FAQs for Track Shipments Template App

SAP Logistics Business Network, Global Track and Trace Option

October 2021

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1. 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?

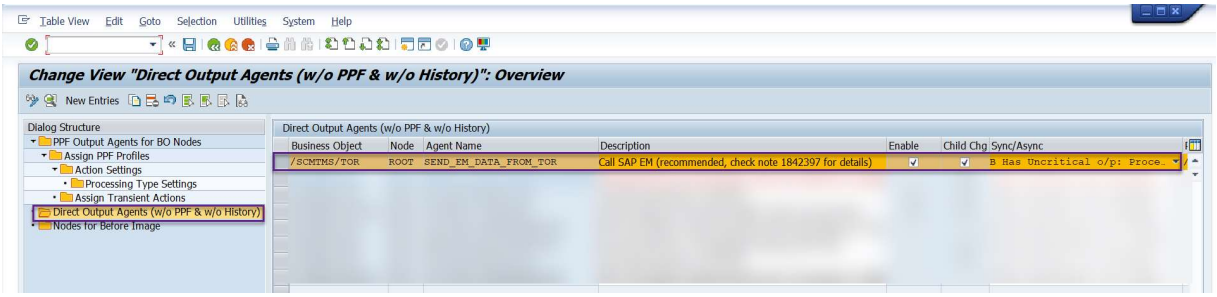
Step 1: Check the integration of SAP TM and SAP EM

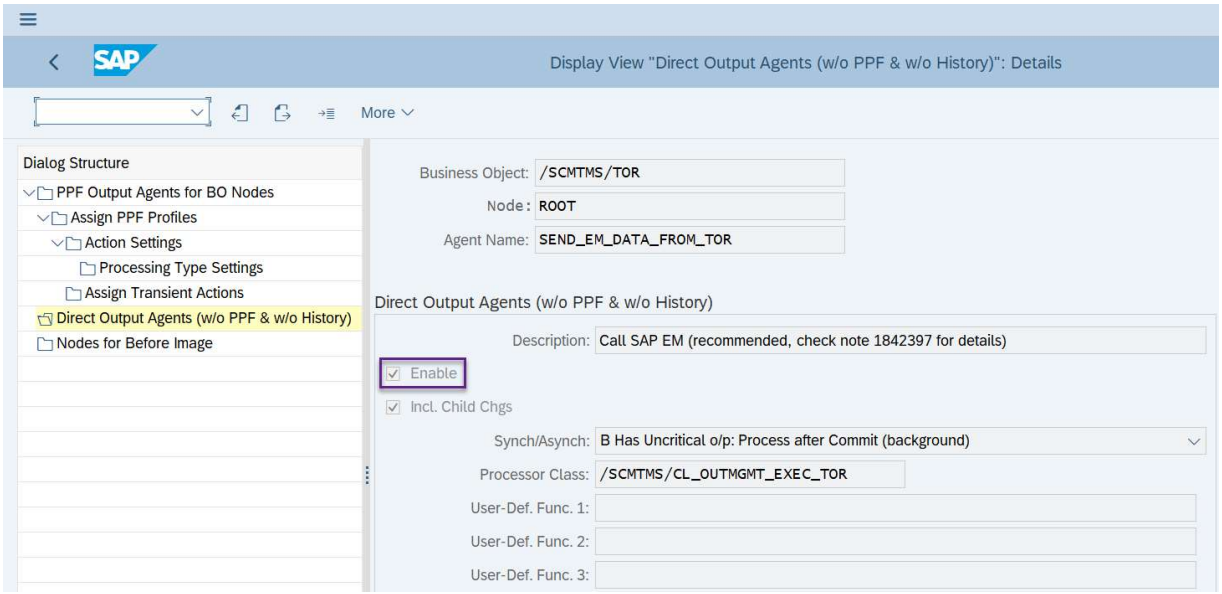
The Post Processing Framework (PPF) is used to trigger the communication from SAP Transportation Management (SAP TM) to SAP Event Management (SAP EM). You need to maintain the output management adapter for this communication to work.

a. Log onto SAP Business Client, enter T-code `SPRO` and then click SAP Reference IMG to open the Display IMG page. Go to node Cross-Application Components -> Processes and Tools for Enterprise Applications -> Reusable Objects and Functions for BOPF Environment -> PPF Adapter for Output Management -> Maintain Output Management Adapter Settings.

b. In the Dialog Structure section, choose Direct Output Agents (w/o PPF & w/o History).

