | Trk.ID Method | Determine by Function |
| | Tr. Function | GTT_TS_FU_HD_TID |
| | Ctrl Data Function | GTT_TS_FU_HD_OTE |
| | Planned Event Function | GTT_TS_FU_HD_EE |

4.17.2 Define Event Types for Freight Unit Header

| Segment | Field | Value |
|---------|-----------------|---------|
| Header | Bus. Proc. Type | TMS_TOR |

| | | |
|--------------------------------|-------------------|----------------------------------|
| | Event Type | GTT_EVT_TOR_ARRIVE |
| | Description | FO/FB/FU Arrival Event |
| | Text | Arrival Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_ARRIVAL |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_ARRIVE |

| Segment | Field | Value |
|--------------------------------|-------------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_COUPLE |
| | Description | FO/FB/FU Coupling Event |
| | Text | Coupling Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_COUPLING |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_COUP |

| Segment | Field | Value |
|--------------------------------|-------------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_DECOPPLE |
| | Description | FO/FB/FU Decoupling Event |
| | Text | Decoupling Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_DECOUPL |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_DECP |

| Segment | Field | Value |
|--------------------------------|-------------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_UNLSTART |
| | Description | FO/FB/FU Unloading Start Event |
| | Text | Unloading Start |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_UNLD_STR |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_USTR |

| Segment | Field | Value |
|--------------------------------|-------------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_DELAY |
| | Description | FO/FB/FU Delay Event |
| | Text | Delay Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_DELAY |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_DELAY |

| Segment | Field | Value |
|--------------------------------|-----------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_DEPART |
| | Description | FO/FB/FU Departure Event |
| | Text | Departure Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_DEPART |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |

| | | |
|--|-------------------|-------------------|
| | GTT Rel. Function | GTT_TS_TOR_DEPART |
|--|-------------------|-------------------|

| Segment | Field | Value |
|--------------------------------|-------------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_FU_DELAY |
| | Description | FU Delay Event |
| | Text | FU Delay Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTAPPLOGS |
| | Event Function | GTT_TS_TOR_FU_DELAY |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_FU_DELAY |

| Segment | Field | Value |
|--------------------------------|-------------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_LOADEND |
| | Description | FO/FB/FU Loading End Event |
| | Text | Loading End Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTAPPLOGS |
| | Event Function | GTT_TS_TOR_LOAD_END |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_LEND |

| Segment | Field | Value |
|--------------|-----------------|------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_LOADSTRT |
| | Description | FO/FB/FU Loading Start Event |
| | Text | Loading Start Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTAPPLOGS |
| | Event Function | GTT_TS_TOR_LOAD_STR |
| | GTT Relevant | X |

| | | |
|--------------------------------|-------------------|----------------------------------|
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_LSTR |

| Segment | Field | Value |
|--------------------------------|-------------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_POD |
| | Description | FO/FB/FU Proof of Delivery Event |
| | Text | POD Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_POD |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_POD |

| Segment | Field | Value |
|--------------------------------|-------------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_POPU |
| | Description | FO/FB/FU Proof of Pickup Event |
| | Text | POPU Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_POPU |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_POPU |

| Segment | Field | Value |
|--------------------------------|-------------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_UNLEND |
| | Description | FO/FB/FU Unloading End Event |
| | Text | Unloading End Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_UNLD_END |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_UEND |

4.18 Road Freight Order/Ocean Booking/Air Booking Extractor Configuration

4.18.1 Define Application Object Types for Road Freight Order/Ocean booking/Air Booking Header

| Segment | Field | Value |
|---|------------------------|--|
| Header | Bus. Proc. Type | TMS_TOR |
| | Appl. Obj. Type | GTT_SHP_HD |
| | Description | Extract FO/FB information to SAP Business Network Global Track and Trace |
| | Text | FO/FB Header |
| General Data | Seq. No. | 10 |
| | CI for GTT | GTTAPPLOGS |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| | Del. Obj. Table | TOR_ROOT |
| Object Identification | AOID Method | Determine by Function |
| Object Identification – Application Object ID Source – Determine AOID By Function | AOID Function | GTT_STS_AOID_TOR |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_FO_HD_REL |
| Parameter Setup | Trk.ID Method | Determine by Function |
| | Tr. Function | GTT_TS_FO_HD_TID |
| | Ctrl Data Function | GTT_TS_FO_HD_OTE |
| | Planned Event Function | GTT_TS_FO_HD_EE |

4.18.2 Define Event Types for Road Freight Order/Ocean Booking/Air Booking Header

| Segment | Field | Value |
|----------------|-----------------|------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_ARRIVE |
| | Description | FO/FB/FU Arrival Event |
| | Text | Arrival Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_ARRIVAL |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |

| | | |
|--------------------------------|-------------------|----------------------------------|
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_ARRIVE |

| Segment | Field | Value |
|--------------------------------|-------------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_COUPLE |
| | Description | FO/FB/FU Coupling Event |
| | Text | Coupling Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_COUPLING |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_COUP |

| Segment | Field | Value |
|--------------------------------|-------------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_DECOUPLE |
| | Description | FO/FB/FU Decoupling Event |
| | Text | Decoupling Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_DECOUPL |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_DECP |

| Segment | Field | Value |
|--------------|-----------------|--------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_UNLSTART |
| | Description | FO/FB/FU Unloading Start Event |
| | Text | Unloading Start |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_UNLD_STR |
| | GTT Relevant | X |

| | | |
|--------------------------------|-------------------|----------------------------------|
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_USTR |

| Segment | Field | Value |
|--------------------------------|-------------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_DELAY |
| | Description | FO/FB/FU Delay Event |
| | Text | Delay Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTAPPLOGS |
| | Event Function | GTT_TS_TOR_DELAY |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_DELAY |

| Segment | Field | Value |
|--------------------------------|-------------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_DEPART |
| | Description | FO/FB/FU Departure Event |
| | Text | Departure Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTAPPLOGS |
| | Event Function | GTT_TS_TOR_DEPART |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_DEPART |

