

Bulk Tariff and Route Management (WP1)

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Objective

This document presents the general process for managing **Bulk transport** rates and routes in WP1 system.

Scope

This process applies to all tariffs and deliveries to be processed in the EMEA zone (except Gorzow in Poland), and exclusively with regard to sales transport.

Definitions

SD : Shipment Document. This file is a summary of all the elements necessary for carrying out a transport: route, carrier used, point of departure, point of arrival, mode of transport used ...

SCD : Shipment Cost Document. It is generated during the implementation (= ex works) of the transport mentioned in the SD where the accrual of the transport cost is created.

SHIPPING POINT : This is a code assigned to each site according to the nature of the product transported and the type of transport used (Ex: Collonges = 0151).

TARIFF ZONE : Division of a country to avoid having to enter the same tariff as many times as there are departments in the same geographical area (Ex: ZT Rhône-Alpes can include 01, 38, 69, 42)

EMEA : Europe, Middle East and Africa

TRANSPORT PLANNING POINT (TPO) : This is a code assigned to each administrative entity. It defines which site is responsible for organizing and paying for each transport.

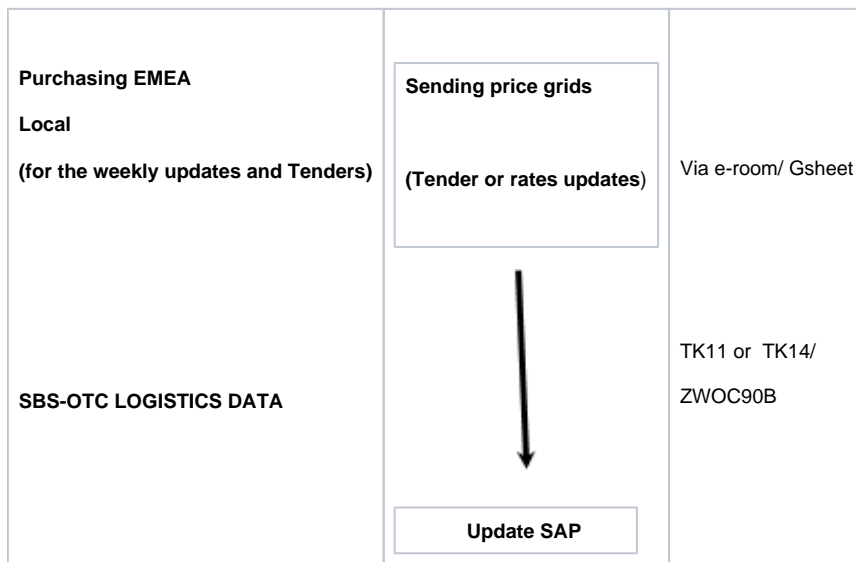
RDT : Route Determination Table. This table allows that a route populate automatically in an order.

GOOGLE FORM : It is a way that allows sites to make emergency route requests

DG and NDG : If we are dealing with a Dangerous Goods or Non Dangerous Goods flows

Entry of Rates and Route Creation

WHO ?	WHAT ?	HOW ?



Rate Creation Dry Bulk/Liquid bulk:

Creation of new rate:

The rates are created for the flows defined in AODocs as Primary and backup

Before creating a new rate it is necessary to check if it already exists in SAP through **TK13**


- Aodocs => EMEA Logistics Purchasing
1. Dry - Rates /tarifs - Doc ROAD DRY BULK TENDER 2019_2021.xlsx

List of packaging codes used:

Road Dry Bulk	Dry Road Silo - Extra Capacity	1845011
	Dry Container 30'	1846409
	Dry Road Silo – Standard	1869589
	Dry - Benne/Tipper Truck	1873235

The rate is created in SAP by entering TK11:

Create Condition Records

 Condition Information
Key Combination

Condition Type

Depending on the information in the file, in column " **Currency/Unit**" we may have two type of condition type:

Condition Type	Z981	EU RD FTL BULK/FlatR
Condition Type	Z982	EU RD FTL BULK/Scale

-Condition Z981 (eur/truck): lump sum price has a unique value of rate regardless of the quantity shipped.

