



PUBLIC

# SAP ERP Sample Code Configuration Guide for Fulfillment Tracking Apps

**SAP Business Network Global Track and Trace**

**April 2023**

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## Document History

### 2304 Release:

1. Update prerequisites for [Chapter 3 ERP 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 ERP 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 ERP and SAP Business Network Global Track and Trace? Do we need to configure PI in SAP ERP?](#)
12. Add [Q5: What scenarios are supported in SAP Business Network Global Track and Trace?](#)

### 2302 Release:

1. Add [Q4: How to synchronize customized events back to SAP TM?](#)

### 2212 Release:

1. Add [3.9 Maintain Sales Order Types that will be sent to SAP Business Network Global Track and Trace](#)
2. Add [3.10 Maintain Delivery Types that will be sent to SAP Business Network Global Track and Trace](#)
3. Add [4.14.4 Maintain Sales Order Types that will be sent to SAP Business Network Global Track and Trace](#)
4. Add [4.15.6 Maintain Delivery Types that will be sent to SAP Business Network Global Track and Trace](#)
5. Delete 5.1 Coding Tips for Sales Order Relevant Extractor

### 2211 Release:

1. Update [1.1 Check the SAP Product Version](#)

### 2208 Release:

1. Update Appendix Two
  - Add [Q3: How to update business partner's LBN ID](#)
2. Update [1.1 Check the SAP Product Version](#)

## **2204 Release:**

1. Update [Appendix One](#)
2. Update Appendix Two
  - [Add Q2: How to add customized planned event types for SAP Business Network Global Track and Trace?](#)

## **2203 Release:**

1. Update [1.1](#) Check the SAP Version

## **2202 Release:**

1. Update BC set file in the GitHub
2. Chapter [3.7](#) Maintain AOT Type Restriction for Cross-Processes
  - Add "Restr.ID": DL\_TO\_POIT (Cross process from Inbound Delivery to PO Item)
  - Add "Restr.ID": DL\_TO\_SOIT (Cross process from Outbound Delivery to SO Item)
  - Add "Restr.ID": SH\_TO\_ODLH (Cross process from Shipment to Outbound Delivery Header)
  - Add "Restr.ID": FU\_TO\_ODLH (Cross process from Freight Unit to Outbound Delivery Header)
  - Add "Restr.ID": FU\_TO\_ODLI (Cross process from Freight Unit to Outbound Delivery Item)
3. Chapter [3.8](#) Maintain Event Type Restriction for Cross-Processes
  - Add "Restr.ID": DL\_TO\_POIT
4. Chapter [4.6](#) Define GTT Extraction Functions
  - Add "Control Parameter Extractors": GTT\_POF\_PO\_HD\_OTE (Control Parameter Extractor for Purchase Order Header)
  - Add "Control Parameter Extractors": GTT\_POF\_PO\_IT\_OTE (Control Parameter Extractor for Purchase Order Item)
  - Add "Control Parameter Extractors": GTT\_SOF\_SO\_HD\_OTE (Control Parameter Extractor for Sales Order Header)
  - Add "Control Parameter Extractors": GTT\_SOF\_SO\_IT\_OTE (Control Parameter Extractor for Sales Order Item)
  - Add "Control Parameter Extractors": GTT\_SOF\_ODLV\_HD\_OTE (Control Parameter Extractor for Outbound Delivery Header)
  - Add "Control Parameter Extractors": GTT\_SOF\_ODLV\_IT\_OTE (Control Parameter Extractor for Outbound Delivery Item)
  - Add "Event Data Extractors": GTT\_POF\_PO\_IT\_CF (Actual Event PO Item Confirmation)
  - Add "Event Data Extractors": GTT\_POF\_PO\_IT\_DE (Actual Event PO Item Deletion)
  - Add "Event Data Extractors": GTT\_POF\_PO\_IT\_GR (Actual Event PO Item Goods Receipt)
  - Add "Event Data Extractors": GTT\_SOF\_ODLV\_GI (Actual Event Outbound Delivery Goods Issue)
  - Add "Event Data Extractors": GTT\_SOF\_ODLV\_IT\_PA (Actual Event Outbound Delivery Packing)
  - Add "Event Data Extractors": GTT\_SOF\_ODLV\_IT\_PI (Actual Event Outbound Delivery Picking)
  - Add "Event Data Extractors": GTT\_SOF\_ODLV\_IT\_POD (Actual Event Outbound Delivery POD)
  - Add "Planned Event Extractors": GTT\_POF\_PO\_HD\_EE (Selection of EEs for Purchase Order Header)
  - Add "Planned Event Extractors": GTT\_POF\_PO\_IT\_EE (Selection of EEs for Purchase Order Item)
  - Add "Planned Event Extractors": GTT\_SOF\_SO\_HD\_EE (Selection of EEs for Sales Order Header)
  - Add "Planned Event Extractors": GTT\_SOF\_SO\_IT\_EE (Selection of EEs for Sales Order Item)
  - Add "Planned Event Extractors": GTT\_SOF\_ODLV\_HD\_EE (Selection of EEs for Outbound Delivery Header)
  - Add "Planned Event Extractors": GTT\_SOF\_ODLV\_IT\_EE (Selection of EEs for Outbound Delivery Item)
  - Add "Tracking ID Extractors": GTT\_POF\_PO\_HD\_TID (Tracking ID Extractor for Purchase Order Header)

- Add "Tracking ID Extractors": GTT\_POF\_PO\_IT\_TID (Tracking ID Extractor for Purchase Order Item)
  - Add "Tracking ID Extractors": GTT\_SOF\_SO\_HD\_TID (Tracking ID Extractor for Sales Order Header)
  - Add "Tracking ID Extractors": GTT\_SOF\_SO\_IT\_TID (Tracking ID Extractor for Sales Order Item)
  - Add "Tracking ID Extractors": GTT\_SOF\_ODLV\_HD\_TID (Tracking ID Extractor for Outbound Delivery Header)
  - Add "Tracking ID Extractors": GTT\_SOF\_ODLV\_IT\_TID (Tracking ID Extractor for Outbound Delivery Item)
  - Add "GTT relevance function of AOT": GTT\_POF\_PO\_HD\_REL (AOT Relevance for Purchase Order Header)
  - Add "GTT relevance function of AOT": GTT\_POF\_PO\_IT\_REL (AOT Relevance for Purchase Order Item)
  - Add "GTT relevance function of AOT": GTT\_SOF\_SO\_HD\_REL (Appl. Object Type Relevance for Sales Order Header)
  - Add "GTT relevance function of AOT": GTT\_SOF\_SO\_IT\_REL (Appl. Object Type Relevance for Sales Order Items)
  - Add "GTT relevance function of AOT": GTT\_SOF\_ODLV\_HD\_REL (Appl. Object Type Relevance for Outbound Delivery Header)
  - Add "GTT relevance function of AOT": GTT\_SOF\_ODLV\_IT\_REL (Appl. Object Type Relevance for Outbound Delivery Items)
  - Add "GTT relevance function of Event Type": GTT\_POF\_PO\_IT\_CF\_REL (Relevance function for Actual event PO Item Confirmation)
  - Add "GTT relevance function of Event Type": GTT\_POF\_PO\_IT\_DE\_REL (Relevance function for Actual event PO Item Deletion)
  - Add "GTT relevance function of Event Type": GTT\_POF\_PO\_IT\_GR\_REL (Relevance function for Actual event PO Item Goods Receipt)
  - Add "GTT relevance function of Event Type": GTT\_SOF\_ODLV\_GI\_REL (Relevance function for Actual event Outbound Delivery Goods Issue)
  - Add "GTT relevance function of Event Type": GTT\_SOF\_ODLV\_PA\_REL (Relevance function for Actual event Outbound Delivery Packing)
  - Add "GTT relevance function of Event Type": GTT\_SOF\_ODLV\_PI\_REL (Relevance function for Actual event Outbound Delivery Picking)
  - Add "GTT relevance function of Event Type": GTT\_SOF\_ODLV\_POD\_REL (Relevance function for Actual event Outbound Delivery POD)
  - Add "AOID Extractor": GTT\_POF\_PO\_IT\_AOID (AOID Extractor for PO Item)
  - Add "AOID Extractor": GTT\_POF\_PO\_HD\_AOID (AOID Extractor for PO Header)
  - Add "AOID Extractor": GTT\_SOF\_AOID (AOID Extractor for Sales Order/Outbound Delivery)
5. Chapter [4.7](#) Define Used Business Process Types, Appl. Object Types and Event Types
    - Add Scenarios configuration "Purchase Order -> Inbound Delivery -> Shipment"
    - Add Scenarios configuration "Purchase Order -> Inbound Delivery -> Freight Unit -> Road Freight Order / Ocean Booking / Air Booking"
    - Add Scenarios configuration "Sales Order -> Outbound Delivery -> Shipment"
    - Add Scenarios configuration "Sales Order -> Outbound Delivery -> Freight Unit -> Road Freight Order / Ocean Booking / Air booking"
  6. Chapter [4.12](#) Purchase Order Extractor Configuration
    - Add Chapter [4.12.1](#) Define Application Object Types for Purchase Order Header
    - Add Chapter [4.12.2](#) Define Application Object Types for Purchase Order Item
    - Add Chapter [4.12.3](#) Define Event Types for Purchase Order Item
    - Add Chapter [4.12.4](#) Cross-processes for Purchase Order
  7. Chapter [4.14](#) Sales Order Extractor Configuration
    - Add Chapter [4.14.1](#) Define Application Object Types for Sales Order Header
    - Add Chapter [4.14.2](#) Define Application Object Types for Sales Order Item
    - Add Chapter [4.14.3](#) Cross-processes for Sales Order
  8. Chapter [4.15](#) Outbound Delivery Extractor Configuration

- Add Chapter [4.15.1](#) Define Application Object Types for Outbound Delivery Header
  - Add Chapter [4.15.2](#) Define Application Object Types for Outbound Delivery Item
  - Add Chapter [4.15.3](#) Define Event Types for Outbound Delivery Header
  - Add Chapter [4.15.4](#) Define Event Types for Outbound Delivery Item
  - Add Chapter [4.15.5](#) Cross-processes for Outbound Delivery
9. Chapter [5](#) Configuration and Coding Guide – Advanced
- Add Chapter [5.1](#) Coding Tips for Sales Order Relevant Extractor
10. Add [Appendix Two: FAQs](#)

## **2109 Release:**

[Appendix One: Define the Unplanned Events for Freight Booking](#)

## **2108 Release:**

1. Update BC set file in the GitHub
2. Chapter [4.6](#) Define GTT Extraction Functions
  - Add "Tracking ID Extractors": GTT\_MIA\_IDLV\_HD\_TID (Tracking ID Extractor for Inbound Delivery Header)
  - Add "AOID Extractor": GTT\_MIA\_IDLV\_HD\_AOID (AOID Extractor for Inbound Delivery Header)
  - Add "AOID Extractor": GTT\_MIA\_IDLV\_IT\_AOID (AOID Extractor for Inbound Delivery Item)
  - Add "AOID Extractor": GTT\_MIA\_SHP\_HD\_AOID (AOID Extractor for Shipment Header)
  - Add "AOID Extractor": GTT\_STS\_AOID\_TOR (AOID Extractor for FU/FO/FB)
3. Chapter [4.13.1](#) Define Application Object Types for Inbound Delivery Header
  - Adjust "AOID Method" from "Determine from Field" to "Determine by Function"
  - Remove the value for fields "Cntl Tab. Type" and "AO ID Field"
  - Add "AOID Function" and set its value to "GTT\_MIA\_IDLV\_HD\_AOID"
  - Adjust "TrkID Method" from "Determine from Field" to "Determine by Function"
  - Remove the value for fields "Tr. ID Tab. Type", "Tracking ID Fld", "Tr. ID Code Set"
  - Add "Tr.ID Extractor" and set its value to "GTT\_MIA\_IDLV\_HD\_TID"
4. Chapter [4.13.2](#) Define Application Object Types for Inbound Delivery Item
  - Adjust "AOID Method" from "Determine from Field" to "Determine by Function"
  - Remove the value for fields "Cntl Tab. Type" and "AO ID Field"
  - Add "AOID Function" and set its value to "GTT\_MIA\_IDLV\_IT\_AOID"
5. Chapter [4.16.1](#) Define Application Object Types for Shipment Header
  - Adjust "AOID Method" from "Determine from Field" to "Determine by Function"
  - Remove the value for fields "Cntl Tab. Type" and "AO ID Field"
  - Add "AOID Function" and set its value to "GTT\_MIA\_SHP\_HD\_AOID"
6. Chapter [4.17.1](#) Define Application Object Types for Freight Unit Header
  - Adjust "AOID Method" from "Determine from Field" to "Determine by Function"
  - Remove the value for field "Cntl Tab. Type" and "AO ID Field"
  - Add "AOID Function" and set its value to "GTT\_STS\_AOID\_TOR"
7. Chapter [4.18.1](#) Define Application Object Types for Road Freight Order/Ocean/Air Booking Header
  - Adjust "AOID Method" from "Determine from Field" to "Determine by Function"
  - Remove the value for field "Cntl Tab. Type" and "AO ID Field"
  - Add "AOID Function" and set its value to "GTT\_STS\_AOID\_TOR"

## **2105 Release:**

Initial version.

# 1. PREREQUISITES

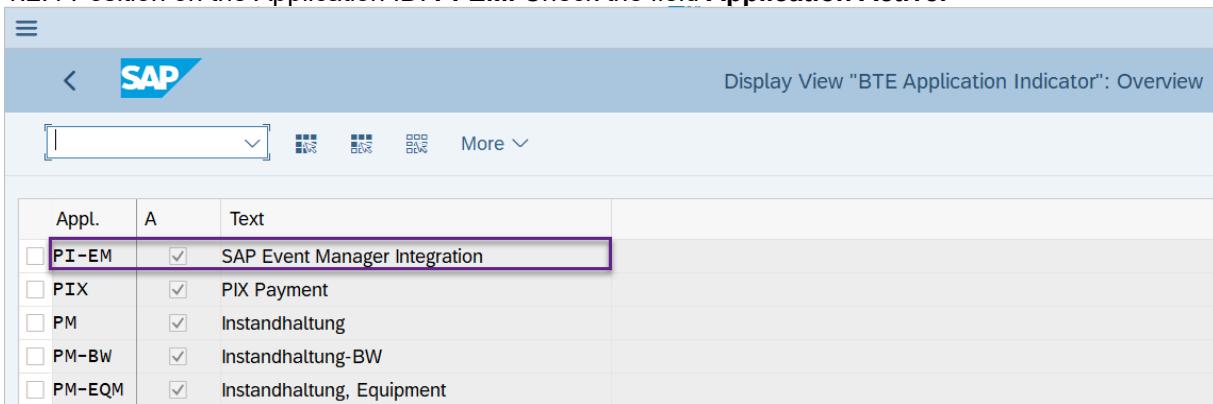
## 1.1 Check the SAP Product Version

Make sure that you have met the requirements for the product version mentioned in the “[Prerequisites](#)” section of *Appendix one: Connect to SAP ERP in Administration Guide for Version 2*. 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): **FIBF**.
- 1.2.3 Click **More->Settings -> Identification -> SAP Applications**.
- 1.2.4 Position on the Application ID: **PI-EM**. Check the field Application Active.



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

- 1.2.5 Click **Save**.

