

CONFIGURATION GUIDE | PUBLIC SAP TM 9.6 FPS02 2019-10-09

Configuration Guide for Intermodal Rail Freight



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Legal Disclaimer

⚠ Caution

This document contains sample configuration content. Unless expressly stated otherwise in your agreements with SAP, this sample content is not part of SAP product documentation and you may not infer any product documentation claims against SAP based on this information.

1 Configuration Guide for Intermodal Rail Freight

This document explains how you configure an "Intermodal Rail Freight" scenario. Implement this scenario as described and once you have verified the functions, you can change the data to suit your own environment and operating conditions.

Change History

Version	Date	Description	
1.0	December 2013	Initial version	

Important SAP Notes

You must read the following SAP Notes before you start using this test scenario. These SAP Notes contain the most recent corrections required to test the scenario.

Make sure that you have the current version of each SAP Note, which you can find on SAP Service Marketplace at http://service.sap.com/notes/*>.

SAP Note Number	Description	
1738013 🖢	TM: Integration with ERP Enhancement Packages	

2 The Scenario

Use

This document describes the configuration settings for the "Intermodal Rail Freight" scenario in SAP Transportation Management (TM).

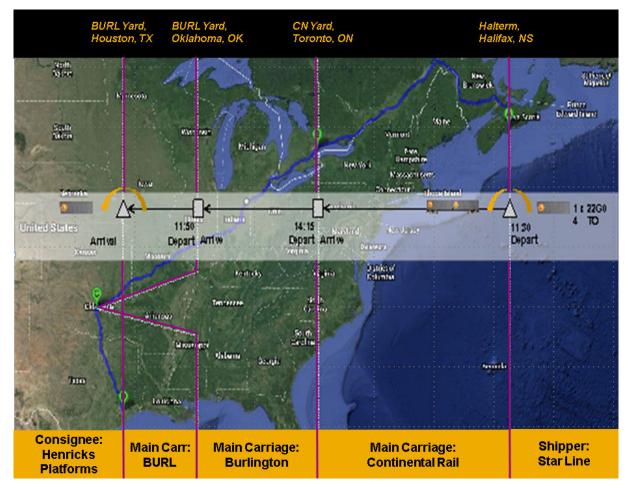
Some settings in this guide can be copied from the existing SAP ERP configuration. In particular, you can reuse SAP ERP Customizing settings for the following:

- Enterprise structure definition and relevant assignments
- Financial accounting
- Controlling

In this scenario, you assume the role of Continental Rail, which is running the SAP Transportation Management system that you are in the process of setting up. All of the settings and data that are referred to as "internal" in the following document therefore refer to Continental Rail.

A 20-foot container is handed to Continental Rail by the shipper Star Line at the container terminal in Halterm in Halifax, NS. The container, which contains dangerous goods, is transported on a scheduled train to Toronto by Continental Rail as per the order placed by the customer. The order also states that the interchange to Burlington is to take place in the yard in Toronto, ON.

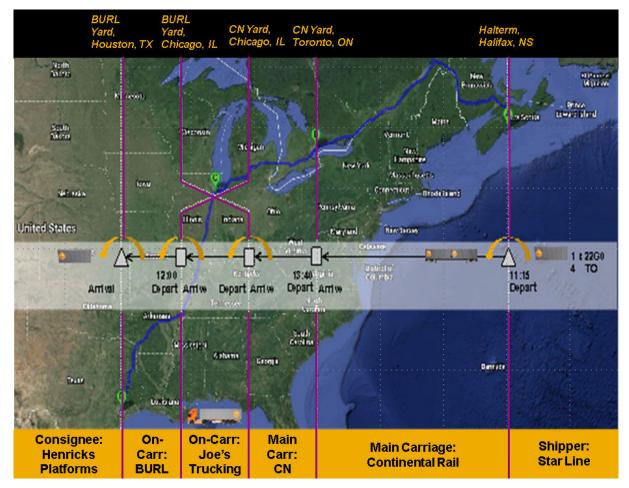
The container continues its journey to Oklahoma City, crossing the U.S. border in Detroit, MI. Ocean Bond is responsible for transporting the container through the United States. The final destination of the container is Houston, TX. It is transported to Houston on a scheduled train operated by Burlington. In Houston, the container is picked up at the yard by the consignee Hendricks Platforms Inc.