-Condition Z982 (eur/Mt) : Price per ton, the rate has a minimum invoice price and a price per tonnage. (Use scale Id: **207916**)

On Dry bulk we can find two modes of transport, **Road** and **Multimodal**. Depending on this, we select the following key combination:

Key Combination ✕

- Ship.Type/Serv agent/Ship.pt./Dest.country/Pack mat/ship to
- ShpTp/ServAg/DstCtry/PckMat/ShpPt/DstPstlCod/ShpCnd/MatFrtGr
- ShpTp/ServAg/DstCtry/PckMat/ShpPt/DstPstlCod/ShpCnd/DG
- ShpTp/ServAg/DstCtry/PckMat/ShpPt/DstPstlCod/ShpCnd
- ShpTp/ServAg/DstCtry/PckMat/ShpPt/DstPstlCod/MatFrtGr
- ShpTp/ServAg/DstCtry/PckMat/ShpPt/DstPstlCod/DangGd
- ShpTp/ServAg/DstCtry/PckMat/ShpPt/DstPstlCod

Multimodal

Road

Rate registration:

Line 3 and 4 are used for multimodal transport, represented with shipping condition **AV**:

- Shipping type
- Service agent
- Destination country
- Packaging material
- Shipping point
- Destination postal code
- Shipping condition

ShpTp/ServAg/DstCtry/PckMat/ShpPt/DstPstlCod/ShpCnd/DG																				
Item	S...	ServAgent	De...	PackMats	Shp...	TargPostCd	S... C...	Description	Amount	Unit	per	UoM	C...	S...	Valid From	Valid to	D...	S...	S...	
01	54166		ES	1899848	E452	8292	AV	✓/Yes	2.190,00	EUR		B			01.01.2020	31.03.2022				

Line 6 and 7 are used for road transport:

- Shipping type
- Service agent
- Destination Country
- Shipping point
- Target postal code
- Packaging material

ShpTp/ServAg/DstCtry/PckMat/ShpPt/DstPstlCod/DangGd	S...	ServAgent	De...	Ship...	TargPostCd	C. PackMatis	Description	Amount	Unit	per	UoM	C...	S...	Valid From	Valid to
01	54166		DE	E452	47805	✓1899848	ST TANK (ROADBARREL OR CO.	750,00	EUR				B	01.01.2020	31.03.2022



In the end and before leaving please don't forget to save the information.

The process of rates registration can be done in two ways :

- Manually, if there is only one entry
- In mass, by using a template for Mass upload. (Available in transaction **ZWOC90D**).

Liquid bulk rate:

Creation of new rate:

The rates are created for the flows defined in AODOcs as Primary and backup

Before creating a new rate it is necessary to check if it already exists in SAP through **TK13**

- Aodocs => EMEA Logistics Purchasing
 1. **Liquid - Rates /tarifs - Doc LIQUID BULK_From_2021.xlsx**

List of packaging codes used:

Road Liquid	ST Tank (Roadbarrel or Container)	1899848
	Multi Tank Road Bulk Liq	1899850
	Own Tank Liquid (Roadbarrel / Container)	1899851
	Tank Catechol Fleet (Aroma - St Fons)	2025806

Note:

The process of rate creation in liquid bulk is the same as Dry bulk with two modes of transport, following four key combinations available in condition types: Z981 and Z982. The only difference lies on the packaging codes.

Rate creation in mass.

The process of rate creation in mass is done when there is a significant amount of rates to be updated at the same time. For this we use transactions **ZWOC90D** and **ZWOC90B**.

