



SAP ERP Sample Code Configuration Guide for Fulfillment Tracking Apps

SAP Logistics Business Network, Global Track and Trace Option

April 2022

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Document History

2204 Release:

1. Update [Appendix One](#)
2. Update Appendix Two
 - [Add Q2:How to add customized planned event types for GTT](#)

2203 Release:

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

2202 Release:

3. Update BC set file in the GitHub
4. 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)
5. Chapter [3.8](#) Maintain Event Type Restriction for Cross-Processes
 - Add "Restr.ID": DL_TO_POIT
6. 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)
7. 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"

8. 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](#)
9. 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](#)
10. 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](#)
11. Chapter [5 Configuration and Coding Guide – Advanced](#)
 - Add Chapter [5.1 Coding Tips for Sales Order Relevant Extractor](#)
12. Add [Appendix Two: FAQs](#)

2109 Release:

[Appendix: 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 Version

The SAP Product Version for the global track and trace option of SAP Logistics Business Network, Version 2 shall be SAP EHP1 FOR SAP NETWEAVER 7.3 or higher.

The node “Interface to Global Track and Trace” in the IMG and the related GTT-specific versions of the IMG activities are available in the software component version SAP_BW 750 from SP 12 on. They cannot be downloaded as a correction via note assistant. We recommend upgrading to the service package level accordingly.

The ABAP codes on Github to support Fulfillment Tracking apps for GTT Version 2 shall be implemented in S4 HANA 1909 SP03 on premise that is not validated in lower release, and not applicable for ECC series of products.

The following SAP NOTES shall be implemented.

[2370356 - SAP Global Track and Trace Application Interface](#)

[2937175 - Enhancement of IDOCs sent to GTT](#)

[2974952 - Error in Note 2937175](#)

[2959576 - Amendments to EM API for LBNTT2.0](#)

[3010748 - Allow unexpected events without location reference in TransportationEventBulkNotification](#)

Tips:

SAP version reference:

<https://support.sap.com/en/my-support/software-downloads/support-package-stacks/product-versions.html#section>

Note-assistant reference:

<https://support.sap.com/en/my-support/knowledge-base/note-assistant.html>

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

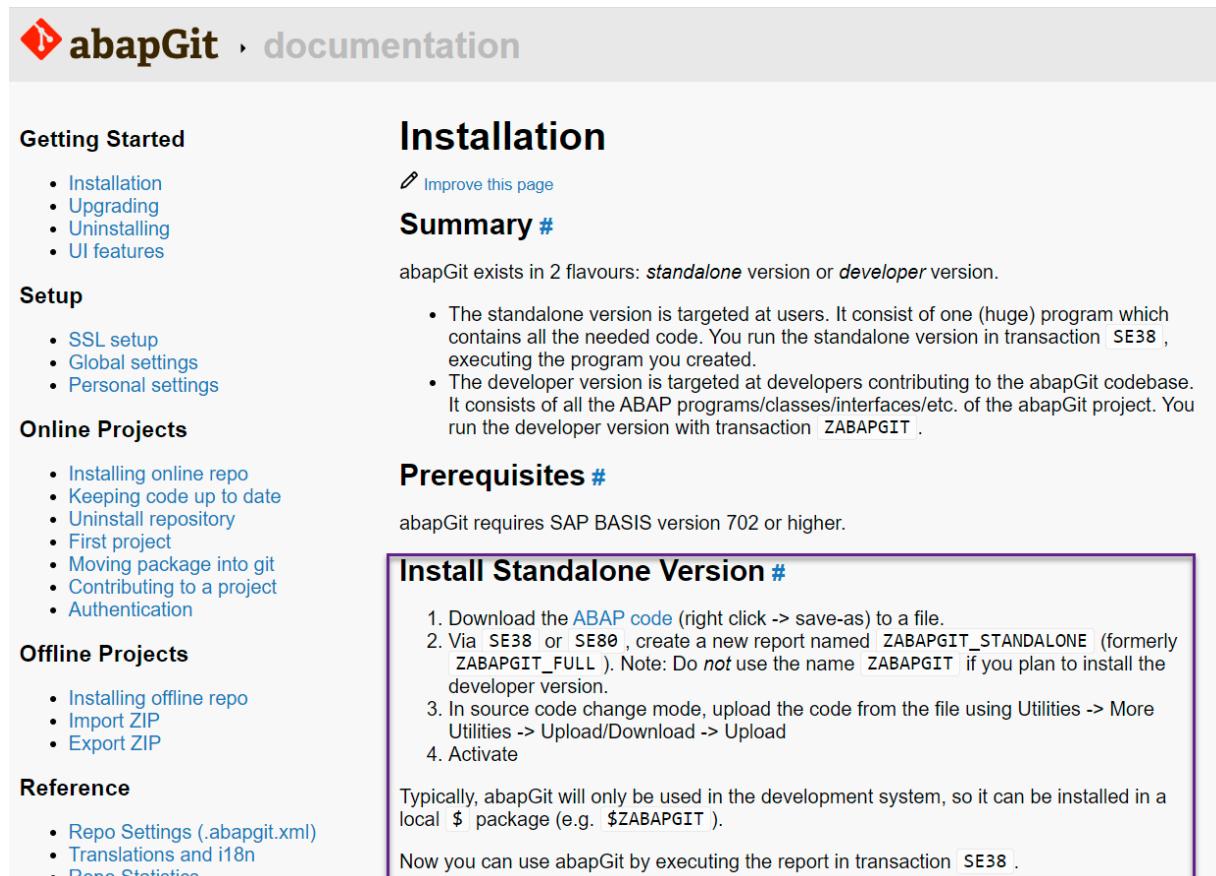
1.2.5 Click **Save**.

2. Download ABAP Code from GitHub

2.1 Initial Download ABAP Code from GitHub

2.1.1 Install ABAPGit

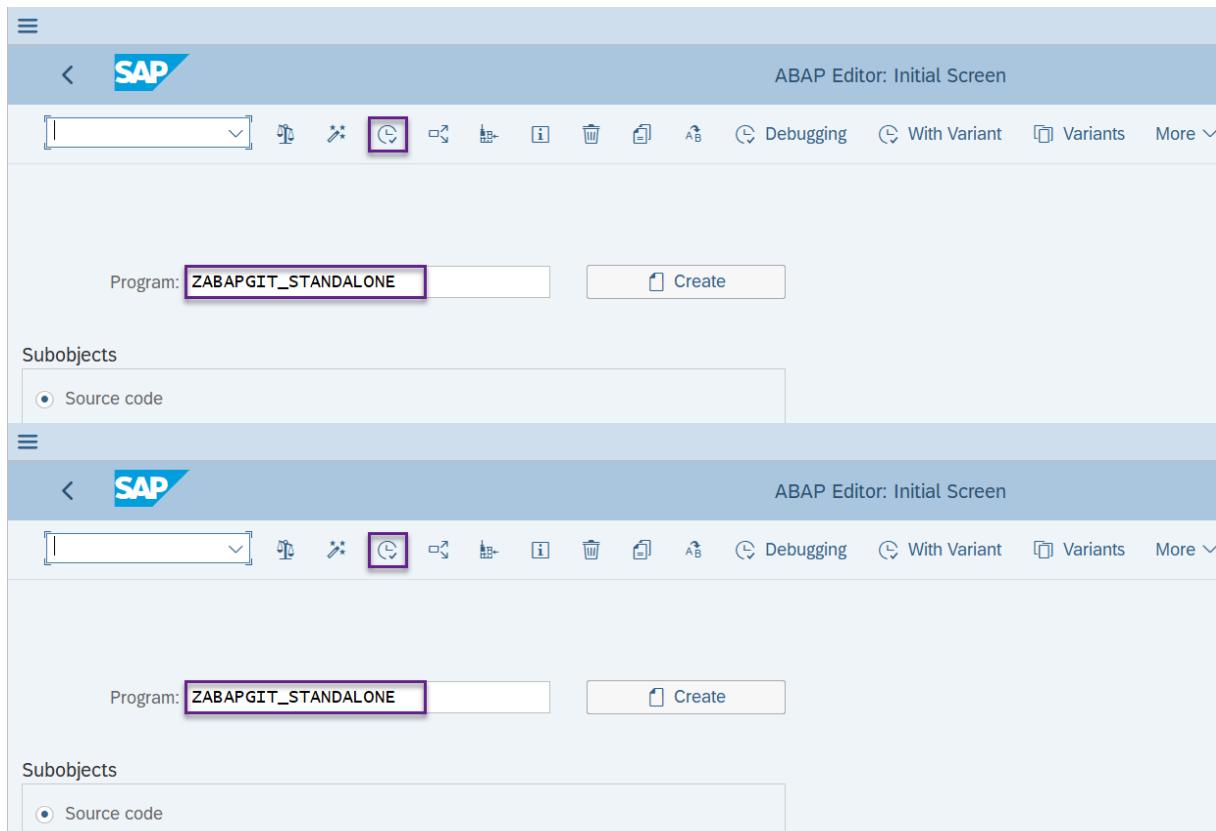
You need to install ABAPGit before downloading the codes from GitHub. To install ABAPGit, follow the instructions on <https://docs.abapgit.org/guide-install.html>. Make sure you **Install the standalone version** in your dev system. When installation is complete, a new report is created, `ZABAPGIT_STANDALONE`.



The screenshot shows the abapGit documentation website. The main navigation bar at the top has a red diamond icon and the text "abapGit · documentation". Below the navigation, there's a sidebar with links to "Getting Started", "Setup", "Online Projects", and "Offline Projects". The main content area is titled "Installation". It includes a "Summary #", which states that abapGit exists in two flavors: `standalone` version or `developer` version. It then lists four steps under "Prerequisites #": 1. Download the ABAP code (right click -> save-as) to a file. 2. Via `SE38` or `SE80`, create a new report named `ZABAPGIT_STANDALONE` (formerly `ZABAPGIT_FULL`). Note: Do *not* use the name `ZABAPGIT` if you plan to install the developer version. 3. In source code change mode, upload the code from the file using Utilities -> More Utilities -> Upload/Download -> Upload. 4. Activate. A note below the prerequisites says: "Typically, abapGit will only be used in the development system, so it can be installed in a local \$ package (e.g. \$ZABAPGIT)." Another note says: "Now 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.

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.

Git Repository URL *

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

Package *

ZGTT

Branch

Autodetect default branch

Folder Logic

Prefix Full

Display Name

Ignore Subpackages

Serialize Main Language Only

?

Clone Online Repo

Create Package

Back

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 repository 'GTT-V2-Standard-Apps'. The 'Pull' button is highlighted. The table lists various ABAP classes (CLAS) under the 'Type' column and their corresponding paths under the 'Path' column. Each row has a 'diff' link on the right.

Type	Name	Path	diff
CLAS	ZCL_GTT_MIA_AE_FILLER_DLH_GR	/lbn-gtt-standard-app/abap/zsrc/zgtt_mia/zcl_gtt_mia_ae_filler_dlh_gr.clas.abap	
CLAS	ZCL_GTT_MIA_AE_FILLER_DLH_PA	/lbn-gtt-standard-app/abap/zsrc/zgtt_mia/zcl_gtt_mia_ae_filler_dlh_pa.clas.abap	
CLAS	ZCL_GTT_MIA_AE_FILLER_DLH_PKN	/lbn-gtt-standard-app/abap/zsrc/zgtt_mia/zcl_gtt_mia_ae_filler_dlh_pkn.clas.abap	
CLAS	ZCL_GTT_MIA_AE_FILLER_SHH_BH	/lbn-gtt-standard-app/abap/zsrc/zgtt_mia/zcl_gtt_mia_ae_filler_shh_bh.clas.abap	
CLAS	ZCL_GTT_MIA_AE_FILLER_SHH_BS	/lbn-gtt-standard-app/abap/zsrc/zgtt_mia/zcl_gtt_mia_ae_filler_shh_bs.clas.abap	
CLAS	ZCL_GTT_MIA_AE_PARAMETERS	/lbn-gtt-standard-app/abap/zsrc/zgtt_mia/zcl_gtt_mia_ae_parameters.clas.abap	
CLAS	ZCL_GTT_MIA_AE_PERFORMER	/lbn-gtt-standard-app/abap/zsrc/zgtt_mia/zcl_gtt_mia_ae_performer.clas.abap	
CLAS	ZCL_GTT_MIA_AE_PROCESSOR	/lbn-gtt-standard-app/abap/zsrc/zgtt_mia/zcl_gtt_mia_ae_processor.clas.abap	
CLAS	ZCL_GTT_MIA_CTP_DAT_TOR_TO_DLH	/lbn-gtt-standard-app/abap/zsrc/zgtt_mia/zcl_gtt_mia_ctp_dat_tor_to_dlh.clas.abap	
CLAS	ZCL_GTT_MIA_CTP_DAT_TOR_TO_DLI	/lbn-gtt-standard-app/abap/zsrc/zgtt_mia/zcl_gtt_mia_ctp_dat_tor_to_dli.clas.abap	
CLAS	ZCL_GTT_MIA_CTP_SHIPMENT_DATA	/lbn-gtt-standard-app/abap/zsrc/zgtt_mia/zcl_gtt_mia_ctp_shipment_data.clas.abap	
CLAS	ZCL_GTT_MIA_CTP SND	/lbn-gtt-standard-app/abap/zsrc/zgtt_mia/zcl_gtt_mia_ctp_snd.clas.abap	
CLAS	ZCL_GTT_MIA_CTP SND SH TO DLH	/lbn-gtt-standard-app/abap/zsrc/zgtt_mia/zcl_gtt_mia_ctp_snd_sh_to_dlh.clas.abap	

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 ABAP Editor: Initial Screen. The 'Program:' field contains 'ZABAPGIT_STANDALONE'. The 'Create' button is visible. Below the program field is a 'Subobjects' section with radio buttons for 'Source code', 'Variants', 'Attributes', 'Text elements', and 'Documentation'. The 'Source code' option is selected.

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

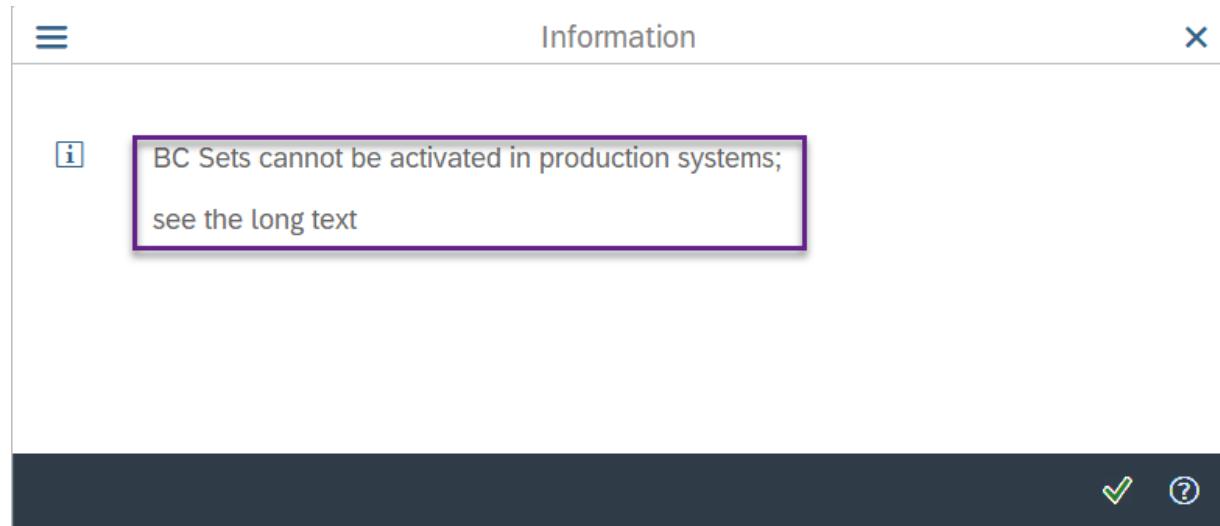
2.2.1.3 Click **Pull** to pull down the latest version code.



3. Configuration Option 1 (Import BC Set + Manual Configuration)

Prerequisite:

For this option, you must build up 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.



