

PUBLIC

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

SAP Business Network Global Track and Trace

March 2024



Contents

1. ABOUT THIS DOCUMENT	1
2. TRACKING VIA TRACKING UNIT	1
2.1 FTL/LTL Tracking	2
2.2 Parcel Tracking	3
2.3 Ocean Tracking	5
3. TRACKING VIA REFERENCE DOCUMENT (LEGACY VERSION)	9
3.1 Configure Extractor Settings	ç
3.2 Maintain Document No. on Freight Documents	10

1. ABOUT THIS DOCUMENT

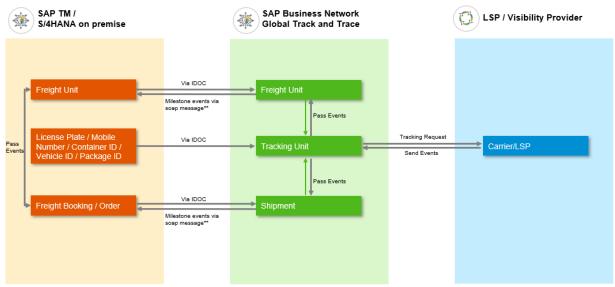
This implementation guide describes how to configure the extractors and maintain freight documents in SAP Transportation Management (SAP TM) for different tracking scenarios. The successful configuration does not indicate that the end-to-end tracking is enabled. To achieve that, you might also need support 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:

Tracking Unit

TM scenario - Process integration



**Events propagated from Tracking Unit will not be synchronized back.

Note: Events propagated from the tracking unit cannot be synchronized back to SAP TM.

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

Prerequisites

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

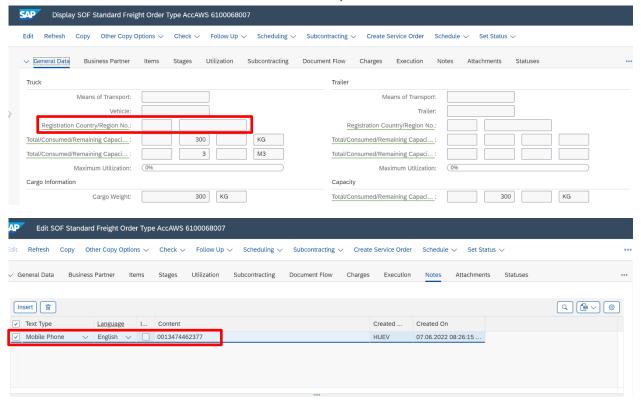
- d. Select the **DEFAULT** text schema for **CONT** and **MOBL** text types, and **TORITM** text schema for **EPKG** text type.
- e. Navigate to the **Text Type** to **Text Schema Assignment** section.
- f. Check if you have assigned the text type **CONT** and **MOBL** to the **DEFAULT** text schema, 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.
 - o In the **Content** column of the **Notes** tab, fill in the mobile number.