## 2. DOWNLOAD ABAP CODE FROM GITHUB

### 2.1 Initial Download ABAP Code from GitHub

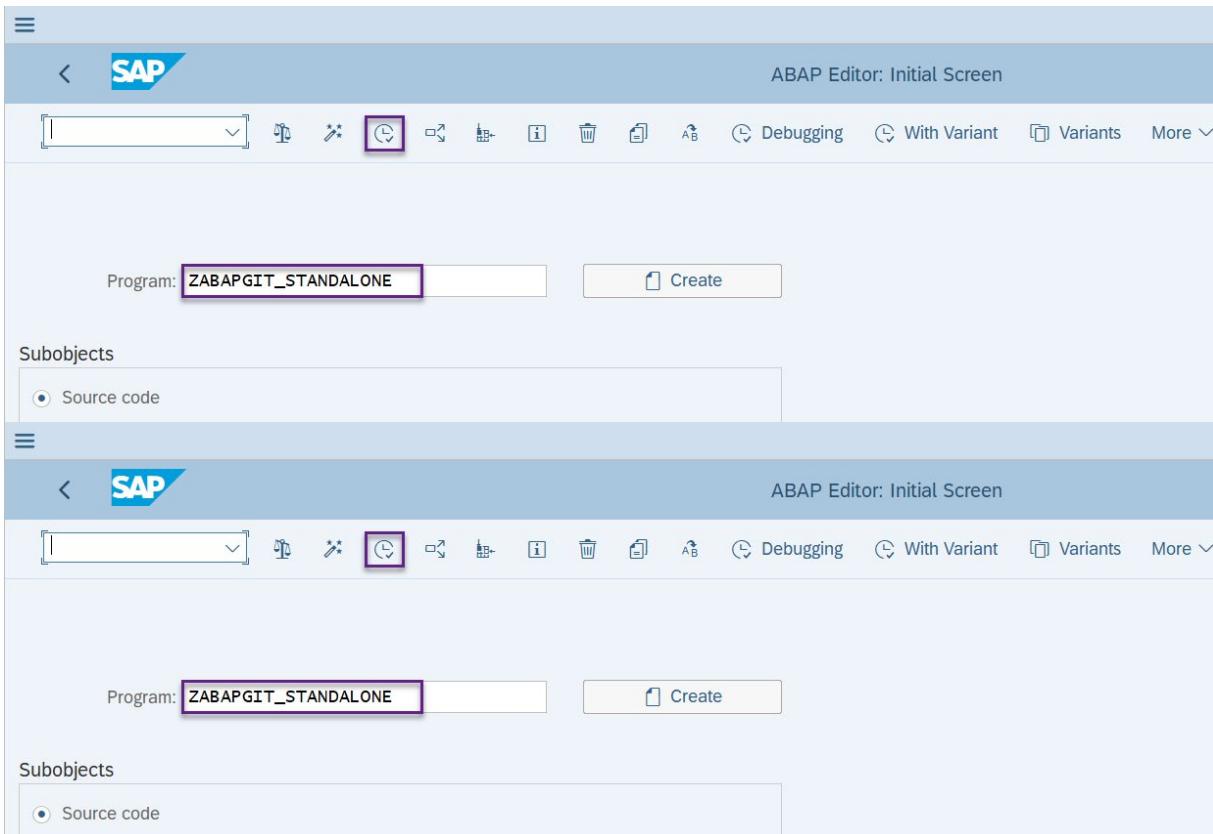
#### 2.1.1 Install ABAPGit

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

The screenshot shows the abapGit documentation website. The main navigation bar at the top has a red icon and the text "abapGit documentation". Below the navigation, there's a sidebar on the left with sections for "Getting Started", "Setup", "Online Projects", "Offline Projects", and "Reference". The main content area on the right is titled "Installation". It includes a "Summary" section stating that abapGit exists in two flavours: `standalone` and `developer`. It then details the steps for installing the `standalone` version, which involves using transaction `SE38` to run the report `ZABAPGIT_STANDALONE`. A "Prerequisites" section notes that SAP BASIS version 702 or higher is required. A "Install Standalone Version" box contains a numbered list of four steps: 1. Download ABAP code, 2. Create a report named `ZABAPGIT_STANDALONE`, 3. Upload the code using Utilities > More Utilities > Upload/Download > Upload, and 4. Activate. A note below the box says that typically, abapGit is used in development systems and can be installed in a local package like `$ZABAPGIT`. A final note says you can use abapGit by executing the report in transaction `SE38`.

#### 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.

**abapGit** ► Tutorial

Repository List    New Online    New Offline    Settings    ?

#### Tutorial

---

##### Online repositories

- 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.
- If the remote repository is updated, you will see the changes and can pull to apply the updates.

##### Offline repositories

- 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.
- You can link the package later or just export the package content as a ZIP file.

##### Repository list and favorites

- 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**
- [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 abapGit interface with the following details:

- Repository:** GTT-V2-Standard-Apps (<https://SAP-samples/logistics-business-network-gtt-standardapps-samples.git>)
- Branch:** master
- Actions:** Pull, Stage, Diff, Branch, Tag, Advanced, View, Refresh
- Table Headers:** Type, Name, Path
- Table Data:**
  - Type: CLAS
  - Name: ZCL\_GTT\_MIA\_AE\_FILLER\_DLH\_GR
  - Path: /abapgit.xml

... (many more entries listed)

### 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 with the following details:

- Program:** ZABAPGIT\_STANDALONE
- Buttons:** Create, Debugging, With Variant, Variants, More
- Subobjects:**
  - Source code
  - Variants
  - Attributes
  - Text elements
  - Documentation

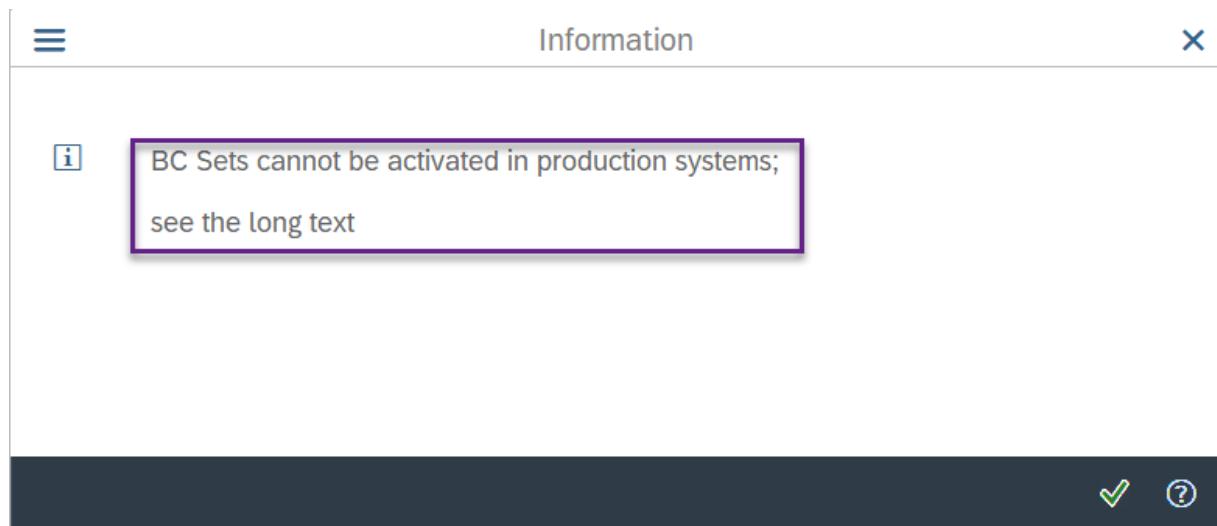
2.2.1.2 To access the Fulfillment Tracking apps' repository, click the button.

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

### 3. ERP 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:

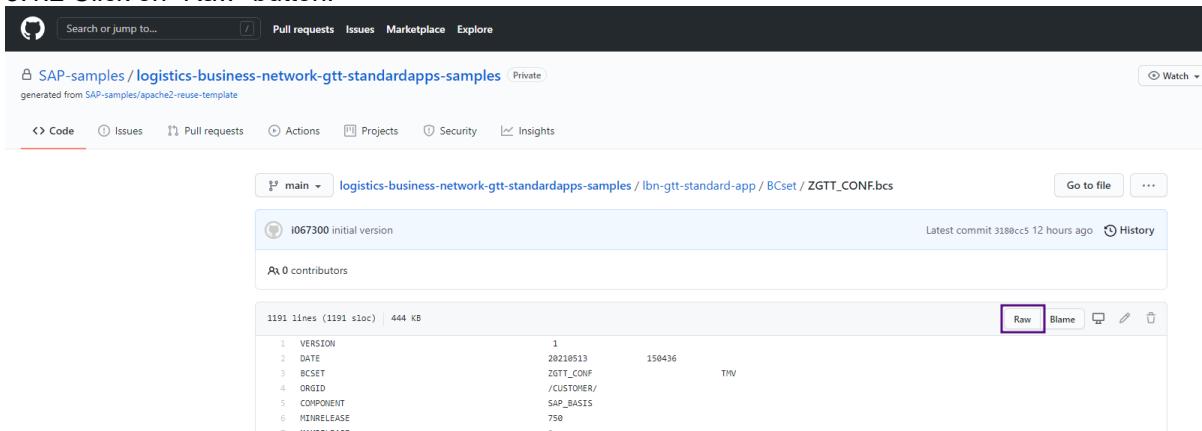
Business Process Type	Update Mode	BPT Processing Mode	Description
ESC_DELIV	Update Task (V1)	Active	Delivery in SAP R/3 Enterprise
ESC_MATDOC	Update Task (V1)	Active	Material Document in SAP R/3 Enterprise
ESC_PURORD	Update Task (V1)	Active	Purchase Order in SAP R/3 Enterprise

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)

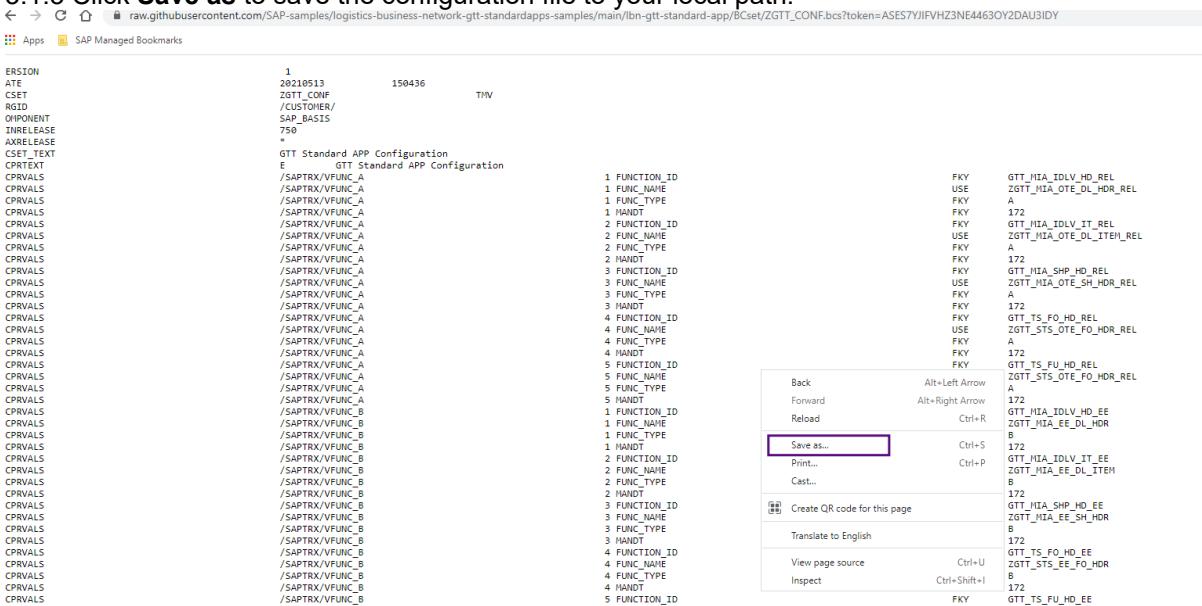
### 3.1 Download BC Set from GitHub

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](https://github.com/SAP-samples/logistics-business-network-gtt-standardapps-samples/blob/main/lbn-gtt-standard-app/BCset/ZGTT_CONF.bcs).

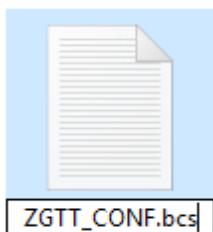
3.1.2 Click on “Raw” button.



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



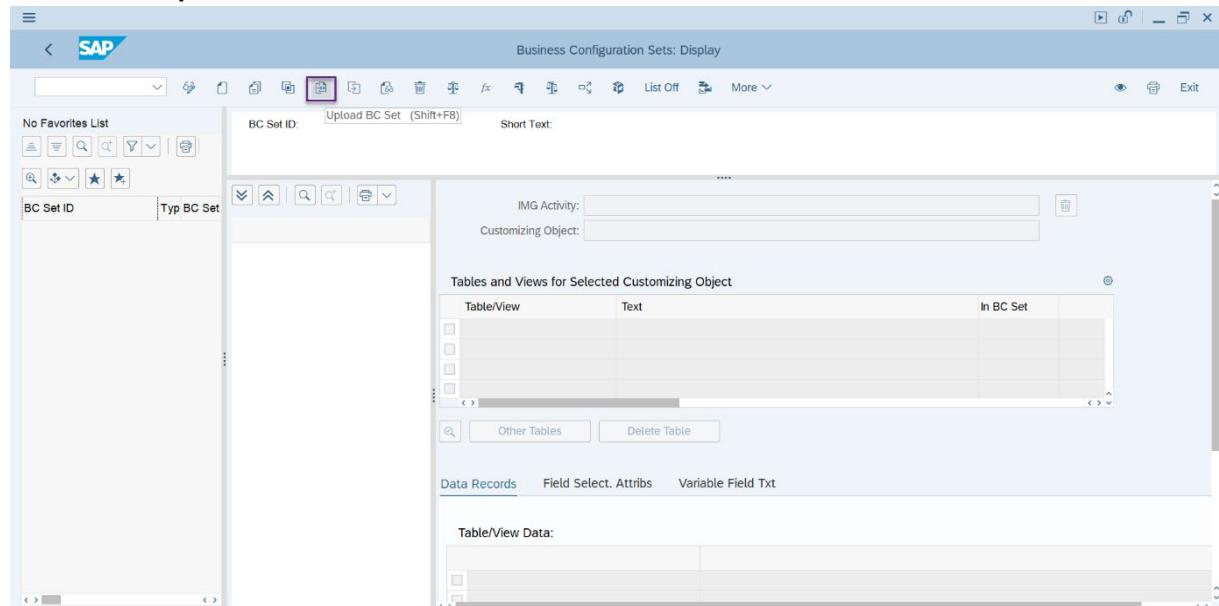
3.1.4 Change file extension to “.bcs”.



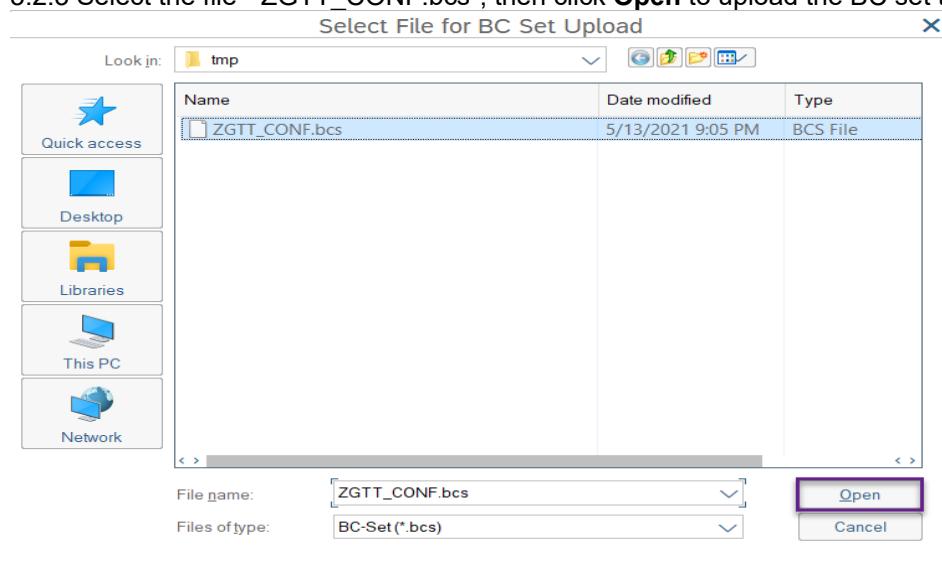
## 3.2 Import BC Set

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.



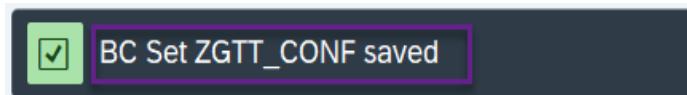
3.2.3 Select the file "ZGTT\_CONF.bcs", then click **Open** to upload the BC set to your development system.



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 "Tables and Views for Selected Customizing Object" shows "GTT Standard APP Configuration (ZGTT\_CONF)" expanded, with sub-items: "Define Logical System", "Define Used Business Process Types, Appl. Object Ty", "Define SAP GTT Extraction Functions", and "Define CI Tenant for SAP GTT". On the right, the "Customizing Object" is set to "Logical Systems". Below this, a table lists "Table/View" and "Text" for "V\_TBDLS" as "Logical Systems". At the bottom, there are tabs for "Data Records", "Field Select. Attrbs", and "Variable Field Txt". A table titled "Table/View Data: V\_TBDLS" shows a single record "GTTAPPLOGS" with logical system and name details.

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



### 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 shows "BC Set: ZGTT\_CONF" and "Short Text: GTT Standard APP Configuration". A toolbar at the top includes icons for search, filter, and activation (highlighted with a purple box).