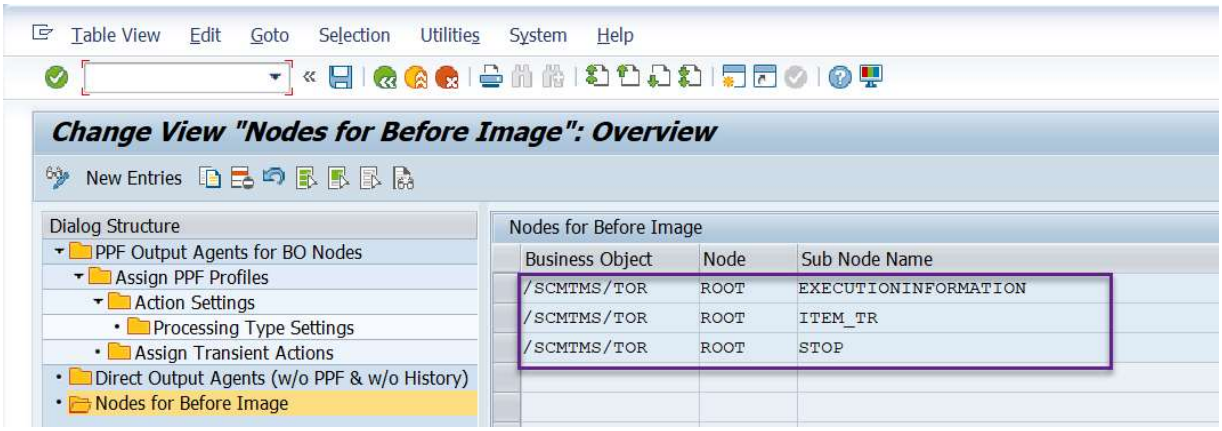
c. Choose the entry shown in the screenshot and enable it.





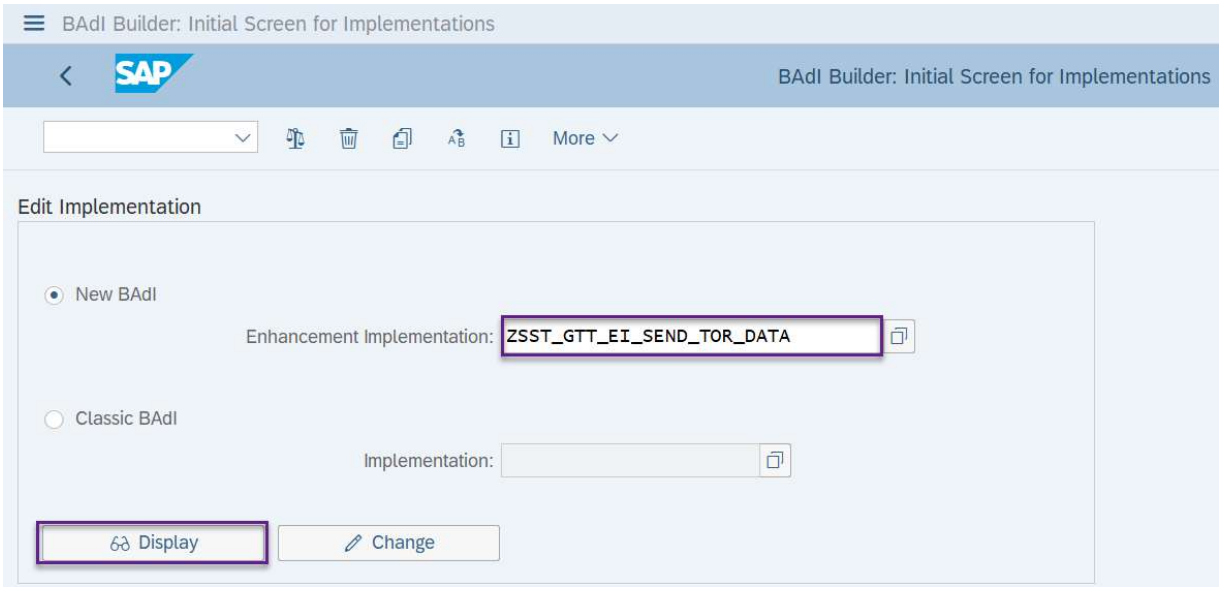
d. In the Dialog Structure section, choose Nodes for Before Image.

e. Create the following three entries:

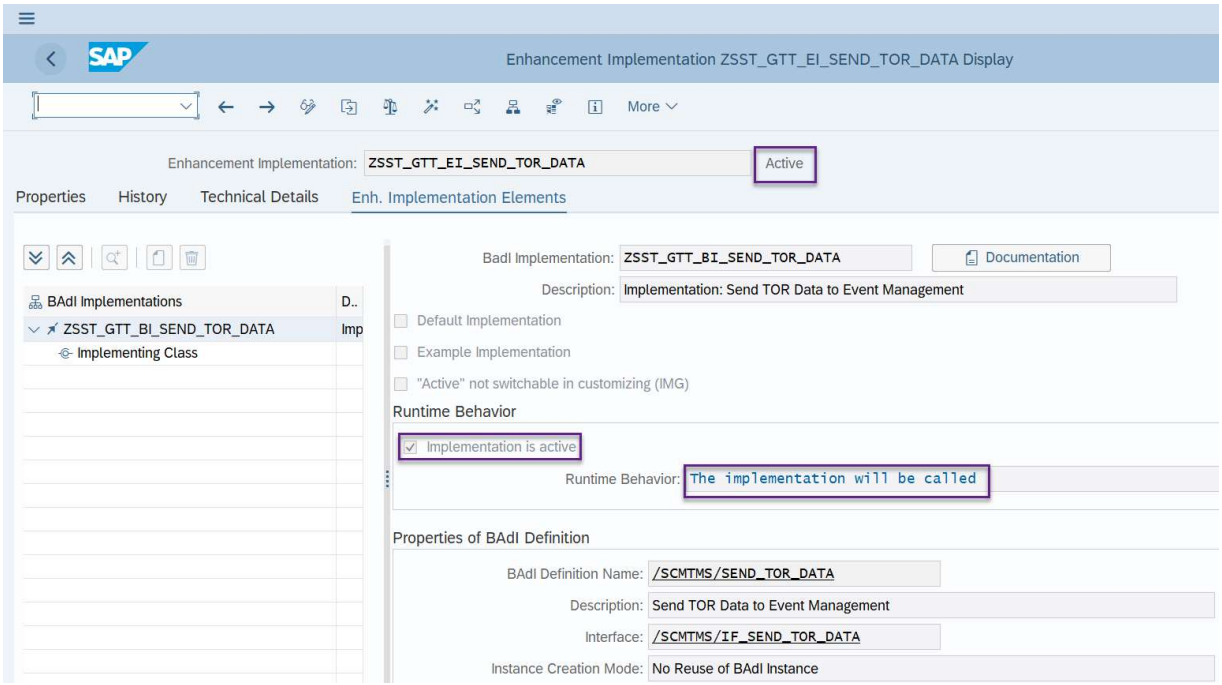


Step 2: Check the trigger point of the generation of freight unit / freight order / freight booking IDOC

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



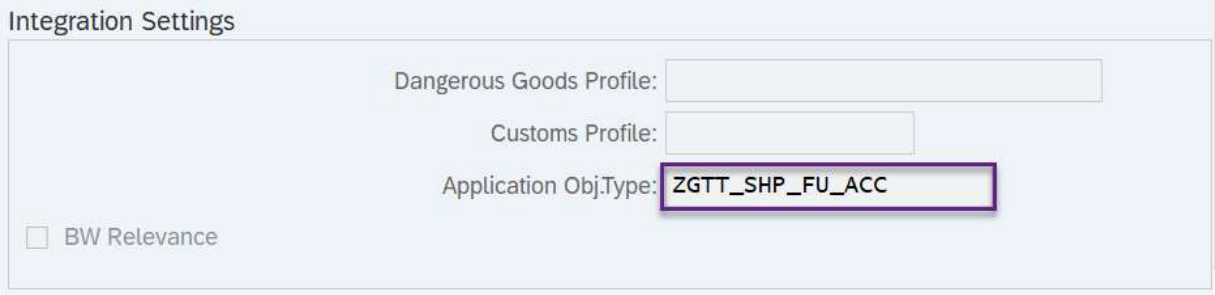
b. Ensure that the Enhancement Implementation “ZSST_GTT_EI_SEND_TOR_DATA” is active. In the Enh. Implementation Elements tab, ensure that BAdI Implementation “ZSST_GTT_BI_SEND_TOR_DATA” is active.



Step 3: Check the freight unit type settings

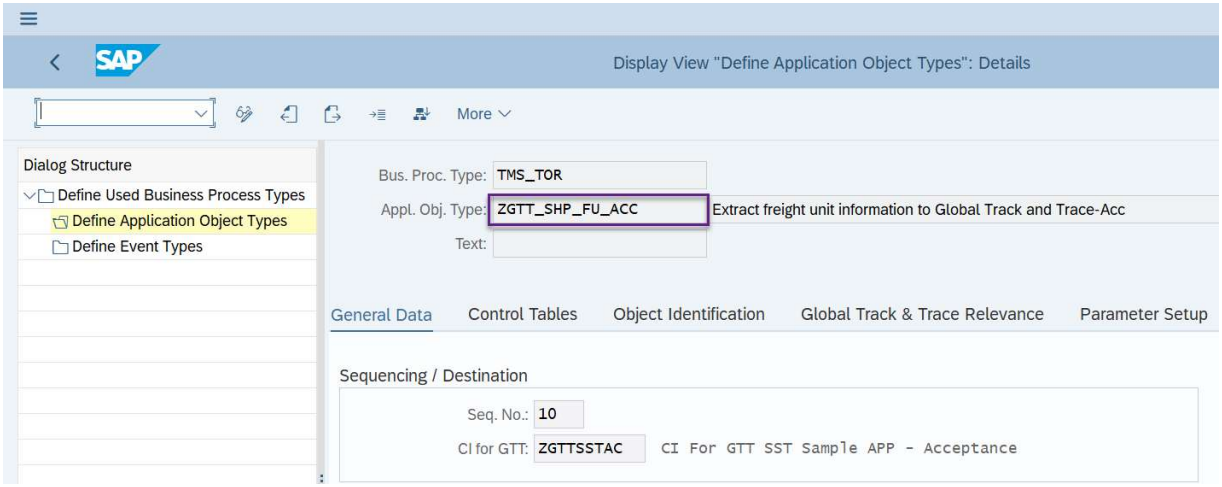
a. On the IMG, go to SAP Transportation Management -> Transportation Management -> Planning -> Freight Unit -> Define Freight Unit Types.

b. 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.