The screenshot shows the SAP Fiori Launchpad. In the top right, there is a card for "Performance Assistant" with the message: "BC Sets cannot be activated in production systems; see the long text". Below this, it says "Message no. SCPR229". Under "Diagnosis", it states: "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." Under "System Response", it says: "The procedure was cancelled. No data was written into customizing tables." Under "Procedure", it says: "Activate the BC Set in a test system."

3.1 Download BC Set from GitHub

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

3.1.2 Click on “Raw” button.

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

generated from SAP-samples/apache2-reuse-template

Code Issues Pull requests Actions Projects Security Insights

main lbn-gtt-standard-app / BCset / ZGTT_CONF.bcs Go to file ...

i067300 initial version BCset 31b80cc5 12 hours ago History

0 contributors

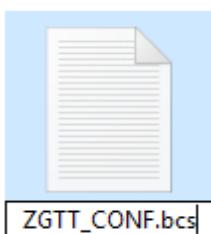
1191 lines (1191 sloc) | 444 KB Raw Blame

1	VERSION	1
2	DATE	20210513
3	BCSET	ZGTT_CONF
4	ORGID	/CUSTOMER/
5	COMPONENT	SAP_BASIS
6	MINERELEASE	750
7	MULVPI FALSE	*

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

1. Click Save as to save the configuration file to your local path.				
VERSION	1			
ATE	20210513			
CSET	ZGTT_CONF			
RGID	/CUSTOMER/			
OPONENT	SAP_BASIS			
INCLUDES	750			
EXCLUDES	"			
CSET_TEXT	GTT Standard APP Configuration			
CPRTXT	E GTT Standard APP Configuration			
CPRVALS	/SAPTRX/VFUNC_A	1 FUNCTION_ID	FKY	GTT_MIA_IDLV_HD_REL
CPRVALS	/SAPTRX/VFUNC_A	1 FUNC_NAME	USE	ZGTT_MIA_OTE_DL_HDR_REL
CPRVALS	/SAPTRX/VFUNC_A	1 FUNC_TYPE	FKY	
CPRVALS	/SAPTRX/VFUNC_A	2 MANDT	FKY	
CPRVALS	/SAPTRX/VFUNC_A	2 FUNCTION_ID	FKY	GTT_MIA_IDLV_IT_REL
CPRVALS	/SAPTRX/VFUNC_A	2 FUNC_NAME	USE	ZGTT_MIA_OTE_DL_ITEN_REL
CPRVALS	/SAPTRX/VFUNC_A	2 FUNC_TYPE	FKY	
CPRVALS	/SAPTRX/VFUNC_A	2 MANDT	FKY	
CPRVALS	/SAPTRX/VFUNC_A	3 FUNCTION_ID	FKY	
CPRVALS	/SAPTRX/VFUNC_A	3 FUNC_NAME	USE	GTT_MIA_SHP_HD_REL
CPRVALS	/SAPTRX/VFUNC_A	3 FUNC_TYPE	FKY	
CPRVALS	/SAPTRX/VFUNC_A	3 MANDT	FKY	
CPRVALS	/SAPTRX/VFUNC_A	4 FUNCTION_ID	FKY	GTT_TS_FO_HD_REL
CPRVALS	/SAPTRX/VFUNC_A	4 FUNC_NAME	USE	ZGTT_STS_OTE_FO_HDR_REL
CPRVALS	/SAPTRX/VFUNC_A	4 FUNC_TYPE	FKY	
CPRVALS	/SAPTRX/VFUNC_A	4 MANDT	FKY	
CPRVALS	/SAPTRX/VFUNC_A	5 FUNCTION_ID	FKY	GTT_TS_FU_HD_REL
CPRVALS	/SAPTRX/VFUNC_A	5 FUNC_NAME	USE	ZGTT_STS_OTE_FO_HDR_REL
CPRVALS	/SAPTRX/VFUNC_A	5 FUNC_TYPE	FKY	
CPRVALS	/SAPTRX/VFUNC_A	5 MANDT	FKY	
CPRVALS	/SAPTRX/VFUNC_B	1 FUNCTION_ID	Back	Alt+Left Arrow
CPRVALS	/SAPTRX/VFUNC_B	1 FUNC_NAME	Forward	Alt+Right Arrow
CPRVALS	/SAPTRX/VFUNC_B	2 FUNC_TYPE	Reload	Ctrl+R
CPRVALS	/SAPTRX/VFUNC_B	2 MANDT		
CPRVALS	/SAPTRX/VFUNC_B	3 FUNCTION_ID		
CPRVALS	/SAPTRX/VFUNC_B	3 FUNC_NAME		
CPRVALS	/SAPTRX/VFUNC_B	3 FUNC_TYPE		
CPRVALS	/SAPTRX/VFUNC_B	3 MANDT		
CPRVALS	/SAPTRX/VFUNC_B	4 FUNCTION_ID		
CPRVALS	/SAPTRX/VFUNC_B	4 FUNC_NAME		
CPRVALS	/SAPTRX/VFUNC_B	4 FUNC_TYPE		
CPRVALS	/SAPTRX/VFUNC_B	4 MANDT		
CPRVALS	/SAPTRX/VFUNC_B	5 FUNCTION_ID		
CPRVALS	/SAPTRX/VFUNC_B	5 FUNC_NAME		
CPRVALS	/SAPTRX/VFUNC_B	5 FUNC_TYPE		
CPRVALS	/SAPTRX/VFUNC_B	5 MANDT		
Save as...				
Print...				
Cast...				
Create QR code for this page				
Translate to English				
View page source				
Inspect				

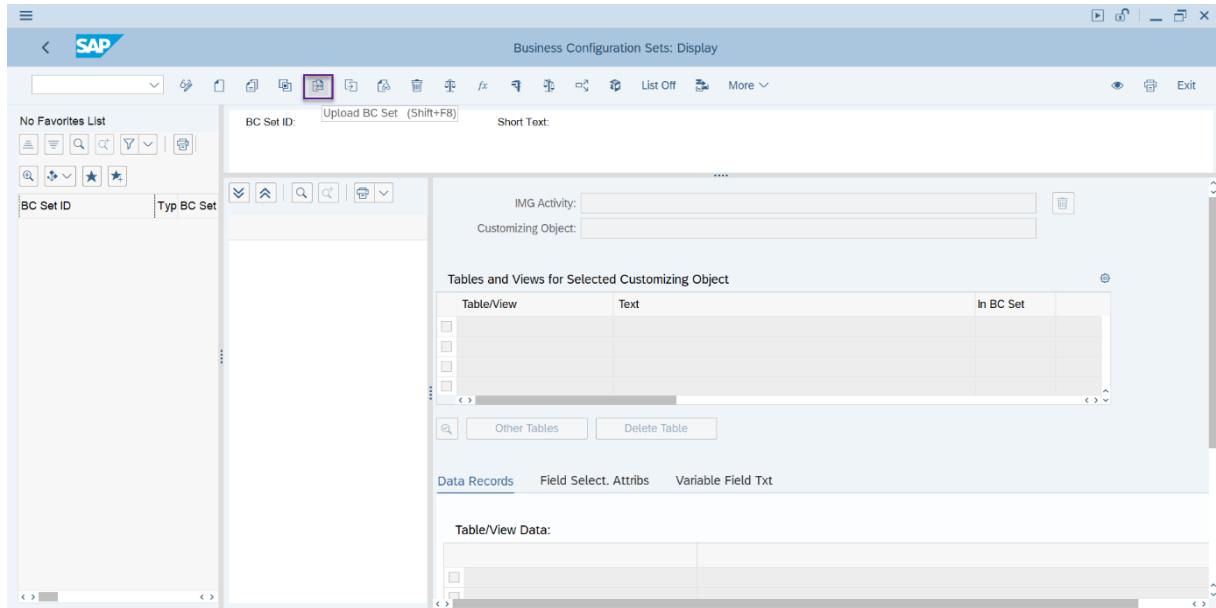
3.1.4 Change file extension to “.bcs”.



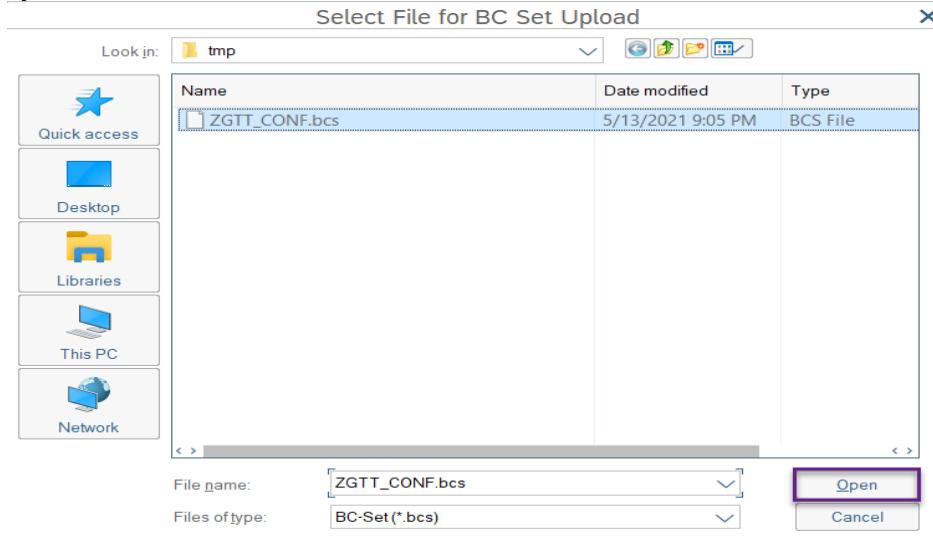
3.2 Import BC Set

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

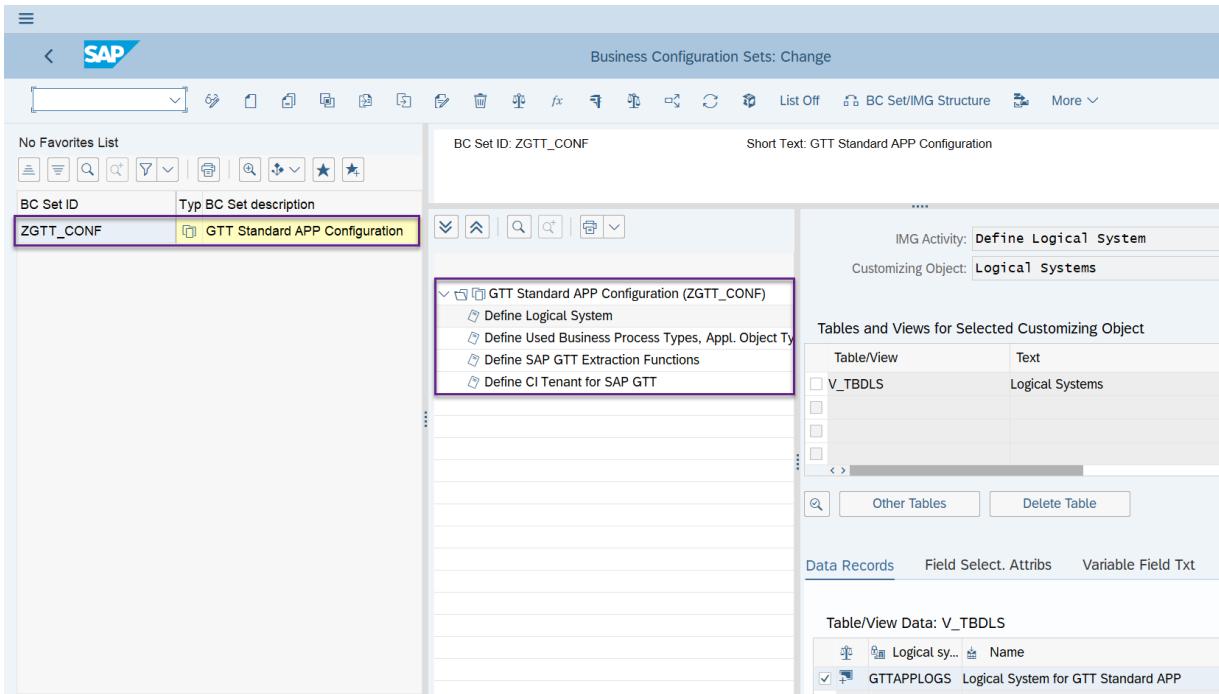
3.2.2 Select **Upload BC Set**.



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.



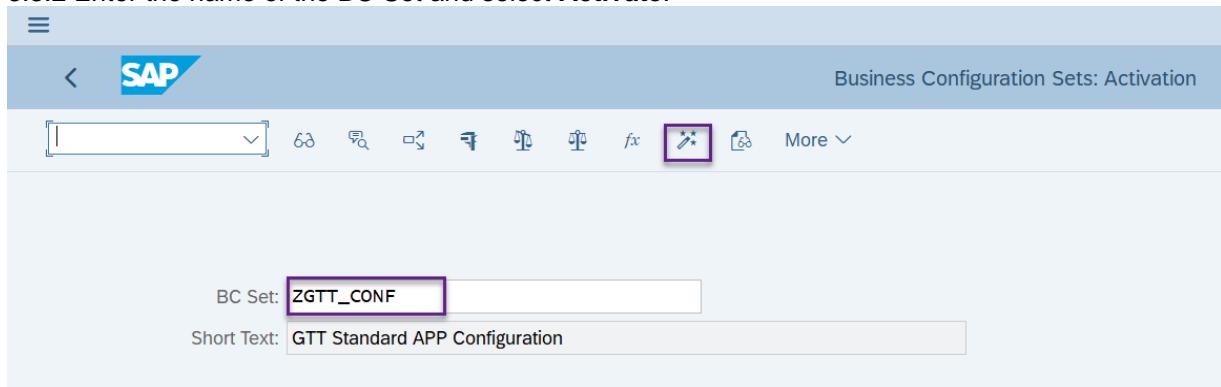
3.2.4 Click **Save** to save the BC Set.

BC Set ZGTT_CONF saved

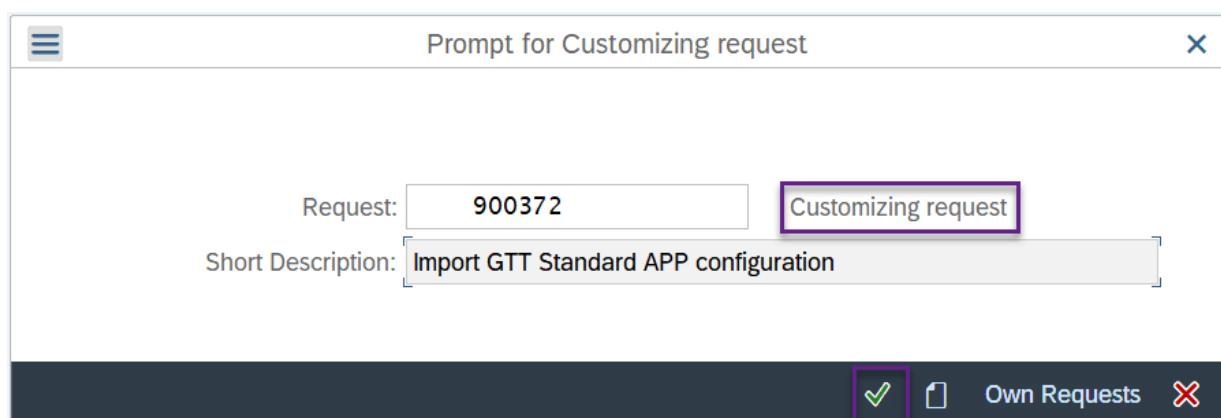
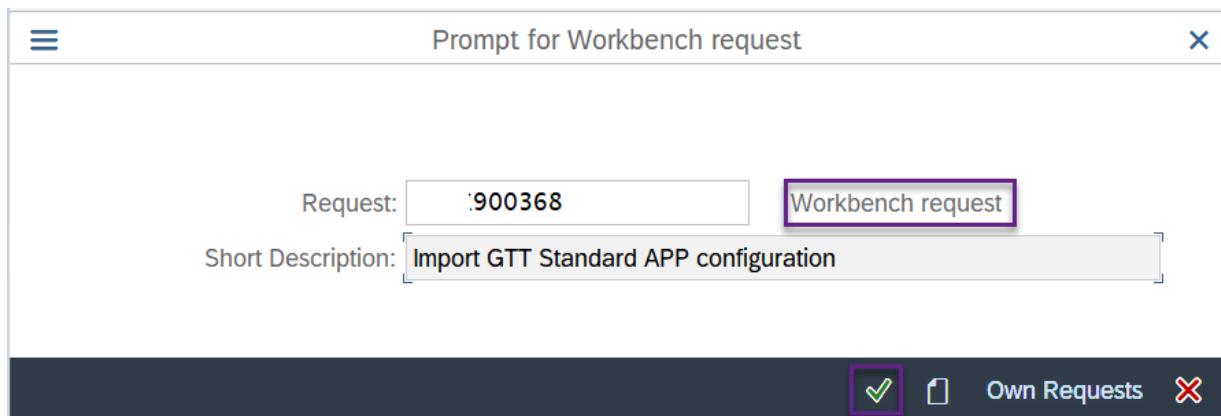
3.3 Activate BC Set