### 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

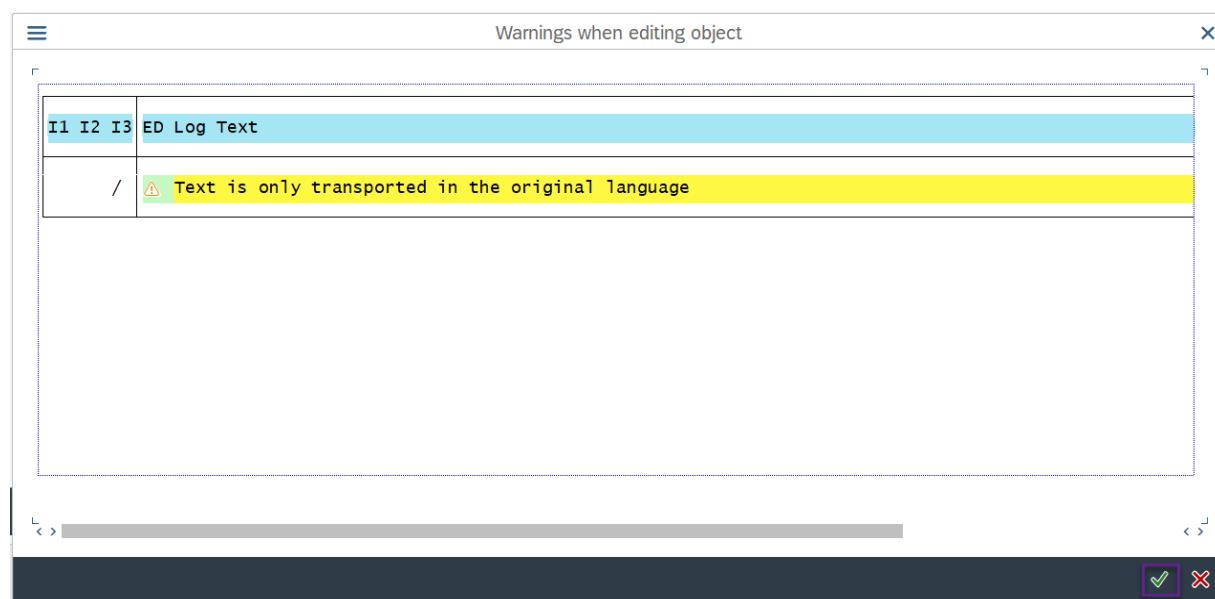
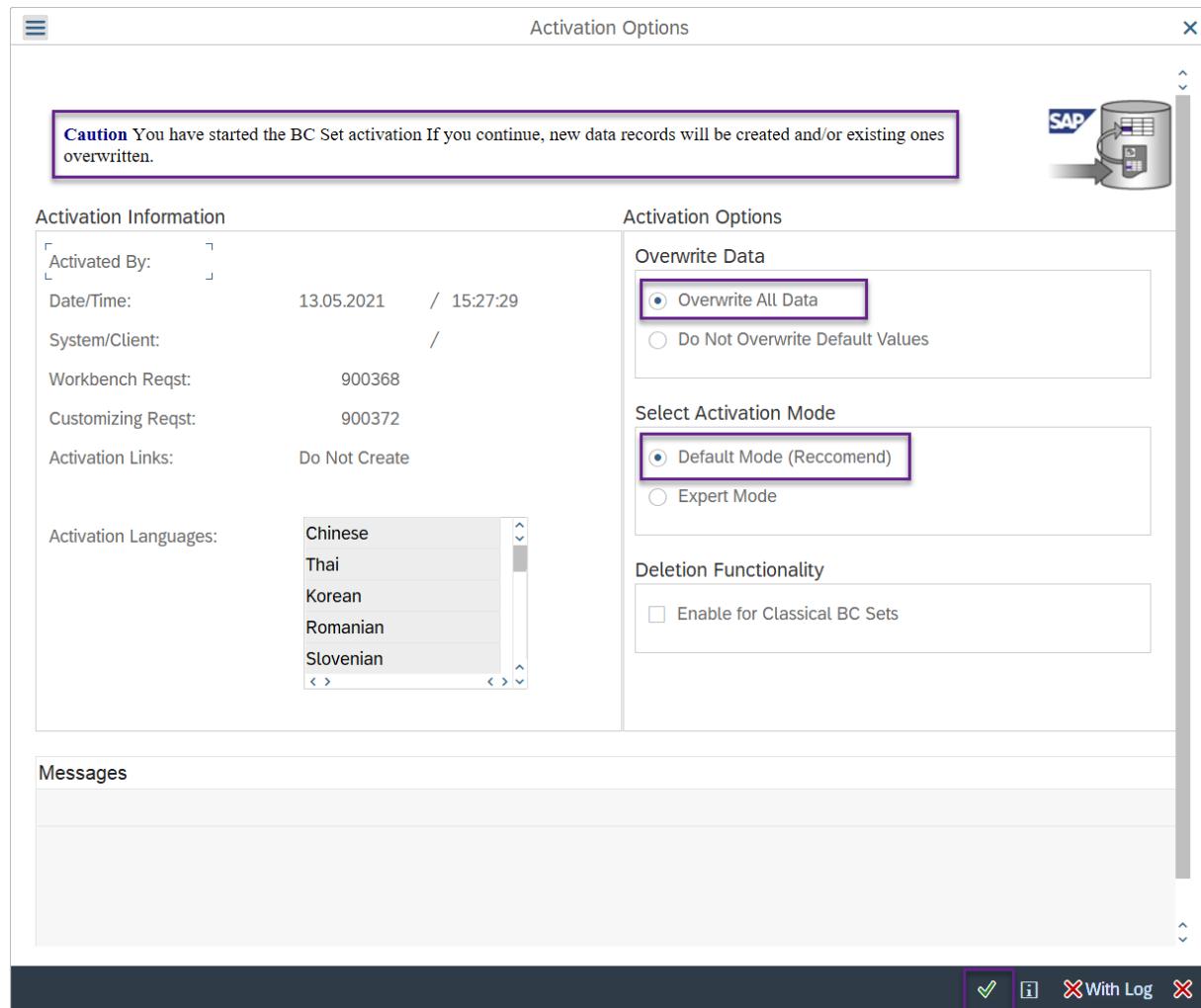
Short Description: Import GTT Standard APP configuration

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 windows. The top window 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 window is titled "Business Configuration Sets: Activation Logs" and shows a detailed log of activation events for BC Set "ZGTT\_CONF". The log table includes columns for Type, BC Sets, Object, Message Text, Key Field, and Infor... . The log entries detail various activation steps and warnings, such as "User-defined languages are not installed in the system" and "Not all data was activated in all languages in object /SAPTRX/VC\_ASFUNC\_CTT".

## 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-pre-live.cfapps.eu10.hana.ondemand.com/>

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

**Port:** 443

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

The screenshot shows the SAP Fiori launchpad interface. At the top, there is a search bar, a connection test button, and a 'More' dropdown. The main area displays an 'RFC Destination GTT\_APP\_RFC' card. The card includes fields for 'RFC Destination' (set to 'GTT\_APP\_RFC'), 'Connection Type' (set to 'HTTP Connection to External Server'), and a 'Description' section with three input fields: 'Description 1' (containing 'RFC for GTT Standard APP'), 'Description 2' (empty), and 'Description 3' (empty). Below the card, there is a navigation bar with tabs: 'Administration', 'Technical Settings' (which is highlighted with a purple border), 'Logon & Security', and 'Special Options'. Under the 'Technical Settings' tab, there is a section titled 'Target System Settings' containing fields for 'Host' (containing 'xxxxxx.gtt-flp-lbnplatform-pre-live.cfapps.eu10.hana.ondemand.com') and 'Port' (set to '443'). There is also a field for 'Path Prefix' (containing '/api/idoc/em/v1/TrackedProcessAndEvent').

### 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](#)".

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 the SAP logo and the title "RFC Destination GTT\_APP\_RFC". Below the header, there are tabs for "Administration", "Technical Settings", "Logon & Security" (which is highlighted with a purple border), and "Special Options".

The main content area is divided into several sections:

- RFC Destination:** Set to "GTT\_APP\_RFC".
- Connection Type:** Set to "HTTP Connection to External Server".
- Description:** Contains three fields:
  - Description 1: "RFC for GTT Standard APP"
  - Description 2: (empty)
  - Description 3: (empty)
- Logon Procedure:**
  - Logon with User:** Radio button selected for "Basic authentication". Fields include "User:" (empty) and "PW Status: saved".
  - Logon with Ticket:** Radio button selected for "Do not send logon ticket". Fields include "System ID" (empty) and "Client" (empty).
  - Logon with MQTT/AMQP:** Fields include "User:" (empty) and "PW Status: is initial".
- Security Options:**
  - Status of Secure Protocol:** SSL radio button selected for "Active". Other options include "Inactive" and "Do not use certificate for logon".
  - SSL Certificate dropdown set to "DEFAULT SSL Client (Standard)".
  - Cert. List dropdown.

3.4.7 Save the configuration.

## 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 **GTTAPPPORT**.

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 IMG interface with the title 'Ports in IDoc processing'. On the left, there is a tree view under 'Ports' with categories like 'Ports', 'Transactional RFC', 'File', 'ABAP-PI', 'XML File', and 'XML HTTP'. Under 'XML HTTP', the port 'GTTAPPPORT' is selected and highlighted with a purple border. The main right panel contains several configuration fields:

- Port:** GTTAPPPORT
- Description:** Port for GTT Standard APP
- RFC Destination:** GTT\_APP\_RFC
- Content Type:** application/x-sap.idoc (radio button selected)
- HTTP Version:** Version 1.0 (radio button selected)
- SOAP Protocol:** (checkbox checked)
- Port Options:** A table with two rows:
  - No Initial Values for DATS, TIMS, NUMC for Alignment
  - Send Dynamic Enhancement SegmentsBoth rows have an empty checkbox column.

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.

The screenshot shows the SAP Fiori interface for defining partner profiles. On the left, there is a tree view under 'Partner Profiles' with various partner types listed: 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), and Partner Type US (User). The 'Partner Type LS' node is selected and highlighted with a purple border. On the right, there are several input fields and tabs for configuration. The 'Post Processing: Valid Processors' tab is active. It contains fields for 'Ty.:' (set to 'US'), 'Processor:' (empty), and 'Lang.: (EN) English'. There are also tabs for 'Classification' and 'Telephony'. Below these tabs is a table titled 'Outbound' with columns for 'Partner Role', 'Message Type', 'Message Variant', 'Function', 'Test', 'Receiver Port', 'I...', 'Pac...', and 'Basic Type'. The first three rows of the table are empty.

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

This screenshot shows the configuration details for the partner profile 'Logical system' (Partner No.: GTTAPPLOGS, Type: LS). The 'Post Processing: Valid Processors' tab is active. The 'Ty.' field is set to 'US', the 'Processor' field is empty, and the 'Lang.' field is set to 'EN English'. Below this, the 'Outbound' section is visible, showing an empty table with columns for Partner Role, Message Type, Message Variant, Function, Test, Receiver Port, I..., Pac..., and Basic Type. At the bottom of the screen, there are search and add icons.

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

This screenshot shows the same configuration details as the previous one, but with a new row added to the 'Outbound' table. The first three rows are empty, and a fourth row has been added, indicated by a plus sign (+) icon at the bottom left of the table. The new row contains empty cells for all columns: Partner Role, Message Type, Message Variant, Function, Test, Receiver Port, I..., Pac..., and Basic Type.

### 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. The top navigation bar displays 'SAP' and 'Partner profiles: Outbound parameters'. The main content area is divided into several sections:

- Partner Information:** Partner No.: **GTTAPPLOGS** (Logical System for GTT Standard APP), Type: **LS** (Logical system), Partner Role: .
- Message Configuration:** Message Type: **GTTMSG**, Message Code: , Message Function: , Test checkbox.
- Outbound Options:** Receiver Port: **GTTAPPOR** (Port for GTT Standard APP), Pack. Size: **0**, Queue Processing checkbox.
- Output Mode:** Pass IDoc Immediately (radio button selected), Collect IDocs checkbox, Output Mode: **2**.
- IDoc Type:** Basic Type: **GTTMSG01** (LBN-TT: Process and Event Posting), Extension: , View: , Cancel Processing After Syntax Error checkbox, Seg. release in IDoc type: , Application Release: .

### 3.6.6 Save the configuration.

### 3.7 Maintain AOT Type Restriction for Cross-Processes

#### Prerequisite:

ABAP code and BC set should be activated in the system.

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

#### Prerequisite:

ABAP code and BC set should be activated in the system.

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

## 4. ERP 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.

	RFC Connections	Type	PL Active	Comment
<input type="checkbox"/>	> ABAP Connections	3		
<input type="checkbox"/>	> HTTP Connections to External Server	G		
<input type="checkbox"/>	> HTTP Connections to ABAP System	H		
<input type="checkbox"/>	> Internal Connections	I		
<input type="checkbox"/>	> Logical Connections	L		

4.1.4 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

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 the SAP Fiori launchpad interface. A modal dialog box is open for configuring an RFC destination named "GTT\_APP\_RFC". The "Technical Settings" tab is selected. In the "Target System Settings" section, the "Host" field contains "xxxxxx.gtt-flp-lbnplatform.cfapps.eu10.hana.ondemand.com" and the "Port" field contains "443". The "Path Prefix" field contains "/api/idoc/em/v1/TrackedProcessAndEvent". The "Connection Type" is set to "HTTP Connection to External Server". The "Description" section includes three descriptive lines: "Description 1: RFC for GTT Standard APP", "Description 2: ", and "Description 3: ". Navigation tabs at the bottom include "Administration", "Technical Settings" (selected), "Logon & Security", and "Special Options".

#### 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](#)".

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 the SAP logo and the title "RFC Destination GTT\_APP\_RFC". Below the title, there are buttons for "Connection Test" and "More". The main configuration area starts with "RFC Destination: GTT\_APP\_RFC" and "Connection Type: G HTTP Connection to External Server". A "Description" section follows, containing three 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 contains three sub-sections: "Logon with User", "Logon with Ticket", and "Logon with MQTT/AMQP". Under "Logon with User", the "Basic authentication" option is selected, with "User:" and "PW Status: saved" fields. Under "Logon with Ticket", the "Do not send logon ticket" option is selected, with "System ID" and "Client" fields. Under "Logon with MQTT/AMQP", there are "User:" and "PW Status: is initial" fields. At the bottom of the "Logon Procedure" section is a "Security Options" section, which includes a "Status of Secure Protocol" table. The table shows "SSL: Active" (radio button selected) and "SSL Certificate: DEFAULT SSL Client (Standard)" with a dropdown menu for "Cert. List". There is also a checkbox for "Do not use certificate for logon".

#### 4.1.7 Save the configuration.

## 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**.

The screenshot shows the SAP Display IMG interface for defining ports. On the left, a tree view under 'Ports' shows categories like 'Transactional RFC', 'File', 'ABAP-PI', 'XML File', and 'XML HTTP'. Under 'XML HTTP', the port 'GTTAPPPORT' is selected and highlighted with a purple border. The main panel on the right displays configuration details for this port:

- Port:** GTTAPPPORT
- Description:** Port for GTT Standard APP
- RFC Destination:** GTT\_APP\_RFC
- Content Type:** application/x-sap.idoc (radio button selected)
- HTTP Version:** Version 1.0 (radio button 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"/>

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.

The screenshot shows the SAP Fiori interface for defining partner profiles. On the left, there's a sidebar with a tree view of partner types. Under 'Partner Profiles', 'Partner Type LS' is selected and highlighted with a purple border. The main area has fields for 'Partner No.' and 'Type', both currently empty. There are tabs for 'Post Processing: Valid Processors' and 'Classification'. Below these tabs, there are fields for 'Ty.:' (set to 'US'), 'Processor' (empty), and 'Lang:' (set to 'EN').

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

The screenshot shows the SAP Fiori interface for defining partner profiles. The 'Partner No.' field now contains 'GTTAPPLOGS' and the 'Type' field contains 'LS'. The 'Ty.:' field is set to 'US', 'Processor' is empty, and 'Lang:' is set to 'EN'. At the bottom, there's a table titled 'Outbound' with columns for 'Partner Role', 'Message Type', 'Message Variant', 'Function', 'Test', 'Receiver Port', 'I...', 'Pac...', and 'Basic Type'. There are four rows in the table, each with a small icon in the first column.