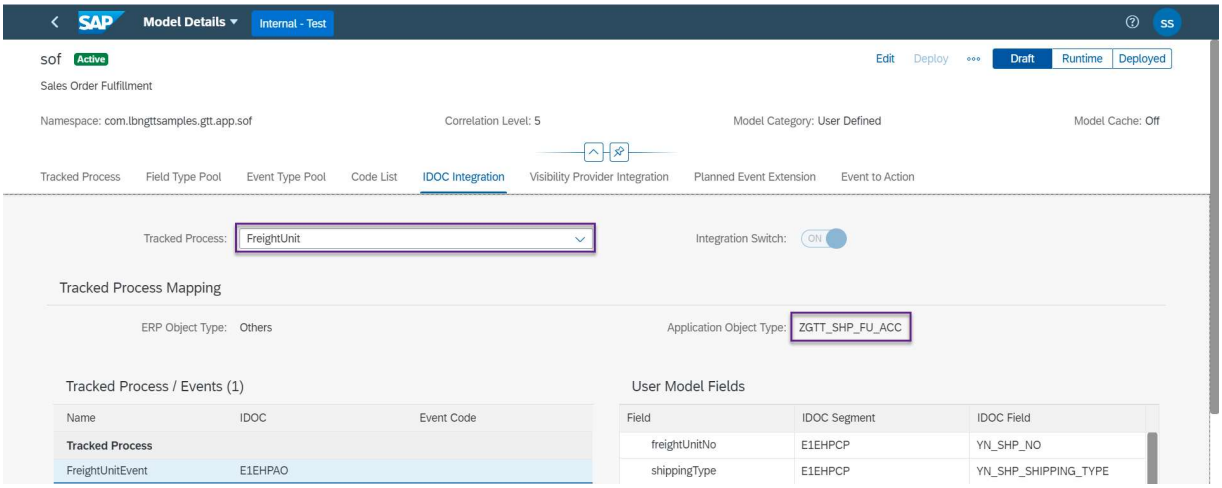


Note: the value of Application Obj.Type shown in the screenshot is just an example. Make sure the value you filled in is the same as the ones in the other two fields:

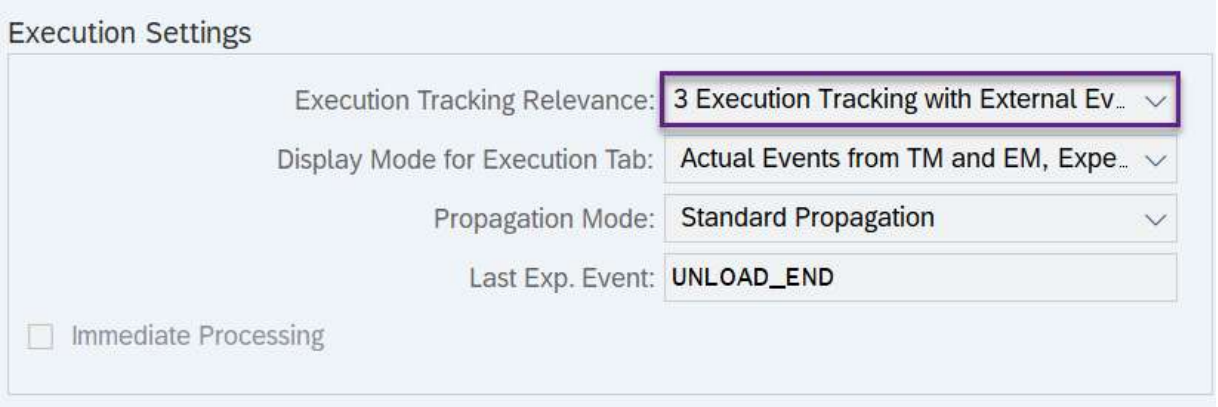
- Appl.Obj.Type field
  (Navigation Path: IMG->Integration with Other SAP Components->
  Interface to Global Track and Trace -> Define Application Interface, choose Define Used Business Process Types, Appl. Object Types and Event Types.
  In the table, choose Business Process Type TMS_TOR and click Define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



- Application Object Type field in the “sof” model in the Manage Models app.

