PUBLIC

# Implementation Guide for Tracking via Tracking Unit and Reference Document in the TM Scenario

**SAP Business Network Global Track and Trace**

**November 2022**

THE BEST RUN SAP

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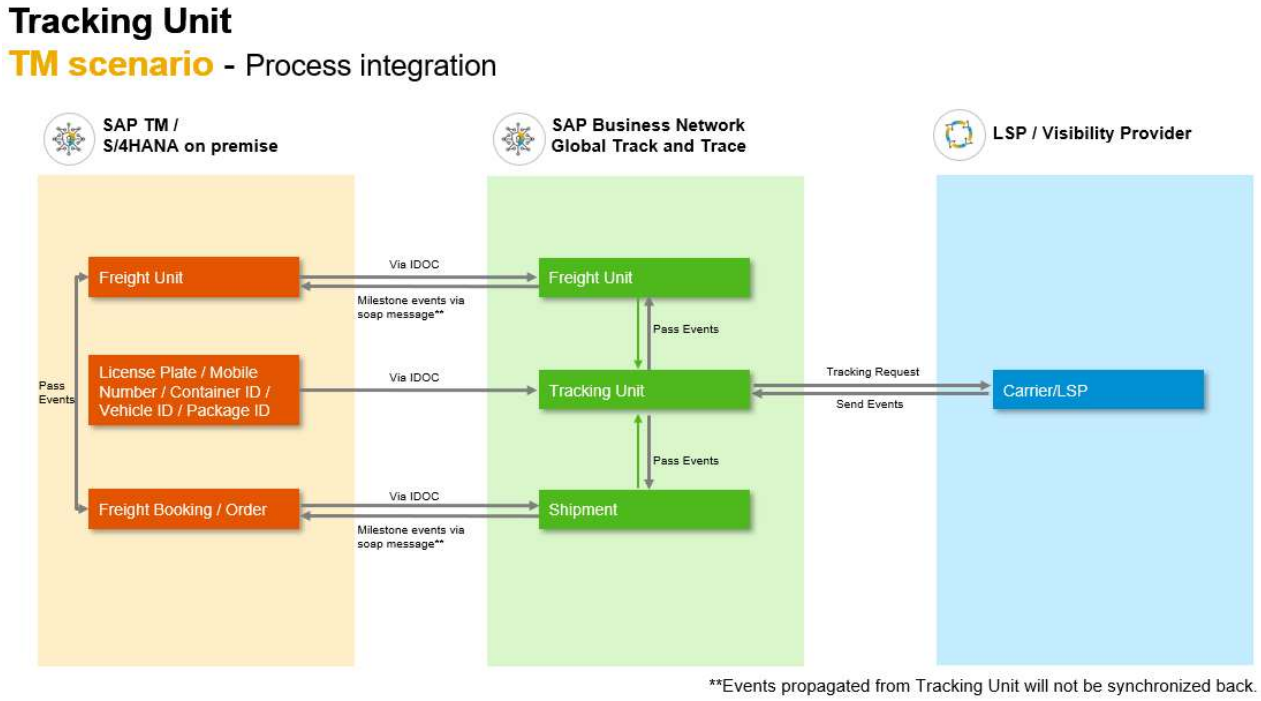
## 1. ABOUT THIS DOCUMENT

This implementation guide describes how to configure the extractors and maintain freight documents in SAP TM for different tracking scenarios. The successful configuration does not indicate that the end-to-end tracking is enabled. To achieve that, you might also need support from visibility providers or logistics service providers.

## 2. TRACKING VIA TRACKING UNIT

In the TM scenario, you can track the shipments and freight units via tracking unit. The tracking unit is introduced as a standard tracked process in the GTT system, referring to the tracked objects that will be sent to visibility providers or logistics service providers for tracking the shipments and freight units, such as license plate, container ID, external package ID, etc. Both freight unit and freight order/freight booking observe the tracking unit. The process integration flow is as follows:




To support this tracking scenario, you need to configure extractor settings and maintain tracking objects information on freight documents in SAP TM.

### Prerequisite

Before you can maintain tracked objects information on freight documents in SAP TM, you must introduce new text types **CONT**, **MOBL** and **EPKG**. To do so, you must perform the following:

a. Navigate to the **Text Type** section in **Customizing for Cross-Application Components**, under **Processes and Tools for Enterprise Applications > Reusable Objects and Functions for BOPF Environment > Dependent Object Text Collection > Maintain text Schema**.

b. Create entries with the **Text Type** and **Description** as follows:

| Text Type | Description |
|---|---|
| CONT | Container ID |
| MOBL | Mobile Phone |
| EPKG | External Package ID |

c. Navigate to the **Text Schema** section. Create a new text schema “TORITM” with the description “TOR Item Text Schema”. Select the text schema “TORITM” and double click on 'Assign Text Schema to BO and Node'. Create a new entry as follows:

| Business Object Name | BO Node Name |
|---|---|
| /SCMTMS/TOR | ITEM_TR |

d. Select the **DEFAULT** text schema for **CONT** and **MOBL** text types, and **TORITM** text schema for **EPKG** text type.