Intermodal Rail Freight: Ordered Route

As an alternative, the container can be routed via Chicago, IL. Since congestion on the ordered, default route is heavy, the container can be transported along the actual route via Chicago.

Continental Rail manages the transport from Toronto, ON to Chicago Heights Yard, and arranges for the container to be subsequently moved for interchange to Burlington at Chicago IM EX Yard. For the cross-town transport from Chicago Heights to Chicago IM EX, Continental Rail orders a truck subcontracted to Joe's Trucking. The container is unloaded from the railcar and loaded onto the truck. Once transported, it is unloaded from the truck in Chicago IM EX and loaded onto a railcar. It then continues its journey to its final destination in Houston, TX. In Houston, the container is picked up at the yard by the consignee Hendricks Platforms Inc.



Intermodal Rail Freight: Alternative Route via Chicago, IL

Charges are invoiced based on the ordered route and rule 11. Continental Rail and Burlington each send an invoice to Star Line for their section of the journey. The charges on each of the invoices include the respective terminal handling at the source and destination locations.

In addition to the charges for transport and supplemental services, there may be costs incurred during execution. These event-driven charges will added to the invoices as supplemental charges.

Business Add-Ins

Business system groups, logical systems, RFC (remote function call) connections, and system connections used throughout this guide are examples only. Replace these with your own data.

This guide also assumes the use of Business Add-Ins (BAdIs), which add a prefix or suffix to master data objects transferred from SAP ERP to SAP TM (see SAP Note 458914). The following table provides an overview of the prefixes and suffixes used in this document:

Business Object	Prefix	Suffix
Customer	CU-	-@ERP001
Plant	PL-	-@ERP001

Business Object	Prefix	Suffix
Shipping Point	SP-	-@ERP001
Supplier	SU-	-@ERP001
System	None	-@ERP001

For example:

- Shipping point name in SAP ERP: 1200
- Shipping point name in SAP TM: SP1200@ERP001

If you have not implemented the corresponding BAdl in your system, the names of the objects are not changed. To add a prefix or suffix to master data objects transferred from SAP ERP to SAP TM, apply SAP Note 458914 (Consulting note: Sample code for inbound user exit locations).

If you implement this SAP Note, locations for carriers are created with the relevant prefix and suffix (for example, a location of type 1020 = TSP). However, business partners retain the original name used in SAP ERP:

Business Object	Prefix/ Suffix for Location	Prefix/ Suffix for Business Partner	
Carrier	CA- / -@ERP001	None / None	

For example:

- Carrier name in SAP ERP: RF-CR-01
- Carrier location name in SAP ERP: CARF-CR-01@ERP001
- Carrier name in SAP TM: RF-CR-01

This document uses the system ID ERPO01 as an example. Substitute this with your own system ID.

Prerequisites

Before you begin to configure this scenario, see the following guides in SAP Solution Manager under SAP Transportation Management Configuration Structures Basic Settings for SAP TM <release> :

- Basic Settings and Integration for ERP
- Basic Settings for SAP TM
- Integration of Output Management
- Basic Settings for Visual Business

Your SAP ERP system must also be configured to run the following processes:

- MM: Purchase-to-pay
 - Purchase order entry
 - Inbound delivery creation
 - Posting goods receipt
 - Logistics invoice verification

- o Invoice document creation (ERS settlement)
- o Transfer to accounting
- FI/CO
 - Supporting the processes listed above
 - o Country-specific legal requirements (such as tax calculation)

If you want to integrate SAP TM with SAP Environmental Health and Safety (EHS) Dangerous Goods Management (DGP), you must configure your SAP ERP system to run this process:

- FHS DGP
 - o Dangerous goods master
 - o Dangerous goods checks
 - o Dangerous goods documents

User Profile

Before you begin to test this scenario, you must configure user profile TM_INVOICE_CLERK in your SAP ERP system for your test user. To do so, proceed as follows:

- 1. In SAP ERP, choose System User Profile Own Data 1.
- 2. Choose the Parameters tab page.
- 3. In the Parameter ID column, enter TM INVOICE CLERK.
- 4. Save your entries.