ZWOC90D- Extraction of the template in an excel file:

Create excel sheet

Condition type

Z982

Key Combination

- Shp.Type/Serv agent/Ship.pt./Dest.country/Pack mat/ship to
- ShpTp/ServAg/DstCtry/PckMat/ShpPt/DstPstlCod/ShpCnd/MatFrtGr
- ShpTp/ServAg/DstCtry/PckMat/ShpPt/DstPstlCod/ShpCnd/DG
- ShpTp/ServAg/DstCtry/PckMat/ShpPt/DstPstlCod/ShpCnd
- ShpTp/ServAg/DstCtry/PckMat/ShpPt/DstPstlCod/MatFrtGr
- ShpTp/ServAg/DstCtry/PckMat/ShpPt/DstPstlCod/DangGd
- ShpTp/ServAg/DstCtry/PckMat/ShpPt/DstPstlCod



Selection of the key combination preceded the entrance of the data necessary to create the template (usually the information added is a rate created in SAP):

Shp.type: stage	01
Service agent	54166
DestCtry	FR
Shipping Point	E452
TargetPost.Code	59820
PackMaterials	1899848
Valid From	01.01.2020
Valid to	31.03.2022
Currency	EUR



Once the information please press execute.

After pressing execute a board with two information will appear, always select **Pre-filled sheet**:

Freight cost condition download

Create excel sheet

Condition type: Z982

Excel Sheet type selection

Empty Sheet

Pre-filled Sheet

The file is generated with the information previously entered in SAP:

Sheet1 - Excel

Farinha, Nuno

Application	Condition typ	Table	Insurance typ	Shp.Cond.	Service agent	Shipping line	Leg indicator	CntryOfDeprt	Departure reg	Departure zoi	Dep. post. coi	Shipping Poin	DestCtry	Dest.region	Dest. zoi
KAPPL	KSCHL	KOTABNR	VSART	VSBED	TDLNR	VTTK_ADD01	LAUFK	LAND1A	REGIOA	LZONEA	PSTLZA	VSTEL	LAND1Z	REGIOZ	LZONEZ
F	Z982	763	01		0000054166							E452	FR		

The following step is to entered the new rates and save in two formats:

Save as type: Excel Workbook

Save as type: Unicode Text

The excel workbook to have the information in excel in case you need to check the information added. And the **Unicode text because is the format read in SAP to upload the rates.**

ZWOC90B- Upload rates in Mass.

To complete the process of rate registration in Mass you need to upload the file saved in Unicode Text. For this, write the transaction in SAP and press enter. A board will appear and here you must add the following information:

- **Condition type: Z982 or other condition type.**

- **File Header Line Number:** In this information you always put "2", because it is when the system will start to read the rates.
- **File name:** The file with the rates saved in Unicode text.

ZWOCT03800

Price Condition Selection

Condition Type	Z982
File Header Line Number	2

Pc File Selection

File name	C:\Users\pt63034979\Desktop\Liquid bulk mass upload rate 27072020.t
-----------	---

Unix File Selection

File name	
-----------	--

To finish the process press execute.