e. Navigate to the **Text Type** to **Text Schema Assignment** section.

f. Check if you have assigned the text type **CONT** and **MOBL** to the **DEFAULT** text schema, and **EPKG** to the **TORITM** text schema. If they are not yet assigned, assign them with the following attributes: Deselect the following checkboxes:

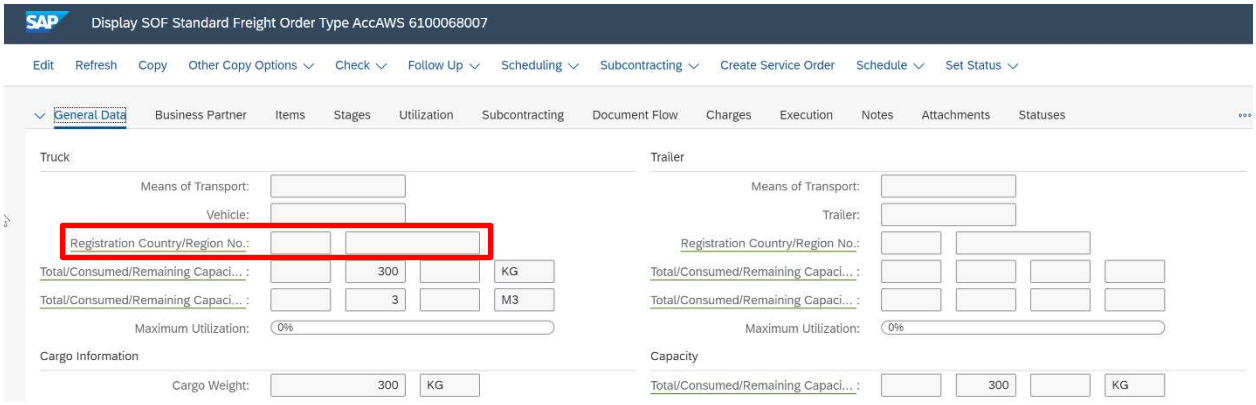
- Mandatory
- Access Seq
- Reference
- Exit Class
- Internal
- Lang. Text

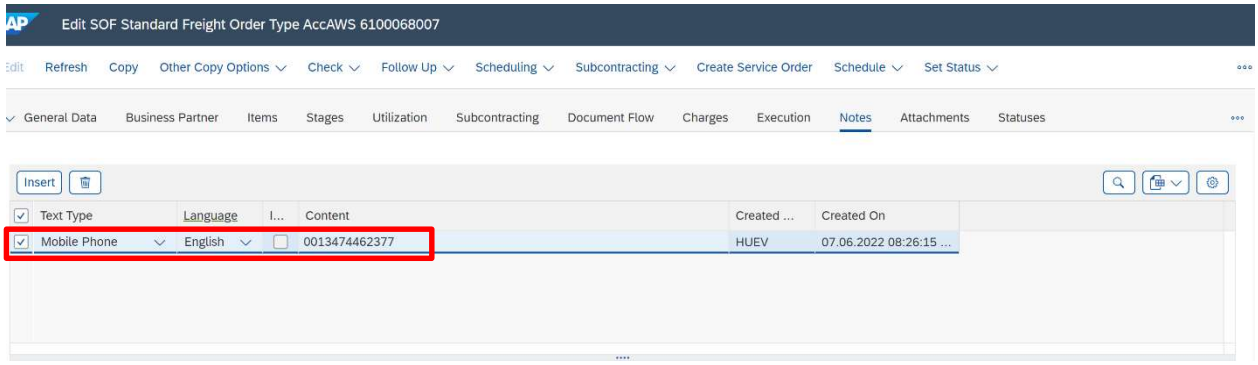
g. Save your entries.

### 2.1 FTL/LTL Tracking

- Configure Extractor Settings
  - Enter the T-code “ZGTT_TRACK_CONF”.
  - Set “Maintain Tracked Objects on Freight Order/Freight Booking” for relevant freight unit, freight order and freight booking document types.

- Maintain Tracked Objects Information on Freight Order
  You can do either of the following:
  - In the **Registration Country/Region No.** field of the **General Data** tab, fill in the license plate.
  - In the **Content** column of the **Notes** tab, fill in the mobile number.