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

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



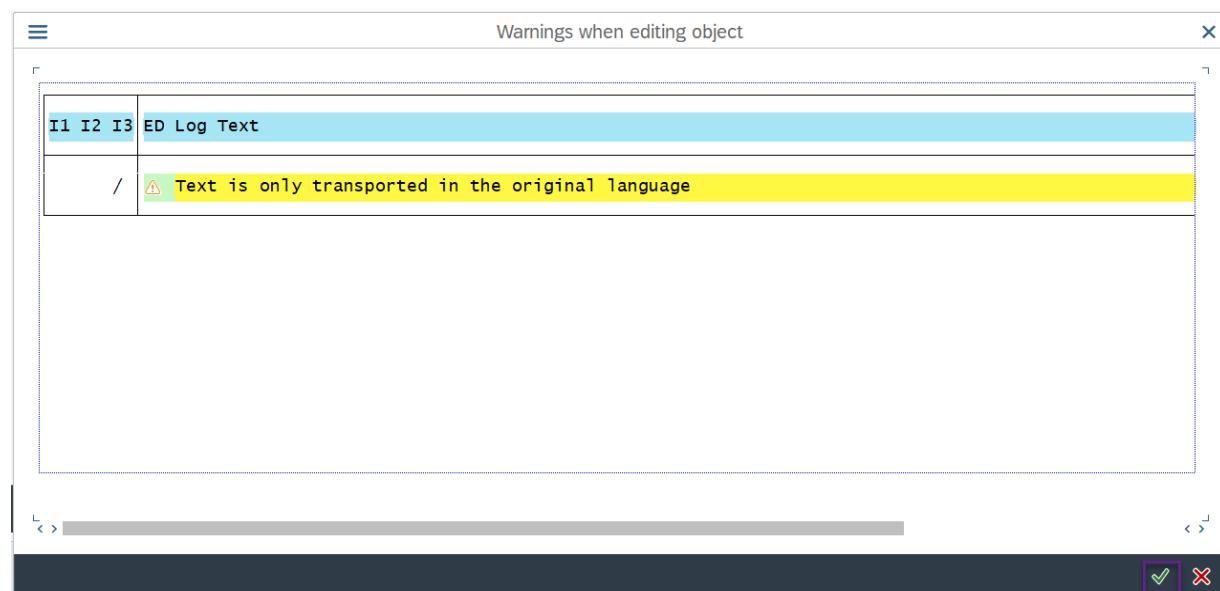
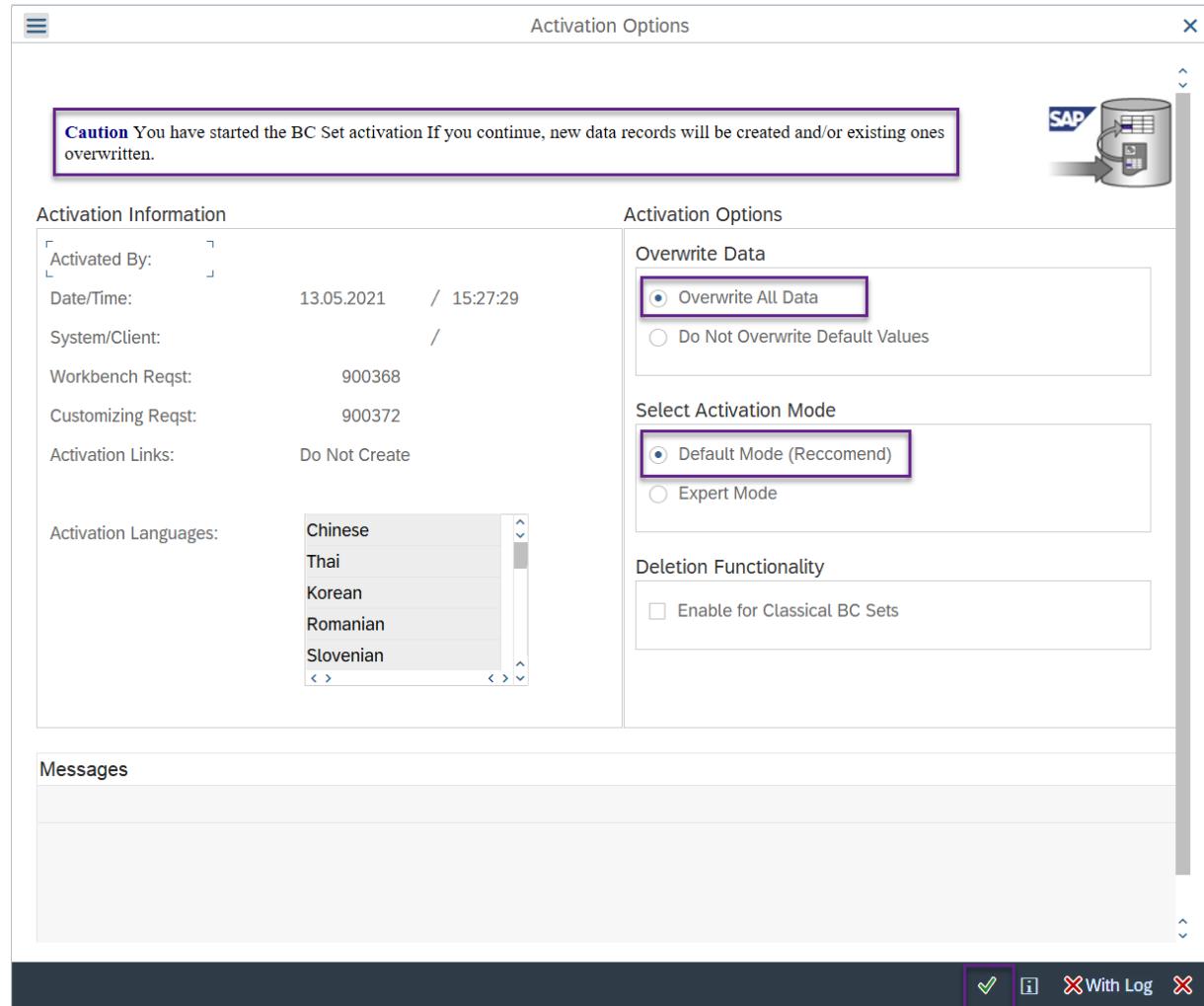
3.3.3 Provide a Workbench request and a Customizing request.



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.



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

The top part shows the "Business Configuration Sets: Activation" screen. It displays the BC Set "ZGTT_CONF" and its short text "GTT Standard APP Configuration".

The bottom part shows the "Business Configuration Sets: Activation Logs" screen. It displays the activation log for the date 13.05.2021 um 15:27:29. The log details the activation process for various objects, including /SAPTRX/VC_AOTYPE_CTT, /SAPTRX/VC_ASFUNC_CTT, /SAPTRX/V_CTTSRV, and V_TBDLS. The log entries include messages such as "Main Activation Started", "User-defined languages are not installed in the system", and "BC Set ZGTT_CONF passed to activate".

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

3.4 Define RFC Connection for GTT

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.

The screenshot shows the SAP Reference IMG interface with the title 'Configuration of RFC Connections'. At the top, there are buttons for 'Generate RFC Callback Allowlist', 'Activate Non-Empty Allowlists', and 'Allowlist for Dynamic'. A note 'RFC callback check not secure' is displayed. Below is a toolbar with icons for refresh, search, create (highlighted), edit, details, and delete. A table lists RFC connections with columns for Type (3, G, H, I, L), PL Active, and Comment. The 'HTTP Connections to External Server' node is highlighted with a purple border.

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

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

The screenshot shows the 'Create Destination' dialog box. It has fields for 'Destination' (containing 'GTT_APP_RFC') and 'Connection Type' (set to 'G HTTP connection to external server'). There are also 'Next' and 'Cancel' buttons at the bottom.

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. 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-pre-live.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 "G HTTP Connection to External Server". The "Description" section contains three fields: "Description 1: RFC for GTT Standard APP", "Description 2:", and "Description 3:". Other tabs visible in the dialog include "Administration", "Logon & Security", and "Special Options".

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.

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

RFC Destination: GTT_APP_RFC

Connection Type: G HTTP Connection to External Server

Description

Description 1: RFC for GTT Standard APP

Description 2:

Description 3:

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

Logon Procedure

Logon with User

- Do not use a user
- Basic authentication

User:

PW Status: **saved**

Logon with Ticket

- Do not send logon ticket
- Send ticket without reference to target system
- Send assertion ticket for dedicated target system

System ID Client

Logon with MQTT/AMQP

User:

PW Status: **is initial**

Security Options

Status of Secure Protocol

SSL : Inactive Active

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

Do not use certificate for logon

3.4.7 Save the configuration.



3.5 Define Ports

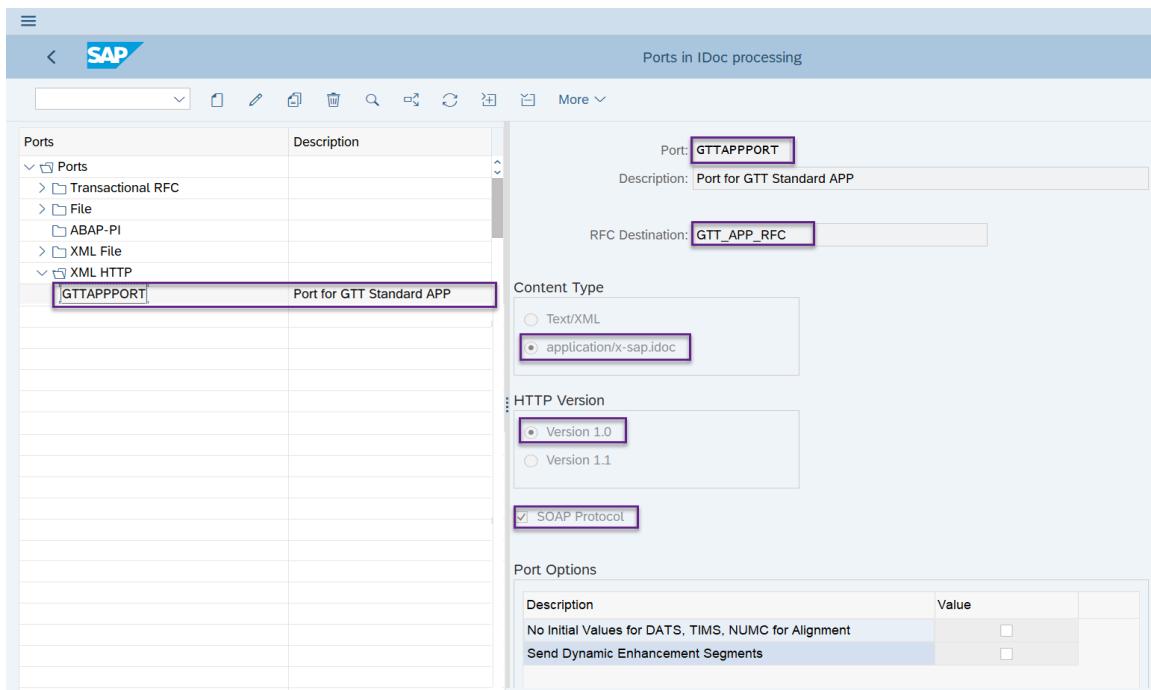
3.5.1 In Display IMG page, click **Integration with Other SAP Components -> Interface to Global Track and Trace -> IDoc Settings**. Choose activity **Define Ports**.

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

3.5.3 Fill in the **RFC Destination**.

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

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

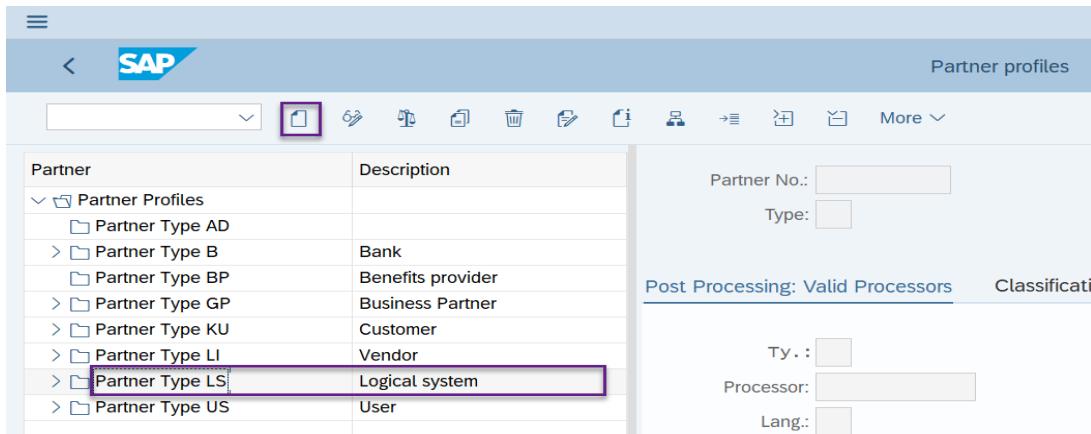


3.5.6 Save the configuration.

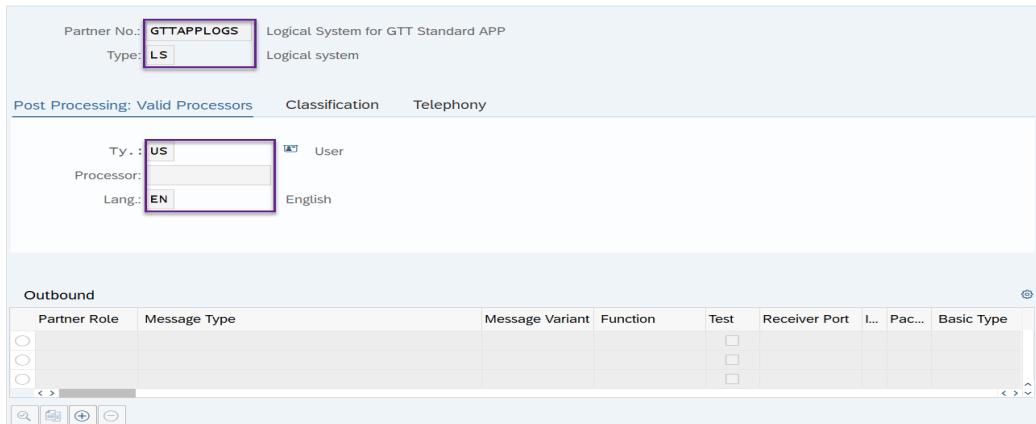
3.6 Define Partner Profiles

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**.

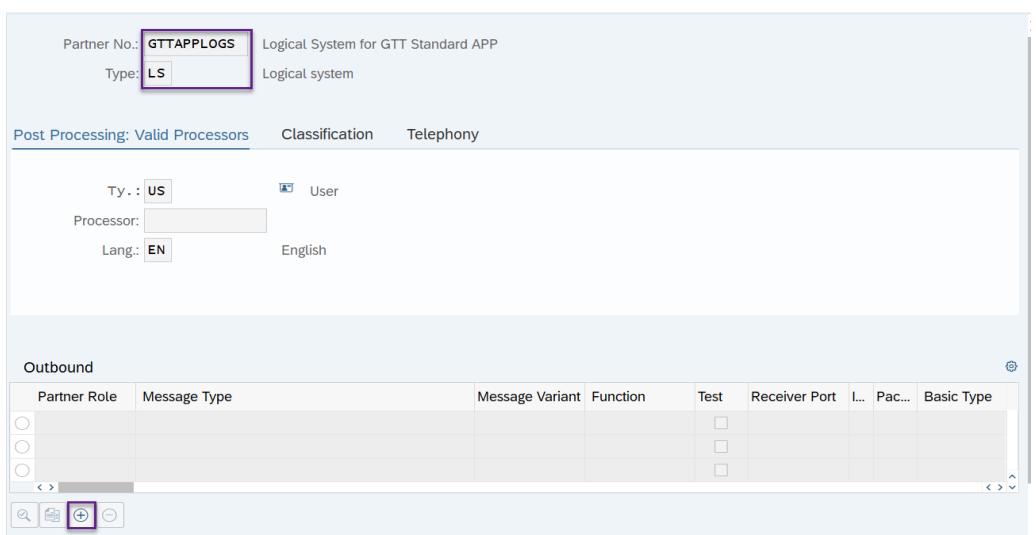
3.6.2 Choose **Partner Type LS** folder, and click **Create** to create a new partner profile.