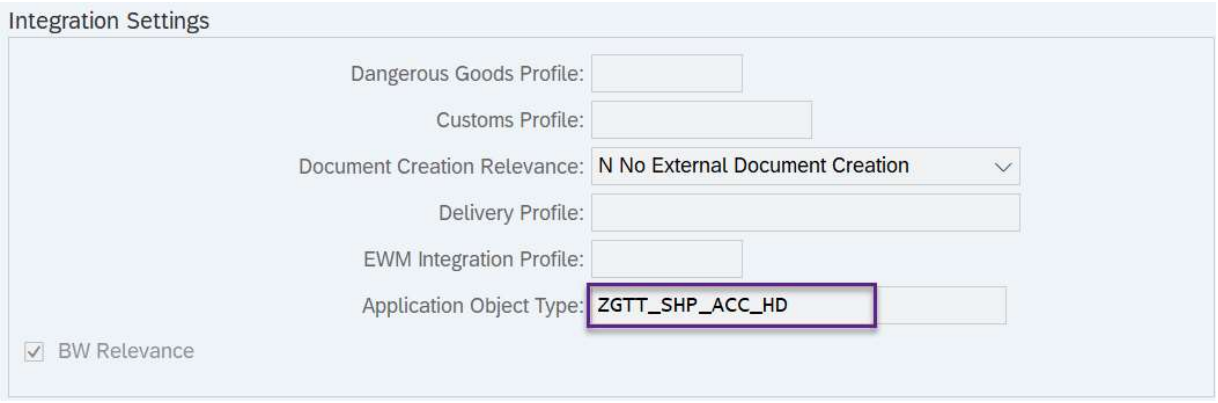


- In the Execution Settings, the Execution Tracking Relevance field is set to “Execution Tracking with External Event Management”.



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.

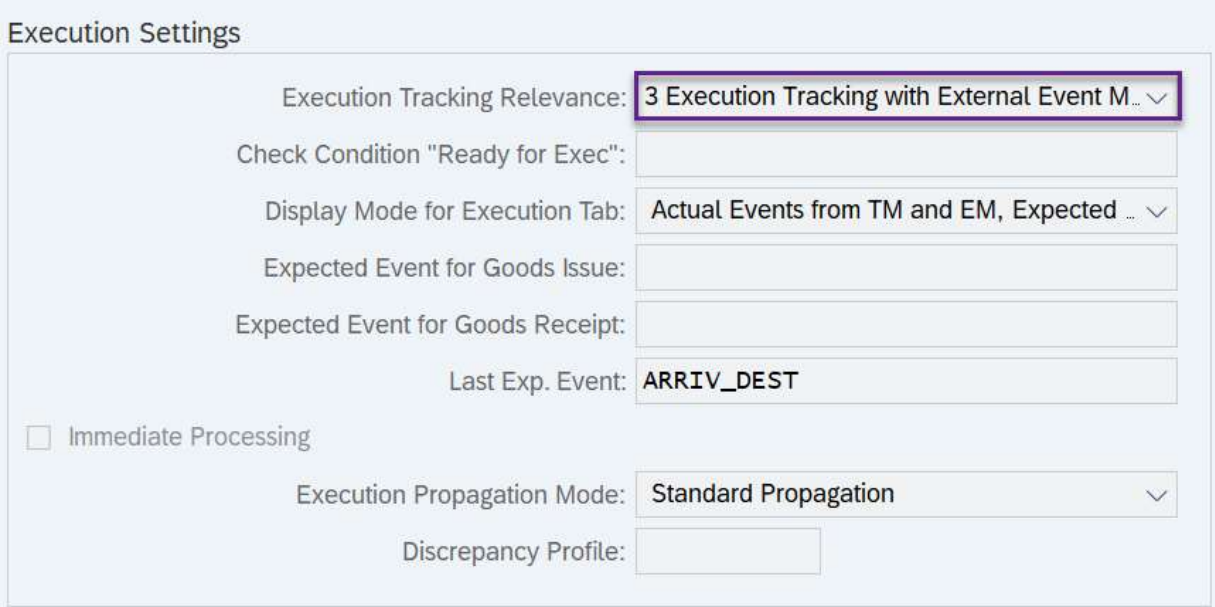


Note: the value of Application Obj.Type shown in the screenshot is just an example. Make sure the value you filled in is the same as the ones in the other two fields:

- 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.)

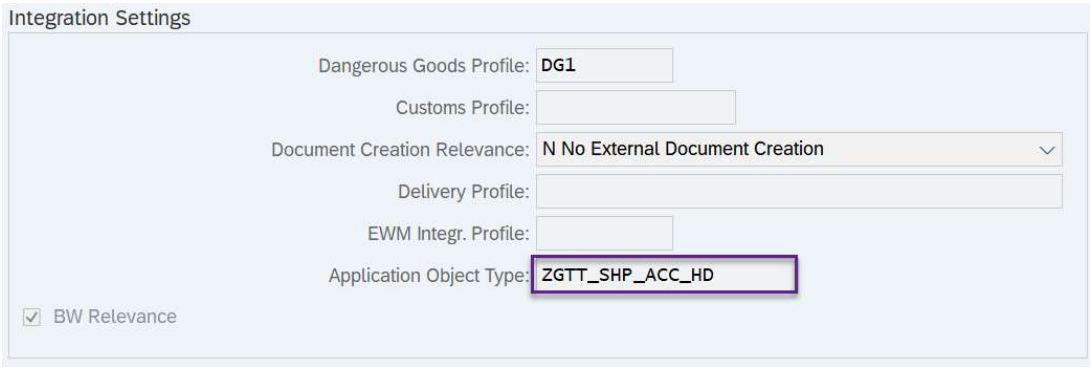
- Application Object Type field in the “sof” model in the Manage Models app.

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



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.