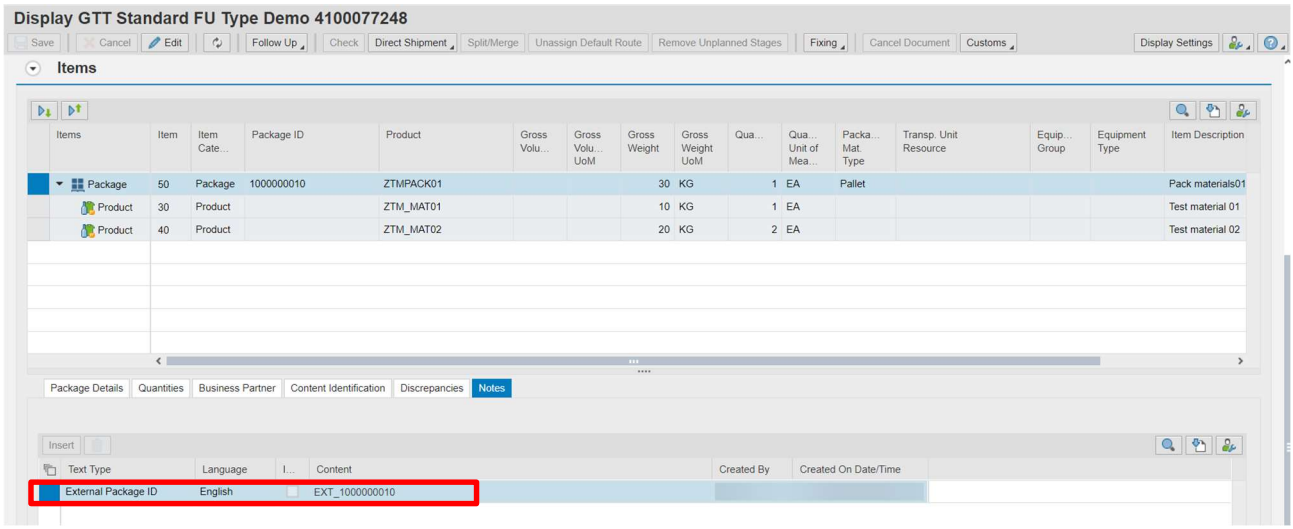


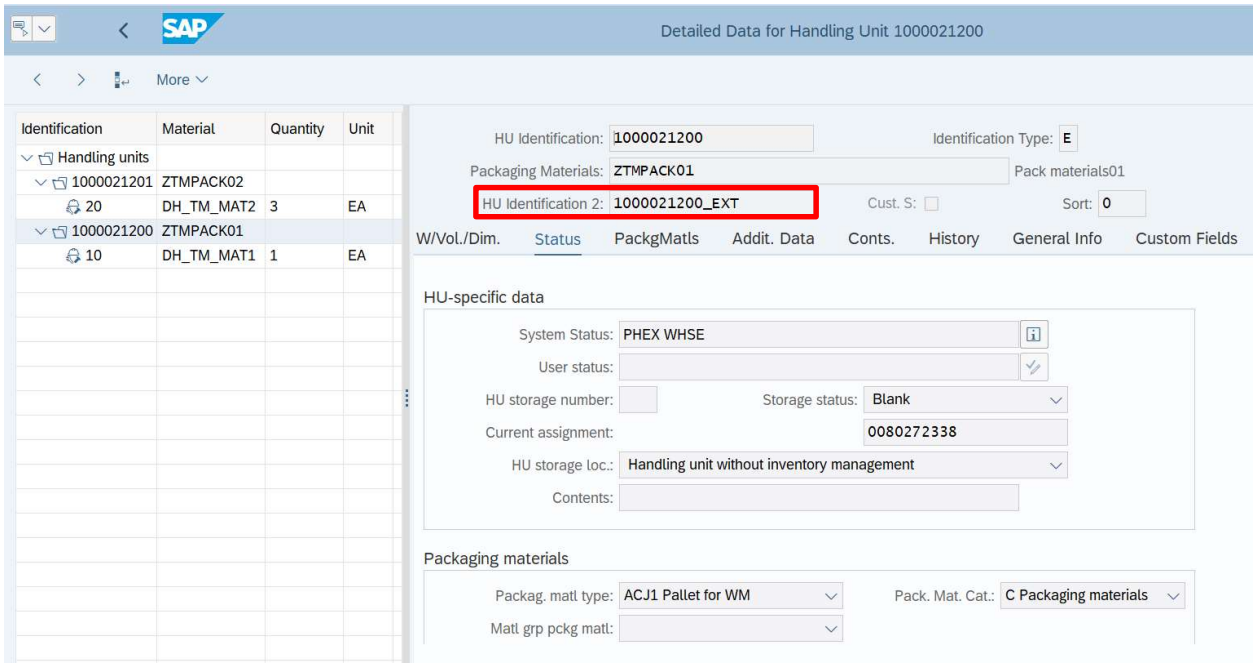

## 2.2 Parcel Tracking

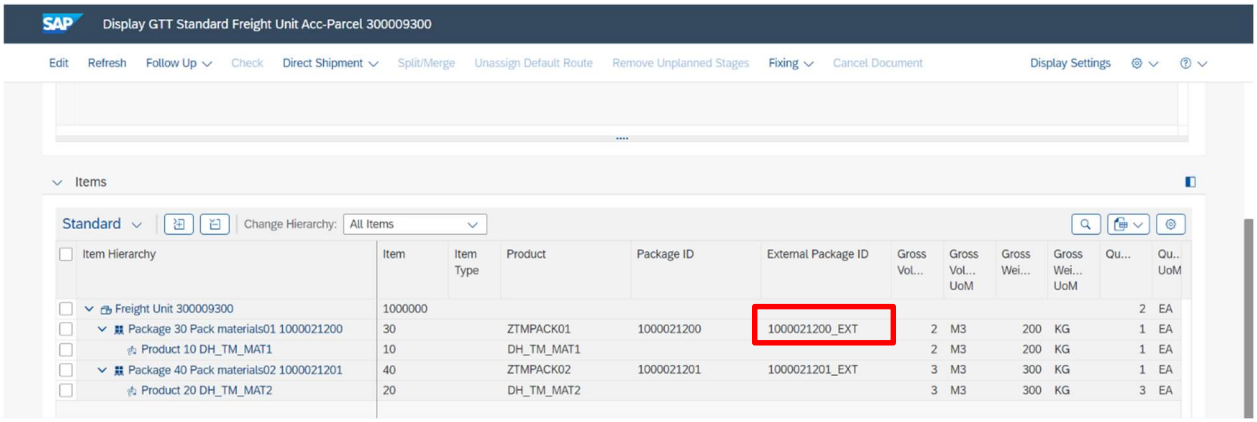
- Configure Extractor Settings
  - Enter the T-code “ZGTT_TRACK_CONF”.
  - Set “Maintain Tracked Objects on Freight Unit” for relevant freight unit, freight order and freight booking document types.

- Maintain Tracked Objects Information on Freight Unit
    - For SAP S/4HANA 1909 SP03 to SAP S/4HANA 2020 FPS01, in the **Notes** tab under the **Items** table, fill in the external package ID of each freight unit's package.




    - For SAP S/4HANA 2020 FPS01 or onwards, in the **HU Identification 2** field, fill in the external package ID of each freight unit's package, and it will be updated to the **External Package ID** column of the **Items** table.