| Segment | Field | Value |
|--------------|-----------------|----------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_LOADEND |
| | Description | FO/FB/FU Loading End Event |
| | Text | Loading End Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTAPPLOGS |

| | | |
|--------------------------------|-------------------|----------------------------------|
| | Event Function | GTT_TS_TOR_LOAD_END |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_LEND |

| Segment | Field | Value |
|--------------------------------|-------------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_LOADSTRT |
| | Description | FO/FB/FU Loading Start Event |
| | Text | Loading Start Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_LOAD_STR |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_LSTR |

| Segment | Field | Value |
|--------------------------------|-------------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_POD |
| | Description | FO/FB/FU Proof of Delivery Event |
| | Text | POD Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_POD |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_POD |

| Segment | Field | Value |
|---------|-----------------|--------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_POPU |
| | Description | FO/FB/FU Proof of Pickup Event |
| | Text | POPU Event |

| | | |
|--------------------------------|-------------------|----------------------------------|
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_POPU |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_POPU |

| Segment | Field | Value |
|--------------------------------|-------------------|----------------------------------|
| Header | Bus. Proc. Type | TMS_TOR |
| | Event Type | GTT_EVT_TOR_UNLEND |
| | Description | FO/FB/FU Unloading End Event |
| | Text | Unloading End Event |
| General Data | Seq. No. | 0 |
| | HCI for GTT | GTTAPPLOGS |
| | Event Function | GTT_TS_TOR_UNLD_END |
| | GTT Relevant | X |
| Control Tables | Main Obj. Table | TOR_ROOT |
| Global Track & Trace Relevance | GTT Rel. Method | Check Function (Function Module) |
| | GTT Rel. Function | GTT_TS_TOR_UEND |

4.19 TM Configurations

You must do the following configurations in TM in SAP S/4HANA to ensure the following documents can be sent to Global Track and Trace:

- freight unit
- freight order
- freight booking

Procedure

1. Adjust the integration with TM in SAP S/4HANA and SAP EM. The Post Processing Framework (PPF) is used to trigger the communication from SAP Transportation Management (SAP TM) to SAP Event Management (SAP EM). You need to maintain the output management adapter for this communication to work.
 - a. Log onto SAP, enter T-code **SPRO** and then click **SAP Reference IMG** to open the **Display IMG** page. Go to **Cross-Application Components -> Processes and Tools for Enterprise Applications -> Reusable Objects and Functions for BOPF Environment -> PPF Adapter for Output Management -> Maintain Output Management Adapter Settings**.
 - b. In the **Dialog Structure** section, choose **Direct Output Agents (w/o PPF & w/o History)**.
 - c. Choose the following entry and enable it.
 - i. Business Object: /SCMTMS/TOR
 - ii. Node: ROOT

- iii. Agent Name: SEND_EM_DATA_FROM_TOR
- d. Choose **Synch/Asynch** with value "Has Critical o/p: Process during Save - before Commit". (As described in note 1842397, the Synch/Asynch setting has to be set to "Has Critical o/p: Process during Save - before Commit" in order to use the before image data in the BAdl implementations.)
- e. In the **Dialog Structure** section, choose **Nodes for Before Image**.
- f. Create the following entries:

| Business Object | Node | Sub Node Name |
|------------------------|-------------|-------------------------|
| /SCMTMS/TOR | ROOT | EXECUTIONINFORMATION |
| /SCMTMS/TOR | ROOT | ITEM_TR |
| /SCMTMS/TOR | ROOT | STOP |
| /SCMTMS/TOR | ROOT | STOP_SUCCESSOR |
| /SCMTMS/TOR | ROOT | DOCREFERENCE |
| /SCMTMS/TOR | ROOT | EXECUTIONINFORMATION_TR |
| /SCMTMS/TXC | ROOT | TEXT |
| /SCMTMS/TXC | TEXT | TEXT_CONTENT |

2. Adjust document type settings.

Note

Adjust the value of **Appl.Obj.Type** of these document types to ensure it's consistent with the following fields:

- o **Appl.Obj.Type** field in **IMG -> Integration with Other SAP Components - > Interface to Global Track and Trace -> Define Application Interface -> Define Used Business Process Types, Appl. Object Types and Event Types - > Business Process Type TMS_TOR -> Define Application Object Types -> Interface to Global Track and Trace**
- o **Application Object Type** field in the "gttft1" model (under the tab IDOC Integration) of the **Manage Models** app.

a. Adjust freight unit type settings.

- i. On the IMG, go to **Transportation Management -> Planning -> Freight Unit -> Define Freight Unit Types**
- ii. In the table, open the applicable freight unit type to be tracked with SAP Event Management.
- iii. In the Integration Settings, fill in the **Application Obj.Type** field with value "**GTT_FU**".
- iv. In the **Execution Settings**, the **Execution Tracking Relevance** field is set to "Execution Tracking with External Event Management".

b. Adjust freight order type settings.

- i. On the IMG, go to **Transportation Management -> Freight Order Management -> Freight Order -> Define Freight Order Types**

- ii. In the table, open the applicable freight order type to be tracked with SAP Event Management.
 - iii. In the **Integration Settings**, fill in the **Application Obj.Type** field with value **GTT_SHP_HD**.
 - iv. In the **Execution Settings**, the **Execution Tracking Relevance** field is set to "Execution Tracking with External Event Management".
- c. Adjust the freight booking type settings.
- i. On the IMG, go to **Transportation Management -> Freight Booking Management -> Freight Booking -> Define Freight Booking Types**
 - ii. In the table, open the applicable freight booking type to be tracked with SAP Event Management
 - iii. In the Integration Settings, fill in the **Application Obj.Type** field with value **GTT_SHP_HD**.
 - iv. In the **Execution Settings**, the **Execution Tracking Relevance** field is set to "Execution Tracking with External Event Management"

5. CONFIGURATION AND CODING GUIDE – ADVANCED

This chapter has been moved to the guide *How to Send Documents from SAP S/4HANA to SAP Business Network Global Track and Trace on SAP Help Portal*. Please check the Coding Tips section of this guide. You can find this guide at <http://help.sap.com/gtt>.