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 image contains two screenshots of SAP Fiori interfaces. The top screenshot shows the 'Change View "SAP Global Track & Trace Definitions": Overview' screen. It has a toolbar with a search field, a 'New Entries' button (which is highlighted with a purple box), and other standard SAP icons. Below the toolbar is a table header for 'SAP Global Track & Trace Definitions' with columns: CI for Global Track & Trace, CI Log. System, SAP Track & Trace Version, and Description. The bottom screenshot shows the 'Display View "SAP Global Track & Trace Definitions": Overview' screen. It also has a toolbar with a search field and other icons. Below the toolbar is a table header for 'SAP Global Track & Trace Definitions' with the same four columns. A single row is visible in the table, showing 'GTTAPPLOGS' in the CI for Global Track & Trace column, 'GTTAPPLOGS' in the CI Log. System column, 'GTT2.0 Logistics Business Network - Track and Trace' in the SAP Track & Trace Version column, and 'CI Tenant for GTT Standard APP' in the Description column.

## 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. At the top, there is a toolbar with a search field, a 'New entries' button (highlighted with a purple box), and other SAP icons. On the left, there is a 'Dialog Structure' sidebar with a tree view. The first node, 'GTT Relevance Functions (App. Obj. Types)', is expanded, showing several sub-options like 'GTT Relevance Functions (Event Types)', 'Planned Event Extractors', etc. To the right of the sidebar is a table titled 'GTT Relevance Functions (App. Obj. Types)'. The table has three columns: 'Function', 'Function Module', and 'Description'. There are several rows in the table, each represented by a small grey square icon in the 'Function' column.

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

GTT Relevance Functions (App. Obj. Types)		
Function	Function Module	Description
GT MIA IDLV HD REL	ZGTT_MIA_OTE_DL_HDR_REL	Appl. Object Type Relevance for Inbound Delivery Header

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
Event Data Extractors	GTT_SOF_ODLV_IT_OTE	ZGTT_SSOF_OTE_DE_ITEM	Control Parameter Extractor for Outbound Delivery Item
	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_SOF_ODLV_IT_TID	ZGTT_SSOF_TRACKID_OTE_DEITEM	Tracking ID Extractor for Outbound Delivery Item
GTT relevance function of AOT	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 relevance function of Event Type	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_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**.

Bus. Proc. Type	Update Mode	BPT Process Mode	Description
ESC_DELIV	Update Task (V1)	Active	Delivery in SAP R/3 Enterprise
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**.

Bus. Proc. Type: ESC\_DELIV  
Appl. Obj. Type: **GTT\_IDLV\_HD** ① Extract Inbound Delivery Header information to Global Track and Trace  
Text: Inb. Delivery Header

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

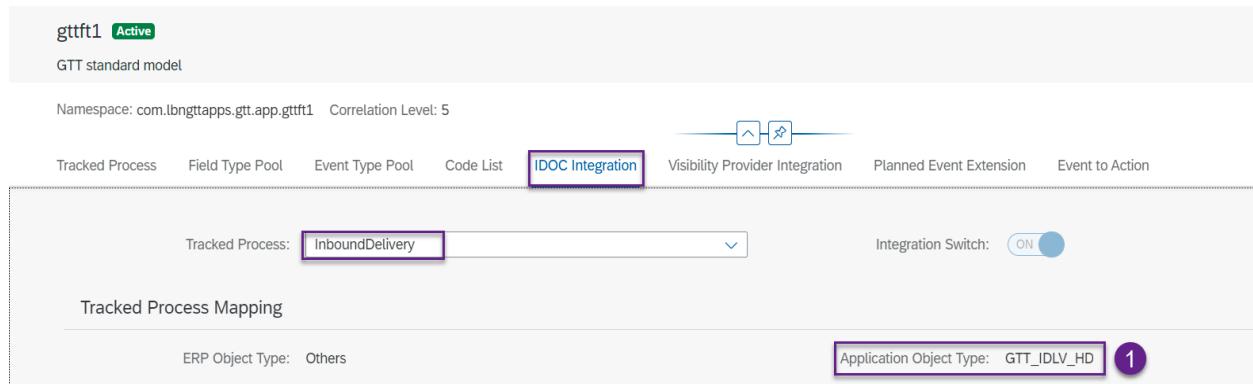
Sequencing / Destination  
Seq. No.: 10  
CI for GTT: **GTTAPPLOGS** CI Tenant for GTT Standard APP

Business Object Reference  
Object Type: **BUS2015** InboundDelivery  
BO Setup Fnct.:

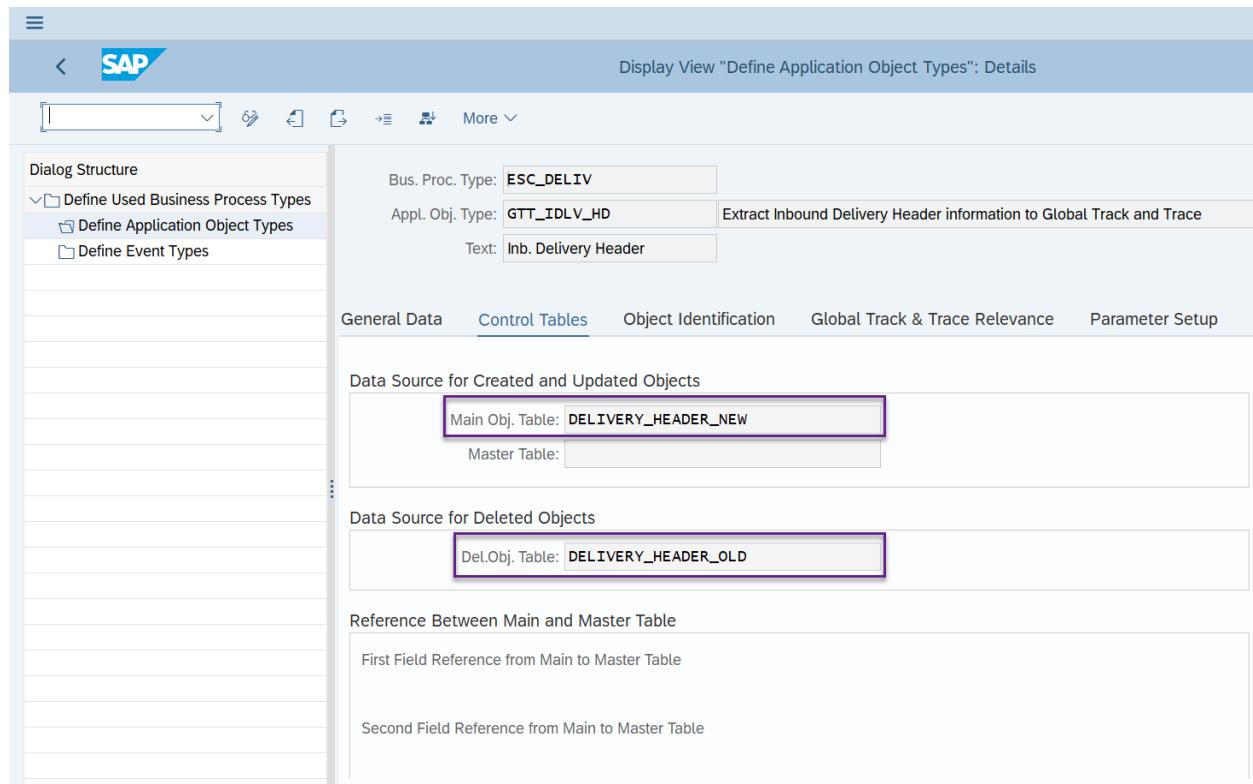
Behavior  
 GTT Relevant  
 Stop AO Determ.  
 Appl. Log Deact

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 GTT Version 2.



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

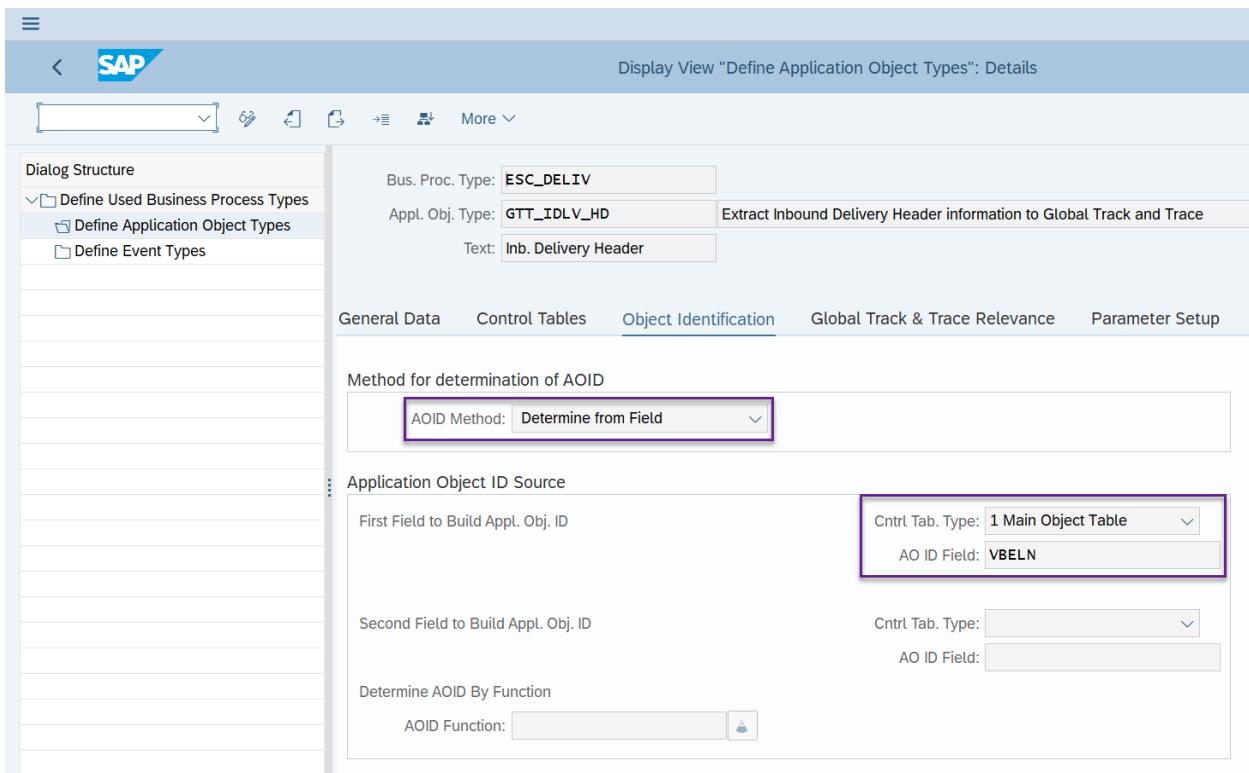


Note:

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

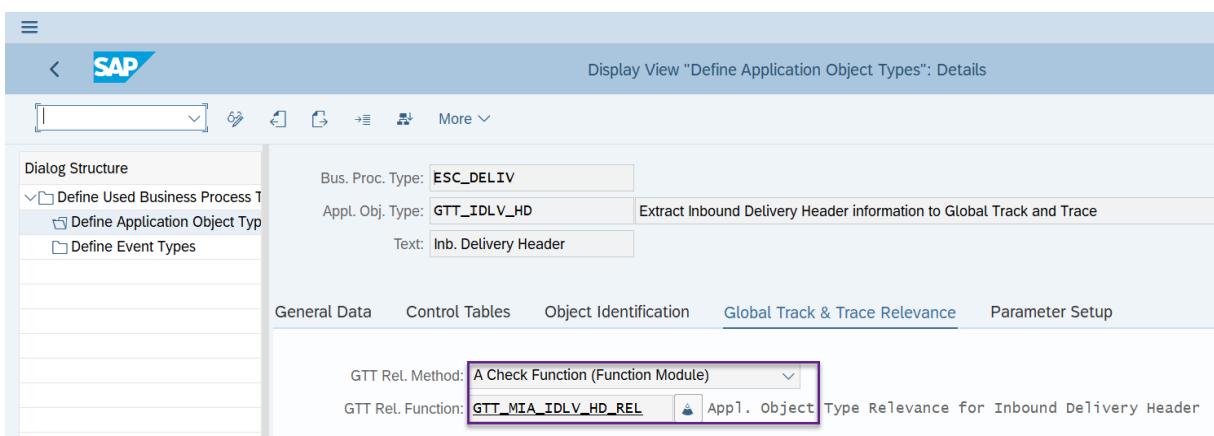
If the event type or application object type is on the item level, then you need to assign the **Main Object Table** and **Master Table**, and assign the reference between the **Main Object Table** and **Master Table**.

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.



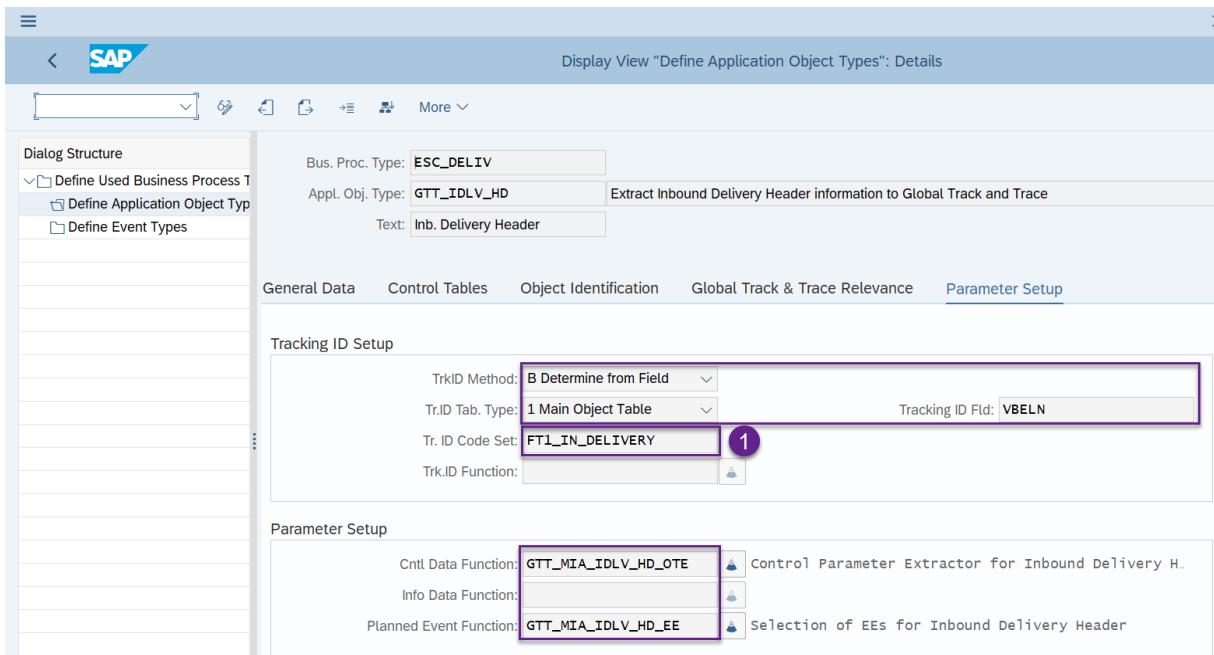
4.8.8 In the **Parameter Setup** tab, choose the **TrkID Method** as you need.

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 GTT Version 2.

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.

User Model Fields (0)						
<input type="checkbox"/>	Name	Type	DPP	Grant	Readable	Writable
No data						

Standard Model Fields (30)					
Name	Type	DPP	Grant	Readable	Writable

## 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**.

The screenshot shows the SAP AOT interface with the title 'Display View "Define Used Business Process Types": Overview'. On the left, there is a 'Dialog Structure' tree with nodes like 'Define Used Business Process Types' and 'Define Application Object 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)' mode, 'Active' status, and 'Delivery in SAP R/3 Enterprise' description; and 'ESC\_FI\_CLEARING' with 'Update Task (V1)' mode, 'Active' status, and 'FI Clearing in SAP R/3 Enterprise' description.

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**.

The screenshot shows the SAP AOT interface with the title 'Display View "Define Application Object Types": Details'. The 'General Data' tab is selected. In the 'Bus. Proc. Type' field, 'ESC\_DELIV' is selected. In the 'Appl. Obj. Type' field, 'GTT\_IDLV\_IT' is entered, with the description 'Extract Inbound Delivery Item information to Global Track and Trace'. Below these fields, the 'Text' field contains 'Inb. Delivery Item'. Other tabs include 'Control Tables', 'Object Identification', 'Global Track & Trace Relevance', and 'Parameter Setup'. Under 'Global Track & Trace Relevance', the 'GTT Relevant' checkbox is checked. The 'Sequencing / Destination' section shows 'Seq. No.: 10' and 'CI for GTT: GTTAPPLOGS'. The 'Business Object Reference' section shows 'Object Type: BUS2015' and 'InboundDelivery'. The 'Behavior' section includes checkboxes for 'GTT Relevant', 'Stop AO Determ.', and 'Appl. Log Deact.'