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



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



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 a partner profile. The top navigation bar includes the SAP logo and the title "Partner profiles: Outbound parameters". The main form contains the following fields:

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

Below the main form, there are tabs for **Outbound Options**, **Message Control**, **Post Processing: Valid Processors**, **Telephony**, and **EDI Standard**. The **Outbound Options** tab is selected. Under this tab, the following settings are shown:

- Receiver Port:** GTTAPPOR (highlighted with a purple border)
- Port for GTT Standard APP**
- Pack. Size:** 0
- Queue Processing:** (checkbox)
- Output Mode:** (radio buttons)
 - Pass IDoc Immediately (selected)
 - Collect IDocsOutput Mode: 2
- IDoc Type:** (group box)
 - Basic Type:** GTTMSG01 (highlighted with a purple border)
 - Extension:** (empty field)
 - View:** (empty field)
 - LBN-TT: Process and Event Posting**
 - Cancel Processing After Syntax Error:** (checkbox) (checked)
 - Seg. release in IDoc type:** (empty field)
 - Application Release:** (empty field)

3.6.6 Save the configuration.

3.7 Maintain AOT Type Restriction for Cross-Processes

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

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

4. Configuration Option 2 (Manual Configuration)

4.1 Define RFC Connection for GTT

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
> ABAP Connections	3		
> HTTP Connections to External Server	G		
> HTTP Connections to ABAP System	H		
> Internal Connections	I		
> Logical Connections	L		

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

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 application configuration interface for an RFC destination named "GTT_APP_RFC". The "Technical Settings" tab is highlighted with a purple border. 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". Other tabs visible include "Administration", "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.

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

RFC Destination: **GTT_APP_RFC**

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

Description

Description 1: RFC for GTT Standard APP

Description 2:

Description 3:

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

Logon Procedure

Logon with User

Do not use a user **OAuth Settings**

Basic authentication

User: []

PW Status: **saved**

Logon with Ticket

Do not send logon ticket

Send ticket without reference to target system

Send assertion ticket for dedicated target system

System ID [] Client []

Logon with MQTT/AMQP

User: []

PW Status: **is initial**

Security Options

Status of Secure Protocol

SSL: Inactive Active

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

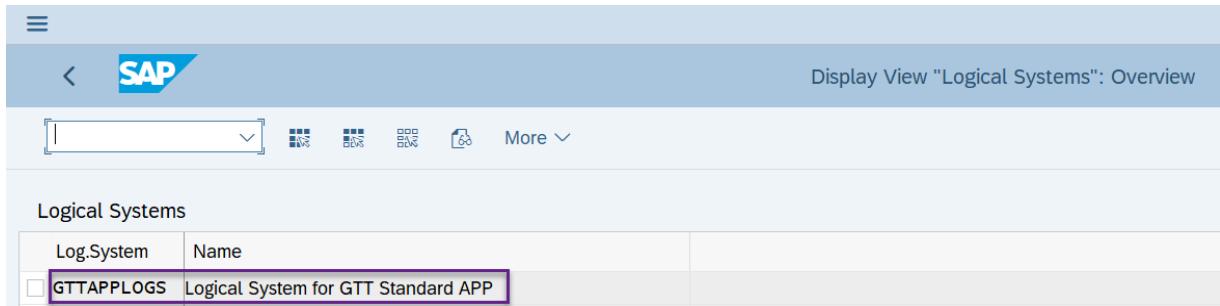
Do not use certificate for logon

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.



The screenshot shows the SAP Fiori interface for the 'Logical Systems' overview. The title bar reads 'Display View "Logical Systems": Overview'. Below the title bar is a search bar and a toolbar with various icons. The main area is titled 'Logical Systems' and contains a table with two columns: 'Log.System' and 'Name'. A single row is visible, containing the value 'GTTAPPLOGS' in the 'Log.System' column and 'Logical System for GTT Standard APP' in the 'Name' column. The entire row is highlighted with a purple border.

Log.System	Name
GTTAPPLOGS	Logical System for GTT Standard APP

4.2.3 Save the configuration.

4.3 Define Ports

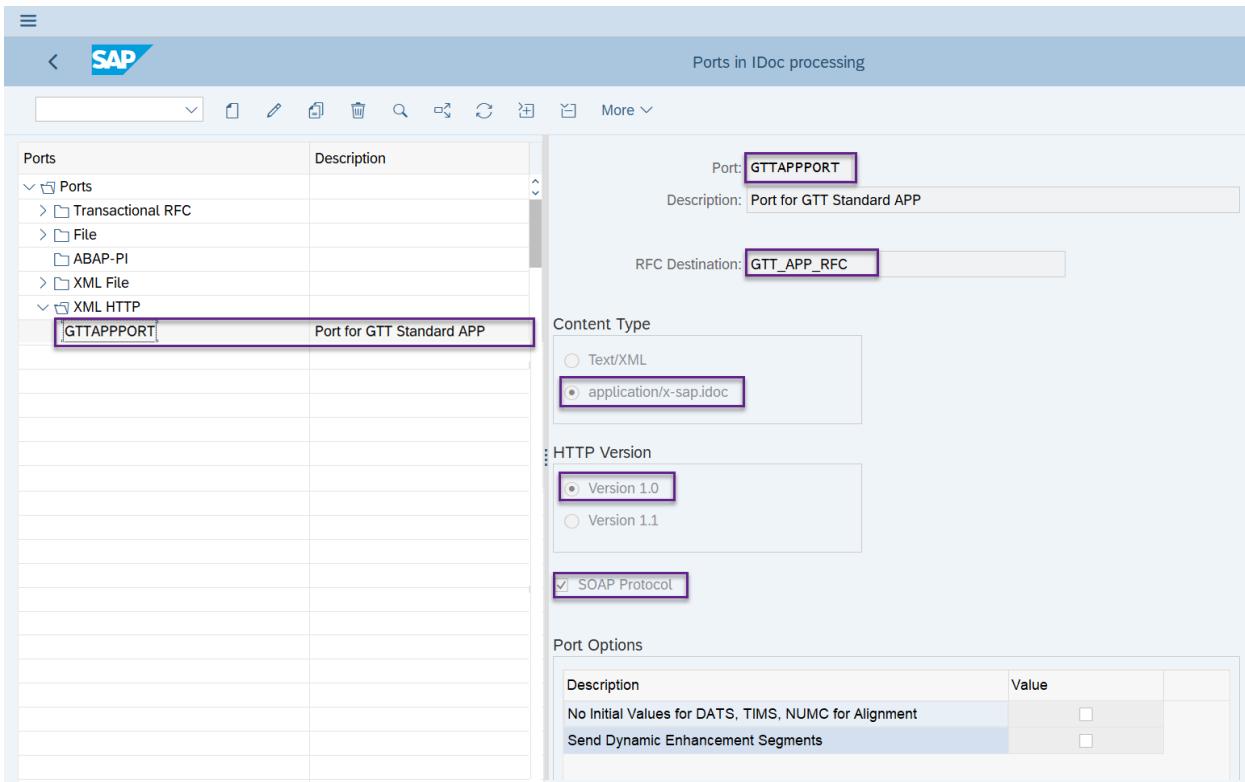
4.3.1 In Display IMG page, click **Integration with Other SAP Components -> Interface to Global Track and Trace -> IDoc Settings**. Choose activity **Define Ports**.

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

4.3.3 Fill in the **RFC Destination**.

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

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



4.3.6 Save the configuration.

4.4 Define Partner Profiles

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

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

The screenshot shows the SAP Fiori interface for defining partner profiles. The top navigation bar includes the SAP logo and the title "Partner profiles". Below the header is a toolbar with various icons for creating, deleting, and modifying records. The main area displays a table with two columns: "Partner" and "Description". The "Partner" column lists several categories under "Partner Profiles": "Partner Type AD", "Partner Type B", "Partner Type BP", "Partner Type GP", "Partner Type KU", "Partner Type LI", "Partner Type LS", and "Partner Type US". The "Description" column provides a brief description for each category. The row for "Partner Type LS" is highlighted with a purple border, indicating it is selected. To the right of the table, there are several input fields and tabs for configuration. The "Post Processing: Valid Processors" tab is active. The "Processor:" field contains "GTTAPPLOGS" and has a tooltip "Logical System for GTT Standard APP". The "Type:" field contains "LS" and has a tooltip "Logical system". Other tabs include "Classification" and "Telephony". Below these tabs is a section for "Outbound" settings, which includes a table with columns: "Partner Role", "Message Type", "Message Variant", "Function", "Test", "Receiver Port", "I...", "Pac...", and "Basic Type". The "Test" column contains three checkboxes, all of which are checked. At the bottom of the configuration area are several small icons for search, refresh, and other functions.

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

This screenshot shows the detailed configuration for the partner profile "GTTAPPLOGS". The top part of the screen displays the partner number "GTTAPPLOGS" and its type "LS". Below this, the "Post Processing: Valid Processors" tab is selected, showing the processor "GTTAPPLOGS" and its description "Logical System for GTT Standard APP". The "Type:" field is set to "LS" and the "Processor:" field contains "GTTAPPLOGS". The "Lang:" field is set to "EN" and the "User" language is English. The "Classification" and "Telephony" tabs are also visible. At the bottom, the "Outbound" section is shown with a table for message types, and the "Test" column shows three checked checkboxes.

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
(<input type="radio"/>				<input type="checkbox"/>				
(<input type="radio"/>				<input type="checkbox"/>				
(<input type="radio"/>				<input type="checkbox"/>				

+ 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: **GTTAPPRT** 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 GTT

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 GTT, fill in the information for the new CI tenant. The **CI Log. System** is the logical system you created in [4.2](#).

The first screenshot shows the "Change View 'SAP Global Track & Trace Definitions': Overview" screen. A purple box highlights the "New Entries" button in the top navigation bar. The table below has columns: CI for Global Track & Trace, CI Log. System, SAP Track & Trace Version, and Description.

The second screenshot shows the "Display View 'SAP Global Track & Trace Definitions': Overview" screen. It displays a single row of data in the table:

CI for Global Track & Trace	CI Log. System	SAP Track & Trace Version	Description
GTTAPPLOGS	GTTAPPLOGS	GTT2.0 Logistics Business Network - Track and Trace	CI Tenant for GTT Standard APP

4.6 Define GTT Extraction Functions

Prerequisite:

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

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

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

The screenshot shows the "Change View 'GTT Relevance Functions (App. Obj. Types)': Overview" screen. A purple box highlights the "New entries" button in the top navigation bar. The left sidebar shows the "Dialog Structure" with "GTT Relevance Functions (App. Obj. Types)" selected. The main area shows a table titled "GTT Relevance Functions (App. Obj. Types)" with columns: Function, Function Module, and Description.

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
<input checked="" type="checkbox"/>	GTT_MIA_IDLV_HD_REL	ZGTT_MIA_OTE_DL_HDR_REL	Appl. Object Type Relevance for Inbound Delivery Header
<input type="checkbox"/>			

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

	GTT_TS_TOR_DECP	ZGTT_STS_EE_FO_DECOPLING_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
<input checked="" type="checkbox"/> ESC_DELIV	Update Task (V1)	Active	Delivery in SAP R/3 Enterprise
<input type="checkbox"/> ESC_FI_CLEARING	Update Task (V1)	Active	FI Clearing in SAP R/3 Enterprise

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

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

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

Bus. Proc. Type:	ESC_DELIV
Appl. Obj. Type:	GTT_IDLV_HD
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

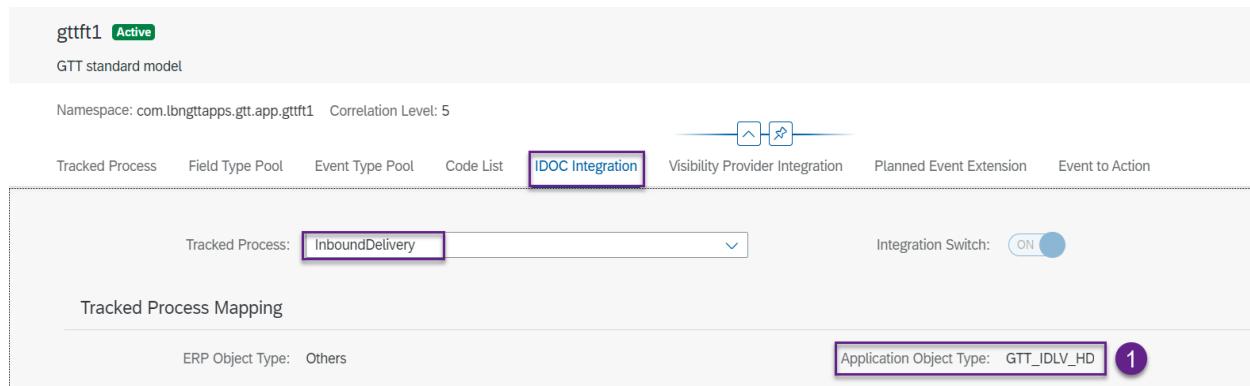
Object Type:	BUS2015	InboundDelivery
BO Setup Fnct:		

Behavior

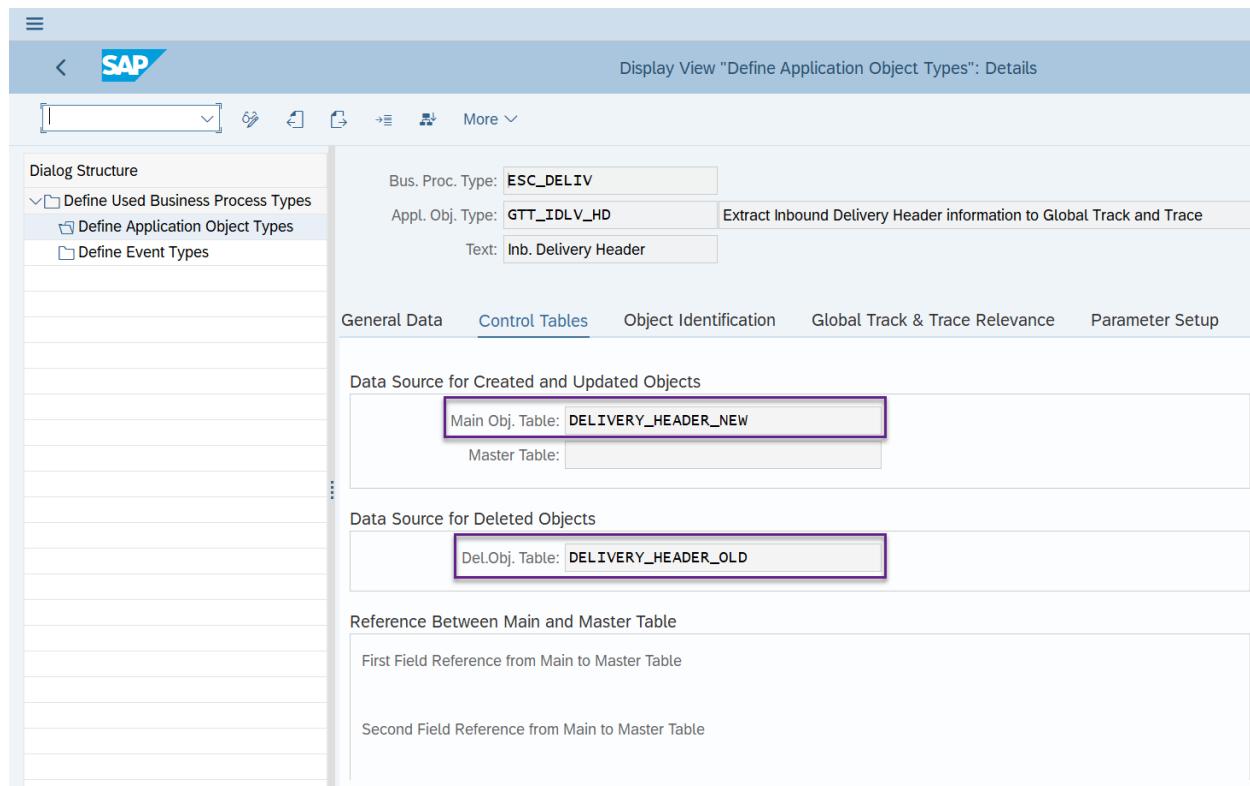
<input checked="" type="checkbox"/> GTT Relevant
<input type="checkbox"/> Stop AO Determ.
<input type="checkbox"/> Appl. Log Deact

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.