6 KNOWN ISSUES

6.1 Planned Event Extension Not Enabled

Currently, on SAP S/4HANA side, the EXTENSION segment of process IDOC is not enabled for the planned event part, which means that you cannot make the user-defined fields for planned events in the *Manage Models* app.

The workaround is to make use of Control Parameter's segment in IDOC and make the field mapping on the tracked process level in the *Manage Models* app.

6.2 One-time locations Relevant

- When the supplier address is changed in the purchase order header, the purchase order item IDOC cannot be triggered. So, the change cannot be updated to its purchase order items in the GTT system.
- After the sales order and the outbound delivery are created, then if you change the address in the sales order, the change cannot be updated to the outbound delivery in the GTT system, because no new outbound delivery IDOC is generated and sent to the GTT system. The same goes for the purchase order and the inbound delivery.
- After the outbound delivery and the LE-TRA shipment are created, then if you change the address in the outbound delivery, the change cannot be updated to the LE-TRA shipment in the GTT system, because no new LE-TRA shipment IDOC is generated and sent to the GTT system. The same goes for the inbound delivery and the LE-TRA shipment.
- If you change the address in the LE-TRA shipment, the change can be updated to the outbound/inbound delivery header through cross-process updates. But it cannot be updated to the item level.

APPENDIX ONE: DEFINE THE UNPLANNED EVENTS FOR AIR BOOKING

You need to define the following unplanned events for air booking before they can be synchronized back from GTT to TM:

- Flight Booked
- Manifest Ready
- Received from Shipper
- Consignee Notified.

To define these unplanned events, do the following:

Note: here the unplanned event "Flight Booked" is used as an example.

1. On the **Display IMG** page, click **Transportation Management-> Integration-> Tracking and Tracing of Processes and Documents-> Define Transportation Activities for Tracking and Tracing**.
2. Select **Event for Business Document** and click **New Entries**.

| Event | Description | Transp Act | Stop Cat | Internal |
|---|------------------------|------------|----------|----------|
| <input type="checkbox"/> ARRIVAL_DOOR | Arrival at Door | 11 | | |
| <input type="checkbox"/> ARRIV_DEST | Arrival at Destination | 04 | I S | |
| <input type="checkbox"/> BLOCK_FOR_EXEC | Block for Execution | 99 | | |

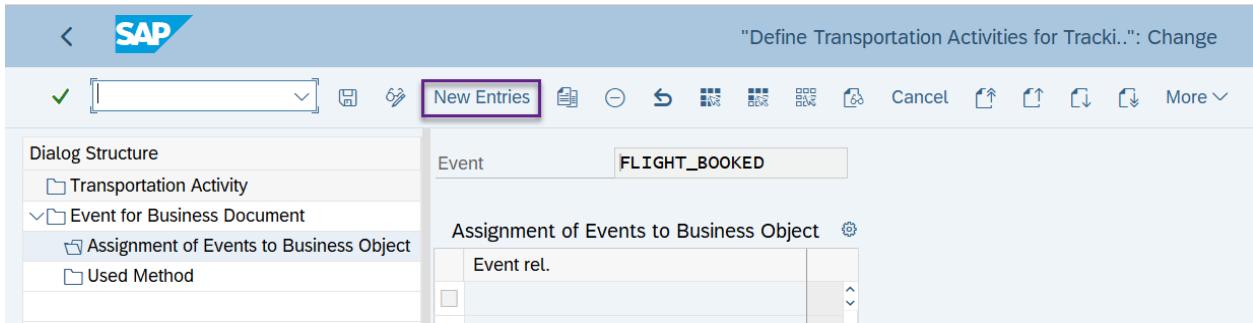
3. Input the **Event name, Description, Transp Act** and Click **Save**.

| Event | Description | Transp Act | Stop Cat | Internal |
|---|---------------|------------|----------|----------|
| <input checked="" type="checkbox"/> FLIGHT_BOOKED | Flight Booked | 99 | | |

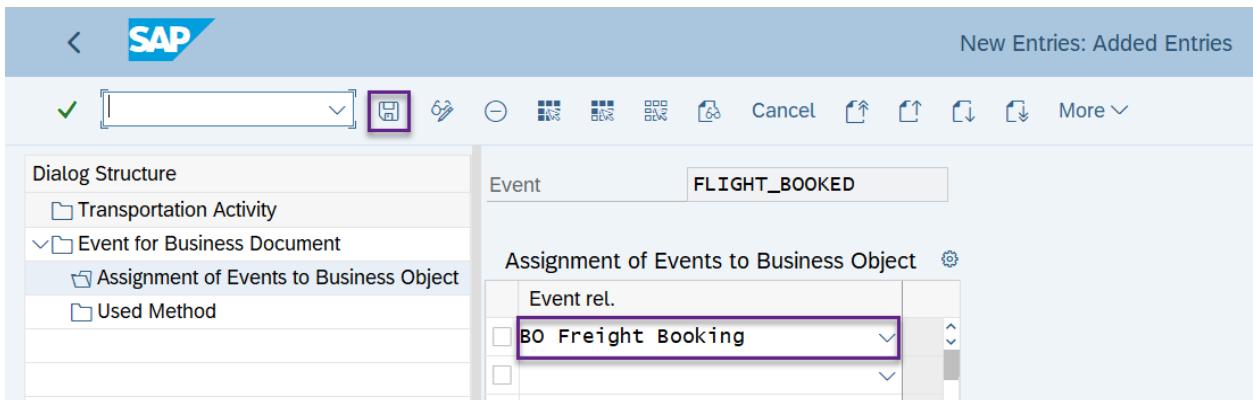
4. Select the event "FLIGHT_BOOKED", then double click **Assignment of Events to Business Object**.