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

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 "Dialog Structure" with sections for "Define Used Business Process Types", "Define Application Object Types" (which is expanded), and "Define Event Types". The main content area has tabs: General Data, Control Tables (selected), Object Identification, Global Track & Trace Relevance, and Parameter Setup. The "Control Tables" tab contains fields for "Bus. Proc. Type" (ESC\_DELIV), "Appl. Obj. Type" (GTT\_IDLV\_IT) with a description "Extract Inbound Delivery Item information to Global Track and Trace", and "Text" (Inb. Delivery Item). A section titled "Data Source for Created and Updated Objects" contains fields for "Main Obj. Table" (DELIVERY\_ITEM\_NEW) and "Master Table" (DELIVERY\_HEADER\_NEW), both highlighted with a purple border. Another section titled "Data Source for Deleted Objects" contains a field for "Del.Obj. Table" (DELIVERY\_ITEM\_OLD) also highlighted with a purple border. Below these are sections for "Reference Between Main and Master Table" and "Second Field Reference from Main to Master Table", each with uplink fields and mode/const fields, also highlighted with a purple border.

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

The screenshot shows the SAP Fiori interface for defining application object types, focusing on the "Object Identification" tab. The title bar reads "Display View 'Define Application Object Types': Details". The left sidebar shows "Dialog Structure" with sections for "Define Used Business Process Types", "Define Application Object Types" (expanded), and "Define Event Types". The main content area has tabs: General Data, Control Tables, Object Identification (selected), Global Track & Trace Relevance, and Parameter Setup. The "Object Identification" tab contains fields for "Bus. Proc. Type" (ESC\_DELIV), "Appl. Obj. Type" (GTT\_IDLV\_IT) with a description "Extract Inbound Delivery Item information to Global Track and Trace", and "Text" (Inb. Delivery Item). A section titled "Method for determination of AOID" contains a dropdown menu for "AOID Method" set to "Determine from Field", highlighted with a purple border. Another section titled "Application Object ID Source" contains fields for "First Field to Build Appl. Obj. ID" and "Second Field to Build Appl. Obj. ID", both highlighted with a purple border. A third section titled "Determine AOID By Function" contains a field for "AOID Function" with a small icon, also highlighted with a purple border.

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

SAP

Display View "Define Application Object Types": Details

Dialog Structure

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

Bus. Proc. Type: ESC\_DELIV

Appl. Obj. Type: GTT\_IDLV\_IT Extract Inbound Delivery Item information to Global Track and Trace

Text: Inb. Delivery Item

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

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

GTT Rel. Function: GTT\_MIA\_IDLV\_IT\_REL Appl. Object Type Relevance for Inbound Delivery Item

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

SAP

Display View "Define Application Object Types": Details

Dialog Structure

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

Bus. Proc. Type: ESC\_DELIV

Appl. Obj. Type: GTT\_IDLV\_IT Extract Inbound Delivery Item information to Global Track and Trace

Text: Inb. Delivery Item

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

Tracking ID Setup

TrkID Method: A Determine by Function

Tr.ID Tab. Type:

Tr. ID Code Set:

Trk.ID Function: GTT\_MIA\_IDLV\_IT\_TID Tracking ID Extractor for Inbound Delivery Item

Parameter Setup

Cntl Data Function: GTT\_MIA\_IDLV\_IT\_OTE Control Parameter Extractor for Inbound Delivery I..

Info Data Function:

Planned Event Function: GTT\_MIA\_IDLV\_IT\_EE Selection of EEs for Inbound Delivery Item

## 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

Seq. No.:	10
HCI for GTT:	GTTAPPLOGS

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

<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, containing "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 is set to "MATERIAL\_HEADER" and is highlighted with a purple border. Below it, "Master Table" is empty. 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", both of which are empty.

##### **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, containing "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 is highlighted with a purple border. The "GTT Rel. Function" field contains "GTT\_MIA\_IDLV\_HD\_GR" and is also 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 navigation tree with "Define Used Business Process Types" expanded, showing "Define Application Object Types" and "Define Event Types". 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

4.11.2 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 navigation tree with "Define Event Types" selected. The main area displays the "General Data" tab of the event type configuration. The "Event Type" field is set to "GTT\_EVT\_IDLV\_PA" with the description "Delivery Item Put Away Event". Other fields in this tab include "Bus. Proc. Type: ESC\_DELIV", "Text: Put Away Event", and "Seq. No.: 10". Below the General Data tab, there are other tabs: "Control Tables", "Global Track & Trace Relevance", and "Sequencing / Destination". In the "Sequencing / Destination" section, the "HCI for GTT" field is set to "GTTAPPLOGS" with the description "CI Tenant for GTT Standard APP". In the "Data Setup" section, the "Event Function" field is set to "GTT\_MIA\_IDLV\_IT\_PA". In the "Behavior" section, the "GTT Relevant" checkbox is checked. There are also other checkboxes for "Stop ET Det." and "Appl. Log Deact".

#### 4.11.5 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 'Control Tables' tab is selected. In the 'Data Source for Events' section, the 'Main Obj. Table' field contains 'DELIVERY\_ITEM\_NEW' and the 'Master Table' field contains 'DELIVERY\_HEADER\_NEW'. Both of these fields are highlighted with a purple border. Below them, 'Old Main Obj. Table' is 'DELIVERY\_ITEM\_OLD' and 'Old Master Table' is 'DELIVERY\_HEADER\_OLD'. In the 'Reference Between Main and Master Table' section, the 'First Field Reference from Main to Master Table' group shows 'Uplink Field: VBELN', 'Uplink Mode: R', and 'Uplink Target Fld: VBELN', all highlighted with a purple border. The 'Second Field Reference from Main to Master Table' group is partially visible below it.

#### 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**.

The screenshot shows the SAP Fiori interface for defining event types. The 'Global Track & Trace Relevance' tab is selected. In the 'GTT Rel. Method' dropdown, 'A Check Function (Function)' is selected and highlighted with a purple border. In the 'GTT Rel. Function' field, 'GTT\_MIA\_IDLV\_IT\_PA' is entered and highlighted with a purple border. A tooltip 'Relevance function for Actu...' is shown next to the function name.

## 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
Global Track & Trace Relevance	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

**Prerequisite:**

ABAP code and BC set should be activated in the system.

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
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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

**Prerequisite:**

ABAP code and BC set should be activated in the system.

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:

<b>Delivery Type</b>	<b>Active</b>
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

Prerequisite:

ABAP code and BC set should be activated in the system.

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	Uplink Field	VBELN
	Uplink Mode	R

Table – First Field Reference from Main to Master Table	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

##### Prerequisite:

ABAP code and BC set should be activated in the system.

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\_DLVTYPERST - 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_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	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	GTTAPPLOGS
	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	GTTAPPLOGS
	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

<b>Segment</b>	<b>Field</b>	<b>Value</b>
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

<b>Segment</b>	<b>Field</b>	<b>Value</b>
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

## 5. CONFIGURATION AND CODING GUIDE – ADVANCED

### 5.1 Available Contexts for the Extractors' Modules

5.1.1 In Display IMG page, click Integration with Other SAP Components -> Interface to Global Track and Trace -> Define Application Interface.  
Choose activity **Define Business Process Types**

5.1.2 Select the **Business Process Types** to find all the context tables and their structure info.

Business Process Type	Update Mde	Description
EPL_EQUIPMT	Update Task (V1)	Equipment in SAP R/3 Enterprise
EPL_INSPLOT	Update Task (V1)	Inspection Lot in SAP R/3 Enterprise
EPL_NOTIF	Update Task (V1)	Notification in SAP R/3 Enterprise
ESC_DELIV	Update Task (V1)	Delivery in SAP R/3 Enterprise
ESC_FI_CLEARING	Update Task (V1)	FI Clearing in SAP R/3 Enterprise
ESC_MATDOC	Update Task (V1)	Material Document in SAP R/3 Enterprise
ESC_MM_INVOICE	Update Task (V1)	MM Invoice in SAP R/3 Enterprise
ESC_PURORD	Update Task (V1)	Purchase Order in SAP R/3 Enterprise
ESC_PURORD_FASHION	Update Task (V1)	Purchase Order (Seasonal Procurement) in SAP R/3 Enterprise 2.0
ESC_PURREQ	Update Task (V1)	Purchase Requisition in SAP R/3 Enterprise
ESC_SD_INVOICE	Update Task (V1)	SD Invoice in SAP R/3 Enterprise
ESC_SHIPMT	Update Task (V1)	Shipment (SAP R/3 Enterprise)
ESC_SORDER	Update Task (V1)	Sales Order in SAP R/3 Enterprise
ESC_WOGMVT	Update Task (V1)	Workorder Goods Movements (Production,Service,Maintenance) in SAP R/3 Enterprise
ESC_WRKORD	Update Task (V1)	Workorder Confirmation (Production, Service, Maintenance) in SAP R/3 Enterprise
OCB10_ORDER	Update Task (V1)	Workorder (Production, Service, Maintenance) in SAP R/3 Enterprise
SNC_MSGIN	Dialog Update	Booking Order in Ocean Carrier Booking Process
		SNC Inbound messages

## 5.2 Coding Tips in the GTT Relevance Function Modules

To customize the GTT relevance function modules, key points are as follows:

1. Make sure that the Main / Master tables follow the configuration of corresponding AOT or Event Type.
2. Add customization logics to determine the output parameters E\_RESULT.

See the sample code of function “ZGTT\_MIA\_OTE\_DL\_HDR\_REL”.

The screenshot shows the SAP Function Builder interface with the function module `ZGTT_MIA_OTE_DL_HDR_REL` selected. The code editor displays the following ABAP code:

```

18  DATA: lt_app_objects TYPE txmas_apppobj_ctabs,
19    lo_udm_message TYPE REF TO cx_udm_message,
20    ls_bapiret TYPE pappiret.
21
22  lt_app_objects = VALUE #( ( i_app_object ) ).
23
24  TRY.
25    e_result = zcl_gtt_mia_ef_performer->check_relevance(
26      is_definition = VALUE #( maintab = zif_gtt_mia_app_constants->cs_tabledef ),
27      io_bo_factory = NEW zcl_gtt_mia_tp_factory_dlh( )
28      iv_apps = i_apps
29      iv_obj_types = i_app_obj_types
30      it_all_appl_tables = i_all_appl_tables
31      it_app_objects = lt_app_objects .
32
33  CATCH cx_udm_message INTO lo_udm_message.
34    zcl_gtt_mia_tools->get_errors_log(
35      EXPORTING
36        io_udm_message = lo_udm_message
37        iv_apps = i_apps
38      IMPORTING
39        es_bapiret = ls_bapiret .
40
41    " add error message
42    APPEND ls_bapiret TO c_logtable.
43
44    " throw corresponding exception
45    CASE lo_udm_message->textid.
46      WHEN zif_gtt_mia_ef_constants->cs_errors-stop_processing.
47        RAISE stop_processing.
48      WHEN zif_gtt_mia_ef_constants->cs_errors-table_determination.
49        RAISE parameter_error.
50      ENDCASE.
51
52    ENDTRY.
53  ENDFUNCTION.

```

The function module uses class `ZCL_GTT_MIA_TP_READER_DLH` to do the check.

The screenshot shows the SAP Class Builder interface with the method `ZIF_GTT_MIA_TP_READER-CHECK_RELEVANCE` selected. The code editor displays the following ABAP code:

```

1  MBETHOD zif_gtt_mia_tp_reader-check_relevance.
2
3  rv_result = zif_gtt_mia_ef_constants->cs_condition-false.
4
5  IF zcl_gtt_mia_dl_tools->is_appropriate_dt_type( ir_struct = is_app_object-maintabref ) = abap_true AND
6    is_object_changed( is_app_object = is_app_object ) = abap_true.
7
8    CASE is_app_object-update_indicator.
9      WHEN zif_gtt_mia_ef_constants->cs_change_mode-insert.
10        rv_result = zif_gtt_mia_ef_constants->cs_condition=true.
11      WHEN zif_gtt_mia_ef_constants->cs_change_mode-update OR
12        zif_gtt_mia_ef_constants->cs_change_mode-undefined.
13        rv_result = zcl_gtt_mia_tools->are_structures_different(
14          ir_data1 = zif_gtt_mia_tp_reader-get_data(
15            is_app_object = is_app_object )
16          ir_data2 = zif_gtt_mia_tp_reader-get_data_old(
17            is_app_object = is_app_object ) .
18
19    ENDCASE.
20
21  ENDMETHOD.

```

## 5.3 Coding Tips in the Tracking ID Function Modules

To customize the Tracking ID function modules, key points are as follows:

1. Make sure that the Main / Master tables follow the configuration of corresponding AOT.
2. Add customization logics to fill in the output table E\_TRACKIDDATA.
3. The Tracking ID Type needs to be the same as the definition in the process type of model in the *Manage Models* app.
4. GTT V2 accepts delta transport for tracking IDs, which means only the newly created / changed / deleted tracking IDs shall be filled in, while the ones without changes need to be ignored in the logic.
5. The tracking ID for its own process type needs to be filled in for each process update.
6. In case of tracking ID deletion, the field ACTION shall be filled in with 'D'.

See sample code of function: ZGTT\_MIA\_OTE\_DL\_ITEM\_TID.

The screenshot shows the SAP Function Builder interface with the title "Function Builder: Display ZGTT\_MIA\_OTE\_DL\_ITEM\_TID". The left pane is the "Repository Browser" showing various function objects under "ZGTT\_MIA". The right pane displays the ABAP code for the selected function module. The code handles tracking ID data retrieval and error handling.

```
19 DATA: lo_udm_message TYPE REF TO cx_udm_message,
20      ls_bapiret TYPE bapiret2.
21
22 TRY.
23   zcl_gtt_mia_ef_performer->get_track_id_data(
24     EXPORTING
25       is_definition = VALUE #(
26         maintab = zif_gtt_mia_app_constants->cs_tabledef_dl_item_new
27         mastertab = zif_gtt_mia_app_constants->cs_tabledef_dl_header_new )
28     io_bo_factory = NEW zcl_gtt_mia_tp_factory_dli( )
29     iv_appsys = i_appsys
30     is_app_obj_types = i_app_obj_types
31     it_all_appl_tables = i_all_appl_tables
32     it_app_type_ctrl_tabs = i_app_type_ctrl_tabs
33     it_app_objects = i_app_objects
34   IMPORTING
35     et_track_id_data = e_trackiddata[]
36   ).
37
38 CATCH cx_udm_message INTO lo_udm_message.
39   zcl_grt_mia_tools->get_errors_log(
40     EXPORTING
41       io_udm_message = lo_udm_message
42       iv_appsys = i_appsys
43     IMPORTING
44       es_bapiret = ls_bapiret .
45
46   " add error message
47   APPEND ls_bapiret TO e_logtable.
48
49   " throw corresponding exception
50   CASE lo_udm_message->textid.
51     WHEN zif_gtt_mia_ef_constants->cs_errors-stop_processing.
52       RAISE stop_processing.
53     WHEN zif_gtt_mia_ef_constants->cs_errors-table_determination.
54       RAISE table_determination_error.
55   ENDCASE.
56 ENDTRY.
```

The corresponding Track ID data is filled by ZCL\_GTT\_MIA\_TP\_READER\_DLI class:

The screenshot shows the SAP Class Builder interface with the title "Class Builder Class ZCL\_GTT\_MIA\_TP\_READER\_DLI Display". The left pane is the "Repository Browser" showing the package structure under "ZGTT\_MIA". The right pane displays the source code for the "METHOD zif\_gtt\_mia\_tp\_reader~get\_track\_id\_data" method. The code is written in ABAP and handles the extraction of tracking IDs from LIPS data.

```

1 METHOD zif_gtt_mia_tp_reader~get_track_id_data.
2   "In ERF's extractors, need to include 2 tracking IDs.
3   "The first one is for itself, one is for its header -
4   "please ensure same tracking ID type to be used in the
5   "Inbound Delivery Header process
6
7   DATA: lv_fname TYPE char5.
8
9   FIELD-SYMBOLS: <ls_lips> TYPE lipsvb.
10
11   " Actual Business Time zone
12   DATA(lv_tzone) = zcl_gtt_mia_tools->get_system_time_zone( ).
13
14   ASSIGN is_app_object-maintabref->* TO <ls_lips>.
15
16   IF <ls_lips> IS ASSIGNED.
17     et_track_id_data = VALUE #((
18       appsys      = mo_ef_parameters->get_appsyst( )
19       appobjtype = is_app_object-appobjtype
20       appobjid   = is_app_object-appobjid
21       trxcod     = zif_gtt_mia_app_constants->cs_trxcod-dl_position
22       trxid      = |( <ls_lips>-vbeln )( <ls_lips>-posnr )|
23       start_date = zcl_gtt_mia_tools->get_system_date_time( )
24       end_date   = zif_gtt_mia_ef_constants->cv_max_end_date
25       timzon    = lv_tzone
26       msrid     = space
27     )).
28
29   ELSE.
30     IF <ls_lips>-updkz = zif_gtt_mia_ef_constants->cs_change_mode-insert.
31       et_track_id_data = VALUE #! BASE et_track_id_data (
32         appsys      = mo_ef_parameters->get_appsyst( )
33         appobjtype = is_app_object-appobjtype
34         appobjid   = is_app_object-appobjid
35         trxcod     = zif_gtt_mia_app_constants->cs_trxcod-dl_number
36         trxid      = |( <ls_lips>-vbeln )|
37         start_date = zcl_gtt_mia_tools->get_system_date_time( )
38         end_date   = zif_gtt_mia_ef_constants->cv_max_end_date
39         timzon    = lv_tzone
40         msrid     = space
41     )).
42   ENDIF.
43 ELSE.
44   MESSAGE e002(zgtt_mia) WITH 'LIPS' INTO DATA(lv_dummy).
45   zcl_gtt_mia_tools->throw_exception( ).
46 ENDIF.
47 
```

## 5.4 Coding Tips in the Control Parameter Function Modules

To customize the Control Parameter function modules, key points are as follows:

1. Make sure that the Main / Master tables follow the configuration of corresponding AOT.
2. Add customization logics to fill in the output table E\_CONTROL\_DATA.
3. GTT V2 asks for full transport for all the control parameters, which means all the fields needs to be extracted in all cases, no matter whether their values have been changed or not.
4. To fill in the composition (table) fields defined in the *Manage Models* app, use the parameter field PARAMINDEX to specify the line number. If the field is empty, GTT regards it as a simple flat field.
5. To clear a composition, fill in the key field using invalid values, for which the key attribute has been checked in the *Manage Models* app. It's not recommended to fill in a code list type field to clear a composition even if it's a key field.
6. The fields with fixed names 'ACTUAL\_BUSINESS\_DATETIME' and 'ACTUAL\_BUSINESS\_TIMEZONE' are mandatory fields to be transported for event handling sequencing in GTT Version 2.
7. The fields with fixed names 'ACTUAL\_TECHNICAL\_TIMEZONE' and 'ACTUAL\_TECHNICAL\_DATETIME' are optional and recommended for fixing IDOC sequencing issue (after object creation in S/4 actual event might be processed before object creation in GTT via TP request, which leads to an error)
8. In the *Manage Models* app, click the *IDOC Integration* tab to map the parameter names and model field names.
9. For DATE or DATETIME fields, when the source value is initial like '00000000' '0000000000000000', then only enable PARAMNAME and PARAMINDEX in the extractor code, and do not enable VALUE for IDOC sending.
10. For amount field which has reference currency, ensure to call BAPI 'BAPI\_CURRENCY\_CONV\_TO\_EXTERNAL' using the reference currency to make the amount tracked correctly by GTT Version 2. The BAPI will output the conversion result in 4 decimals as fixed, which needs additional rounding in the extractor if the corresponding field defined in the tracking model is less than 4 decimals.
11. In the shipment extractor, add the prefix LBN# into the fields SERVICE AGENT LBN ID for integration with Visibility Providers.

## See sample code of function: ZGTT\_MIA\_OTE\_DL\_ITEM

The screenshot shows the SAP Function Builder interface with the title "Function Builder: Display ZGTT\_MIA\_OTE\_DL\_ITEM". The "Source Code" tab is selected. The code is as follows:

```

19 DATA: lo_udm_message TYPE REF TO cx_udm_message,
20      ls_bapiret      TYPE bapiret2.
21
22 TRY.
23   zcl_gtt_mia_ef_performer->get_control_data(
24     EXPORTING
25       is_definition      = VALUE #( 
26         maintab          = zif_gtt_mia_app_constants->cs_tabledef-dl_item_new
27         masterstab        = zif_gtt_mia_app_constants->cs_tabledef-dl_header_new )
28     io_bo_factory
29     iv_appsys
30     is_app_obj_types
31     it_all_appl_tables
32     it_app_type_cntl_tabs
33     it_app_objects
34   CHANGING
35     ct_control_data    = e_control_data[] ).
36
37 CATCH cx_udm_message INTO lo_udm_message.
38   zcl_gtt_mia_tools->get_errors_log(
39     EXPORTING
40       io_udm_message = lo_udm_message
41       iv_appsys     = i_appsys
42   IMPORTING
43     es_bapiret     = ls_bapiret ).
44
45   " add error message
46   APPEND ls_bapiret TO e_logtable.
47
48   " throw corresponding exception
49 CASE lo_udm_message->textid.
50   WHEN zif_gtt_mia_ef_constants->cs_errors-stop_processing.
51     RAISE stop_processing.
52   WHEN zif_gtt_mia_ef_constants->cs_errors-table_determination.
53     RAISE table_determination_error.
54 ENDCASE.
55 ENDTRY.
56 ENDFUNCTION.

```

Control data is prepared by ZCL\_GTT\_MIA\_TP\_READER\_DLI class:

The screenshot shows the SAP Class Builder interface with the title "Class Builder Class ZCL\_GTT\_MIA\_TP\_READER\_DLI Display". The "Method: ZIF\_GTT\_TP\_READER-GET\_DATA" tab is selected. The code is as follows:

```

1 METHOD zif_gtt_tp_reader-get_data.
2
3   DATA: ls_item          TYPE ts_dl_item,
4        ls_item_with_fu  TYPE ts_dl_item_with_fu.
5   DATA: lv_count          TYPE i VALUE 0.
6   FIELD-SYMBOLS: <ls_lips>  TYPE lipsvbl.
7
8   ASSIGN is_app_object-maintabref->* TO <ls_lips>.
9   IF <ls_lips> IS ASSIGNED.
10    change_mode = <ls_lips>-updckz. " Save change mode to determinate cs_mapping!
11    ENDIF.
12
13   fill_item_from_likp_struct(
14     EXPORTING
15       ir_likp      = is_app_object-mastertabref
16     CHANGING
17       cs_dl_item  = ls_item ).
18
19   fill_item_from_lips_struct(
20     EXPORTING
21       ir_lips      = is_app_object-maintabref
22     CHANGING
23       cs_dl_item  = ls_item ).
24
25   fill_item_from_vbpa_table(
26     EXPORTING
27       ir_vbpa      = mo_ef_parameters->get_appl_table(
28         iv_tabledef = zif_gtt_mia_app_constants->cs_tabledef-dl_partners_new )
29       iv_vbeln    = |{ ls_item_vbeln ALPHA = IN }
30       iv_posnr    = cv_posnr_empty
31     CHANGING
32       cs_dl_item  = ls_item ).

```

Fields mapping is set up in the *Manage Models* app in the *IDOC Integration* section:

The screenshot shows the SAP Model Details interface for a model named 'gttft1' (Active). The 'IDOC Integration' tab is selected. The 'Tracked Process' dropdown is set to 'InboundDelivery'. The 'Integration Switch' is turned 'ON'. The 'Tracked Process Mapping' section shows 'ERP Object Type: Others' and 'Application Object Type: GTT\_IDLV\_HD'. Below this, the 'Tracked Process / Events (2)' table lists two entries: 'Tracked Process' (InboundDeliveryEvent) with IDOC E1EHPAO and 'Event Types' (GoodsReceipt) with IDOC E1EVMHDR02 and Event Code GOODS RECEIPT. To the right, a 'Standard Model Fields' table maps fields from the tracked process to IDOC segments and fields. The table has three columns: Field, IDOC Segment, and IDOC Field.

Field	IDOC Segment	IDOC Field
inboundDeliveryNo	E1EHPCP	YN_DL_DELETEVERY
supplierId	E1EHPCP	YN_DL_VENDOR_ID
supplierLocationType	E1EHPCP	YN_DL_VENDOR_LOC_TYPE
plannedDeliveryDate	E1EHPCP	YN_DL_PLANNED_DLV_DATE
documentDate	E1EHPCP	YN_DL_DOCUMENT_DATE
totalWeight	E1EHPCP	YN_DL_TOTAL_WEIGHT
netWeight	E1EHPCP	YN_DL_NET_WEIGHT
weightUoM	E1EHPCP	YN_DL_WEIGHT_UNITS
volume	E1EHPCP	YN_DL_VOLUME
volumeUoM	E1EHPCP	YN_DL_VOLUME_UNITS

## 5.5 Coding Tips in the Planned Event Function Modules

To customize the Planned Event function modules, key points are as follows:

1. Make sure that the Main / Master tables follow the configuration of corresponding AOT.
2. Add customization logics to fill in the output table E\_EXPEVENTDATA.
3. By default, except that no changes are made on the model configuration, GTT Version 2 will ask for full transport for all the planned events, which means that all the events needs to be extracted in all cases, no matter whether their values have been changed. If nothing is transported, the planned events will be removed in GTT Version 2.
4. The field MILESTONE is mandatory to be transported.
5. The field EVT\_EXP\_DATETIME is optional, but needs to be filled in with relevant time zone EVT\_EXP\_TZONE together if it needs to be transported.
6. The field LOC\_ID1 is optional, but needs to be filled in with relevant location type LOCTYPE together if it needs to be transported. The values for field LOCTYPE are limited by the Manage Locations app in GTT Version 2.
7. The field LOCID2 is mandatory to specify event match key of each stop (combination of the Shipment Number and Stop ID) for shipment tracking
8. The field MILESTONENUM is recommended to specify in order to implement custom sorting logic instead of sorting by planned business datetime.

See sample code of function: ZGTT\_MIA\_EE\_DL\_ITEM:

SAP

Function Builder: Display ZGTT\_MIA\_EE\_DL\_ITEM

Repository Browser

Function Group: ZGTT\_MIA

Object Name: ZGTT\_MIA\_EE\_DL\_ITEM

Function Module: ZGTT\_MIA\_EE\_DL\_ITEM active

Attributes Import Export Changing Tables Exceptions Source Code

```

21 DATA: lo_udm_message TYPE REF TO cx_udm_message,
22     ls_bapiret TYPE bapiret2.
23
24 CLEAR e_logtable[].
25
26 TRY.
27     zcl_gtt_mia_ef_performer->get_planned_events(
28         EXPORTING
29             is_definition      = VALUE #(          maintab = zif_gtt_mia_app_constants->cs_tabledef-dl_item_new
30                                         masterstab = zif_gtt_mia_app_constants->cs_tabledef-dl_header_new )
31             io_factory        = NEW zcl_gtt_mia_tp_factory_dli( )
32             iv_applsys       = i_applsys
33             is_app_obj_types = i_app_obj_types
34             it_all_appl_tables = i_all_appl_tables
35             it_app_type_ctrl_tabs = i_app_type_ctrl_tabs
36             it_app_objects    = i_app_objects
37
38         CHANGING
39             ct_expeventdata   = e_expeventdata[]
40             ct_measrmntdata  = e_measrmntdata[]
41             ct_infodata       = e_infodata[] ).
42
43     CATCH cx_udm_message INTO lo_udm_message.
44     zcl_gtt_mia_tools->get_errors_log(
45         EXPORTING
46             io_udm_message = lo_udm_message
47             iv_applsys     = i_applsys
48         IMPORTING
49             es_bapiret    = ls_bapiret .
50
51     " add error message
52     APPEND ls_bapiret TO e_logtable.
53
54     " throw corresponding exception
55     CASE lo_udm_message->textid.
56         WHEN zif_gtt_mia_ef_constants->cs_errors-stop_processing.
57             RAISE stop_processing.
58         WHEN zif_gtt_mia_ef_constants->cs_errors-table_determination.
59             RAISE table_determination_error.
60     ENDCASE.
61
62 ENDTRY.
ENDFUNCTION.

```

Main logic of Inbound Delivery Item is implemented in class ZCL\_GTT\_MIA\_PE\_FILLER\_DLH:

The screenshot shows the SAP Class Builder interface with the title "Class Builder Class ZCL\_GTT\_MIA\_PE\_FILLER\_DLH Display". The left pane is a "Repository Browser" showing a package structure under "ZGTT\_MIA". The right pane displays the source code for the method "ZIF\_GTT\_PE\_FILLER~GET\_PLANNED\_EVENTS". The code is as follows:

```

1  METHOD zif_gtt_pe_filler-get_planned_events.
2
3   DATA: lr_lips_data TYPE REF TO data.
4
5   DATA(lo_relevance) = NEW zcl_gtt_mia_event_rel_dl_hd(
6     io_ef_parameters = mo_ef_parameters
7     is_app_objects = is_app_objects .
8
9   " initiate relevance flags
10  lo_relevance->initiate( ).
11
12  " store calculated relevance flags
13  lo_relevance->update( ).
14
15  lr_lips_data = mo_ef_parameters->get_appl_table(
16    iv_tabledef = zif_gtt_mia_app_constants->cs_tabledef-dl_item_new .
17
18  add_gr_event_with_matchkey(
19    EXPORTING
20      is_app_objects = is_app_objects
21      ir_lips_data = lr_lips_data
22    CHANGING
23      ct_expeventdata = ct_expeventdata
24  .
25
26  add_planned_delivery_event(
27    EXPORTING
28      is_app_objects = is_app_objects
29      io_relevance = lo_relevance
30      iv_milestonenum = zcl_gtt_tools->get_next_sequence_id(
31        it_expeventdata = ct_expeventdata
32    CHANGING
33      ct_expeventdata = ct_expeventdata .
34
35

```

Event parameters mapping is set up in the *IDOC Integration* tab of the *Manage Models* app:

The screenshot shows the SAP Manage Models app with the model "gttft1" selected. The "IDOC Integration" tab is highlighted. The interface includes tabs for Tracked Process, Field Type Pool, Event Type Pool, Code List, IDOC Integration (highlighted), Visibility Provider Integration, Planned Event Extension, and Event to Action. The "Tracked Process" dropdown is set to "InboundDelivery". The "Integration Switch" is turned on. Below the tabs, there are sections for "Tracked Process Mapping" and "Tracked Process / Events (2)". The "Tracked Process / Events (2)" section shows a table with two rows: "Tracked Process" (InboundDeliveryEvent, E1EHPAO) and "Event Types" (GoodsReceipt, E1EVMHDR02, GOODS\_RECEIPT). The "Standard Model Fields" section shows a table with one row: "reversal" (Field, E1EVMPAR, IDOC Field REVERSAL\_INDICATOR).

Name	IDOC	Event Code
<b>Tracked Process</b>	E1EHPAO	
<b>Event Types</b>	E1EVMHDR02	GOODS_RECEIPT

Field	IDOC Segment	IDOC Field
reversal	E1EVMPAR	REVERSAL_INDICATOR

## 5.6 Coding Tips in the Event Data Function Modules

To customize the Event Data function modules, key points are as follows:

1. Make sure that the Main / Master tables follow the configuration of corresponding Event Type.
2. Add customization logic to fill in the output table CT\_TRACKINGHEADER, CT\_TRACKLOCATION, C\_EVENTID\_MAP.
3. If the event has user-defined fields in the *Manage Models* app, fill in the table CT\_TRACKPARAMETERS.
4. Add two technical parameters with fixed names 'ACTUAL\_TECHNICAL\_TIMEZONE' and 'ACTUAL\_TECHNICAL\_DATETIME' which are recommended for fixing IDOC sequencing issue (after object creation in S/4 actual event might be processed before object creation in GTT via TP request, which leads to an error)
5. If the event has reference table information, fill in the table CT\_TRACKREFERENCES.
6. The field CT\_TRACKINGHEADER-SRCCOD, SRCID, SRCTX is used for event reason transport.
7. In the *Manage Models* app, click the *IDOC Integration* tab to map the user-defined parameter names and model field names.

See sample code of function: ZGTT\_MIA\_EE\_DL\_ITEM\_PA.