Geography

The "Intermodal Rail Freight" scenario assumes a transportation network involving two rail carriers and one road carrier. The cargo is transported from Halilfax, Canada via rail and truck to Houston, Texas where it will be picked up by the consignee. The following organizational structures and document types are used by default, and must be changed to customer-specific organizational structures as required:

• Organizational data for the United States

Parameter	Value
Company Code	3000 (BestRun USA Inc.)
Controlling Area	3000 (CO North America)
Purchasing Organization	3000 (Purch. Org. USA)
Sales Organization	3000 (USA Philadelphia)
Distribution Channel	10 (Final Customer Sales)
Division	00 (Cross Division)

3 Overview of SAP ERP and SAP TM Master Data

The following master data is used in SAP ERP throughout this scenario. For information about how to create this data, see the following sections.

Master Data	Туре	Name	Description	Location (Country/City)	Assigned Company Code	CIF Required (SAP ERP to SAP TM)
Vendor	Business Part- ner	RF-CR-01	Joe's Trucking Inc	US/Edison	US	Yes
Vendor	Business Part- ner	RF-CR-CN	Continental Rail	CA/Montreal	US	Yes
Vendor	Business Part- ner	RF-CR-BURL	Burlington Rail- way	US/Fort Worth	US	Yes
Customer	Business Part- ner	RF-CU-01	Star Line Can- ada Inc	CA/Missis- sauga	US	Yes
Customer	Business Part- ner	RF-CU-02	Hendricks Plat- forms Inc	US/Houston	US	Yes

4 SAP ERP Master Data: Customers and Vendors

Once you have defined the master data for customers and vendors, you can transfer it from SAP ERP to SAP TM. To do so, you must complete the following procedures:

- Defining Vendor Master Data in SAP ERP [page 13]
- Defining Customer Master Data in SAP ERP [page 15]
- Transferring Master Data from SAP ERP to SAP TM [page 16]

4.1 Defining Vendor Master Data in SAP ERP

Context

In this procedure, you create vendor master data, which is then transferred to SAP TM via CIF. The corresponding locations with location type 1011 (vendor) are created in SAP TM. In this scenario, vendors represent carriers.

Procedure

- 1. On the SAP Easy Access screen for SAP ERP, choose Logistics Materials Management Purchasing Master Data Vendor Central Create or call transaction XK01.
- 2. Create the vendors assigned to purchasing organization 3000 according to the following table:

Vendor ID	Company Code	Purchasing Organization	Account Group
RF-CR-01	3000	3000	0005
RF-CR-CN	3000	3000	0005
RF-CR-BURL	3000	3000	0005

3. On the Create Vendor: Address screen, enter the following address data for each vendor:

Vendor ID	Name	Search Term	Address
RF-CR-01	Joe's Trucking Inc.	RF	79 Revere
			Boulevard, Edison,
			NJ 08820-1908,
			United States
RF-CR-CN	Continental Rail	RF	935 de La
			Gauchetière Street
			West, Montreal,
			Quebec, H3B 2M9,
			Canada
RF-CR-BURL	Burlington Railways	RF	2650 Lou Menk
			Drive, Fort Worth,
			TX 76131-2830,
			United States

- 4. On the *Create Vendor:* Accounting Information Accounting screen, enter reconciliation account **141100** and cash management group **A1** for all of the vendors.
- 5. On the *Create Vendor: Payment Transactions Accounting* screen, enter payment terms **0002** for all of the vendors.
- 6. On the Create Vendor: Purchasing Data screen, enter the following data for each vendor:

Vendor ID	RF-CR-01	RF-CR-CN	RF-CR-BURL
Order Currency	USD	CAD	USD
Terms of Payment	0002	0002	0002
Incoterms	Blank	Blank	Blank
Purchase Group	Blank	Blank	Blank
Planned Delivery Time	Blank	Blank	Blank
Conf. Control	Blank	Blank	Blank
Shipping Condition	Blank	Blank	Blank

7. Save your entries.

4.2 Defining Customer Master Data in SAP ERP

Procedure

- 1. On the SAP Easy Access screen for SAP ERP, choose Logistics Sales and Distribution Master Data Business Partner Customer Create Complete or choose transaction XD01.
- 2. On the initial screen, enter the data for the customers as shown in the following table:

Customer ID	RF-CU-01	RF-CU-02
Account Group	TM1: TM: Customer Account Group	TM1: TM: Customer Account Group
Company Code	3000	3000
Sales Organization	3000	3000
Distribution Channel	10	10
Division	00	00

- 3. Choose Continue.
- 4. On the *Address* tab page, enter the following data:

Customer ID	RF-CU-01	RF-CU-02
Name	Star Line Canada Inc.	Hendricks Platforms Inc.
Address	2576 Matheson Boulevard	700 Louisiana Street 700,
	East, Mississauga,	Houston, TX 77002, United
	Ontario, L4W 5A8, Canada	States
Time Zone	EST	CST

5. Choose Goto Sales Area Data, and enter the following information for all customers:

Tab Page	Field	Value
Sales	Price Group	01
	Cust. pric. proc.	1

Tab Page	Field	Value
Shipping	Order Combination	Select
	Shipping Conditions	01
Billing Documents	Tax Classification for all Tax Codes	0 (Tax Exempt)
	Incoterms	Blank
	Incoterm Locations	Blank
	Terms of Payment	Blank

6. Choose Goto Company Code Data and enter the following information for all of the customers:

Tab Page	Field	Value
Account Management	Reconciliation Account	145200
Payment Transactions	Terms of Payment	0001

7. Save your entries.

4.3 Transferring Master Data from SAP ERP to SAP TM

- 1. On the SAP Easy Access screen for SAP ERP, choose Logistics Central Functions Supply Chain Planning Interface Core Interface Advanced Planner and Optimizer Integration Model Create or choose transaction CFM1.
- 2. Create separate integration models for transferring vendors and customers. Take the following information into account:
 - Model name: RF-VEND (for vendors)
 - Model name: RF-CUST (for customers)
 - Use the following details for both models:
 - Use the same logical SAP TM system name (input help is available [F4]), for example, TM1CLNT001.
 - Use APO application TM, for example, APO.
 - Prefix your selection with RF* for customers and vendors.
 - In model RF-VEND, make sure that you activate the creation of business partners in the *Vendors* section by entering 1 (only create business partners) in the *Create Loc/BP* field.
 - In the model RF-CUST, make sure that you activate the creation of business partners in the *Customers* section by entering **2** (create both) in the *Create Loc/BP* field.
- 3. Execute the model.
- 4. Generate the integration model (Generate IM).

- 5. Save the model.
- 6. To activate the models, return to the SAP Easy Access screen for SAP ERP and choose Logistics Central Functions Supply Chain Planning Interface Core Interface Advanced Planner and Optimizer Integration Model Activate Advanced Planner and Optimizer Supply Chain Planning Interface Supply
- 7. Activate the two data models. In SAP ERP, use transaction SMQ1 to verify that all of the data has been transferred. In SAP TM, use transaction SMQ2 to verify that all of the data has been transferred.

i Note

 You can also create business partners for plants and shipping conditions automatically by implementing a BAdI. For more information, see SAP Note 1410353

If the same master data is included in more than one model, you can activate only one of the models at a time. Otherwise, data is not transferred correctly.

Checking Master Data Transfer

Once you have transferred the data from SAP ERP to SAP TM, check that the business partners have been created in the SAP TM system.