| Event | Description | Transp Act | Stop Cat | Internal |
|---|---------------------|------------|----------|----------|
| <input checked="" type="checkbox"/> FLIGHT_BOOKED | Flight Booked | 99 | | |
| <input type="checkbox"/> GEN_DISCRP | General Discrepancy | 99 | | |

5. Click **New Entries**.



6. Select "BO Freight Booking" and Click **Save**.



Results:

The configuration results for these event types should be as follows:

| Event | Description | Transportation Activity | Stop Category | Event relevance for category |
|--------------------|-----------------------|-------------------------|---------------|------------------------------|
| FLIGHT_BOOKED | Flight Booked | 99 | blank | BO (Freight Booking) |
| MANIFEST_READY | Manifest Ready | 99 | blank | BO (Freight Booking) |
| RCVD_FROM_SHIPPER | Received from Shipper | 99 | blank | BO (Freight Booking) |
| CONSIGNEE_NOTIFIED | Consignee Notified | 99 | blank | BO (Freight Booking) |

Now you can go on to configure for synchronizing these unplanned events back to TM. For configuration details, see [Synchronize Actual Events Back to TM System](#). If the events still cannot be synchronized back to TM, please check the SAP Note [3010748 - Allow unexpected events without location reference in TransportationEventBulkNotification](#).

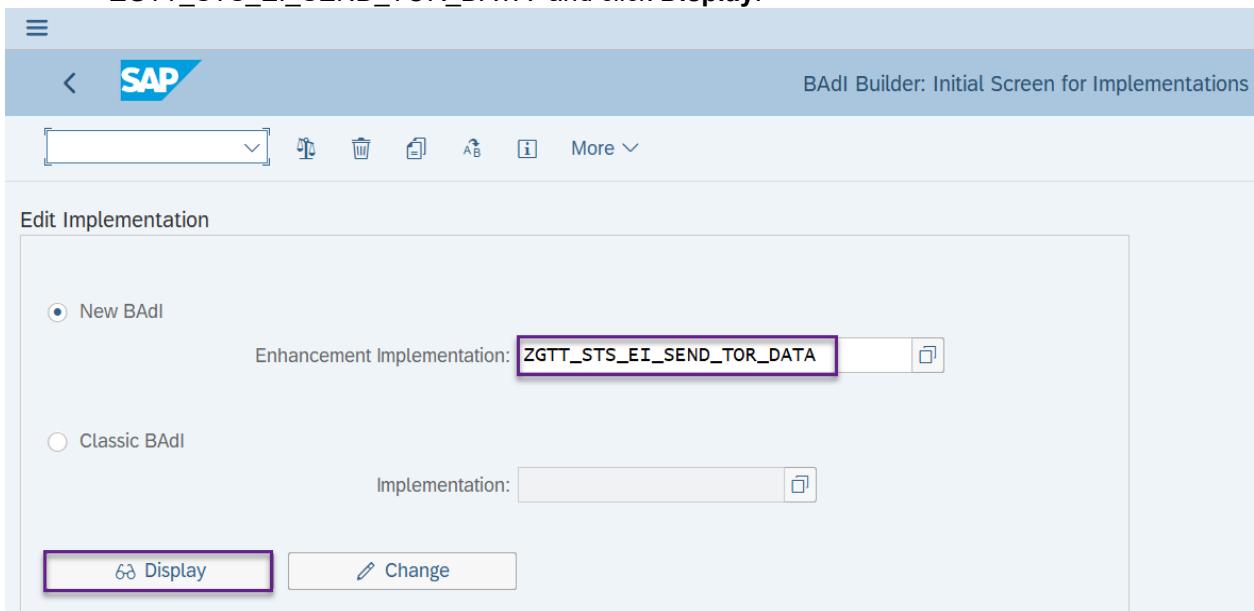
APPENDIX TWO: FAQS

This chapter provides you with answers to questions commonly asked about the configuration.

Q1: After the configuration of GTT and SAP TM systems, we found that the freight unit / freight order / freight booking IDOC cannot be sent to SAP Business Network Global Track and Trace, how can we do the troubleshooting?

Step 1: Check the trigger point of the generation of freight unit / freight order / freight booking IDOC

- a. Go to T-code SE19, fill in the **Enhancement Implementation** with "ZGTT_STS_EI_SEND_TOR_DATA" and click **Display**.



- b. Ensure that the **Enhancement Implementation** “ZGTT_STS_EI_SEND_TOR_DATA” is active. In the **Enh. Implementation Elements** tab, ensure that **BAdl Implementation** “ZGTT_STS_BI_SEND_TOR_DATA” is active.

Enhancement Implementation ZGTT_STS_EI_SEND_TOR_DATA Display

Enhancement Implementation: ZGTT_STS_EI_SEND_TOR_DATA Active

Properties History Technical Details Enh. Implementation Elements

BAdl Implementations Description: ZGTT_STS_BI_SEND_TOR_DATA

Description: Send TOR Data

Default Implementation
 Example Implementation
 "Active" not switchable in customizing (IMG)

Implementation is active

Runtime Behavior: The implementation will be called

Properties of BAdl Definition

BAdl Definition Name: /SCMTMS/SEND_TOR_DATA

Description: Send TOR Data to Event Management

Interface: /SCMTMS/IF_SEND_TOR_DATA

Instance Creation Mode: No Reuse of BAdl Instance

Execution Settings

Execution Tracking Relevance: 3 Execution Tracking with External Event Management

Display Mode for Execution Tab: Actual Events from TM and EM, Expected Events from EM

Immediate Processing: Life Cycle Is Not to Be Set to "In Process" Immediately

Expected Event for Goods Issue:

Expected Event for Goods Receipt:

Last Exp. Event: UNLOAD_END

Execution Propagation Mode: Standard Propagation

Check Condition "Ready for Exec":

Discrepancy Profile:

Step 2: Check the freight order / freight booking master data

To send freight orders or freight bookings to SAP Business Network Global Track and Trace, do the following:

- Assign the carrier.
- Change the execution status.
 - For freight orders: in the **Execution Status** tab on the top, change the **Execution Status** to “Set to Ready for Transportation Execution” or “Set to In Execution”.