**Note**:

If multiple packages are assigned to one freight unit, only when all packages are completed, the freight unit is set to “Completed” and then impacts the status of the relevant delivery items.

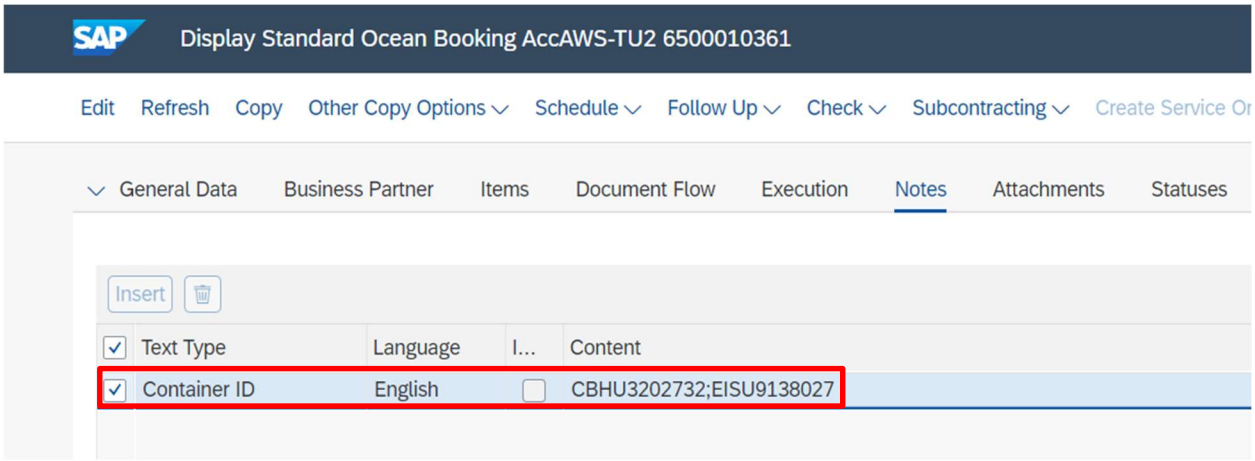
### 2.3 Ocean Tracking

There are three options:

Option One: If one freight booking only has one container ID or one freight booking has multiple container IDs and you do not know which freight unit is assigned to which container, do the following:

- Configure Extractor Settings
  - Enter the T-code “ZGTT_TRACK_CONF”.
  - Set “Maintain Tracked Objects Information on Freight Order/Freight Booking” for relevant freight unit, freight order and freight booking document type.