The screenshot shows the SAP Function Builder interface with the title "Function Builder: Display ZGTT\_MIA\_EE\_DL\_ITEM\_PA". The left pane is the "Repository Browser" showing a tree structure of function modules under "ZGTT\_MIA". The "Source Code" tab is selected in the top navigation bar. The code editor displays the following ABAP code:

```
DATA: lo_udm_message TYPE REF TO cx_udm_message,
      ls_bapiret      TYPE bapiret2.

TRY.
  zcl_gtt_mia_se_performer->get_event_data(
    EXPORTING
      is_definition      = VALUE #( 
        maintab      = zif_gtt_mia_app_constants->cs_tabledesc-dl_item_new
        mastertab   = zif_gtt_mia_app_constants->cs_tabledesc-dl_header_new )
    IMPORTING
      io_ae_factory     = zcl_gtt_mia_se_factory_dli_pa( )
      iv_appsyst       = i_appsyst
      is_event_type     = i_event_type
      it_all_appl_tables = i_all_appl_tables
      it_event_type_ctrl_tabs = i_event_type_ctrl_tabs
      it_events         = i_events
    CHANGING
      ct_eventid_map    = c_eventid_map[]
      ct_trackingheader  = ct_trackingheader[]
      ct_tracklocation   = ct_tracklocation[]
      ct_trackreferences = ct_trackreferences[]
      ct_trackparameters = ct_trackparameters[])
  .
  CATCH cx_udm_message INTO lo_udm_message.
  zcl_gtt_mia_tools->get_errors_log(
    EXPORTING
      io_udm_message = lo_udm_message
      iv_appsyst     = i_appsyst
    IMPORTING
      es_bapiret     = ls_bapiret).
  " add error message
  APPEND ls_bapiret TO ct_logtable.

  " throw corresponding exception
CASE lo_udm_message->textid.
  WHEN zif_gtt_mia_ef_constants->cs_errors-stop_processing.
    RAISE stop_processing.
  WHEN zif_gtt_mia_ef_constants->cs_errors-table_determination.
    RAISE event_data_error.
ENDCASE.
ENDTRY.
```

Main logic of Inbound Delivery Item is implemented in class ZCL\_GTT\_MIA\_AE\_FILLER\_DLI\_PA:

The screenshot shows the SAP Class Builder interface with the title "Class Builder Class ZCL\_GTT\_MIA\_AE\_FILLER\_DLI\_PA Display". The left pane is a "Repository Browser" showing a package structure under "ZGTT\_MIA". The right pane displays the source code for the method "METHOD ZIF\_GTT\_AE\_FILLER~GET\_EVENT\_DATA". The code is as follows:

```

1 METHOD ZIF_GTT_AE_FILLER~GET_EVENT_DATA.
2   DATA:
3     lv_werks      TYPE werks_d,
4     lv_dlvittrcod TYPE /saptrx/trxcod.
5
6     DATA(lv_pa_quantity) = get_put_away_quantity( ir_data = is_events-maintabref ).
7
8     lv_dlvittrcod = zif_gtt_ef_constants->cs_trxcod-dl_position.
9
10    lv_werks = zcl_gtt_tools->get_field_of_structure(
11      ir_struct_data = is_events-maintabref
12      iv_field_name = 'WERKS' ).
13
14    ct_trackingheader = VALUE #( BASE ct_trackingheader (
15      language = sy-langu
16      trxid = zcl_gtt_mia_dl_tools->get_tracking_id_dl_item(
17        ir_lips = is_events-maintabref )
18      trxcod = lv_dlvittrcod
19      evtent = is_events-eventid
20      evtid = zif_gtt_ef_constants->cs_milestone-dl_put_away
21      evtdat = sy-datum
22      evttim = sy-uzeit
23      evtzon = zcl_gtt_tools->get_system_time_zone( )
24    )).
25
26    ct_eventid_map = VALUE #( BASE ct_eventid_map (
27      eventid = is_events-eventid
28      evtent = is_events-eventid
29    )).
30

```

## 5.7 Enhancement Codes for Cross-processes Tracking

The fulfillment tracking apps require cross-processes tracking, which is used in the following cases:

1. When the inbound delivery process is updated and sent to SAP Business Network Global Track and Trace, the preceding purchase order header and its item process, and its planned events need to be updated and sent to SAP Business Network Global Track and Trace.
2. When the outbound delivery process is updated and sent to SAP Business Network Global Track and Trace, the preceding sales order header and its item process, and its planned events need to be updated and sent to SAP Business Network Global Track and Trace.
3. When the shipment process is updated and sent to SAP Business Network Global Track and Trace, the preceding inbound/outbound delivery header, and its planned events need to be updated and sent to SAP Business Network Global Track and Trace.
4. When the freight unit is updated and sent to SAP Business Network Global Track and Trace, the preceding inbound/outbound delivery header and its item process need to be updated and sent to SAP Business Network Global Track and Trace.

The cross-process tracking scenarios cover the following:

### Shipment -> Inbound/Outbound Delivery:

1. Tracking ID (Delta Transport)
  - Case: Shipment Create / Delete with Delivery
  - Case: Shipment Assign / Unassign Delivery
2. Shipment Composition (Full Transport)
  - Case: Shipment Create / Delete with Delivery
  - Case: Shipment Assign / Unassign Delivery
3. Planned Event in Delivery (Full Transport)
  - Case: Shipment Create / Delete with Delivery / with stage
  - Case: Shipment Assign / Unassign Delivery / with stage
  - Case: Stage Assign / Unassign Delivery
  - Case: Stage Insert / Delete
  - Case: Stage Location Update
  - Case: Stage Planned Datetime Update

### Freight Unit -> Inbound/Outbound Delivery and Inbound/Outbound Delivery Item:

1. Freight Unit Relevant

- Case: Freight Unit Create / Delete with Delivery
- 2. Freight Unit Composition
  - Case: Freight Unit Create / Delete with Delivery
- 3. Planned Event
  - Case: Freight Unit Create / Delete with Delivery

## 6 KNOWN ISSUES

### 6.1 Planned Event Extension Not Enabled

Currently, on the ERP 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 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
ARRIVAL_DOOR	Arrival at Door	11		
ARRIV_DEST	Arrival at Destination	04	I S	
BLOCK_FOR_EXEC	Block for Execution	99		

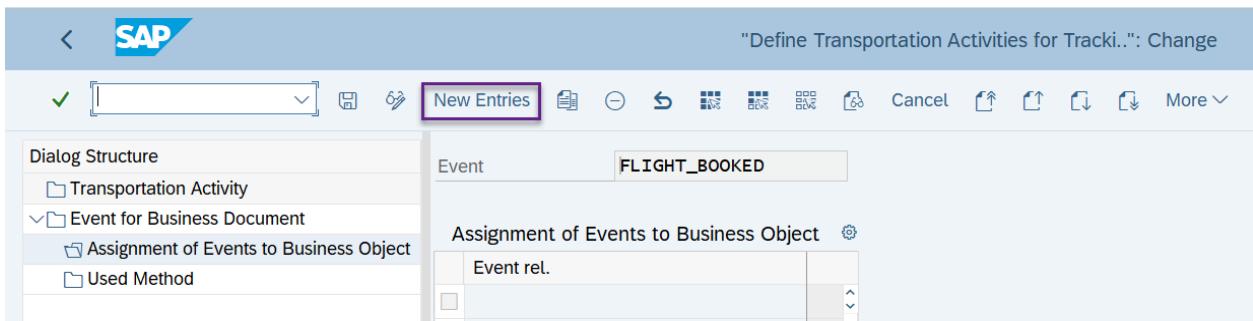
3. Input the **Event name, Description, Transp Act** and Click **Save**.

Event	Description	Transp Act	Stop Cat	Internal
FLIGHT_BOOKED	Flight Booked	99		

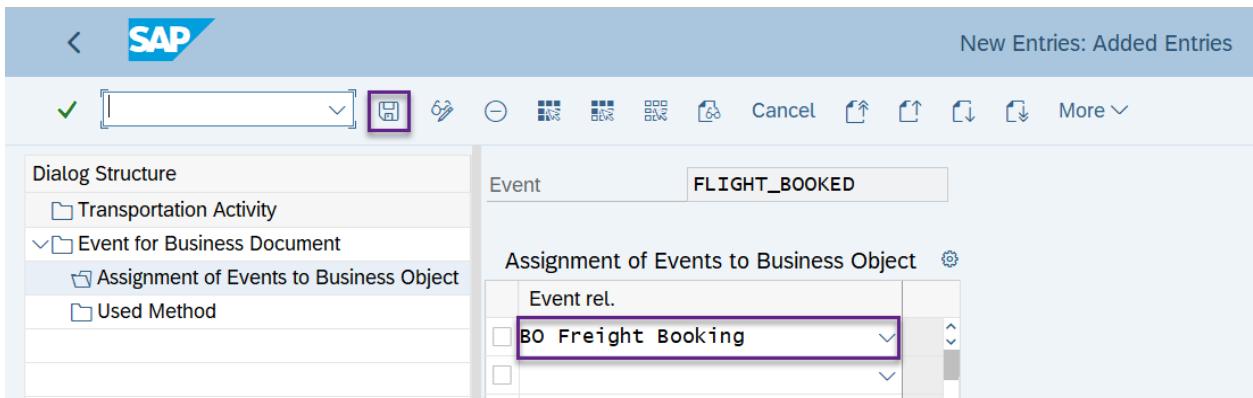
4. Select the event "FLIGHT\_BOOKED", then double click **Assignment of Events to Business Object**.

Event	Description	Transp Act	Stop Cat
FLIGHT_BOOKED	Flight Booked	99	
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 integration of SAP TM 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 Business Client, enter T-code SPRO and then click **SAP Reference IMG** to open the **Display IMG** page. 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**.
- b. In the **Dialog Structure** section, choose **Direct Output Agents (w/o PPF & w/o History)**.
- c. Choose the entry shown in the screenshot and enable it.

The screenshot shows the SAP Reference IMG interface with the following details:

**Change View "Direct Output Agents (w/o PPF & w/o History)": Overview**

**Dialog Structure:**

- PPF Output Agents for BO Nodes
  - Assign PPF Profiles
    - Action Settings
      - Processing Type Settings
      - Assign Transient Actions
    - Direct Output Agents (w/o PPF & w/o History)
  - Nodes for Before Image

**Direct Output Agents (w/o PPF & w/o History):**

Business Object	Node	Agent Name	Description	Enable	Child Chg Sync/Async
/SCMTMS/TOR	ROOT	SEND_EM_DATA_FROM_TOR	Call SAP EM (recommended, check note 1842397 for details)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> B Has Uncritical o/p; Process after Commit (background)

**Display View "Direct Output Agents (w/o PPF & w/o History)": Details**

**Dialog Structure:**

- PPF Output Agents for BO Nodes
  - Assign PPF Profiles
    - Action Settings
      - Processing Type Settings
      - Assign Transient Actions
    - Direct Output Agents (w/o PPF & w/o History)
  - Nodes for Before Image

**Direct Output Agents (w/o PPF & w/o History):**

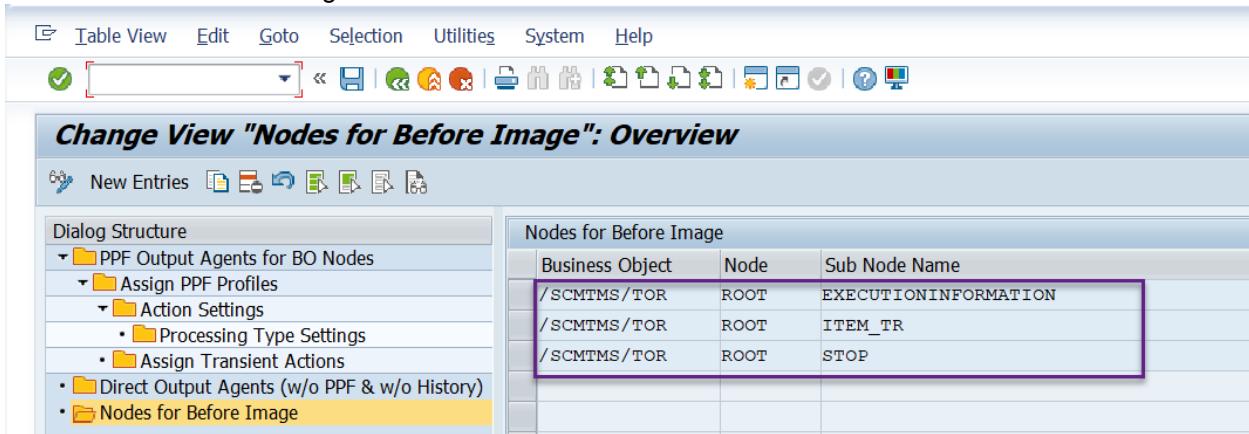
Business Object: /SCMTMS/TOR  
Node: ROOT  
Agent Name: SEND\_EM\_DATA\_FROM\_TOR

Description: Call SAP EM (recommended, check note 1842397 for details)

Enable  
 Incl. Child Chgs

Synch/Asynch: B Has Uncritical o/p: Process after Commit (background)  
Processor Class: /SCMTMS/CL\_OUTMGMT\_EXEC\_TOR  
User-Def. Func. 1:  
User-Def. Func. 2:  
User-Def. Func. 3:

- d. In the **Dialog Structure** section, choose **Nodes for Before Image**.  
e. Create the following three entries:

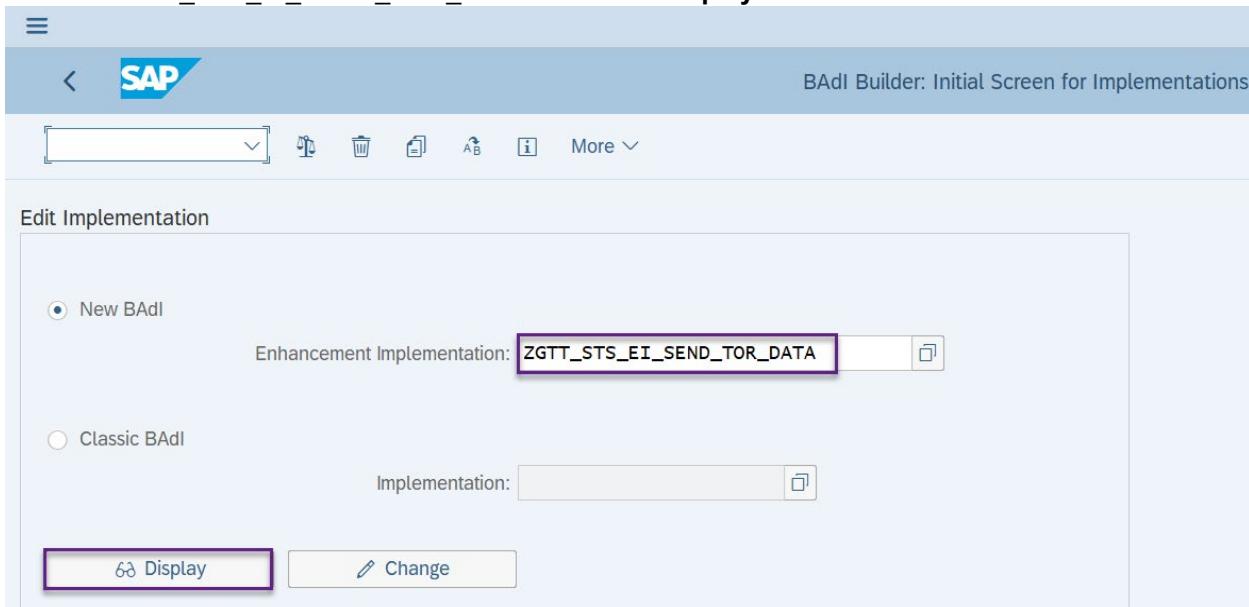


The screenshot shows the SAP dialog structure for 'Nodes for Before Image'. On the left, under 'Dialog Structure', the path 'PPF Output Agents for BO Nodes / Assign PPF Profiles / Action Settings / Processing Type Settings / Assign Transient Actions / Direct Output Agents (w/o PPF & w/o History) / Nodes for Before Image' is highlighted. On the right, a table titled 'Nodes for Before Image' lists three entries:

Business Object	Node	Sub Node Name
/SCMTMS/TOR	ROOT	EXECUTIONINFORMATION
/SCMTMS/TOR	ROOT	ITEM_TR
/SCMTMS/TOR	ROOT	STOP

## Step 2: 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**.



The screenshot shows the SAP SE19 implementation creation screen. The title bar says 'BAdI Builder: Initial Screen for Implementations'. The main area is titled 'Edit Implementation' and contains two radio button options:

- New BAdI: Enhancement Implementation field contains 'ZGTT\_STS\_EI\_SEND\_TOR\_DATA'.
- Classic BAdI: Implementation field is empty.

At the bottom are two buttons: 'Display' (highlighted with a purple border) and 'Change'.