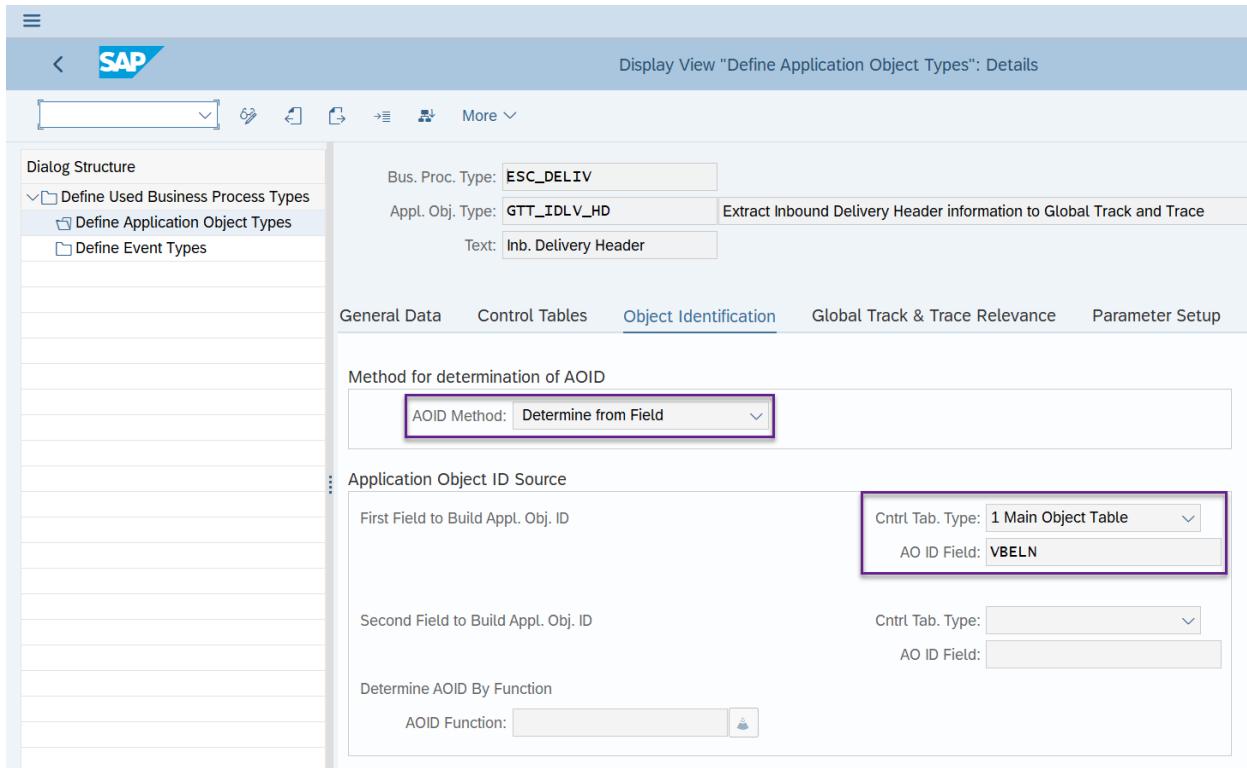


Note:

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

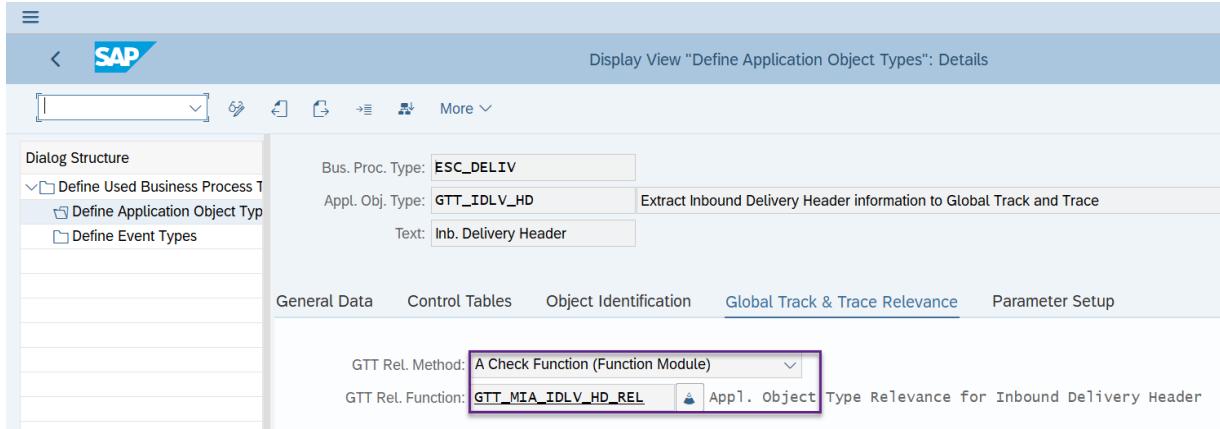
If the event type or application object type is on the item level, then you need to assign the **Main Object Table** and **Master Table**, and assign the reference between the **Main Object Table** and **Master Table**.

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.

4.9 Define Application Object Types for Item Level Extractor

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

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

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

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

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

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	

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

Object Type:	BUS2015
BO Setup Fnct.:	InboundDelivery

<input checked="" type="checkbox"/> GTT Relevant
<input type="checkbox"/> Stop AO Determ.
<input type="checkbox"/> Appl. Log Deact

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

Display View "Define Application Object Types": Details

Dialog Structure

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

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

Data Source for Created and Updated Objects

Main Obj. Table:	DELIVERY_ITEM_NEW
Master Table:	DELIVERY_HEADER_NEW

Data Source for Deleted Objects

Del.Obj. Table:	DELIVERY_ITEM_OLD
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Reference Between Main and Master Table

First Field Reference from Main to Master Table

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

Second Field Reference from Main to Master Table

Uplink Field:		Uplink Mode:	
Uplink Target Fld:		Uplink Const:	

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

Display View "Define Application Object Types": Details

Dialog Structure

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

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

Method for determination of AOID

AOID Method:	Determine from Field
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Application Object ID Source

First Field to Build Appl. Obj. ID

Cntrl Tab. Type:	1 Main Object Table
AO ID Field:	VBELN

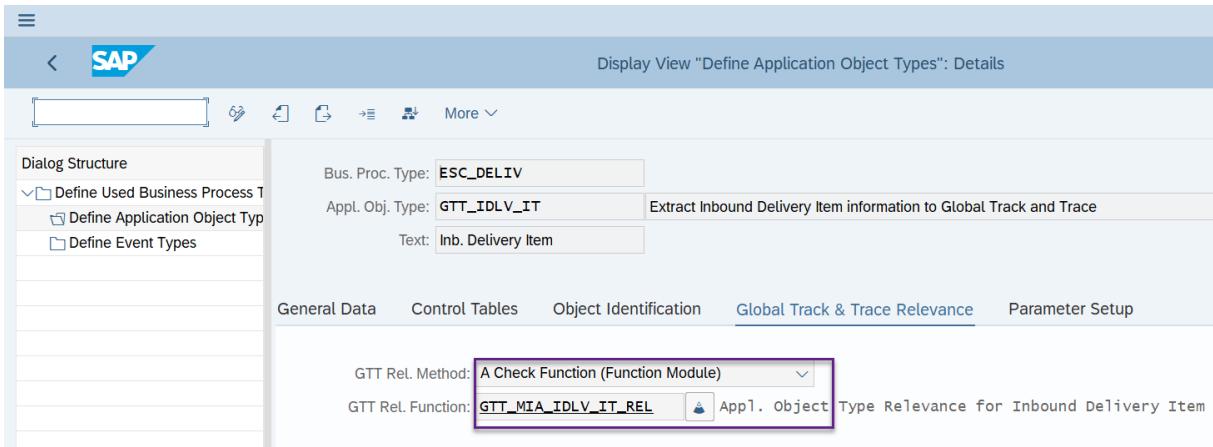
Second Field to Build Appl. Obj. ID

Cntrl Tab. Type:	1 Main Object Table
AO ID Field:	POSNR

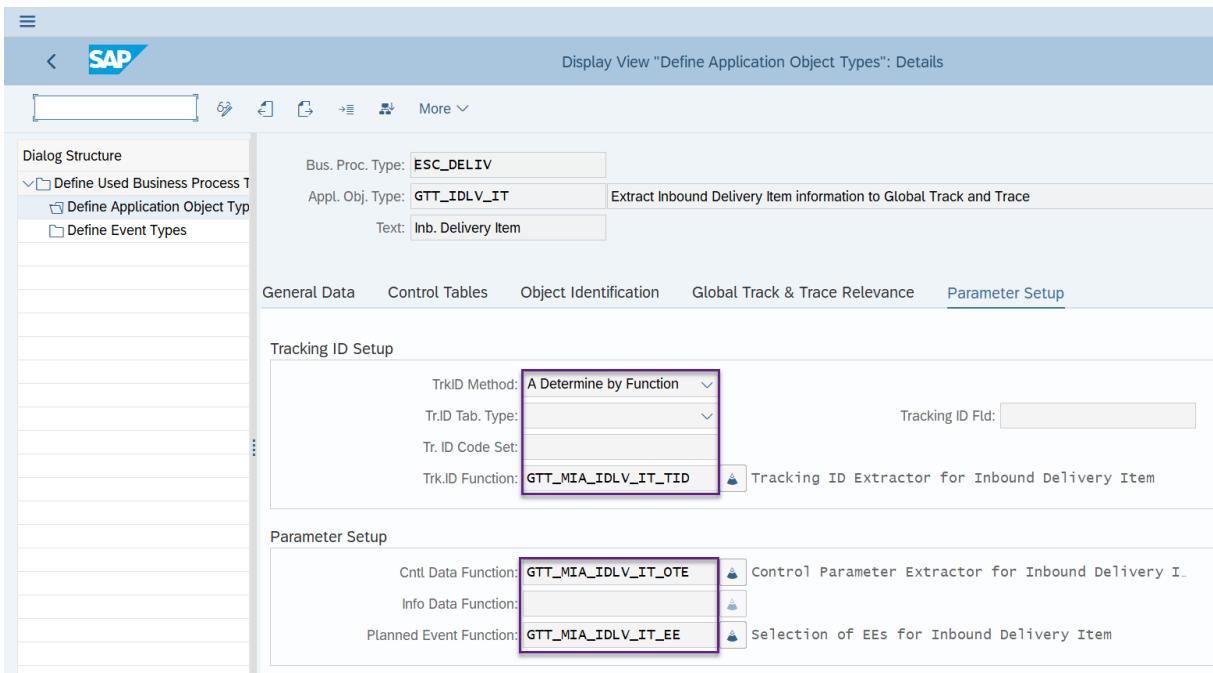
Determine AOID By Function

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



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



4.10 Define Event Types for Header Level Extractor

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

Bus. Proc. Type	Update Mode	BPT Process Mode	Description
<input checked="" type="checkbox"/> ESC_MATDOC	Update Task (V1)	Active	Material Document in SAP R/3 Enterprise
<input type="checkbox"/> 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	Delivery Header Goods Receipt Event
Text:	Delivery GR	

General Data Control Tables Global Track & Trace Relevance

Sequencing / Destination

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

Data Setup

Event Function:	GTT_MIA_IDLV_HD_GR	Actual event Inbound Delivery Head
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Behavior

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

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

Bus. Proc. Type: ESC_MATDOC
Event Type: **GTT_EVT_IDLV_GR** Delivery Header Goods Receipt Event
Text: Delivery GR

Main Obj. Table: MATERIAL_HEADER
Master Table:

Old Main Obj. Table:
Old Master Table:

Reference Between Main and Master Table
First Field Reference from Main to Master Table

Caution:

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

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

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

Bus. Proc. Type: ESC_MATDOC
Event Type: **GTT_EVT_IDLV_GR** Delivery Header Goods Receipt Event
Text: Delivery GR

GTT Rel. Method: A Check Function (Function)
GTT Rel. Function: **GTT_MIA_IDLV_HD_GR** Relevance function for Actu

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**.

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_FT_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**.

Bus. Proc. Type:	ESC_DELIV	
Event Type:	<input type="text" value="GTT_EVT_IDLV_PA"/>	Delivery Item Put Away Event
Text:	Put Away Event	

General Data	Control Tables	Global Track & Trace Relevance
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Sequencing / Destination
Seq. No.: 10
HCI for GTT: <input type="text" value="GTTAPPLOGS"/> CI Tenant for GTT Standard APP

Data Setup
Event Function: <input type="text" value="GTT_MIA_IDLV_IT_PA"/> Actual event Inbound Delivery Item

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

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

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

Main Obj. Table: DELIVERY_ITEM_NEW
Master Table: DELIVERY_HEADER_NEW

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

First Field Reference from Main to Master Table
Uplink Field: VBELN Uplink Mode: R
Uplink Target Fld: VBELN Uplink Const:

Caution:

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

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

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

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

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

4.12 Purchase Order Extractor Configuration

4.12.1 Define Application Object Types for Purchase Order Header

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

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



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

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

4.12.4 Cross-processes for Purchase Order

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

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

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

4.13.3 Define Event Types for Inbound Delivery Header

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

4.13.4 Define Event Types for Inbound Delivery Item

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

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

4.13.5 Cross-processes for Inbound Delivery

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

4.14 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 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 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	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_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

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 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 Global Track and Trace
	Text	Delivery Item
General Data	Seq. No.	20
	CI for GTT	GTTAPPLOGS
	GTT Relevant	X
Control Tables	Main Obj. Table	DELIVERY_ITEM_NEW
	Master Table	DELIVERY_HEADER_NEW
	Del. Obj. Table	DELIVERY_ITEM_OLD
Control Tables – Reference Between Main and Master Table – First Field Reference from Main to Master Table	Uplink Field	VBELN
	Uplink Mode	R
	Uplink Target Fld	VBELN
Object Identification	AOID Method	Determine by Function
Object Identification – Application Object ID Source – Determine AOID by Function	AOID Extractor	GTT_SOF_AOID
Global Track & Trace Relevance	GTT Rel. Method	Check Function (Function Module)
	GTT Rel. Function	GTT_SOF_ODLV_IT_REL
Parameter Setup	TrkID Method	Determine by Function
	Trk. ID Function	GTT_SOF_ODLV_IT_TID
	Ctrl Data Function	GTT_SOF_ODLV_IT_OTE
	Planned Event Function	GTT_SOF_ODLV_IT_EE

4.15.3 Define Event Types for Outbound Delivery Header

Segment	Field	Value
Header	Bus. Proc. Type	ESC_DELIV
	Event Type	GTT_EVT_ODLV_GI



	Description	Delivery Goods Issue event
	Text	Goods Issue Event
General Data	Seq. No.	10
	HCI for GTT	GTTAPPLOGS
	Event Function	GTT_SOF_ODLV_GI
	GTT Relevant	X
Control Tables	Main Obj. Table	DELIVERY_HEADER_NEW
	Old Main Obj. Table	DELIVERY_HEADER_OLD
Global Track & Trace Relevance	GTT Rel. Method	Check Function (Function Module)
	GTT Rel. Function	GTT_SOF_ODLV_GI_REL

4.15.4 Define Event Types for Outbound Delivery Item

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

Segment	Field	Value
Header	Bus. Proc. Type	ESC_DELIV
	Event Type	GTT_EVT_ODLV_PI
	Description	Delivery Item Picking event