SAP Edit GTT Standard Freight Order Type AccAWS 6100063618

General Data Business Partner Items Overview Stages Utilization Subcontracting Create Service Order Schedule Set Status ...

Display Settings ⚙️ ⌂ ⌂

Blocking Information ...

Truck

Means of Transport:

Vehicle:

Registration Country/Region No.:

Total/Consumed/Remaining Capacity... : 2,000 KG

Total/Consumed/Remaining Capacity... : 20 M3

Maximum Utilization: 0%

Cargo Information

Cargo Weight: 2,000 KG

Cargo Volume: 20 M3

Quantity: 20 EA

Total Weight: 2,000 KG

General Information

Document Type: STR1 GTT Standard Freight Order Type AccAWS

Description: GTT Standard Freight Order Type Ac...

Origin of Freight Order: Manual Creation

Transportation

Carrier: LBN_CAR100 1

Executing Carrier:

Communication Party:

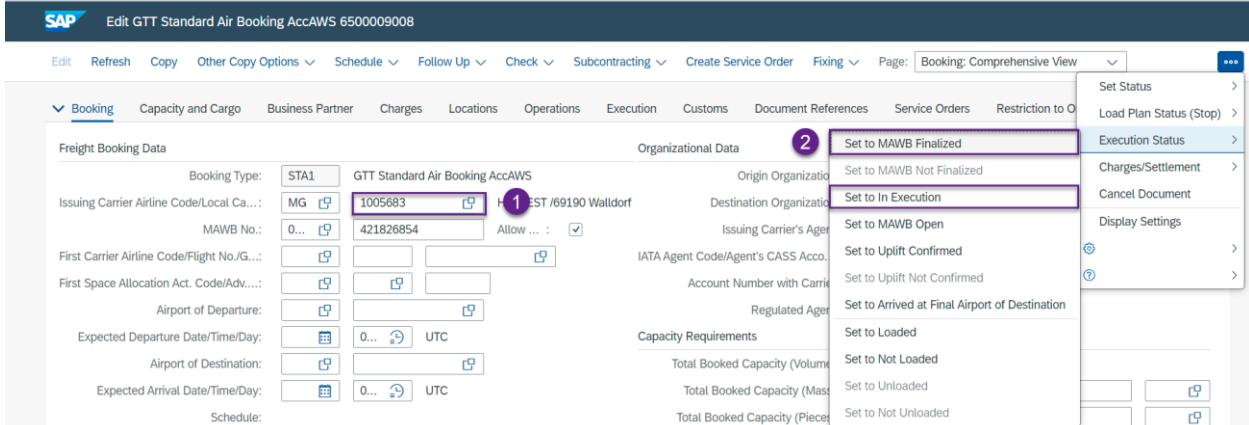
Service Level – Carrier:

SCAC:

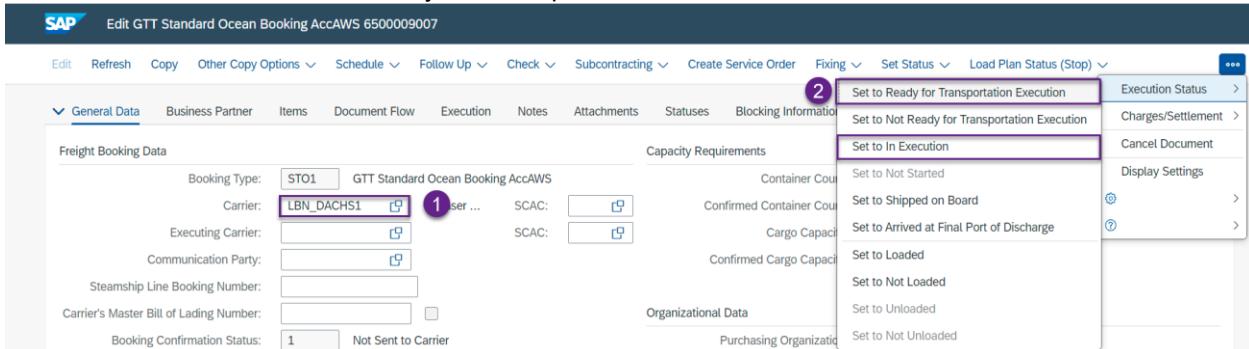
SCAC:

Set to Ready for Transportation Execution
Set to Not Ready for Transportation Execution
Set to In Execution
Set to Not Started
Set to Checked Out
Set to Departed
Set to Arrived
Set to Checked In
Set to Loaded
Set to Not Loaded
Set to Unloaded
Set to Not Unloaded

- For freight bookings:
 - Air booking: in the **Execution Status** tab on the top, change the **Execution Status** to "Set to MAWB Finalized" or "Set to In Execution".



- Ocean booking: in the **Execution Status** tab on the top, change the **Execution Status** to "Set to Ready for Transportation Execution" or "Set to In Execution".