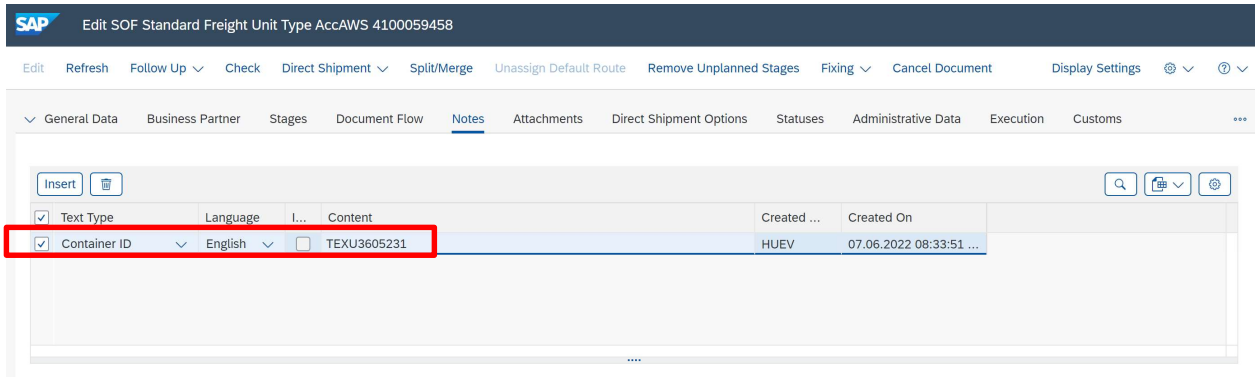
- Maintain Tracked Objects Information on Freight Booking
    - In the **Content** field of the **Notes** tab, fill in the container ID. If there are multiple container IDs, they need to be separated with the semicolon.




Option Two: If one freight booking has multiple container IDs and you know which freight unit is assigned to which container, do the following:

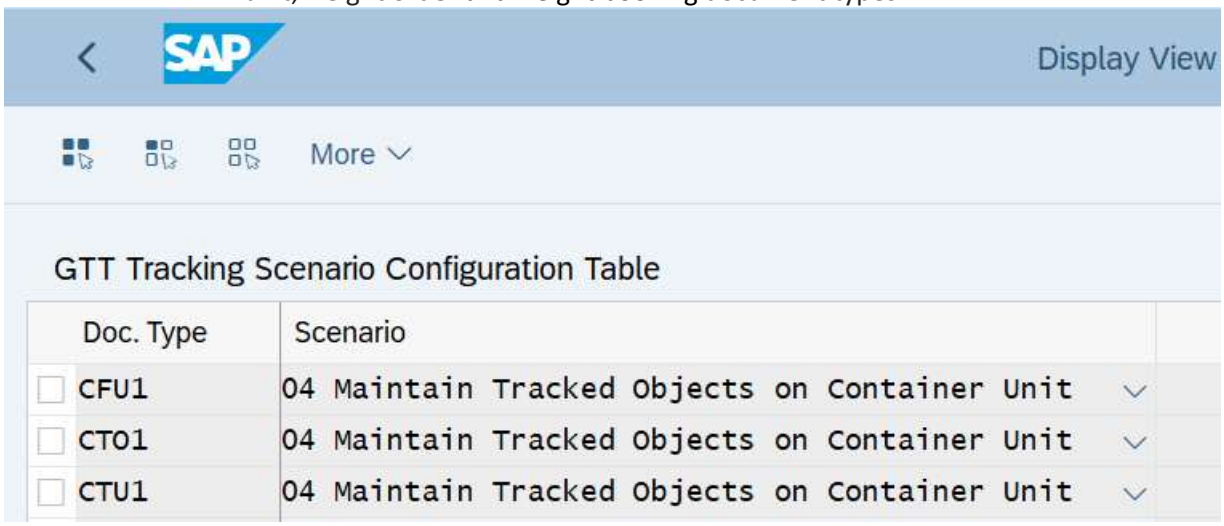
- Configure Extractor Settings
    - Set “Maintain Tracked Objects on Freight Unit” for relevant freight unit, freight order and freight booking document types.

- Maintain Tracked Objects Information on Freight Unit
    - In the **Content** field of the **Notes** tab, fill in the container ID.