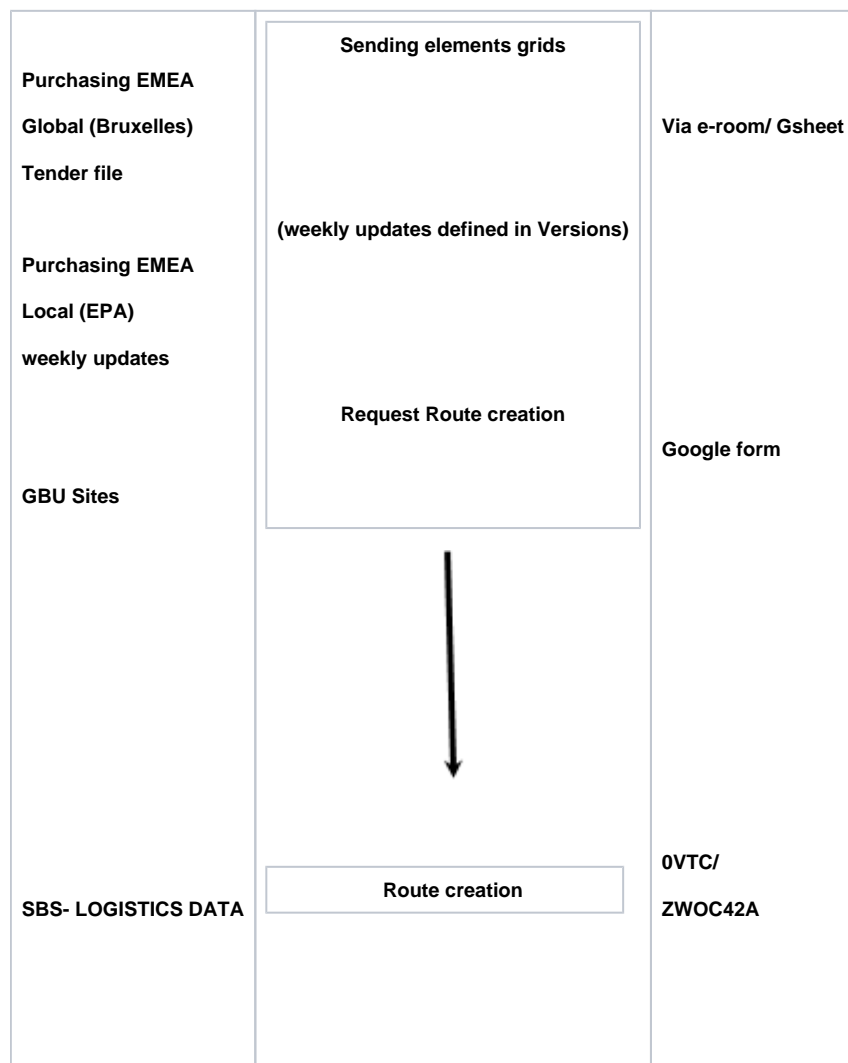
In order to have the rates uploaded with success in SAP you must get the following information:

SAP

```
>>>> File Line 0001
Idoc 0000000135453104 - Satus 53 Application document posted
```

Route creation:

WHO	WHAT?	HOW?



The request for a route creation can come from a Google form (for spot deliveries) or via update on AODocs

- The first step before creating a route is to check if it exists already in SAP.

To check this information, there is a procedure to be respected.

Procedure :

- Open SQ00
- Select query ZW_RCS_OC
- click under 0VTC_INFO

The necessary Information to create a route :

- Service agent name
- Service agent code
- Lead time
- Transit time
- Factory calendar

The elements for route creation must be provided by Purchasing (AODocs/Gsheet) or by the GBU through a [Google form](#).

Create route in SAP:

Enter transaction **OVTC** –Route definition:



Select the pencil to create

All routes have a specific codification depending on the mode of transport used, for road is "3" e.g: 300001. To respect the sequence of the existing routes we select the last route created by going to the icon positions:

Display View "Routes": Overview

Display BC Set

Dialog Structure

- Routes
 - Route Stages
 - Transportation connection point

Route	Description	ST	PL	Un	ServAgent	TransitDur	Trav.dur.	TransLdTm.	Tr.lead
000000	UMM*	01			60905				
000009	FR RoadC DEBEAUX 1D 0D	01			51066			1,00	
000010	FR RoadC DEBEAUX 1D 1D	01			51066	1,00		1,00	
000011	FR RoadC DEBEAUX 1D 2D	01			51066	2,00		1,00	
000012	FR RoadC DEBEAUX 1D 3D	01			51066	3,00		1,00	
000013	FR RoadC DEBEAUX 1D 4D	01			51066	4,00		1,00	
000019	FR RoadC SAURON 1D 0D	01			51179			1,00	
000020	FR RoadC SAURON 1D 1D	01			51179	1,00		1,00	
000021	FR RoadC SAURON 1D 2D	01			51179	2,00		1,00	
000026	FR RoadC DEBEAUX 1D 2D	01			51458	2,00		1,00	
000031	FR RoadC DHL FREIGHT 1D 3D	01			51138	3,00		1,00	
000032	FR RoadC DHL FREIGHT (OBR) 1D 3D	01			51138	3,00		1,00	
000033	FR RoadC DHL FREIGHT (OBR) 1D 4D	01			51138	4,00		1,00	