- 1. On the SAP Easy Access screen for SAP Transportation Management, choose Transportation

 Management Master Data Maintain Business Partner or call transaction BP.
- 2. Check that carriers RF-CR-01, RF-CR-CN, and RF-CR-BURL have been created with the business partner role *Vendor* (BBP000).
- 3. Check that customers RF-CU-01 and RF-CU-04 have been created with the business partner roles *Sold-to Party* (CRM002) and *Ship-to Party* (CRM000).

i Note

To add a new business partner role, select the relevant role from the *Display in BP role* dropdown box and then save your changes.

5 **Application Administration**

Application administration comprises the following settings and profiles:

- Configuring Carrier Selection Settings [page 18]
- Configuring Optimizer Settings [page 19]
- Configuring Planning Cost Settings [page 20]
- Configuring Capacity Selection Settings [page 21]
- Defining Selection Profiles [page 22]
- Defining Planning Profiles [page 23]

Configuring Carrier Selection Settings 5.1

Procedure

1. In SAP NetWeaver Business Client (NWBC), choose Application Administration Planning Planning Profile Settings > Carrier Selection Settings > Create Carrier Selection Settings >.

2. Create carrier selection setting RF CAR SEL001 using the following data:

Field	Value	
Carrier Selection Settings	RF_CAR_SEL001	
Description	Rail Carrier Selection	
Check Incompatibilities	Select	
Parallel Processing Profile	Blank	
Type of Carrier Selection Settings	General Carrier Selection	
Allocation Usage	Do Not Use Transportation Allocations	
BS Usage	Do Not Use Business Shares	
Strategy	Costs	
Carrier Cost Origin	Use Transportation Lane Settings	

3. In Advanced Settings area, enter the following data:

Field	Value
Planning Strategy	TSPS_DEF
Optimizer Runtime	6
Transportation Charge Interpretation	Accept Carrier with Charges of Zero as C. with Highest Costs
Action After Carrier Selection Run	Assign Best Carrier
Continuous Move Type	Use Transportation Lane Settings
Continuous Move Information	Select
Check Distance and Duration	Select
CM Cost Recalculation for TCM	No Recalculation
·	

^{4.} Save your entries.

5.2 Configuring Optimizer Settings

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose Application Administration Planning Planning Profile Settings Optimizer Settings Create Optimizer Settings
- 2. Create optimizer setting RF_OPT001 using the following data:

Field	Value	
Optimizer Settings	RF_OPT001	
Description	Rail Freight - Optimizer Settings	
Planning Strategy	VSR_DEF	
FO Building Rule	New Freight Order when Resource is Empty	
Accept Transport. Prop.	Save Route and Freight Documents	

Field	Value	
Planning Strategy for Transport. Prop.	VSR_DEF	
Max. Number of Trans Proposals	5	
Max. No. of Parallel Processes	1	
Maximum Runtime (Seconds)	20	
Max. Time Without Improvement (Sec./FU)	10.00000	
Rough Planning	Use Rough Planning Where Defined	
Consider Capacity During Optimization	Yes	
Maximum No of Transshipment Loc	6	

3. Save your entries.

5.3 Configuring Planning Costs Settings

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose Application Administration Planning Profile Settings Planning Costs Settings Create Planning Costs Settings.
- 2. In the General Data screen area, enter planning cost setting RF_PLN_COST001 and the description Rail Freight Planning Cost Settings.
- 3. In the Freight Unit Costs screen area, enter the following data:

Field	Value	
Earliness/Delay Cost Basis	Earliness/Delay Costs Defined in Planning Costs	
Costs for Non-Delivery	999,999,999	
Costs for Earliness per Day	10	
Costs for Lateness per Day	50	

4. In the *Means-of-Transport Settings* area, enter the following data:

Means of Transport	Consider Distance Costs from Planning Costs Set- tings	Consider Distance Costs from Transportation Lane	Fixed Costs
RF_TRCK	No	Yes	200
RF-TRAIN	No	No	1000
RF-TRAIN-E	No	No	1200
RF-RAILCAR	No	No	1

5. Select each means of transport in turn and on the *Means-of-Transport Settings Details* tab page, enter the following penalty costs:

Means of Transport	RF-TRUCK	RF-TRAIN	RF-TRAIN-E	RF-RAILCAR
Premature Pick-Up	1.000	1.000	1.000	1.000
Delayed Pick-Up	1.000	1.000	1.000	1.000
Premature Delivery	1.000	1.000	1.000	1.000
Delayed Delivery	1.000	1.000	1.000	1.000

^{6.} Save your entries.