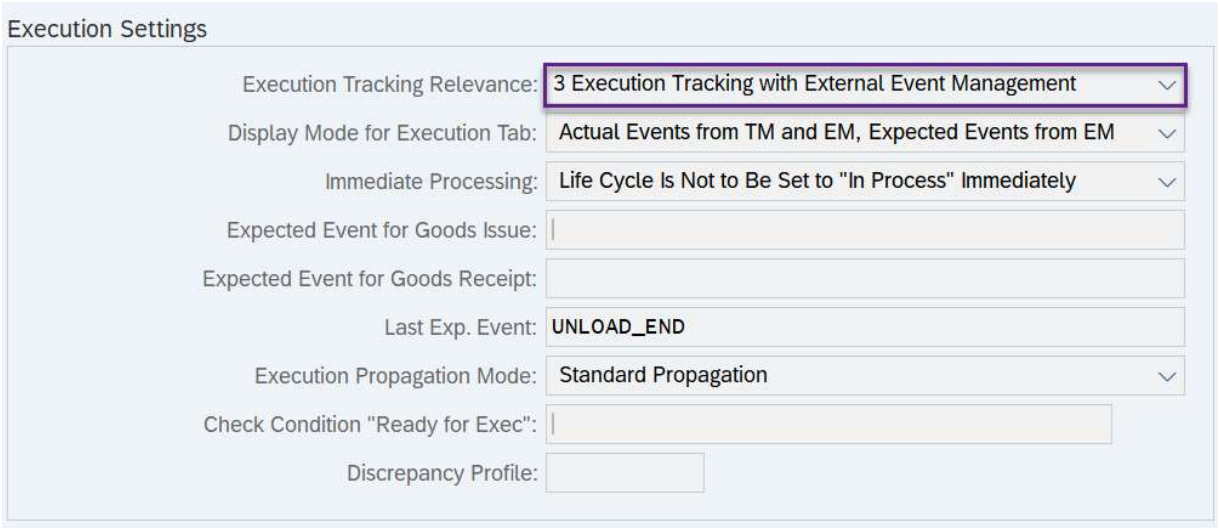
Note: the value of Application Obj.Type shown in the screenshot is just an example. Make sure the value you filled in is the same as the ones in the other two fields:

- 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 “sof” model in the Manage Models app.

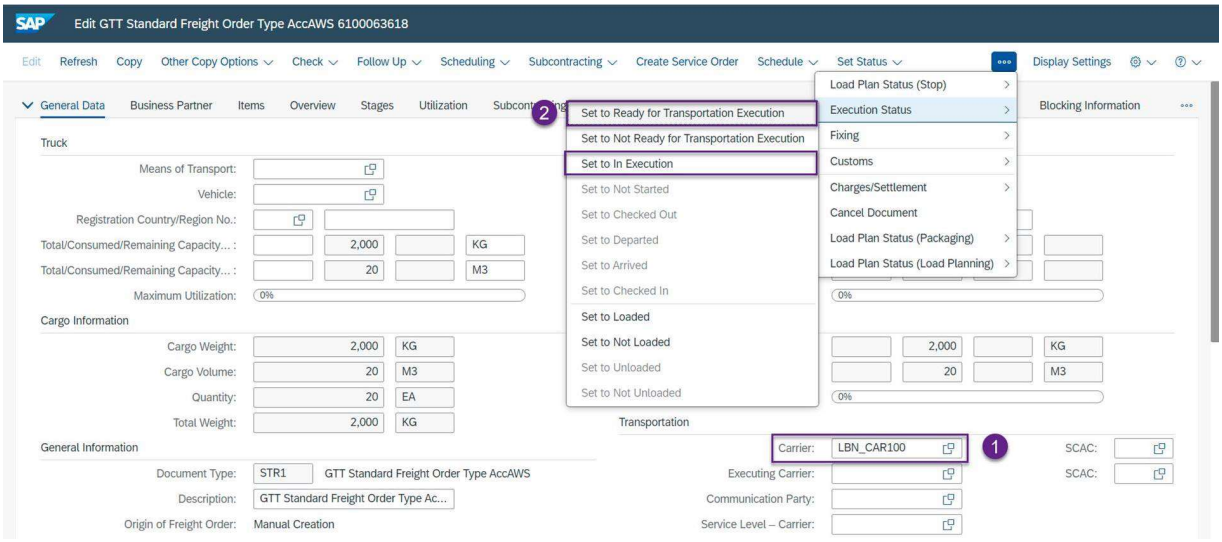
- In the Execution Settings, the Execution Tracking Relevance field is set to “Execution Tracking with External Event Management”.