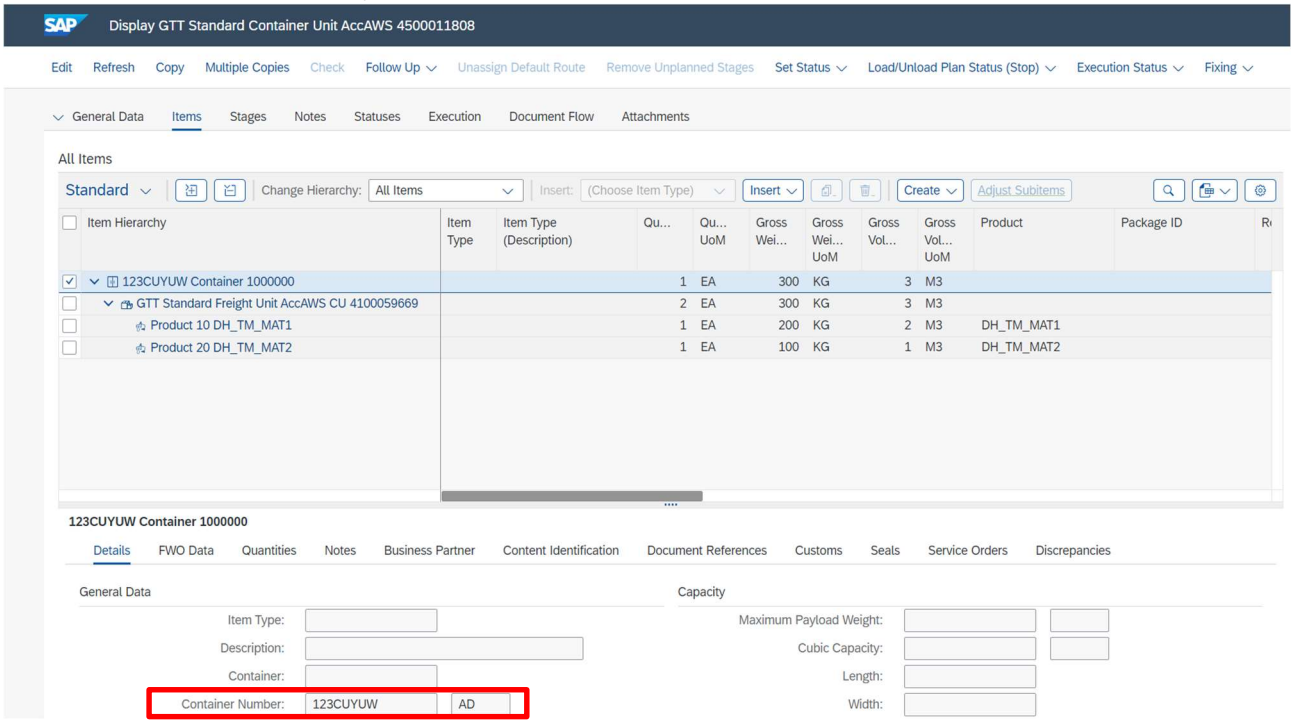


Option three (Recommended): If you use the container unit to consolidate freight units in SAP TM, do the following:

- Configure Extractor Settings
  - Set “Maintain Tracked Objects on Container Unit” for relevant freight unit, container unit, freight order and freight booking document types.

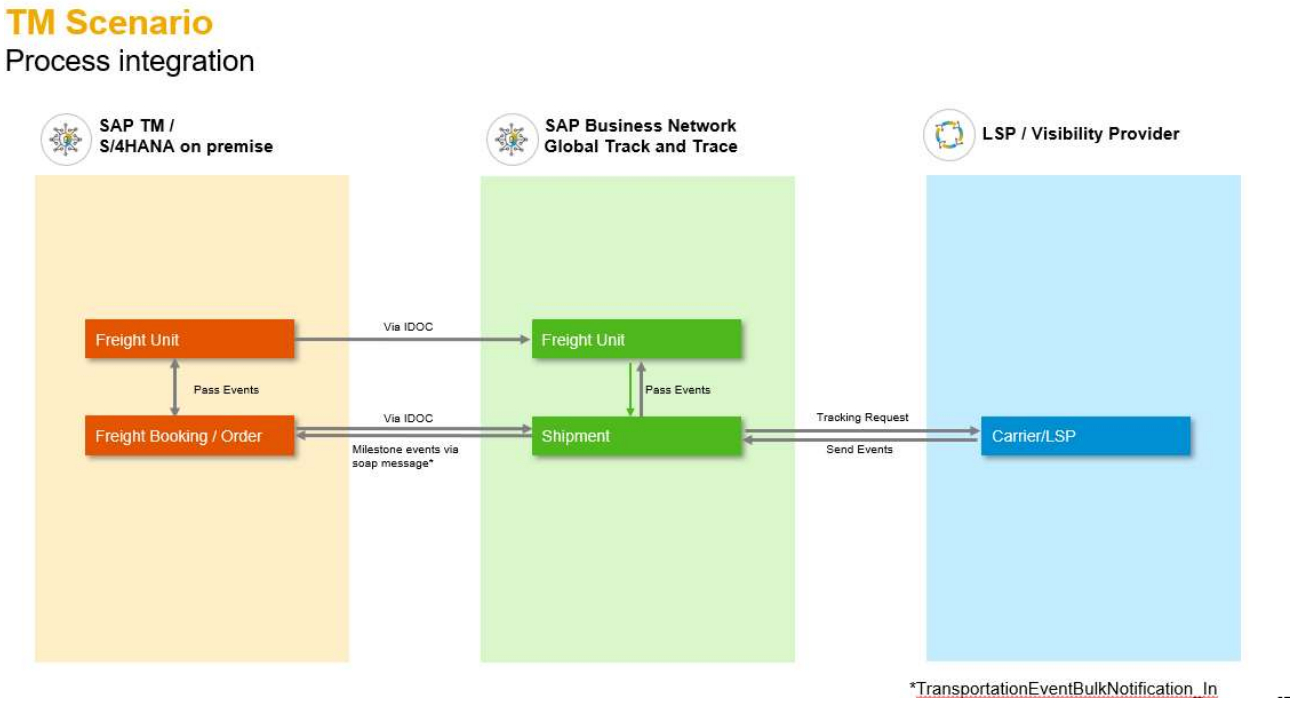



- Maintain Tracked Objects Information on Container Unit
  - In the **Items** tab, select the container item. In the **Container Number** field of its **Details** tab below, fill in the container ID.