- 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 Descr... **ZGTT\_STS\_BI\_SEND\_TOR\_DATA** Send TOR Data

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

Runtime Behavior  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

Further Implementations in Other Systems (perhaps already deleted)

### Step 3: Check the freight unit type settings

- On the IMG, go to **SAP Transportation Management -> Transportation Management -> Planning -> Freight Unit -> Define Freight Unit Types**.
- In the table, open the applicable freight unit type to be tracked with SAP Event Management.
  - In the **Integration Settings**, fill in the **Application Obj.Type** field as follows:

Integration Settings

Dangerous Goods Profile:	
Customs Profile:	
Application Obj.Type:	<b>GTT_FU</b>
<input type="checkbox"/> BW Relevance	

Note: make sure the value you filled in is the same as the ones in the other two fields:

- Appl.Obj.Type** field  
(Navigation Path: **IMG->Integration with Other SAP Components-> Interface to Global Track and Trace -> Define Application Interface**, choose **Define Used Business Process Types, Appl. Object Types and Event Types**. In the table, choose **Business Process Type TMS\_TOR** and click **Define Application Object Types**.)

SAP

Display View "Define Application Object Types": Details

Dialog Structure

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

Bus. Proc. Type: TMS\_TOR  
Appl. Obj. Type: GTT\_FU Extract FU Information to Global Track and Trace  
Text: FU Header

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

Sequencing / Destination

Seq. No.: 10  
CI for GTT: GTTAPPLOGS CI Tenant for GTT Standard APP

Business Object Reference

Object Type:   
BO Setup Fnct:

○ Application Object Type field in the “gttft1” model in the Manage Models app.

SAP Model Details Internal - Test

gttft1 Active

GTT standard model

Namespace: com.lbngttapps.gtt.app.gttft1 Correlation Level: 5 Model Category: Standard

Tracked Process Field Type Pool Event Type Pool Code List IDOC Integration Visibility Provider Integration Planned Event Extension Event to Action

Tracked Process: FreightUnit Integration Switch:

Tracked Process Mapping

ERP Object Type: Others Application Object Type: GTT\_FU

- In the **Execution Settings**, the **Execution Tracking Relevance** field is set to “Execution Tracking with External Event Management”.

Execution Settings

Execution Tracking Relevance: 3 Execution Tracking with External Ev...  
Display Mode for Execution Tab: Actual Events from TM and EM, Expe...  
Propagation Mode: Standard Propagation  
Last Exp. Event: UNLOAD\_END

Immediate Processing

#### Step 4: Check the freight order type settings

- a. On the IMG, go to **SAP Transportation Management > Transportation Management > Freight Order Management > Freight Order > Define Freight Order Types**.
- b. In the table, open the applicable freight order type to be tracked with SAP Event Management.
  - In the **Integration Settings**, fill in the **Application Object Type** field as follows:

Integration Settings

Dangerous Goods Profile:	<input type="text" value="DG1"/>
Customs Profile:	<input type="text"/>
Document Creation Relevance:	<input type="text" value="N No External Document Creation"/> <input type="button" value="▼"/>
Delivery Profile:	<input type="text"/>
EWM Integration Profile:	<input type="text"/>
Application Object Type:	<input style="border: 2px solid #800080; background-color: #f0f0ff;" type="text" value="GTT_SHP_HD"/>
<input checked="" type="checkbox"/> BW Relevance	

Note: make sure the value you filled in is the same as the ones in the other two fields:

- **Appl. Obj. Type** field  
(Navigation Path: **IMG-> Integration with Other SAP Components-> Interface to Global Track and Trace -> Define Application Interface**, choose **Define Used Business Process Types, Appl. Object Types and Event Types**, choose **Business Process Type TMS\_TOR->Define Application Object Types.**)
- **Application Object Type** field in the “gttft1” model in the Manage Models app.

- In the **Execution Settings**, the **Execution Tracking Relevance** field is set to “Execution Tracking with External Event Management”.

#### Execution Settings

The screenshot shows the SAP Execution Settings dialog. The 'Execution Tracking Relevance' dropdown is highlighted with a purple border and contains the value '3 Execution Tracking with External Event M...'. Other fields include 'Check Condition "Ready for Exec":' (empty), 'Display Mode for Execution Tab:' (set to 'Actual Events from TM and EM, Expected ...'), 'Expected Event for Goods Issue:' (empty), 'Expected Event for Goods Receipt:' (empty), and 'Last Exp. Event:' (set to 'ARRIV\_DEST'). A checkbox for 'Immediate Processing' is unchecked. Below it, 'Execution Propagation Mode:' is set to 'Standard Propagation' and 'Discrepancy Profile:' is empty.

#### Step 5: Check the freight booking type settings

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

- In the **Integration Settings**, fill in the **Application Object Type** field as follows:

The screenshot shows the SAP Integration Settings dialog. The 'Application Object Type' dropdown is highlighted with a purple border and contains the value 'GTT\_SHP\_HD'. Other fields include 'Dangerous Goods Profile:' (set to 'DG1'), 'Customs Profile:' (empty), 'Document Creation Relevance:' (empty), 'Delivery Profile:' (empty), and 'EWM Integr. Profile:' (empty). A checkbox for 'BW Relevance' is unchecked.

Note: make sure the value you filled in is the same as the ones in the other two fields:

- **Appl. Obj. Type** field  
(Navigation Path: **IMG->Integration with Other SAP Components-> Interface to Global Track and Trace -> Define Application Interface**, choose **Define Used Business Process Types, Appl. Object Types and Event Types**, choose **Business Process Type TMS\_TOR->Define Application Object Types**.)
- **Application Object Type** field in the “gttft1” model in the Manage Models app.

- In the **Execution Settings**, the **Execution Tracking Relevance** field is set to “Execution Tracking with External Event Management”.

#### Execution Settings

Execution Tracking Relevance:	<b>3 Execution Tracking with External Event Management</b>
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:	

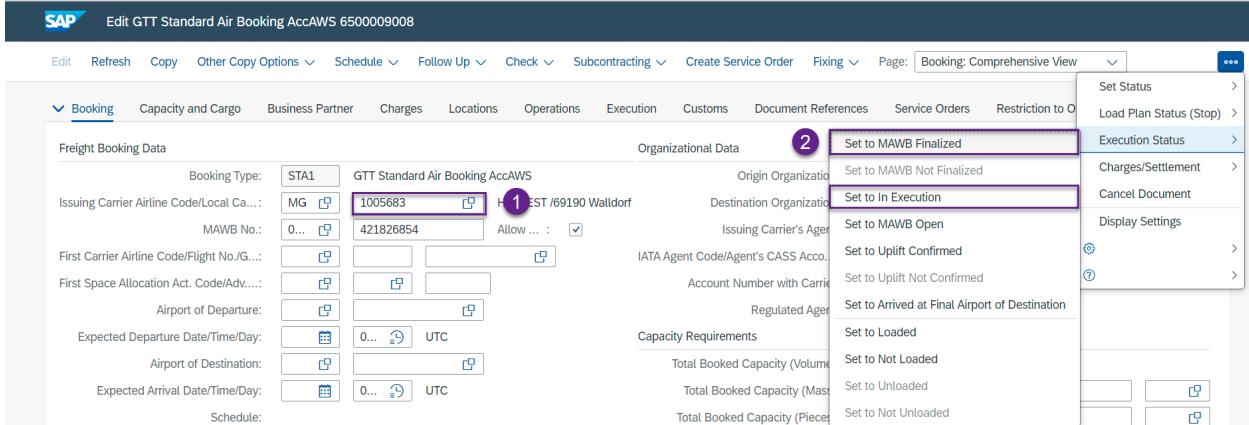
#### Step 6: Check the freight order / freight booking master data

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

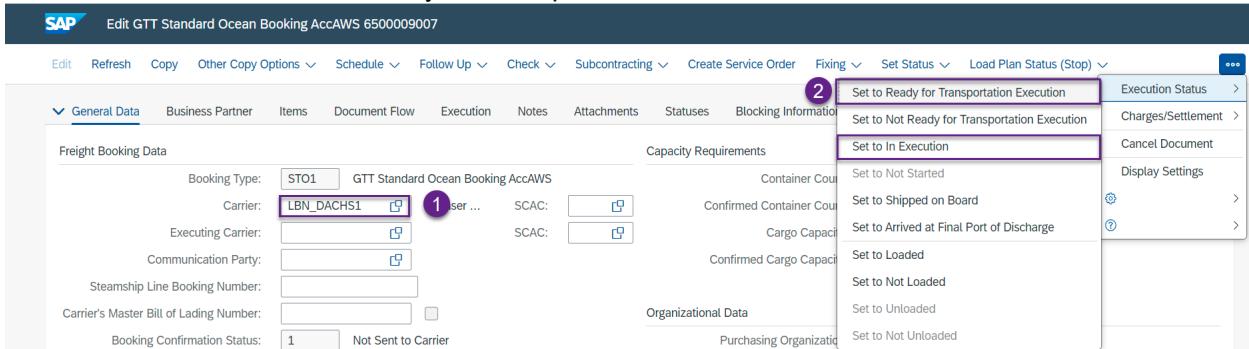
- Assign the carrier.
- Change the execution status.
  - For freight orders: in the **Execution Status** tab on the top, change the **Execution Status** to “Set to Ready for Transportation Execution” or “Set to In Execution”.

The screenshot shows the SAP Fiori interface for editing a freight order. The top navigation bar includes 'Edit', 'Refresh', 'Copy', 'Other Copy Options', 'Check', 'Follow Up', 'Scheduling', 'Subcontracting', 'Create Service Order', 'Schedule', 'Set Status', and 'Display Settings'. The main area displays 'General Data' with sections for 'Truck' (Means of Transport, Vehicle, Registration Country/Region No., Total/Capacity), 'Cargo Information' (Cargo Weight, Volume, Quantity, Total Weight), and 'General Information' (Document Type, Description, Origin of Freight Order). On the right, a context menu is open under 'Set Status' with options like 'Set to Ready for Transportation Execution' (highlighted with a purple box and circled with a red number 2), 'Set to In Execution' (highlighted with a purple box and circled with a red number 1), and other status-related options. At the bottom, there are fields for 'Carrier' (set to 'LBN\_CAR100'), 'Executing Carrier', 'Communication Party', and 'Service Level – Carrier'.

- 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 "4.7.1 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". The main content area is titled "Tracked Process Mapping" and shows the "Tracked Process / Events (54)" table. The table has columns for Name, IDOC, and Event Code. A new row has been added for the event type "ZZINSPECTION", which is highlighted with a purple border. The "Event Code" column for this row contains "ZZ\_INSPECTION". 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 [5.5](#) 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	Stop
<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	

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

Event	Description	Transp Act	Stop Cat	Internal
ZZ_INSPECTION	Quality inspection	99		

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		

e. Click **New Entries**.

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

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](#).

### 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:

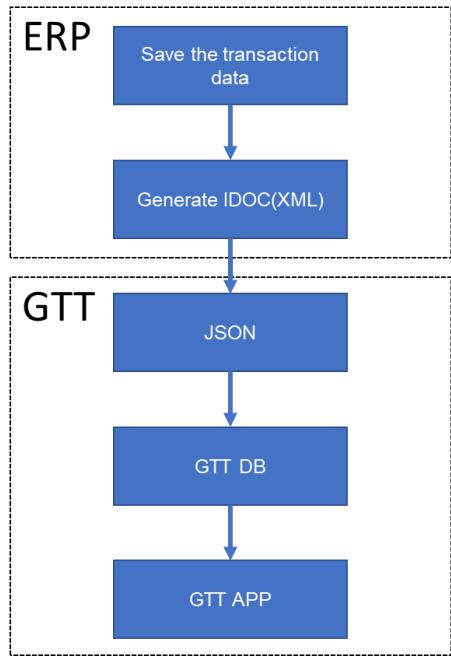
ID Type	Description	ID Categ.	Persons	Organizations
LBN001	LBN Identification	LBN001	X	X

#### 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.

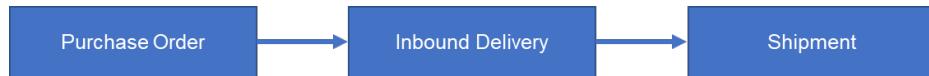
### Q4: How is the connection established between SAP ERP and SAP Business Network Global Track and Trace? Do we need to configure PI in SAP ERP?

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



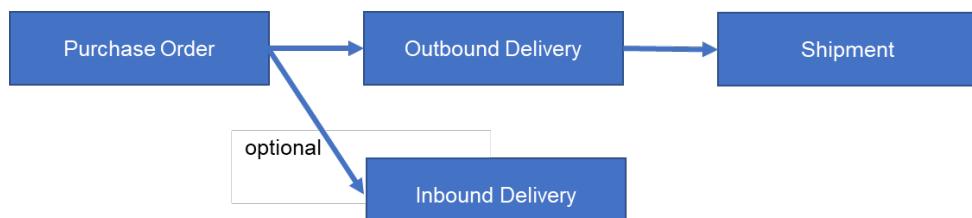
4) Sales Order -> Outbound Delivery -> Freight Unit -> Road Freight Order / Ocean Booking / Air Booking.



5) Stock Transport Order

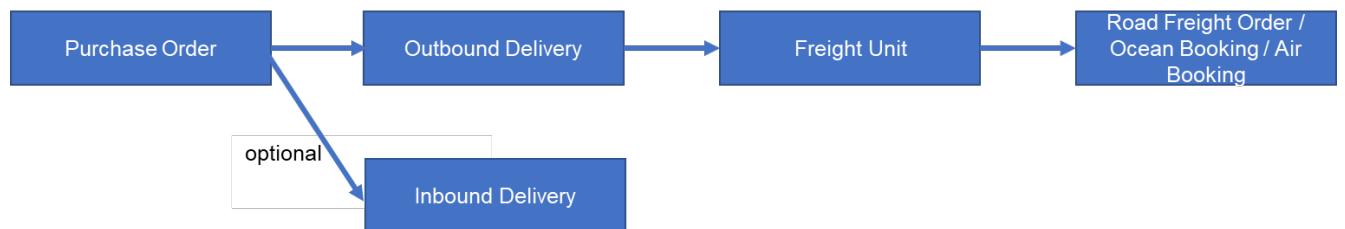
Scenario A:

Purchase Order -> Outbound Delivery -> Shipment.



Scenario B:

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



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

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

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

## Q7: How to stop sending unnecessary IDOCs from SAP ERP system 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:

- a. In Display IMG page, click **Integration with Other SAP Components -> Interface to Global Track and Trace -> Define Application Interface**.
- b. Choose activity **Define Used Business Process Types, Appl. Object Types and Event Types**.
- c. Choose the business process type “ESC\_PURORD” and double click **Define Application Object Types** on the left.
- d. 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.

The screenshot shows the SAP Change View "Define Application Object Types": Overview. The dialog structure on the left shows "Define Used Business Process Types" expanded, with "Define Application Object Types" selected. The main area displays a table titled "Define Application Object Types" with columns: Application Obj.Type, Seq. No., Description, CI for GTT, Object Type, and GTT Relev. (checkbox). Two rows are visible: GTT\_PO\_HD (Seq. No. 10, Description: Purchase Order Head for Procurement Visibility (GTT), CI for GTT: GTTAPPLOGS, Object Type: BUS2012, GTT Relev. checked) and GTT\_PO\_IT (Seq. No. 10, Description: Purchase Order Item for Procurement Visibility (GTT), CI for GTT: GTTAPPLOGS, Object Type: BUS2012, GTT Relev. checked). Both checkboxes are highlighted with a purple border.

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

- e. 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.

The screenshot shows the SAP Change View "Define Event Types": Overview. The dialog structure on the left shows "Define Used Business Process Types" expanded, with "Define Event Types" selected. The main area displays a table titled "Define Event Types" with columns: Business Process Type, Event Type, Description, Text, and GTTR (checkbox). Four rows are visible: ESC\_PURORD (Event Type: GTT\_EVT\_PO\_IT\_CF, Description: PO Item Confirmation Event, Text: Confirmation Event, GTTR checked); ESC\_PURORD (Event Type: GTT\_EVT\_PO\_IT\_DE, Description: PO Item Deletion Event, Text: Deletion Event, GTTR checked); ESC\_PURORD (Event Type: PCM10\_ACKNOWL, Description: Acknowledgement for Procurement Visibility, Text: Acknowl. Proc. Visib, GTTR checked); and ESC\_PURORD (Event Type: PCM10\_PO\_CHANGE, Description: Purchase Order Changes for Procurement Visibility, Text: PO Chg. Proc. Visib, GTTR checked). The first two rows are highlighted with a purple border.

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

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