	Text	Picking Event
General Data	Seq. No.	10
	HCI for GTT	GTTAPPLOGS
	Event Function	GTT_SOF_ODLV_IT_PI
	GTT Relevant	X
Control Tables	Main Obj. Table	DELIVERY_ITEM_NEW
	Master Table	DELIVERY_HEADER_NEW
	Old Main Obj. Table	DELIVERY_ITEM_OLD
	Old Master Table	DELIVERY_HEADER_OLD
Control Tables – Reference Between Main and Master Table – First Field Reference from Main to Master Table	Uplink Field	VBELN
	Uplink Mode	R
	Uplink Target Fld	VBELN
Global Track & Trace Relevance	GTT Rel. Method	Check Function (Function Module)
	GTT Rel. Function	GTT_SOF_ODLV_PI_REL

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

4.15.5 Cross-processes for Outbound Delivery

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

4.16 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 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	Departure 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 Global Track and Trace
	Text	FU Header
General Data	Seq. No.	10
	CI for GTT	GTTAPPLOGS



	GTT Relevant	X
Control Tables	Main Obj. Table	TOR_ROOT
	Del. Obj. Table	TOR_ROOT
Object Identification	AOID Method	Determine by Function
Object Identification – Application Object ID Source – Determine AOID By Function	AOID Function	GTT_STS_AOID_TOR
Global Track & Trace Relevance	GTT Rel. Method	Check Function (Function Module)
	GTT Rel. Function	GTT_TS_FU_HD_REL
Parameter Setup	Trk.ID Method	Determine by Function
	Tr. Function	GTT_TS_FU_HD_TID
	Ctrl Data Function	GTT_TS_FU_HD_OTE
	Planned Event Function	GTT_TS_FU_HD_EE

4.17.2 Define Event Types for Freight Unit Header

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

Segment	Field	Value
Header	Bus. Proc. Type	TMS_TOR
	Event Type	GTT_EVT_TOR_COUPLE
	Description	FO/FB/FU Coupling Event
	Text	Coupling Event
General Data	Seq. No.	0
	HCI for GTT	GTTAPPLOGS
	Event Function	GTT_TS_TOR_COUPLING
	GTT Relevant	X



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

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

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

Segment	Field	Value
Header	Bus. Proc. Type	TMS_TOR
	Event Type	GTT_EVT_TOR_DELAY
	Description	FO/FB/FU Delay Event
	Text	Delay Event
General Data	Seq. No.	0
	HCI for GTT	GTTAPPLOGS



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

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

Segment	Field	Value
Header	Bus. Proc. Type	TMS_TOR
	Event Type	GTT_EVT_TOR_FU_DELAY
	Description	FU Delay Event
	Text	FU Delay Event
General Data	Seq. No.	0
	HCI for GTT	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

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

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

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

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

Segment	Field	Value
Header	Bus. Proc. Type	TMS_TOR
	Appl. Obj. Type	GTT_SHP_HD
	Description	Extract FO/FB information to 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	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_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

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 Coding Tips for Sales Order Relevant Extractor

To send the data of sales orders and outbound deliveries to GTT, you have two options:

- Create a new sales document type “ZGTT” via TCode “VOV8” and delivery type “LBNP” via TCode “OVLK” or “0VLK”
- Replace the sales document type and delivery type in interface “ZIF_GTT_SOF_CONSTANTS”.

5.2 Available Contexts for the Extractors’ Modules

5.2.1 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**

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

The screenshot shows the SAP Display View "Define Business Process Types": Overview. On the left, there is a tree view under "Dialog Structure" with nodes like "Define Business Process Types" and "Define Available Application Tables". The main area is titled "Define Business Process Types" and contains a table with three columns: "Business Process Type", "Update Mde", and "Description". The table lists various business process types, each associated with an "Update Task (V1)" entry and a corresponding description. Some descriptions include sub-points indicated by a small triangle icon.

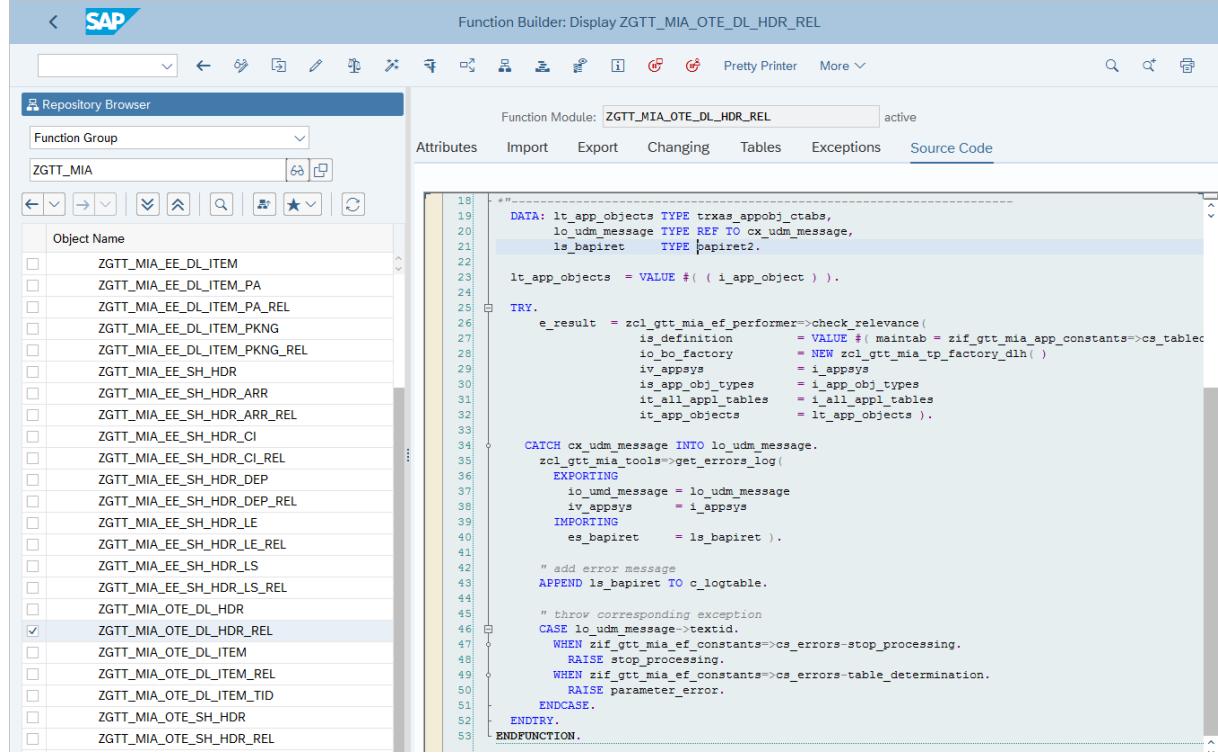
Business Process Type	Update Mde	Description
EPL_EQUIPMNT	Update Task (V1)	✓ Equipment in SAP R/3 Enterprise
EPL_INSPLOT	Update Task (V1)	✓ Inspection Lot in SAP R/3 Enterprise
EPL_NOTIF	Update Task (V1)	✓ Notification in SAP R/3 Enterprise
ESC_DELIV	Update Task (V1)	✓ Delivery in SAP R/3 Enterprise
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_WRKRC	Update Task (V1)	✓ Workorder Confirmation (Production, Service, Maintenance) in SAP R/3 Enterprise
ESC_WRKORD	Update Task (V1)	✓ Workorder (Production, Service, Maintenance) in SAP R/3 Enterprise
OCB10_ORDER	Update Task (V1)	✓ Booking Order in Ocean Carrier Booking Process
SNC_MSGIN	D_Dialog Update	✓ SNC Inbound messages

5.3 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.



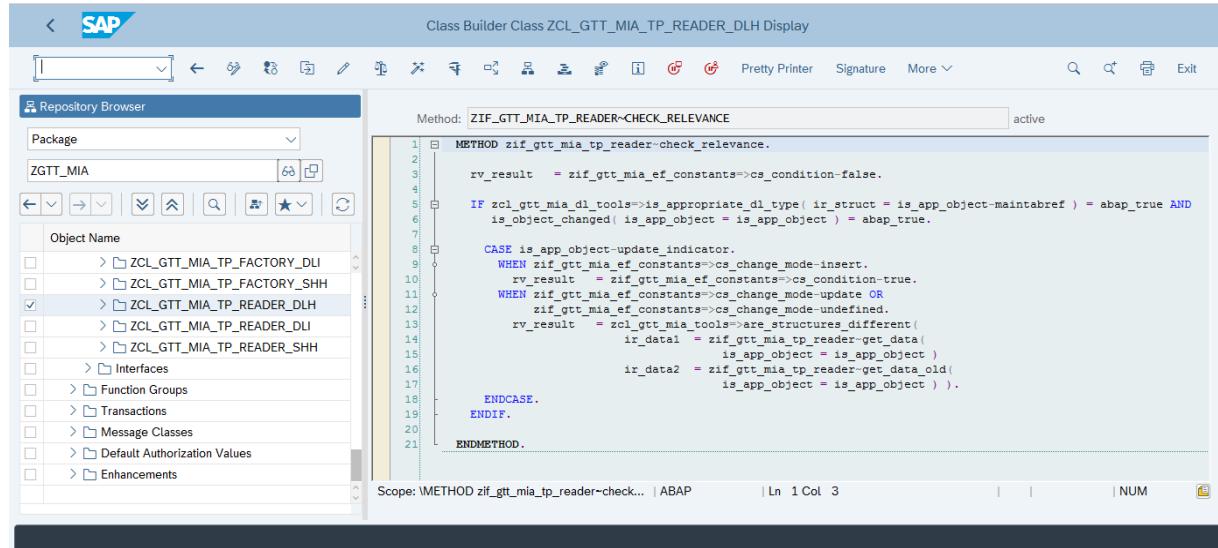
The screenshot shows the SAP Function Builder interface with the function module ZGTT_MIA_OTE_DL_HDR_REL selected. The code editor displays the following ABAP code:

```

18 DATA: lt_app_objects TYPE txras_appobj_ctabs,
19      lo_udm_message TYPE REF TO cx_udm_message,
20      ls_bapiret TYPE bapiret2.
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_tablec
27     io_bo_factory = NEW zcl_gtt_mia_tp_factory_dih( )
28     iv_appsyst = i_appsyst
29     is_app_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_appsyst = i_appsyst
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 METHOD 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_dl_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         zif_gtt_mia_ef_constants->cs_change_mode-undefined.
14         rv_result = zcl_gtt_mia_tools->are_structures_different(
15           ir_data1 = zif_gtt_mia_tp_reader->get_data(
16             is_app_object = is_app_object )
17           ir_data2 = zif_gtt_mia_tp_reader->get_data_old(
18             is_app_object = is_app_object ) .
19
20   ENDCASE.
21
ENDMETHOD.

```

5.4 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 following details:

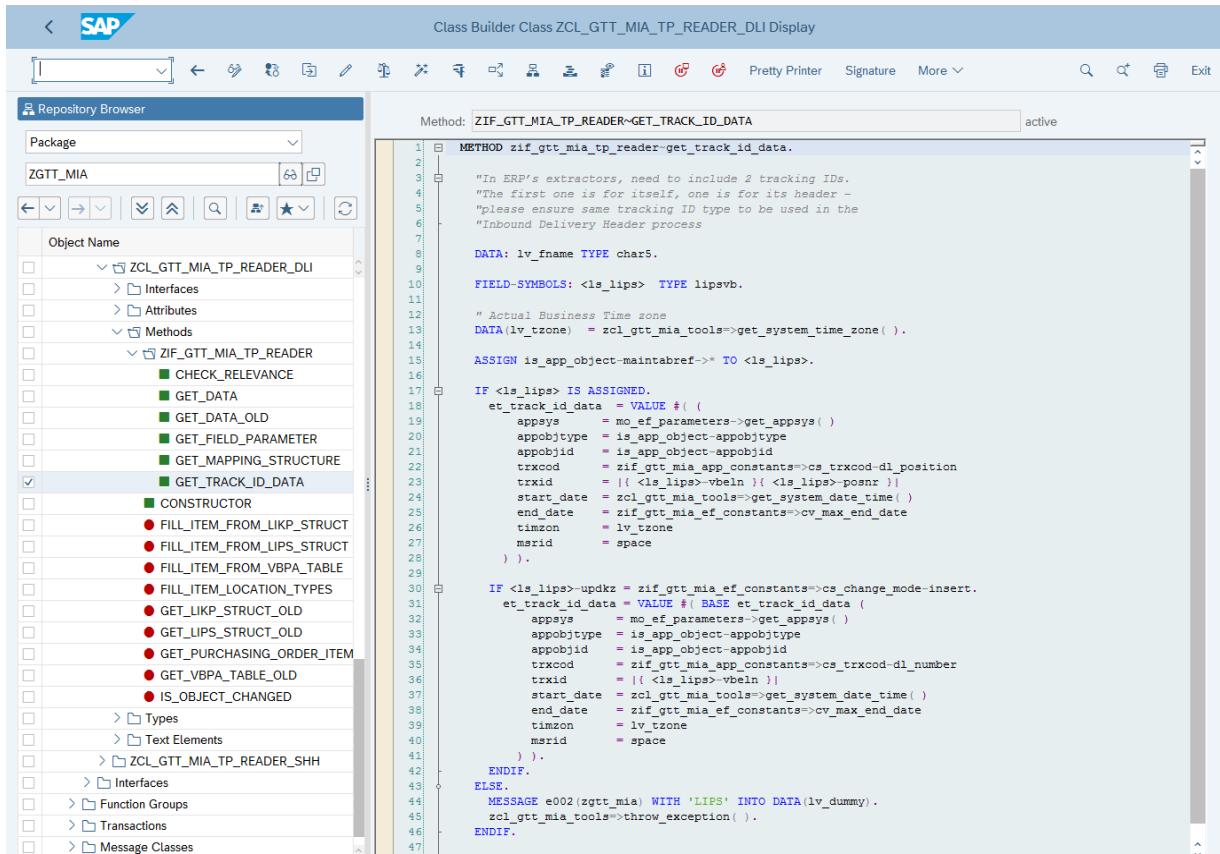
- Title Bar:** Function Builder: Display ZGTT_MIA_OTE_DL_ITEM_TID
- Toolbar:** Includes standard SAP icons for search, print, and exit.
- Repository Browser:**
 - Function Group: ZGTT_MIA
 - Object Name: ZGTT_MIA_OTE_DL_ITEM_TID (selected)
 - Other objects listed include: ZGTT_MIA_EE_DL_ITEM, ZGTT_MIA_EE_DL_ITEM_PA, ZGTT_MIA_EE_DL_ITEM_PA_REL, ZGTT_MIA_EE_DL_ITEM_PKNG, ZGTT_MIA_EE_DL_ITEM_PKNG_REL, ZGTT_MIA_EE_SH_HDR, ZGTT_MIA_EE_SH_HDR_ARR, ZGTT_MIA_EE_SH_HDR_ARR_REL, ZGTT_MIA_EE_SH_HDR_CI, ZGTT_MIA_EE_SH_HDR_CI_REL, ZGTT_MIA_EE_SH_HDR_DEP, ZGTT_MIA_EE_SH_HDR_DEP_REL, ZGTT_MIA_EE_SH_HDR_DEP_REL, ZGTT_MIA_EE_SH_HDR_DEP_REL, ZGTT_MIA_EE_SH_HDR_LS, ZGTT_MIA_EE_SH_HDR_LS_REL, ZGTT_MIA_OTE_DL_HDR, ZGTT_MIA_OTE_DL_HDR_REL, ZGTT_MIA_OTE_DL_ITEM, ZGTT_MIA_OTE_DL_ITEM_REL, ZGTT_MIA_OTE_DL_ITEM_TID (selected), ZGTT_MIA_OTE_SH_HDR, ZGTT_MIA_OTE_SH_HDR_REL, ZGTT_MIA_OTE_SH_HDR_REL, ZGTT_MIA_OTE_SH_HDR_TID, ZGTT_MIA_UPDATE_RELEVANCE_TAB.
- Function Module Details:**
 - Function Module: ZGTT_MIA_OTE_DL_ITEM_TID
 - Attributes, Import, Export, Changing, Tables, Exceptions, Source Code tabs are visible.
- Source Code View:**

```

19| DATA: lo_udm_message TYPE REF TO cx_udm_message,
20|       ls_bapiret TYPE bapiret.
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_appls           = i_appls
30|     is_app_obj_types  = i_app_obj_types
31|     it_all_appl_tables= i_all_appl_tables
32|     it_app_type_cncl_tabs= i_app_type_cncl_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_gtt_mia_tools->get_errors_log(
40|     EXPORTING
41|       io_udm_message = lo_udm_message
42|       iv_appls       = i_appls
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.