## 3. TRACKING VIA REFERENCE DOCUMENT (LEGACY VERSION)

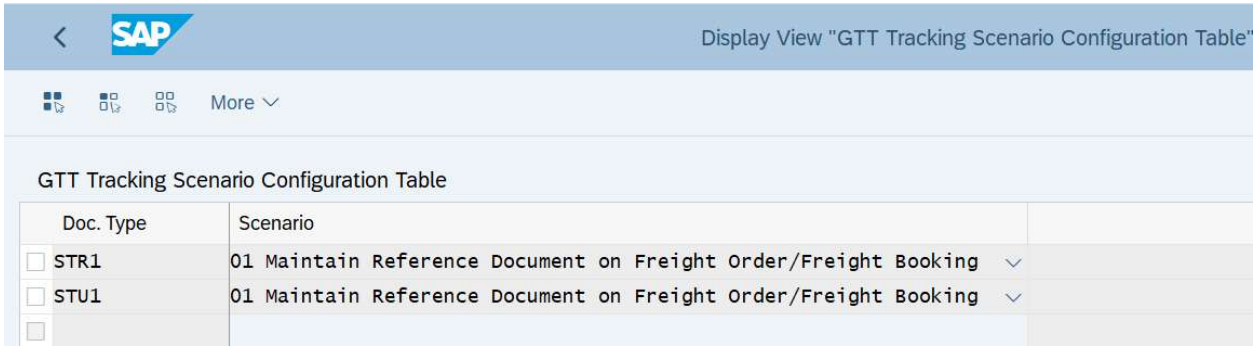
You can still track the shipments and freight units via carrier reference document, such as Bill of Lading, Master Bill of Lading, Master Airway Bill, Reference number of Carrier. In this way, the shipment will be sent to visibility providers. The process integration flow is as follows:




To support this tracking scenario, you need to configure extractor settings and maintain reference document information on freight documents in SAP TM as follows:

### 3.1 Configure Extractor Settings

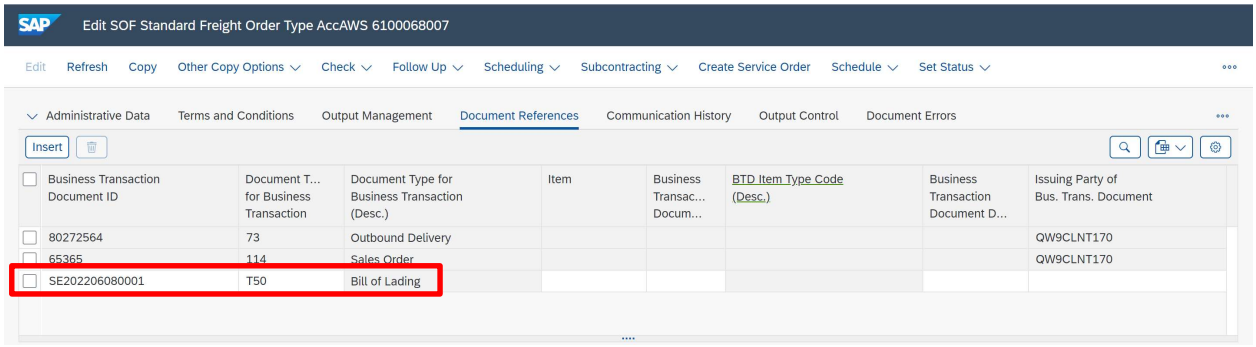
By default, the freight unit and the freight order are tracked via reference document. In this case, you do not need to configure the extractor settings. But you can still set “Maintain Reference Document on Freight Order/Booking” for relevant freight unit, freight order and freight booking document types.



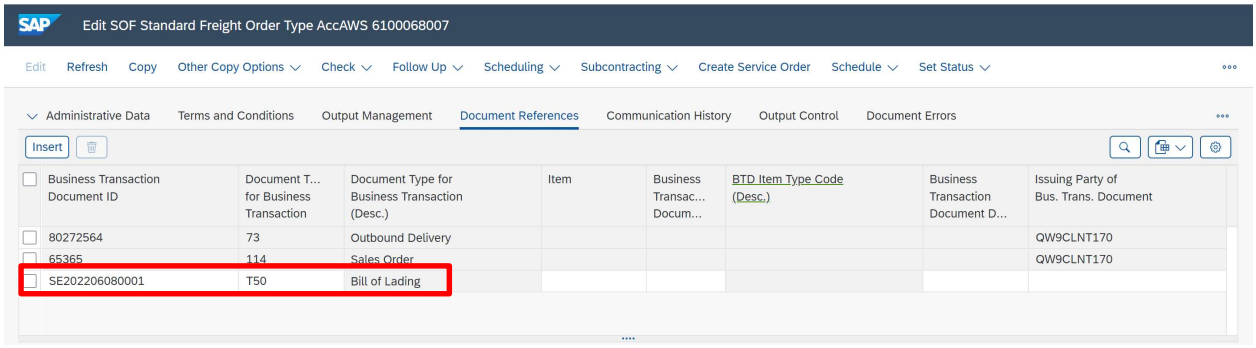
### 3.2 Maintain Document No. on Freight Documents