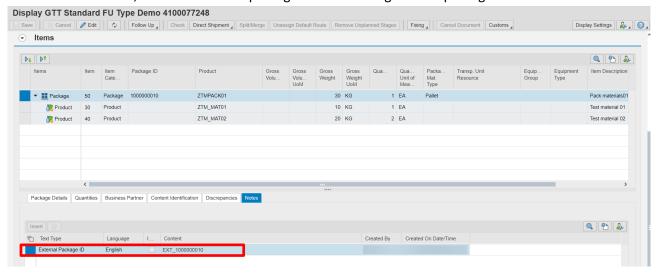


2.2 Parcel Tracking

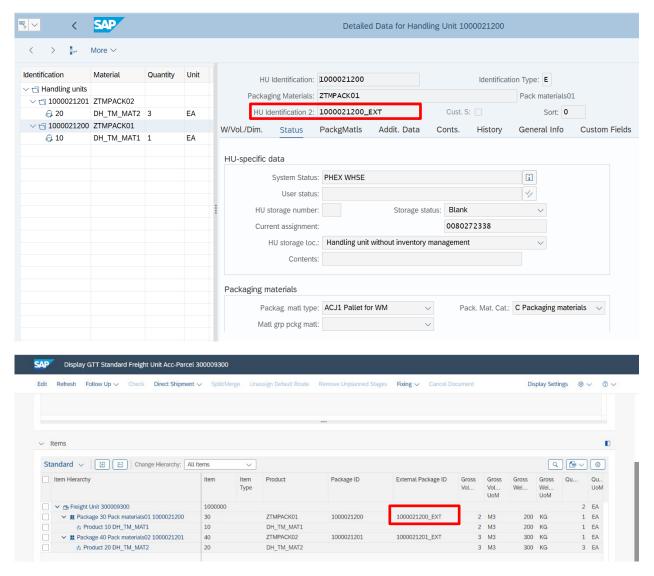
- Configure Extractor Settings
 - o Enter the T-code "ZGTT_TRACK_CONF".
 - Set "Maintain Tracked Objects on Freight Unit" for relevant freight unit, freight order and freight booking document types.



- 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

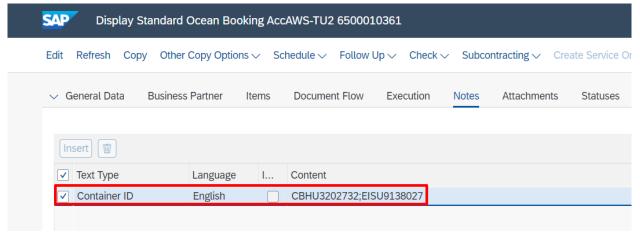
There are three options:

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
 - o 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
 - o 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.

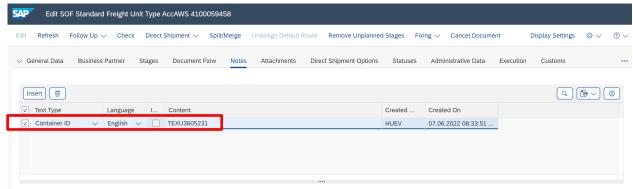


Option Two: If one freight booking has multiple container IDs and you know which freight unit is assigned to which container, do the following:

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

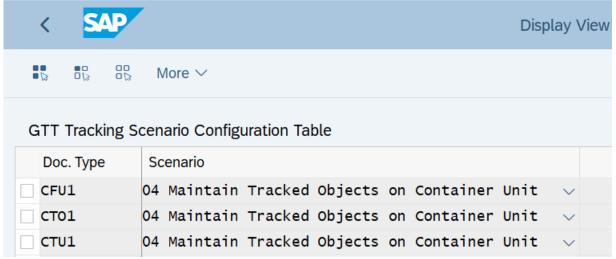


- Maintain Tracked Objects Information on Freight Unit
 - o In the **Content** field of the **Notes** tab, fill in the container ID.

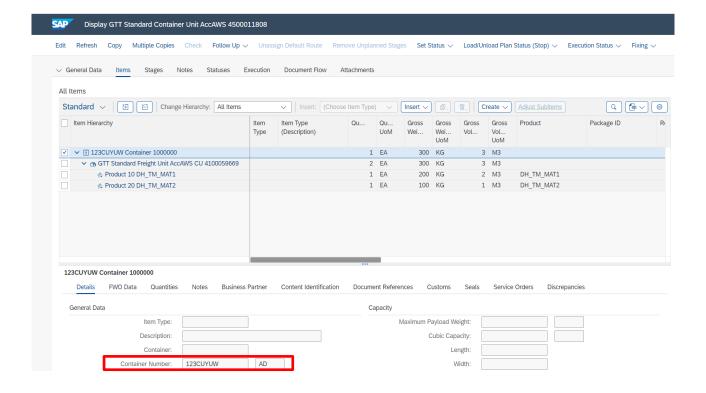


Option three (Recommended): If you use the container unit to consolidate freight units in SAP TM, do the following:

- 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.