```
- Scope:** FUNCTION zgtt_mia_ote_dl_item_tid | ABAP
- Line Number:** Ln 19 Col 2

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 following details:

- Title Bar:** Class Builder Class ZCL_GTT_MIA_TP_READER_DLI Display
- Toolbar:** Includes standard SAP icons for file operations like New, Open, Save, Print, etc.
- Repository Browser:**
 - Package: ZGTT_MIA
 - Object Name: ZCL_GTT_MIA_TP_READER_DLI
 - Methods:
 - ZIF_GTT_MIA_TP_READER (selected)
 - CONSTRUCTOR
 - FILL_ITEM_FROM_LIKP_STRUCT
 - FILL_ITEM_FROM_VBPA_TABLE
 - FILL_ITEM_LOCATION_TYPES
 - GET_LIKP_STRUCT_OLD
 - GET_LIPS_STRUCT_OLD
 - GET_PURCHASING_ORDER_ITEM
 - GET_VBPA_TABLE_OLD
 - IS_OBJECT_CHANGED
 - Types, Text Elements, Interfaces, Function Groups, Transactions, Message Classes.
- Code Editor:**

```

1 METHOD zif_gtt_mia_tp_reader-get_track_id_data.
2
3   "In ERP's extractors, need to include 2 tracking IDs.
4   "The first one is for itself, one is for its header -
5   "please ensure same tracking ID type to be used in the
6   "Inbound Delivery Header process
7
8   DATA: lv_fname TYPE char5.
9
10  FIELD-SYMBOLS: <ls_lips> TYPE lipsvb.
11
12  " Actual Business Time zone
13  DATA(lv_tzone) = zcl_gtt_mia_tools->get_system_time_zone( ).
14
15  ASSIGN is_app_object-maintabref->* TO <ls_lips>.
16
17  IF <ls_lips> IS ASSIGNED.
18    et_track_id_data = VALUE #((
19      appsys = mo_ef_parameters->get_appsyst( )
20      appobjtype = is_app_object-appobjtype
21      appobjid = is_app_object-appobjid
22      trccod = zif_gtt_mia_app_constants->cs_trccod-dl_position
23      trxid = #( <ls_lips>-vbeln )( <ls_lips>-posnr )
24      start_date = zcl_gtt_mia_tools->get_system_date_time( )
25      end_date = zif_gtt_mia_ef_constants->cv_max_end_date
26      timzon = lv_tzone
27      msrid = space
28    )).
29
30  IF <ls_lips>-updckz = 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      trccod = zif_gtt_mia_app_constants->cs_trccod-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

```

5.5 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 function module "ZGTT_MIA_OTE_DL_ITEM" is selected. The code editor displays the following ABAP code:

```

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 #(          maintab = zif_gtt_mia_app_constants->cs_tabledef-dl_item_new
26                                     masterstab = zif_gtt_mia_app_constants->cs_tabledef-dl_header_new )
27
28   io_bo_factory      = NEW zcl_gtt_mia_tp_factory_dil( )
29   iv_apppsys         = i_apppsys
30   is_app_obj_types   = i_app_obj_types
31   it_all_appl_tables = i_all_appl_tables
32   it_app_type_cntl_tabs = i_app_type_cntl_tabs
33   it_app_objects     = i_app_objects
34
35   CHANGING
36     ct_control_data   = e_control_data[] .
37
38 CATCH cx_udm_message INTO lo_udm_message.
39   zcl_gtt_mia_tools->get_errors_log(
40     EXPORTING
41       io_udm_message = lo_udm_message
42       iv_apppsys    = i_apppsys
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
57 ENDTRY.
58
59 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" is selected. The code editor displays the following ABAP code:

```

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. Key visible elements include:

- Tracked Process:** InboundDelivery
- Integration Switch:** ON
- Standard Model Fields:** A table mapping fields from the tracked process to IDOC segments.

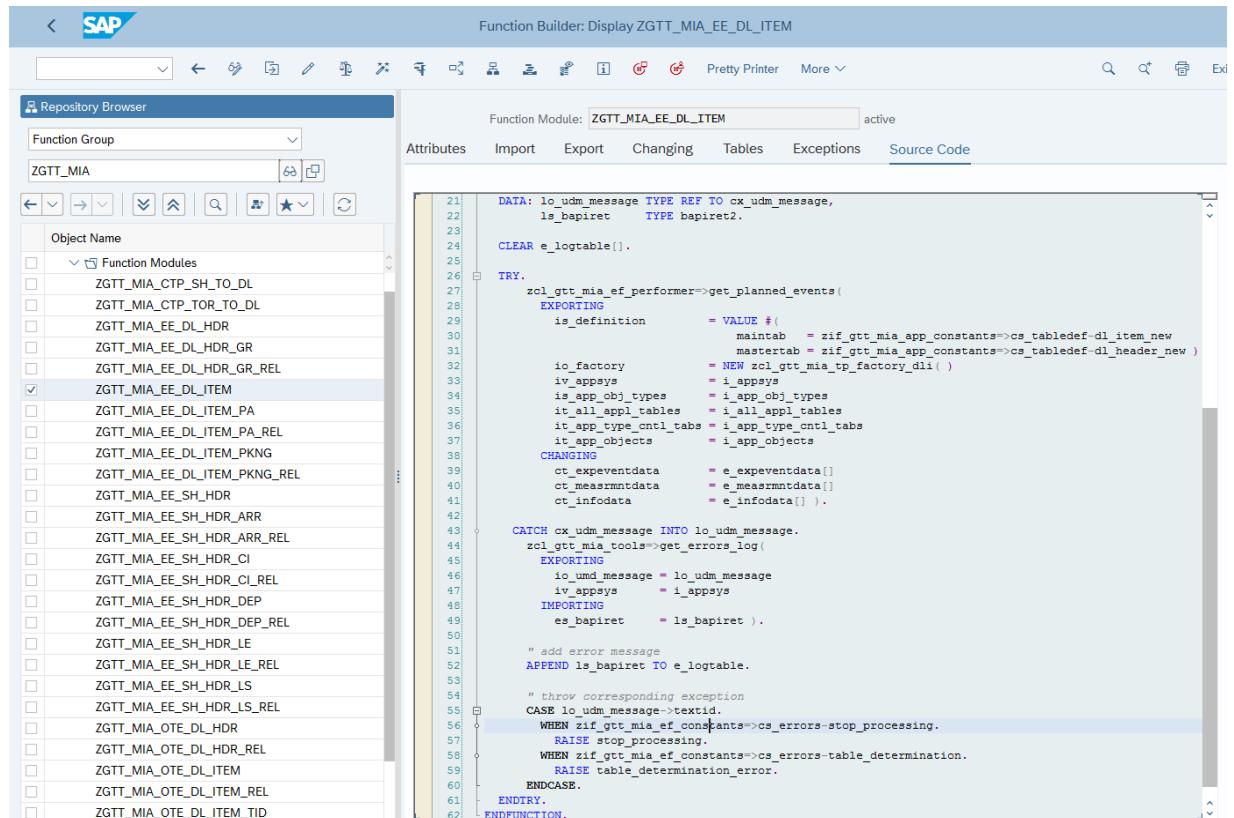
Field	IDOC Segment	IDOC Field
inboundDeliveryNo	E1EHPCP	YN_DL_DELEVERY
supplierId	E1EHPCP	YN_DL_VENDOR_ID
supplierLocationType	E1EHPCP	YN_DL_VENDOR_LOC_TYPE
plannedDeliveryDate	E1EHPCP	YN_DL_PLANNED_DLV_DATE
documentDate	E1EHPCP	YN_DL_DOCUMENT_DATE
totalWeight	E1EHPCP	YN_DL_TOTAL_WEIGHT
netWeight	E1EHPCP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

5.6 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:



The screenshot shows the SAP Function Builder interface with the title "Function Builder: Display ZGTT_MIA_EE_DL_ITEM". The function module "ZGTT_MIA_EE_DL_ITEM" is selected. The code editor displays the following ABAP code:

```

Function Module: ZGTT_MIA_EE_DL_ITEM active
Attributes Import Export Changing Tables Exceptions Source Code

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

CLEAR e_logtable[].

TRY.
  zcl_gtt_mia_ef_performer->get_planned_events(
    EXPORTING
      is_definition      = VALUE #( maintab = zif_gtt_mia_app_constants->cs_tabledef-dl_item_new
                                    masterstab = zif_gtt_mia_app_constants->cs_tabledef-dl_header_new )
      io_factory         = NEW zcl_gtt_mia_tp_factory_dli( )
      iv_appsystypes   = i_appsystypes
      is_app_obj_types  = i_app_obj_types
      it_all_appl_tables = i_all_appl_tables
      it_app_type_cntl_tabs = i_app_type_cntl_tabs
      it_app_objects    = i_app_objects
    CHANGING
      ct_expeventdata   = e_expeventdata[]
      ct_measrmntdata  = e_measrmntdata[]
      ct_infodata       = e_infodata[] ).
  CATCH cx_udm_message INTO lo_udm_message.
  zcl_gtt_mia_tools->get_errors_log(
    EXPORTING
      io_udm_message = lo_udm_message
      iv_appsystypes = i_appsystypes
    IMPORTING
      es_bapiret = ls_bapiret ).

  " add error message
  APPEND ls_bapiret TO e_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 table_determination_error.
  ENDCASE.
  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. The left pane displays the Repository Browser with the package ZGTT_MIA selected. Under Methods, the method ZIF_GTT_PE_FILLER~GET_PLANED_EVENTS is highlighted. The right pane shows the source code for this method:

```

METHOD zif_gtt_pe_filler-get_planed_events.
  DATA: lr_lips_data TYPE REF TO data.
  DATA(lo_relevance) = NEW zcl_gtt_mia_event_rel_dl_hd(
    io_ef_parameters = mo_ef_parameters
    is_app_objects = is_app_objects ).

  " initiate relevance flags
  lo_relevance->initiate( ).

  " store calculated relevance flags
  lo_relevance->update( ).

  lr_lips_data = mo_ef_parameters->get_appl_table(
    iv_tabledef = zif_gtt_mia_app_constants->cs_tabledef-dl_item_new ).

  add_gr_event_with_matck_key(
    EXPORTING
      is_app_objects = is_app_objects
      lr_lips_data = lr_lips_data
    CHANGING
      ct_expeventdata = ct_expeventdata
  ).

  add_planned_delivery_event(
    EXPORTING
      is_app_objects = is_app_objects
      io_relevance = lo_relevance
      iv_milestonenum = zcl_gtt_tools->get_next_sequence_id(
        it_expeventdata = ct_expeventdata
      )
    CHANGING
      ct_expeventdata = ct_expeventdata
  ).

```

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

The screenshot shows the SAP Manage Models app. The top navigation bar includes Model Details, Internal - Test, and tabs for Edit and Draft View. The main area shows the model gttft1 (Active). Below the model details, the Tracked Process Mapping section is visible. The **IDOC Integration** tab is highlighted with a red box.

Tracked Process Mapping

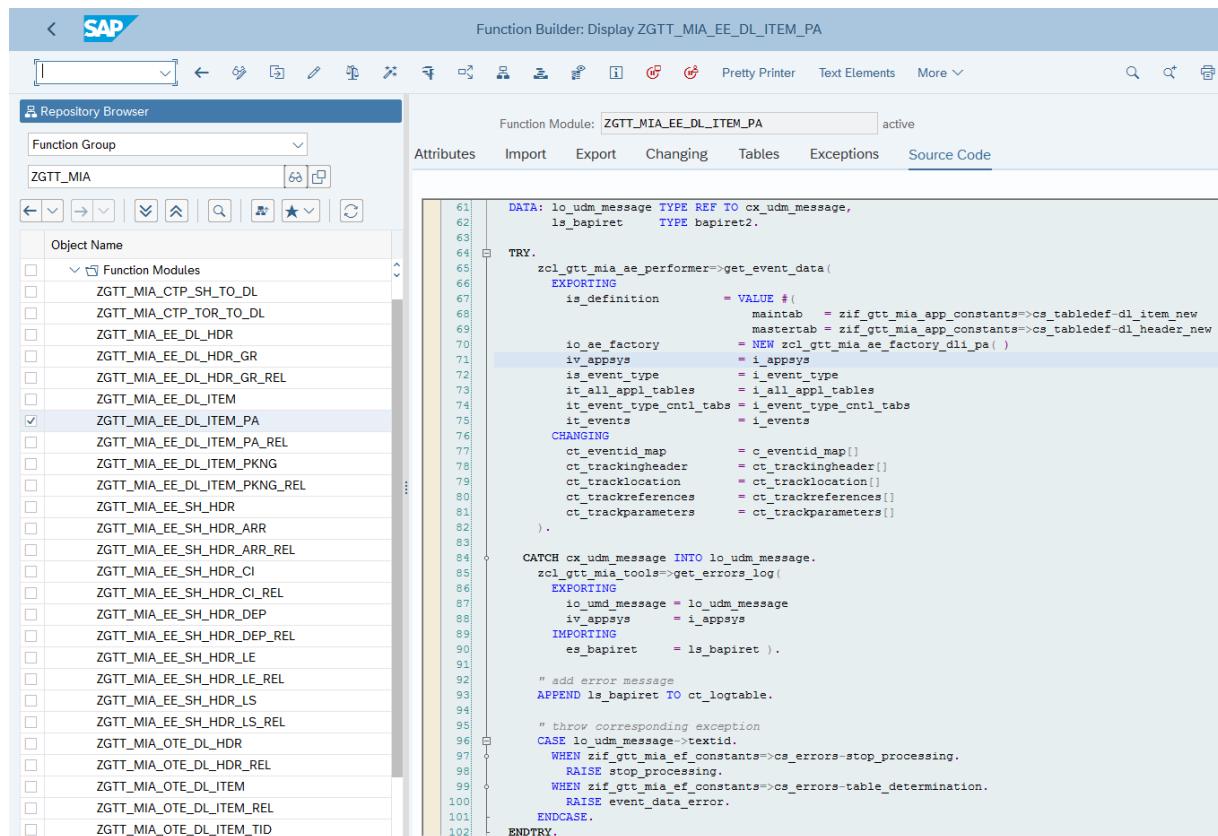
ERP Object Type:	Others	Application Object Type:	GTT_IDLV_HD
Tracked Process / Events (2)		Standard Model Fields	
Name	IDOC	Field	IDOC Segment
Tracked Process		reversal	E1EVMPAR
InboundDeliveryEvent	E1EHPAO		REVERSAL_INDICATOR
Event Types			
GoodsReceipt	E1EVMHDR02	GOODS_RECEIPT	

5.7 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 right pane displays the source code for the selected function module. The code is written in ABAP and includes sections for DATA, TRY, CHANGING, and CATCH. It uses various SAP objects like cx_udm_message, zcl_gtt_mia_ae_performer, and ct_trackingheader.

```

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

TRY.
  zcl_gtt_mia_ae_performer->get_event_data(
    EXPORTING
      is_definition      = VALUE #(          maintab   = zif_gtt_mia_app_constants->cs_tabledef_dl_item_new
                                    masterstab = zif_gtt_mia_app_constants->cs_tabledef_dl_header_new )
                                    = NEW zcl_gtt_mia_ae_factory_dli_pa( )
      io_ae_factory     = i_apps
      iv_apps
      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_error_log(
    EXPORTING
      io_udm_message = lo_udm_message
      iv_apps = i_apps
    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:

```

Class Builder Class ZCL_GTT_MIA_AE_FILLER_DLI_PA Display
Method: ZIF_GTT_AE_FILLER-GET_EVENT_DATA active

1 METHOD ZIF_GTT_AE_FILLER-GET_EVENT_DATA.
2   DATA:
3     lv_werks          TYPE werks_d,
4     lv_dlvitrxcod    TYPE /saptrx/trxcod.
5
6   DATA(lv_pa_quantity) = get_put_away_quantity( ir_data = is_events-maintabref ).
7
8   lv_dlvitrxcod = 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    lv_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_dlvitrxcod
19    evtcnt        = is_events-eventid
20    evtid         = zif_gtt_ef_constants->cs_milestone-dl_put_away
21    evtdat        = sy-datum
22    evttim        = sy-uzelt
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    evtcnt        = is_events-eventid
29  ) .
30

```



5.8 Enhancement Codes for Cross-processes Tracking

The Fulfillment Tracking apps ask for cross-processes tracking, which is used in the following cases:

1. When the inbound delivery process is updated and sent to GTT, the preceding purchase order item process, and its planned events need to be updated and sent to GTT.
2. When the outbound delivery process is updated and sent to GTT, the preceding sales order item process, and its planned events need to be updated and sent to GTT.
3. When the shipment process is updated and sent to GTT, the preceding inbound/outbound delivery and item process, and its planned events need to be updated and sent to GTT.
4. When the freight unit is updated and sent to GTT, the preceding inbound/outbound delivery and item process need to be updated and sent to GTT.