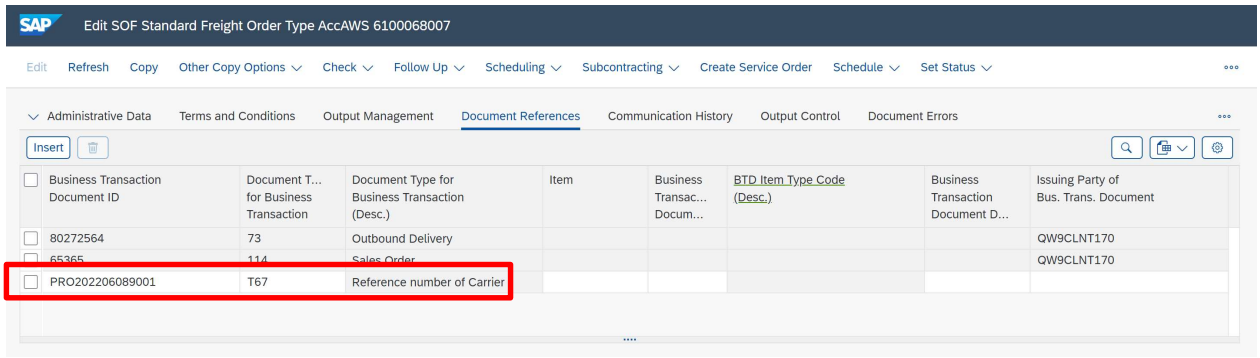
To maintain the Document No. on different freight documents in SAP TM, do the following:

- For FTL: on Freight Order, in the **Document References** tab, fill in the Bill of Lading (T50) on Freight Order.

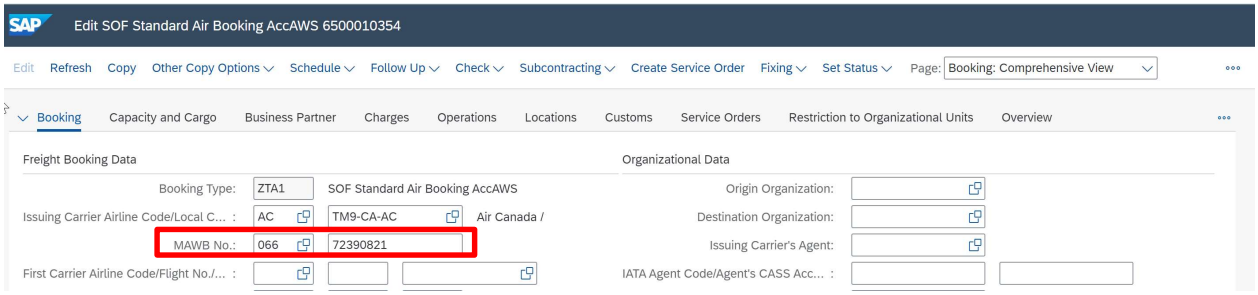



- For LTL: on Freight Order, in the **Document References** tab, fill in the Bill of Lading(T50) and Reference Number of Carrier (T67).

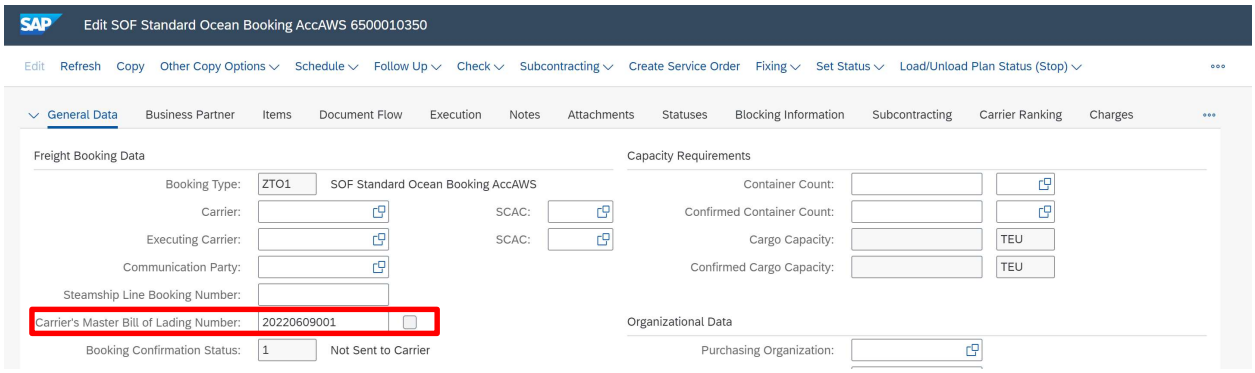



- For Air Tracking: on Freight Booking, in the **MAWB No.** field of the **Booking** tab, fill in the Master Airway Bill number.



- For Ocean Tracking: on Freight Booking, in the **Carrier's Master Bill of Lading Number** field of the **General Data** tab, fill in the Master Bill of Lading number.



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