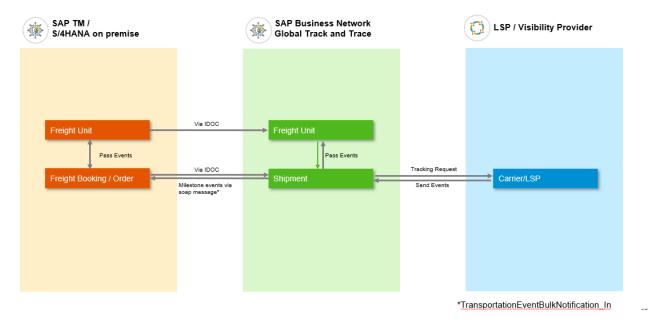


3. TRACKING VIA REFERENCE DOCUMENT (LEGACY VERSION)

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:

TM Scenario

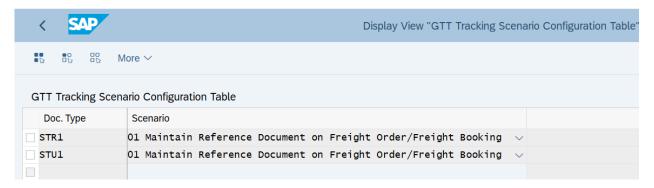
Process integration



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

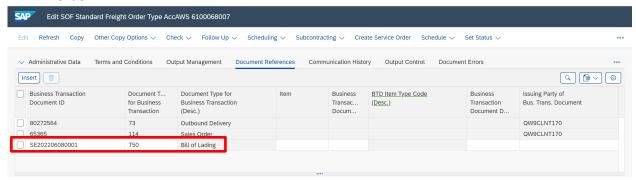
By default, the freight unit and the freight order are tracked via reference document. In this case, you do not need to configure the extractor settings. But you can still set "Maintain Reference Document on Freight Order/Booking" for relevant freight unit, freight order and freight booking document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



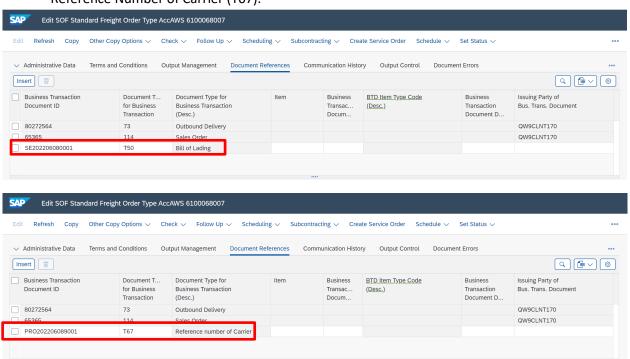
3.2 Maintain Document No. on Freight Documents

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

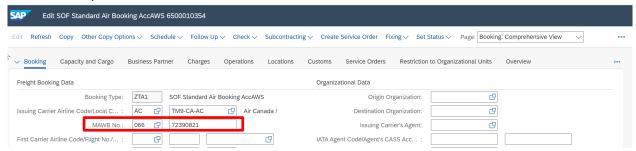
• For FTL: on Freight Order, in the **Document References** tab, fill in the Bill of Lading (T50) on Freight Order.



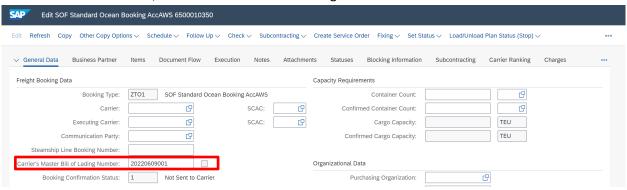
 For LTL: on Freight Order, in the **Document References** tab, fill in the Bill of Lading(T50) and Reference Number of Carrier (T67).



 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.



www.sap.com/contactsap

© 2022 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company

The information contained herein may be changed without prior notice. Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, and they should not be relied upon in making purchasing decisions.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies. See www.sap.com/trademark for additional trademark information and notices.