The cross-process tracking scenarios cover the following:

Shipment -> Inbound/Outbound Delivery and Inbound/Outbound Delivery Item:

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

5.9 Known Issue

5.9.1 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.

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:

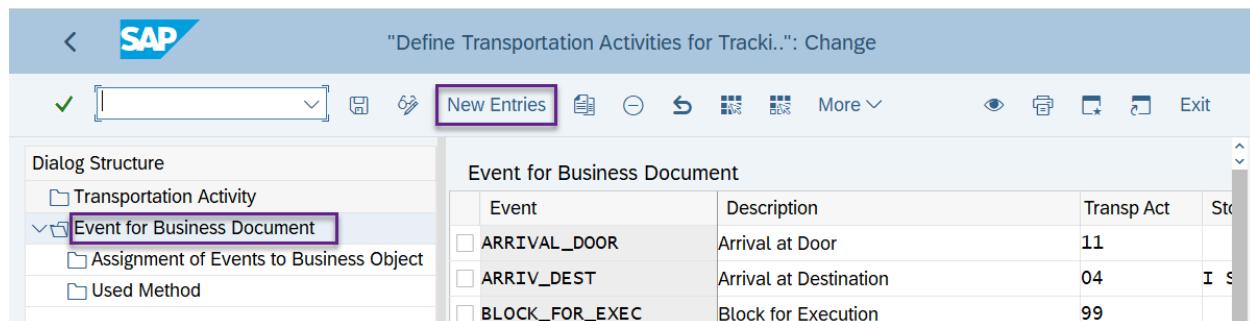
- Flight Booked
- Manifest Ready
- Received from Shipper
- Consignee Notified.

To define these unplanned events, do the following:

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

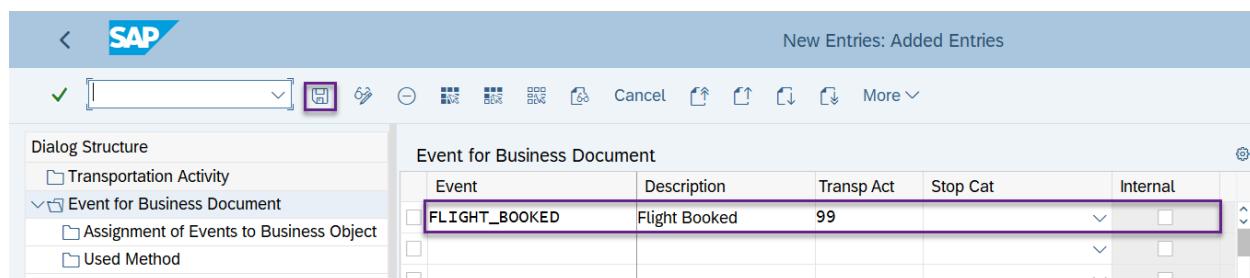
1. On the **Display IMG** page, click **Transportation Management-> Integration-> Tracking and Tracing of Processes and Documents-> Define Transportation Activities for Tracking and Tracing**.

2. Select **Event for Business Document** and click **New Entries**.



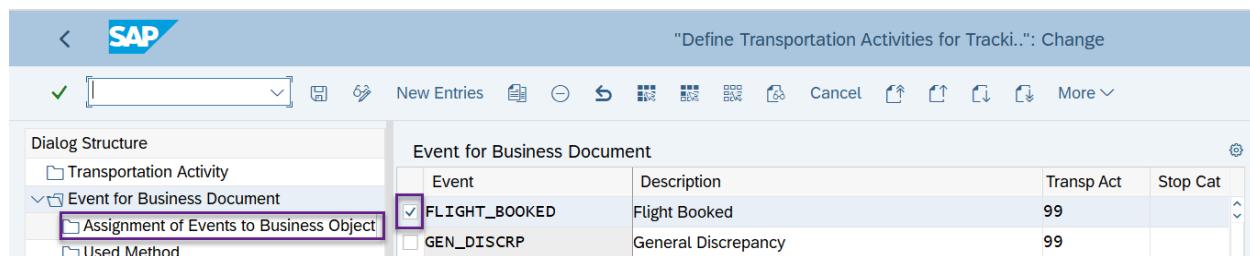
Event	Description	Transp Act	Stop Cat
ARRIVAL_DOOR	Arrival at Door	11	
ARRIV_DEST	Arrival at Destination	04	I S
BLOCK_FOR_EXEC	Block for Execution	99	

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



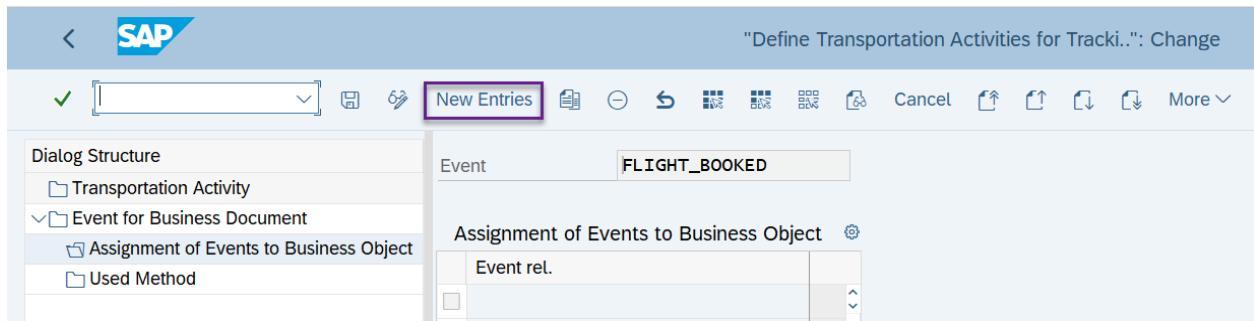
Event	Description	Transp Act	Stop Cat	Internal
FLIGHT_BOOKED	Flight Booked	99		

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

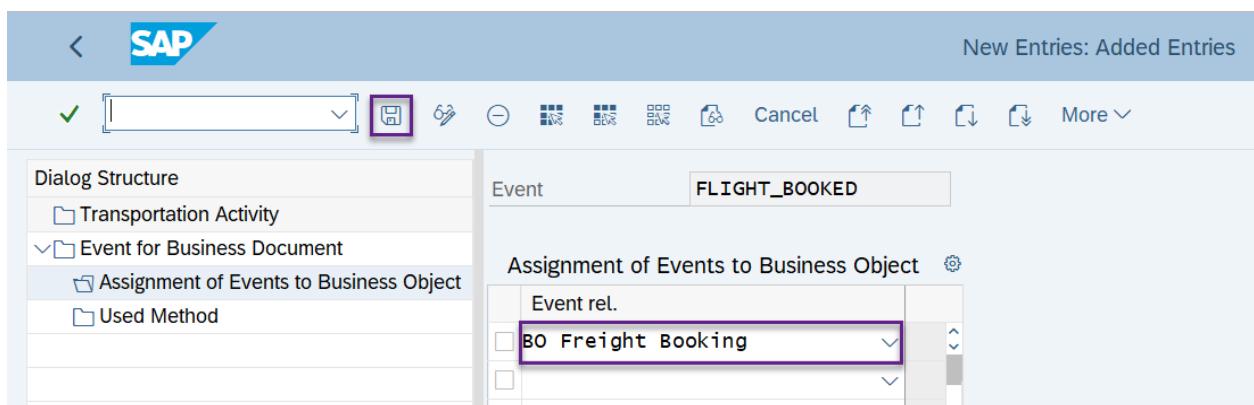


Event	Description	Transp Act	Stop Cat
FLIGHT_BOOKED	Flight Booked	99	
GEN_DISCRP	General Discrepancy	99	

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, we found that the freight unit / freight order / freight booking IDOC cannot be sent to GTT, 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.

- 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**.
- In the **Dialog Structure** section, choose **Direct Output Agents (w/o PPF & w/o History)**.
- Choose the entry shown in the screenshot and enable it.

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"/>

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

New BAdI

Enhancement Implementation: `ZGTT_STS_EI_SEND_TOR_DATA`

Classic BAdI

Implementation:

Display **Change**

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

BAdI Implementations

- ZGTT_STS_BI_SEND_TOR_DATA** Send TOR Data
- Implementing Class**

BAdI Implementation: **ZGTT_STS_BI_SEND_TOR_DATA**

Description: 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 BAdI Definition

BAdI 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 BAdI 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: **GTT_FU**

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**.)

- **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:	3 Execution Tracking with External Ev... <input type="button" value="▼"/>
Display Mode for Execution Tab:	Actual Events from TM and EM, Expe... <input type="button" value="▼"/>
Propagation Mode:	Standard Propagation <input type="button" value="▼"/>
Last Exp. Event:	UNLOAD_END
<input type="checkbox"/> 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:	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; width: 150px; height: 20px; border-radius: 5px; padding: 2px;" 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 “gtftt1” 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:	3 Execution Tracking with External Event M... ▾
Check Condition "Ready for Exec":	
Display Mode for Execution Tab:	Actual Events from TM and EM, Expected ... ▾
Expected Event for Goods Issue:	
Expected Event for Goods Receipt:	
Last Exp. Event:	ARRIV_DEST
<input type="checkbox"/> Immediate Processing	
Execution Propagation Mode:	Standard Propagation ▾
Discrepancy Profile:	

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:

Integration Settings

Dangerous Goods Profile:	DG1
Customs Profile:	
Document Creation Relevance:	
Delivery Profile:	
EWM Integr. Profile:	
Application Object Type:	GTT_SHP_HD
<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**, 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:	3 Execution Tracking with External Event Management
Display Mode for Execution Tab:	Actual Events from TM and EM, Expected Events from EM
Immediate Processing:	Life Cycle Is Not to Be Set to "In Process" Immediately
Expected Event for Goods Issue:	
Expected Event for Goods Receipt:	
Last Exp. Event:	UNLOAD_END
Execution Propagation Mode:	Standard Propagation
Check Condition "Ready for Exec":	
Discrepancy Profile:	

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

To send freight orders or freight bookings to GTT, do the following:

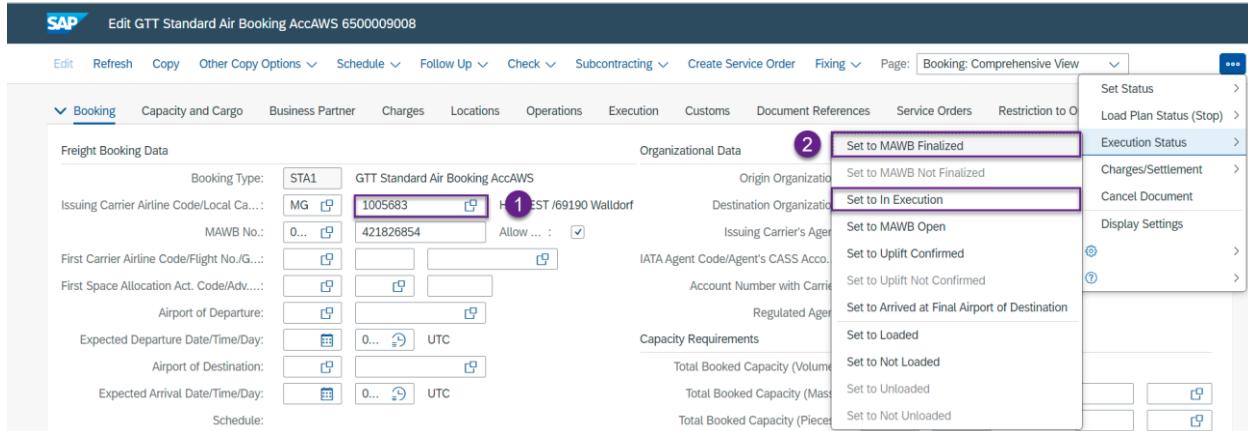
- Assign the carrier.
- Change the execution status.
 - For freight orders: in the **Execution Status** tab on the top, change the **Execution Status** to “Set to Ready for Transportation Execution” or “Set to In Execution”.

Edit GTT Standard Freight Order Type AccAWS 6100063618

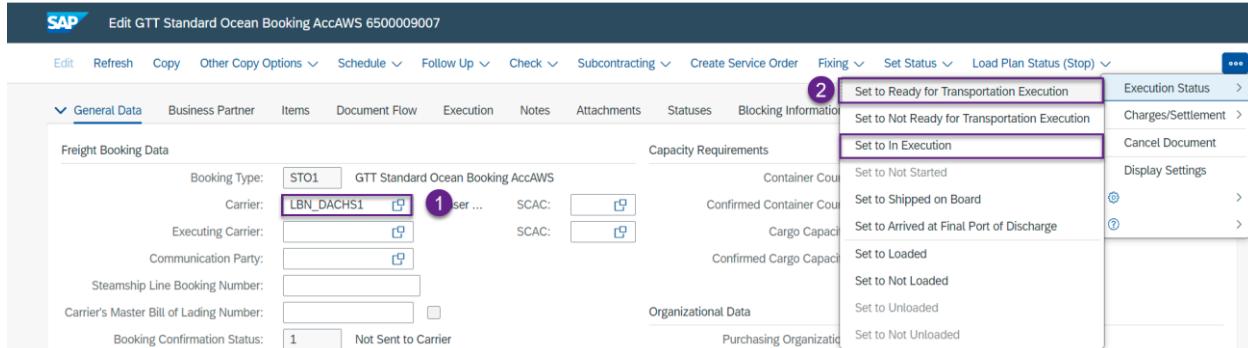
General Data	Business Partner	Items	Overview	Stages	Utilization	Subcontracting	...	Set Status	...	Display Settings
Truck								2	Set to Ready for Transportation Execution			
Means of Transport:									Set to In Execution			
Vehicle:												
Registration Country/Region No.:												
Total/Consumed/Remaining Capacity...:		2,000			KG							
Total/Consumed/Remaining Capacity...:			20			M3						
Maximum Utilization:												
Cargo Information												
Cargo Weight:		2,000			KG							
Cargo Volume:			20		M3							
Quantity:			20		EA							
Total Weight:			2,000		KG							
General Information												
Document Type:	STR1	GTT Standard Freight Order Type AccAWS										
Description:	GTT Standard Freight Order Type Ac...											
Origin of Freight Order:	Manual Creation											
								1	Carrier: LBN_CAR100			
									Executing Carrier:			
									Communication Party:			
									Service Level – Carrier:			
									SCAC:			
									SCAC:			



- 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".



Q2: How to add customized planned event types for GTT?

Suppose you want to add the planned event type "picking complete" for the outbound delivery tracked process, do the following:

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

- a. Launch the Manage Models app and go to the GTT standard model "gttft1".
- b. 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](#).
- c. Assign the newly created event type to the Outbound Delivery 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.
- d. Configure the IDOC mapping
 - Click **Edit** on the top. In the **IDOC Integration** tab, for **Tracked Process** field, choose "OutboundDelivery" from the dropdown list.
 - Under **Tracked Process / Events**, fill in **IDOC** and **Event Code** for the newly created event type.
Note: the event code must start with "ZZ".

- e. 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

- a. Navigate to the function module "ZGTT_SSOF_EE_DE_HD (Selection of EEs for Outbound Delivery Header)" in the system.
- b. Add the planned event type that you created in the Manage Models app as milestone event. For coding tips, see chapter [5.6](#) 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.

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