5.4 Configuring Capacity Selection Settings

Context

In this procedure, you define a user-specific group of capacities that is taken into account during transportation planning.

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose Application Administration Planning Profile Settings Capacity Selection Settings Create Capacity Selection Settings.
- 2. In the *General Data* screen area, enter capacity selection setting **RF_CAP_SEL001** and the description **Rail Freight Capa. Prof**.

3. On the Vehicle Resources tab page, enter the following data:

	Attributes for Vehicle Resource Selection	Sign	Option	Lower Limit
	MTRTC0062_I	Inclusive	Pattern	RF*
٠.	On the Schedules tab page	e, enter the following row in	the table:	
	Attribute for Schedule Selection	Sign	Option	Lower Limit
	MTR	Inclusive	Pattern	RF*

^{5.} Save your entries.

5.5 Defining Selection Profiles

Use

4.

Selection profiles define how freight units are selected based on geography, pickup dates, and delivery dates.

Procedure

Defining Geographical Selection Attributes

- 1. In SAP NetWeaver Business Client (NWBC), choose Application Administration Planning Selection Profile Attributes Geographical Selection Attributes Create Geographical Selection Attributes ...
- 2. Create selection profile ${\tt RF_GEO_SEL}$ for the pre-carriage stage as follows:
- 3. In the General Data screen area, enter the following data:

Field	Value
Geographical Sel. Attributes	RF_GEO_SEL
Description	Rail Freight - Geo Selection
Both Locations	Not selected

4. On the Source Locations tab page, enter the following data:

Sign	Option	Lower Value	Upper Value
Inclusive	=	RF*	Blank

5. On the *Destination Locations* tab page, enter the following data:

Sign	Option	Lower Value	Upper Value
Inclusive	=	RF*	Blank

6. Save your entries.

Defining Selection Profiles

- 1. In SAP NetWeaver Business Client (NWBC), choose Application Administration Planning Selection Profiles Create Selection Profile.
- 2. Create selection profile RF GEN SEL001 by entering the following data:

Field	Value
Selection Profile	RF_GEN_SEL001
Description	Rail Freight - Sel Profile
Maximum Number of Selected Objects	200
Time-Related Sel. Attributes	Blank
Geographical Sel. Attributes	RF_GEO_SEL
Additional Sel. Attributes	Blank

3. Save your entries.

5.6 Defining Planning Profiles

Context

In this procedure, you define a planning profile. The planning profile contains all of the settings that are relevant for planning using the optimizer and for creating transportation proposals using the routing guide.

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose Application Administration Planning Planning Profiles Create Planning Profile .
- 2. In the *General Data* screen area of the *Planning Profile* tab page, enter planning profile **RF_AUTO_PLAN** and the description **Rail Auto Planning**.
- 3. In the *Planning Horizon* screen area, enter the following data:

Field	Value
Duration in Days	90
Offset Direction	Future
Offset in Days	0
Factory Cal. for Offs./Dur. Calc.	Blank
Round Horizon to Full Days	Select
Time Zone for Rounding the Horizon	CET

4. In the *Profile Assignments* screen area, enter the following data:

Field	Value
Selection Profile for Freight Orders	RF_GEN_SEL001
Capacity Selection Settings	RF_CAP_SEL001
Optimizer Settings	RF_OPT001
Planning Costs Settings	RF_PLN_COST001
Carrier Selection Settings	RF_CAR_SEL001