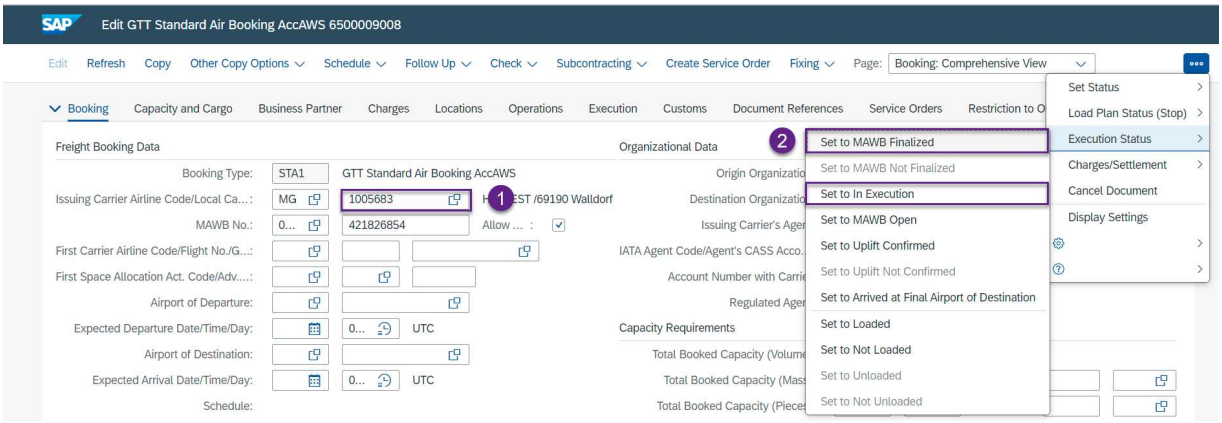
Step 6: Check the freight order / freight booking master data

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

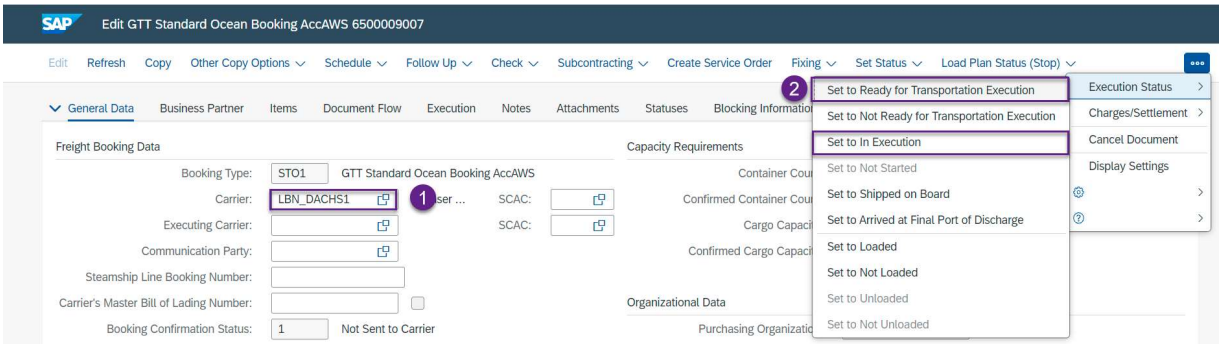
a. Assign the carrier.
b. Change the execution status.
   - For freight orders: in the Execution Status tab on the top, change the Execution Status to “Set to Ready for Transportation Execution” or " Set to In Execution".



- 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".



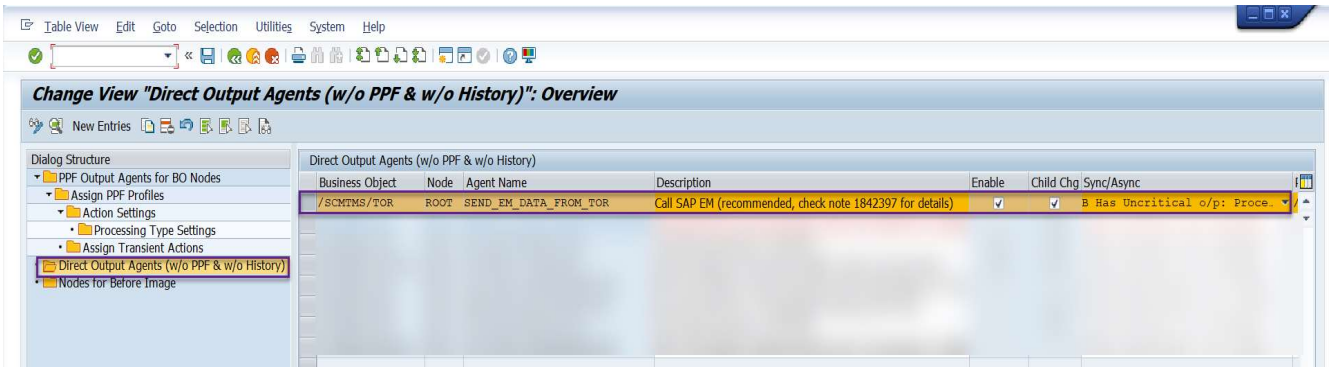
2. Are there easier ways to debug the generation of freight unit / freight order / freight booking IDOC?

Yes, there are two ways.

Option 1: Debug in PPF asynchronous mode

In the IMG, go to node Cross-Application Components ->
Processes and Tools for Enterprise Applications ->
Reusable Objects and Functions for BOPF Environment -> PPF Adapter for Output Management ->
Maintain Output Management Adapter Settings.