Position... Entry 1 of 26.849

Once the final route code is discovered we use the subsequent number e.g: If the last number is 304772, the new route will be 304773.

Designation of the route:

Calendar + **service agent name** + **Lead time** + **Transit time**

e.g : **FR HOYER 3D 2D**


A route for road packed doesn't have any connection point, therefore it can be used by other sites, with this we can affirm that all the road pack road are multisite (Can be used by other GBUs/sites)

The process of route creation covers two steps:

1. Creation of the route
2. Translation

1. Creation of the route:

- In order to create the route properly the information below must be fill in:

Route	304762		
Identification			
Description	FR HOYER 3D 2D		
Route ID	FR HOYER 3D 2D		
Processing			
Service agent	57099	HOYER FRANCE LYON	
ModeOfTr-Border	3		
Shipping type	01  Truck	Distance	0,000
ShTypePrelLeg			
ShTypeSubLeg		<input checked="" type="checkbox"/> Rel.transport	
Scheduling			
TransitTime	2,00	Factory cal.	FR
Trav.dur.			
TransLdTm.	3,00		
TrLeadTimeHrs			
AlwdTotWgt	0		
Dangerous goods			
<input type="checkbox"/> Take transit country table into acc.			

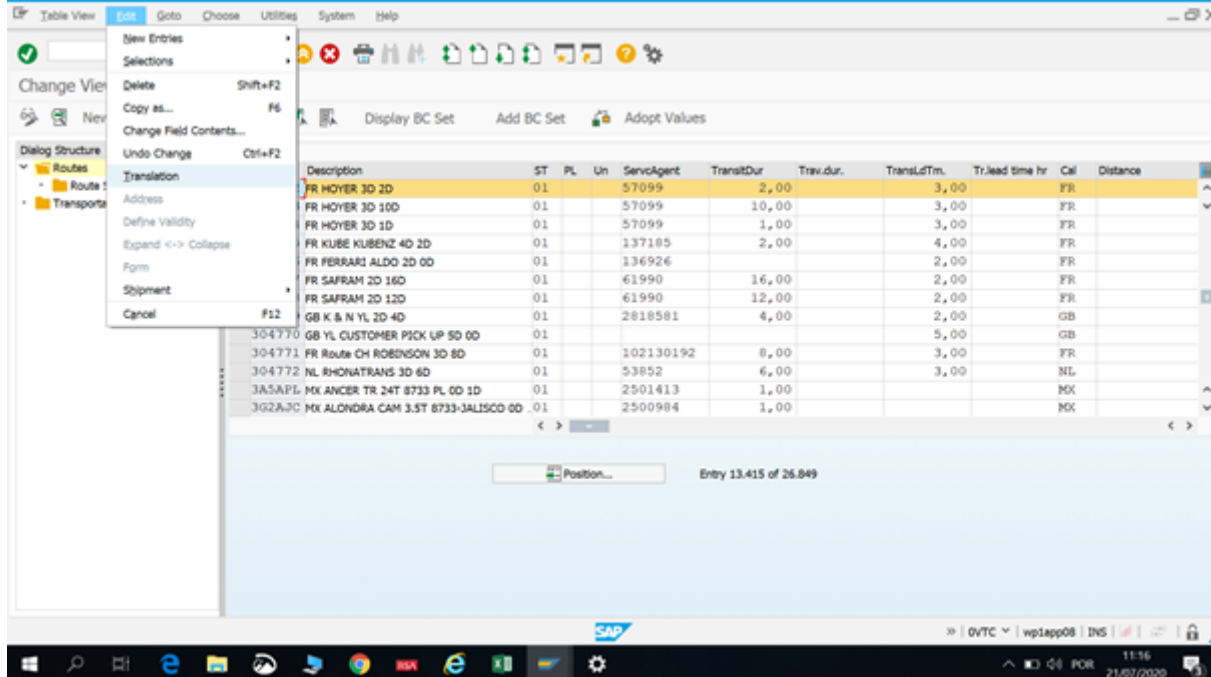


Once the information is completely inserted, press **enter** and **save**

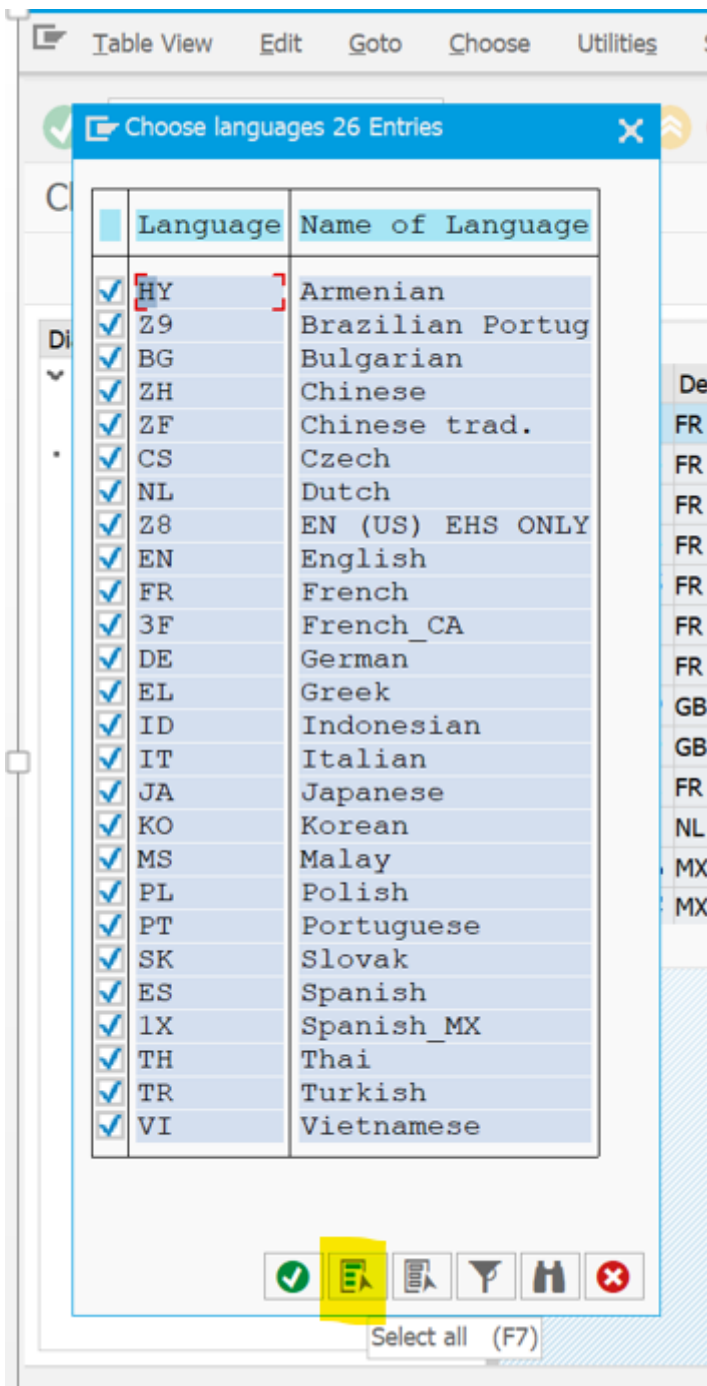
1. Translation

Once the route is saved it is necessary to translate to the other available languages. The process is made to ensure that route description appears on sales order/purchase orders at the time that the route is used, regardless of the language chosen in SAP.