Debugging

If the issue still exists, you can perform the following steps to debug in the extractor code:

- On the IMG, go to node **Cross-Application Components -> Processes and Tools for Enterprise Applications ->Reusable Objects and Functions for BOPF Environment -> PPF Adapter for Output Management -> Maintain Output Management Adapter Settings**.
- In the **Dialog Structure** section, choose **Direct Output Agents (w/o PPF & w/o History)**. Ensure that the following entry is enabled:

| Display View "Direct Output Agents (w/o PPF & w/o History)": Overview | | | | | |
|---|---------------------------|--|-----------------------------|------------|--|
| Dialog Structure | | Direct Output Agents (w/o PPF & w/o History) | | | |
| | | Business Object | Node | Agent Name | Description |
| ✓ | /SCMTMS/TOR | ROOT | SEND_EM_DATA_FROM_TOR | | Call SAP EM (recommended, check note 1842397 for details) |
| ✓ | /SCMTMS/TOR | ROOT | SEND_EM_DATA_FROM_TOR_ASYNC | | Call SAP EM (not recommended, check note 1842397 for detail) |
| ✓ | /SCMTMS/TOR | ROOT | TOR_BW_EXTRACTION | | TOR Delta Extraction to SAP BW |
| ✓ | /SCMTMS/TRIGGER_COLLECTOR | ROOT | TRIGGER_COLLECTOR | | Collects triggers and executes bgRFC units to process them |
| ✓ | /SCMTMS/TRQ | ROOT | DPP_SORT_DETERMINATION | | DPP: DOA Agent to determine/write SoRT Information for TRQ |
| ✓ | /SCMTMS/TRQ | ROOT | SEND_EM_DATA_FROM_TRQ | | Send EM Data from Transportation Request (BO TRQ) |
| ✓ | /SCMTMS/TRQ | ROOT | TRQ_BW_EXTRACTION | | TRQ Delta Extraction to SAP BW |
| ✓ | /SCMTMS/WAYBILLNO | ROOT | DPP_SORT_DETERMINATION | | DPP: DOA Agent to determine/write SoRT Information for WBN |

Note: in this entry, the value of **Synch/Asynch** column is "Has Critical o/p: Process during Save - before Commit".

- Set a break point in method /SCMTMS/IF_SEND_TOR_DATA~CALL_EVENT_MGR of the BAdI implementing class ZCL_GTT_STS_SEND_TOR_DATA.
- For the scenario when the freight unit watches the freight order, set additional break point in below places:
 - In method ZIF_GTT_STS_BO_READER~CHECK_RELEVANCE of class ZCL_GTT_STS_BO_FU_READER, check the value of "rv_result". If it is "T", it means

- the freight unit IDOC can be generated. Otherwise, the freight unit IDOC cannot be generated.
- In method ZIF_GTT_STS_BO_READER-CHECK_RELEVANCE of class ZCL_GTT_STS_BO_FO_READER, check the value of "rv_result". If it is "T", it means the freight order IDOC can be generated. Otherwise, the freight order IDOC cannot be generated.

Q2: How to add customized planned event and synchronize this event back to SAP TM?

Suppose you want to add the planned event type "quality inspection" for the freight order tracked process, do the following:

Step 1: Create a planned event type in the GTT standard model "gttft1" in the Manage Models app

- Launch the Manage Models app and go to the GTT standard model "gttft1".
- In the **Event Type Pool** tab, click **Create** and fill in the event information in the dialogue. For details, see "[Create Event Type](#)" section in [Guide for Model Administrators](#).
Note: the event type must start with "ZZ". For example ZZINSPECTION.
- Assign the newly created event type to the shipment tracked process.
 - In the **Tracked Process** tab, choose **Admissible Planned Events** from the dropdown list on the right and click **Add**.
 - In the **Details** tab of the dialogue, choose the **Event Type** that you created from the dropdown list and fill in the rest of information.
- Configure the IDOC mapping
 - Click **Edit** on the top. In the **IDOC Integration** tab, for **Tracked Process** field, choose "Shipment" from the dropdown list.
 - Under **Tracked Process / Events**, fill in **IDOC** and **Event Code** for the newly created event type.

The screenshot shows the SAP Manage Models app interface. The top navigation bar includes tabs for Tracked Process, Field Type Pool, Event Type Pool, Code List, **IDOC Integration** (which is currently selected), and Visibility Provider Integration. Below the navigation bar, there is a dropdown labeled "Tracked Process:" set to "Shipment". A section titled "Tracked Process Mapping" shows the "ERP Object Type" as "Others". A table titled "Tracked Process / Events (54)" lists various events with their corresponding IDOC and Event Code. One row, "ZZINSPECTION", has its entire row highlighted with a purple border. To the right of the table, there are two vertical panes: "User M" and "Field".

| Tracked Process / Events (54) | | |
|-------------------------------|------------|---------------|
| Name | IDOC | Event Code |
| GateInEmpty | E1EVMHDR02 | GATEIN_EMPTY |
| GateInFull | E1EVMHDR02 | GATEIN_FULL |
| GateOutEmpty | E1EVMHDR02 | GATEOUT_EMPTY |
| GateOutFull | E1EVMHDR02 | GATEOUT_FULL |
| ZZINSPECTION | E1EVMHDR02 | ZZ_INSPECTION |

- In the **User Script Before Standard Script** section, add your script for synchronizing back the customized event to SAP TM.

Example:

```
var inspection_event = modelNamespace + ".Shipment.ZZINSPECTION";
if (inspection_event == actualEvent.eventType) {
```

```

        eventForwardToTM = true;

    }

```

- f. Save your changes and click **Deploy** on the top right to deploy the model. Once the model is successfully deployed, you can see **Active** on the model card with its last operation status "Deployment Success".

Step 2: Add the ABAP Implementation Code

- Navigate to the method ZIF_GTT_STS_PE_FILLER~GET_PLANNED_EVENTS of class ZCL_GTT_STS_PE_FO_FILLER in the system.
- Add the planned event type that you created in the Manage Models app as milestone event. For coding tips, see chapter [5](#) in this guide.

Note: when you add the planned event type, remember that the event name here must be the same as the event code that you previously maintained in the IDOC mapping.

Step 3: Add the above customized event In SAP TM.