5. In the *Business Document Type* screen area, enter the following data:

Field	Value
Type Determination Rule	Defined per Category in Planning Profile
Default Type for Railcar Unit	RFRC
Default Type for Road	1000

6. In the *Manual Planning* screen area, enter the following data:

Field	Value
Manual Planning Strategy	VSRI_DEF
Consider Fixing Status	Warning When Changing Fixed Documents

7. In the Scheduling screen area, enter the following data:

Field	Value
Scheduling Strategy	VSS_DEF
Consider Freight Unit Dates	Consider Freight Unit Dates
Scheduling Direction	Forward

8. In the *Check* screen area, enter the following data:

Field	Value
Check Strategy	VSR_CHECK
Take Capacities into Account	Warning

9. In the Loading and Unloading screen area, enter the following data:

Field	Value
Dependence	Freight Unit and MTr Independent
Loading/Unloading Duration	00:30:00

^{10.} Save your entries.

5.7 Defining Layouts for the Transportation Cockpit

Use

In this procedure, you create layouts that are used to display capacities and requirements in the transportation cockpit. Layout settings are configured at user level.

Procedure

Layout RF_RAIL_STEP_1_CAR

- 1. In SAP NetWeaver Business Client (NWBC), choose Application Administration Planning General Settings Page Layouts.
- 2. Select Page Layouts for Transportation Cockpit.
- 3. Choose New.
- 4. In the Page Layout General Data section, create a new page layout: RF RAIL STEP 1 CAR.
- 5. In the Visibility Pushbutton section, select all of the checkboxes.
- 6. On the Requirements Area tab page:
 - In the Position of Screen Area field, choose **Top Left**.
 - o In the Width field, enter 50%.
 - Choose Sequence 1 Freight Unit Stages and select the Display checkbox.
 - Select Sequence 1 Freight Unit Stages and ensure that the checkboxes for Set OI Status for FUs (confirm, reject, and set to confirm with deviations) are selected.
- 7. On the Resources Area tab page:
 - o In the Position of Screen Area field, choose Top Right
 - o In the Width field, enter 50%.
 - Choose Sequence 2 Schedules and select the Display checkbox.
 - Choose Sequence 4 Locomotives and select the Display checkbox.
 - Choose Sequence 5- Vehicles and select the Display checkbox.
 - Choose Sequence 6 Railcars and select the Display checkbox.
 - Deselect the Display checkboxes for the other rows (Driver and Trailers).
- 8. On the Transportation Units Area tab page:
 - 1. In the Position of Container field, enter Middle Left.
 - 2. In the Width field, enter 100%.
 - 3. Choose Sequence 1 Railcar Unit Hierarchy and select the Display checkbox.
- 9. Save your profile.

Layout RF_RAIL_STEP_2_ORDER

- 1. In SAP NetWeaver Business Client (NWBC), choose Application Administration Planning General Settings Page Layouts.
- 2. Select Page Layouts for Transportation Cockpit.
- 3. Choose New.
- 4. In the Page Layout General Data section, create a new page layout: RF RAIL STEP 2 ORDER.
- 5. In the Visibility Pushbutton section, select all checkboxes.
- 6. On the Transportation Units Area tab page:
 - In the Position of Container field, enter Top Left.
 - In the Width field, enter 100%.
 - Choose Sequence 1 Railcar Unit Hierarchy and select the Display checkbox.
- 7. On the Orders Area tab page:
 - In the Position of Screen Area field, enter Bottom Left.
 - o In the Width field, enter 50%.

- Choose Sequence 1 Freight Orders/Freight Bookings and select the Display checkbox.
- Choose Sequence 8 Rail Freight Order and select the Display checkbox.
- Choose Sequence 9 Rail Freight Order Hierarchy and select the Display checkbox.
- 8. On the Order Details Area tab page:
 - o In the Position of Screen Area field, enter Bottom Right.
 - In the Width field, enter 50%.
 - Choose Sequence 1 Overview and select the Display checkbox.
 - Choose Sequence 2 Stages and select the Display checkbox.
 - Choose Sequence 4 Allocation and select the Display checkbox.
 - Choose Sequence 5 Charges and select the Display checkbox.
 - Choose Sequence 10 Cargo Management and select the Display checkbox.
 - Choose Sequence 11 Loadplan and select the Display checkbox.
 - Choose Sequence 12 Utilization and select the Display checkbox.
 - Choose Sequence 13 Equipment and select the Display checkbox.
- 9. Save your profile.