To start the process is necessary to go to the Icon **Edit** and select **translation**:



then a board will appear with several languages, it is necessary to select all. It can be made by pressing the **Green button** and after **Enter**:



Once you press enter, a new board will appear with the languages and the route selected. What is required is to copy paste the description to all the languages as shown below and save at the end.

 Edit Texts in Other Languages

Route	Language	Description
304762	English	FR HOYER 3D 2D
	Brazilian Portug	FR HOYER 3D 2D
	Chinese	FR HOYER 3D 2D
	Thai	FR HOYER 3D 2D
	Korean	FR HOYER 3D 2D
	Malay	FR HOYER 3D 2D
	EN (US) EHS O...	FR HOYER 3D 2D
	Czech	FR HOYER 3D 2D
	German	FR HOYER 3D 2D
	English	FR HOYER 3D 2D
	French	FR HOYER 3D 2D
	Greek	FR HOYER 3D 2D
	Italian	FR HOYER 3D 2D
	Japanese	FR HOYER 3D 2D
	Polish	FR HOYER 3D 2D
	Chinese trad.	FR HOYER 3D 2D
	Dutch	FR HOYER 3D 2D
	Portuguese	FR HOYER 3D 2D

Route modification :

It can happen to receive a request for a route modification by the GBUs. The requests are usually linked to a modification of lead time, transit time, service agent, factory calendar, etc...

Before doing the requested modifications it is necessary to analyze possible options.

3 possible options:

The route already exists and in this case instead of creating a new one and double, the available route code is delivered to the GBU.

The route code doesn't exist: Check if the mentioned route to be modified is not being used by another GBU.(TDA or shipment document).

If not, modify the route itself.

Before modifying a route it is necessary to see if it is not being used by other GBU by checking the route table determination(TDA), transaction **ZWOC46A**.

List Route Determination

Program Selections			
Departure country	<input type="text"/>	to	<input type="text"/>
Departure zone	<input type="text"/>	to	<input type="text"/>
Destination Country	<input type="text"/>	to	<input type="text"/>
Transportation Zone	<input type="text"/>	to	<input type="text"/>
Actual route	<input type="text"/>	to	<input type="text"/>
Transportation Group	<input type="text"/>	to	<input type="text"/>
Shipping Conditions	<input type="text"/>	to	<input type="text"/>
Route	<input type="text"/>	to	<input type="text"/>
Language Key	EN	to	<input type="text"/>
Service agent	<input type="text"/>	to	<input type="text"/>
Shipping Point/Receiving Pt	<input type="text"/>	to	<input type="text"/>

and execute



Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

Mar 05, 2021	Actor	Type	Activity	Version
Published	Margarita Scerbakova	State	changed state to Published at 6:55 am	v6
To be approved	Margarita Scerbakova	State	gave <i>Approvers</i> approval at 6:55 am	
Mar 04, 2021				
	Paulo Fernando Sousa	State	assigned approval <i>Approvers</i> to Margarita Scerbakova at 7:50 pm	
		State	changed state to To be approved at 7:50 pm	v6
For Review	Paulo Fernando Sousa	State	gave <i>Reviewers</i> approval at 7:50 pm	
		State	assigned approval <i>Reviewers</i> to Paulo Fernando Sousa at 7:50 pm	
		State	changed state to For Review at 7:50 pm	v6
From Dec 23, 2020 to Dec 31, 2020				
Draft	Diego Lemos and Rita Almeida	Edit	multiple updates from Diego Lemos and Rita Almeida	