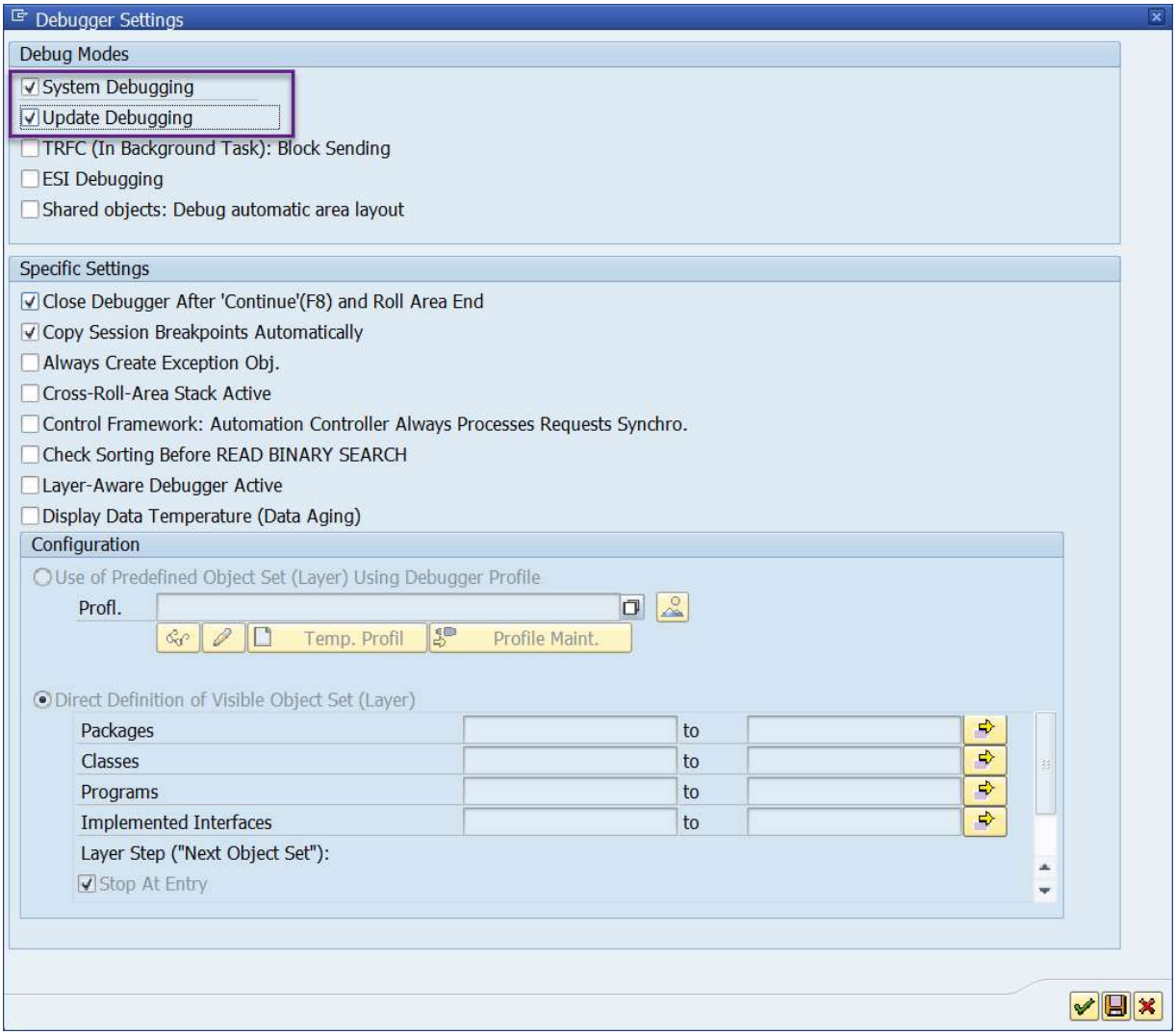
In the Dialog Structure section, choose Direct Output Agents (w/o PPF & w/o History). Ensure that the following entry is enabled:



Note: in this entry, the value of Synch/Asynch column is “B Has Uncritical o/p Process after Commit (background)”.

Debug procedures are as follows:

1) Activate "System Debugging" and "Update Debugging ".



2) Set a break point in method /SCMTMS/IF_SEND_TOR_DATA~CALL_EVENT_MGR of the BAdI implementing class ZSST_GTT_CL_SEND_TOR_DATA and start the debugging.

Option 2: Debug in PPF synchronous mode

On the IMG, go to node Cross-Application Components ->
Processes and Tools for Enterprise Applications ->
Reusable Objects and Functions for BOPF Environment -> PPF Adapter for Output Management ->
Maintain Output Management Adapter Settings.

In the Dialog Structure section, choose Direct Output Agents (w/o PPF & w/o History). Ensure that the following entry is enabled:

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

Now you can set a break point in method /SCMTMS/IF_SEND_TOR_DATA~CALL_EVENT_MGR of the BAdI implementing class ZSST_GTT_CL_SEND_TOR_DATA and start the debugging.