- On the **Display IMG** page, click **Transportation Management-> Integration-> Tracking and Tracing of Processes and Documents-> Define Transportation Activities for Tracking and Tracing**.
- Select **Event for Business Document** and click **New Entries**.

| Event | Description | Transp Act | Sto |
|----------------|------------------------|------------|-----|
| ARRIVAL_DOOR | Arrival at Door | 11 | I S |
| ARRIV_DEST | Arrival at Destination | 04 | I S |
| BLOCK_FOR_EXEC | Block for Execution | 99 | I S |

c. Input the **Event name**, **Description**, **Transp Act** and Click **Save**.

| Event | Description | Transp Act | Stop Cat | Internal |
|---------------|--------------------|------------|----------|-------------------------------------|
| ZZ_INSPECTION | Quality inspection | 99 | | <input checked="" type="checkbox"/> |

d. Select the event "ZZ_INSPECTION", then double click **Assignment of Events to Business Object**.

| Event | Description | Transp Act | Stop Cat | Internal |
|---------------|--------------------|------------|----------|-------------------------------------|
| ZZ_INSPECTION | Quality inspection | 99 | | <input checked="" type="checkbox"/> |

e. Click **New Entries**.

| Event rel. |
|------------|
| |

f. Select "TO Freight Order" and Click **Save**.

| Event rel. |
|------------------|
| TO Freight Order |

Now you can go on to configure for synchronizing events back to TM. For configuration details, see [Synchronize Actual Events Back to TM System](#). If the events still cannot be synchronized back to TM, please check the SAP Note [3010748 - Allow unexpected events without location reference in TransportationEventBulkNotification](#).

Q3: How to update business partner's LBN ID?

To update the LBN ID in SAP Transportation Management (SAP TM) for a logistics service provider (your business partner), proceed as follows in SAP TM:

Step 1: Define Identification Categories for LBN Identification Number

Go to SAP Customizing Implementation Guide under **Cross-Application Components->SAP Business Partner->Business Partner->Basic Settings->Identification Numbers->Define Identification Categories** and maintain the following entry:

| ID Cat. | Description | ID Unique | Disp. Only | One ID->BP | Identification Schema |
|---------|--------------------|-----------|------------|------------|-----------------------|
| LBN001 | LBN Identification | | | X | |

Step 2: Define Identification Types for LBN Identification Number

Go to SAP Customizing Implementation Guide under **Cross-Application Components->SAP Business Partner->Business Partner->Basic Settings->Identification Numbers->Define Identification Types**. Create a new ID Type as follows:

| ID Type | Description | ID Categ. | Persons | Organizations |
|---------|--------------------|-----------|---------|---------------|
| LBN001 | LBN Identification | LBN001 | X | X |

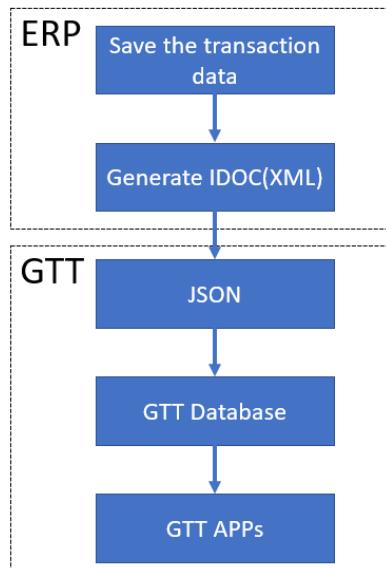
Step 3: Update Business Partner's LBN ID

- Go to the **Manage Business Partner** transaction (transaction BP).
- Set the filtering criteria to find the business partner for which you want to update the LBN ID. Double-click the business partner to open its **Display Organization** page.
- Go to the **Identification** tab. In the **Identification Numbers** section, enter “LBN001” in the **IDType** column.
- In the **Identification Number** field, enter the LBN ID and save your changes.

Q4: How is the connection established between SAP S/4HANA and SAP Business Network Global Track and Trace? Do I need to configure PI in SAP S/4HANA?

When saving the transaction data, the asynchronous IDOC was sent to establish the connection between SAP S/4HANA and SAP Business Network Global Track and Trace. You don't need to set up PI in SAP S/4HANA.

The data process flow is as below:



Q5: What scenarios are supported in SAP Business Network Global Track and Trace?

1) Purchase Order -> Inbound Delivery -> Shipment.



2) Purchase Order -> Inbound Delivery -> Freight Unit -> Road Freight Order / Ocean Booking / Air Booking.



3) Sales Order -> Outbound Delivery -> Shipment.



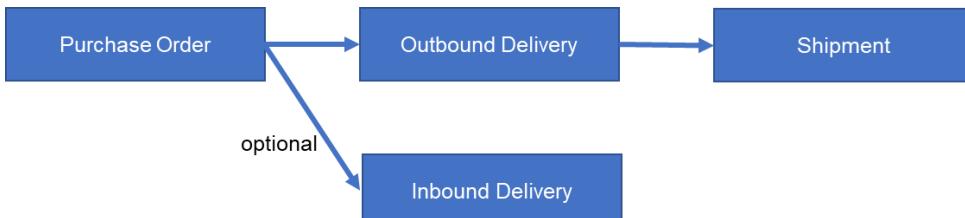
4) Sales Order -> Outbound Delivery -> Freight Unit -> Road Freight Order / Ocean Booking / Air Booking.



5) Stock Transport Order

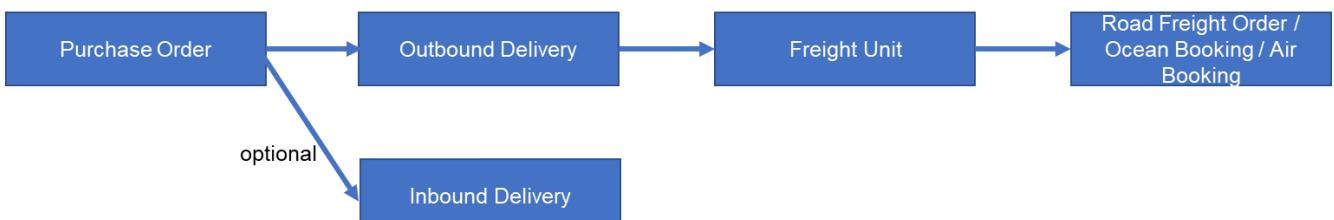
Scenario A:

Purchase Order -> Outbound Delivery -> Shipment.



Scenario B:

Purchase Order -> Outbound Delivery -> Freight Unit -> Road Freight Order / Ocean Booking / Air Booking.



Q6: Do sample codes support one-time locations? Where can I maintain the one-time location address?

Yes. You can maintain one-time locations in the following fields:

| Tracked Processes | Fields |
|---------------------|---|
| Purchase Order | Address in Purchase Order header |
| Purchase Order Item | Delivery Address in Purchase Order Item |
| Inbound Delivery | Goto->Header->Partners->Partner Function "Supplier" |
| Shipment | Fields under Stages->Departure point / Destination or you can directly add the one-time location address in the stage |
| Sales Order | Fields under Goto->Header->Partner->Partner Function "Sold-To Party" or "Ship-To Party" |
| Outbound Delivery | Fields under Goto->Header->Partners->Partner Function "Ship-To Party" |

Q7: How to stop sending unnecessary IDOCs from SAP S/4HANA to the GTT system?

To do so, you should not mark application object types/event types as “GTT Relevant”.

Take the purchase order as an example, you can perform the following steps:

- In Display IMG page, click **Integration with Other SAP Components -> Interface to Global Track and Trace -> Define Application Interface**.
- Choose activity **Define Used Business Process Types, Appl. Object Types and Event Types**.
- Choose the business process type “ESC_PURORD” and double click **Define Application Object Types** on the left.
- Uncheck the “GTT Relevant” box for application object types “GTT_PO_HD” and “GTT_PO_IT”, and it will stop sending control parameter / planned events / tracking ID of the purchase order and its items.

| Application ObjType | Seq. No. | Description | CI for GTT | Object Type | GTT Relev. |
|---------------------|----------|--|------------|-------------|--------------------------|
| GTT_PO_HD | 10 | Purchase Order Head for Procurement Visibility (GTT) | GTTAPPLOGS | BUS2012 | <input type="checkbox"/> |
| GTT_PO_IT | 10 | Purchase Order Item for Procurement Visibility (GTT) | GTTAPPLOGS | BUS2012 | <input type="checkbox"/> |
| PCM10_ITEM | | Purchase Order Item for Procurement Visibility | | BUS2012 | <input type="checkbox"/> |

- Uncheck the “GTT Relevant” box for event types “GTT_EVT_PO_IT_CF” and “GTT_EVT_PO_IT_DE”, and it will stop sending actual events of the purchase order and its items.

| Business Process Type | Event Type | Description | Text | GTT Relevant |
|-----------------------|------------------|---|-----------------------|--------------------------|
| ESC_PURORD | GTT_EVT_PO_IT_CF | PO Item Confirmation Event | Confirmation Event | <input type="checkbox"/> |
| ESC_PURORD | GTT_EVT_PO_IT_DE | PO Item Deletion Event | Deletion Event | <input type="checkbox"/> |
| ESC_PURORD | PCM10_ACKNOWL | Acknowledgement for Procurement Visibility | Acknowl. Proc. Visib. | <input type="checkbox"/> |
| ESC_PURORD | PCM10_PO_CHANGE | Purchase Order Changes for Procurement Visibility | PO Chg. Proc. Visib. | <input type="checkbox"/> |

Q8: How to deactivate or activate the application log?

Take the purchase order as an example, to deactivate the application log for application object types and event types, do the following:

- In Display IMG page, click **Integration with Other SAP Components -> Interface to Global Track and Trace -> Define Application Interface**.
- Choose activity **Define Used Business Process Types, Appl. Object Types and Event Types**.
- Choose the business process type “ESC_PURORD”
- To deactivate the application log for application object types, double click **Define Application Object Types** on the left, then check the “Application Log Deactivation” box for application object types “GTT_PO_HD” and “GTT_PO_IT”. It will stop recording the application log for control parameter / planned events / tracking ID of the purchase order and its items.

| Application ObjType | Seq. No. | Description | CI for GTT | Object Type | GTT Relev. | Log. Deac. | BO Setup Functor |
|---------------------|----------|--|------------|-------------|-------------------------------------|-------------------------------------|------------------|
| GTT_PO_HD | 10 | Purchase Order Head for Procurement Visibility (GTT) | GTTAPPLOGS | BUS2012 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | PCM10_ITEM |
| GTT_PO_IT | 10 | Purchase Order Item for Procurement Visibility (GTT) | GTTAPPLOGS | BUS2012 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| PCM10_ITEM | 0 | Purchase Order Item for Procurement Visibility | | BUS2012 | <input type="checkbox"/> | <input type="checkbox"/> | |

- e. To deactivate the application log for event types, double click **Define Event Types** on the left, then check the “Application Log Deactivation” box for event types “GTT_EVT_PO_IT_CF” and “GTT_EVT_PO_IT_DE”. It will stop recording the application log for actual events of the purchase order and its items.

| Business Process Type | Event Type | Description | Text | GTTR | Log. Deac. | Seq. No. |
|-----------------------|------------------|---|-----------------------|-------------------------------------|-------------------------------------|----------|
| ESC_PURORD | GTT_EVT_PO_IT_CF | PO Item Confirmation Event | Confirmation Event | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 10 |
| ESC_PURORD | GTT_EVT_PO_IT_DE | PO Item Deletion Event | Deletion Event | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 10 |
| ESC_PURORD | PCM10_ACKNOWL | Acknowledgement for Procurement Visibility | Acknowl. Proc. Visib. | <input type="checkbox"/> | <input type="checkbox"/> | 0 |
| ESC_PURORD | PCM10_PO_CHANGE | Purchase Order Changes for Procurement Visibility | PO Chg. Proc. Visib. | <input type="checkbox"/> | <input type="checkbox"/> | 0 |

To activate the application log for application object types and event types, you can uncheck the “Application Log Deactivation” box.

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