6 Customizing Settings in SAP Transportation Management

You customize SAP TM to define and set up freight management. Customizing includes the following procedures:

- Defining Freight Unit Types [page 28]
- Creating Freight Unit Building Rules [page 31]
- Defining Equipment Groups and Equipment Types [page 33]
- Defining Movement Types [page 35]
- Defining Stage Type Sequences for Movement Types [page 36]
- Defining Default Agreement Party Roles for Stages [page 37]
- Defining Freight Order Types [page 39]
- Defining Freight Settlement Document Types [page 38]
- Defining Forwarding Settlement Document Types [page 39]

6.1 Defining Freight Unit Types

Procedure

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Planning Freight Unit Define Freight Unit Types .
- 2. Select an existing freight unit type and copy it to your own freight unit type RFFU.
- 3. Enter the following data:

Field	Value
Freight Unit Type	RFFU
Description	Rail Freight Unit

- 4. In the Basic Settings screen area, select the Freight Unit Can Be Deleted checkbox.
- 5. In the *Number Range Settings* screen area, enter the following data:

Field	Value	
Time for Drawing	Draw Numbers Immediately	_
Number Range Interval	FU	_

- 6. In the Change Controller Settings screen area, enter default change strategy NO ACTION.
- 7. In the *Execution Settings* screen area, enter the following data:

Field	Value
Execution Tracking Relevance	Execution Tracking with External Event Management
Display Mode for Execution Tab	Actual Events from TM and EM, Expected Events from EM
Execution Propagation Mode	Standard Propagation
Immediate Processing	Select

8. In the Event Management Settings screen area, enter the following data:

Field	Value
Application Object Type	ODT30_FU
Last Expected Event	UNLOAD_END

- 9. In the *Direct Shipment Options* screen area, enter the direct shipment option type *No Determination of Direct Shipment Options*.
- 10. In the Freight Order Determination screen area, leave the freight order type blank.
- 11. In the Additional Settings screen area, enter the following data:

Field	Value
Rule for PU/DLV Window Determination	A Earliest Pick-Up at Req. Day/ Latest Delivery at Req. Day
BW Relevance	Not selected
Track Changes	Select
Archiving Rentention Period in Days	100
Web Dynpro Application Conf.	/SCMTMS/FRE_UNIT

- 12. In the Determination Rules screen area, deselect the Consider Organization of User checkbox.
- 13. Press Enter.
- 14. Save your entries.

6.2 Defining Transportation Unit Types

Procedure

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Planning Transportation Unit Define Transportation Unit Types .
- 2. Choose the New Entries pushbutton.
- 3. In the header area, enter the following data:

Field	Value
Transportation Unit Type	RFRC
Description	Railcar
Transportation Unit Category	Railcar Unit

- 4. In the Basic Settings screen area, select Can Be Deleted from the Doc. Can Be Deleted dropdown list.
- 5. In the *Number Range Settings* screen area, set the time for drawing to *Draw Number When Saving Document* and enter the number range interval **TR**.
- 6. In the Execution Settings screen area, enter the following data:

m EM

7. In the *Event Management Settings* screen area, enter the following data:

Field	Value
Application Object Type	RES30_RESOURCE
Last Exp. Event	Blank

8. In the Output Options screen area, enter the following data:

Field	Value
Output Profile	/SCMTMS/TOR
Add. Output Profile	/SCMTMS/TOR_PRINT_ROAD
Test Schema	Blank
Default Test Type	Blank

- 9. In the *Organizational Unit Determination* screen area, enter the internal number of RF_EORG_01 as the execution organization and select the *Consider Organization Unit of User* checkbox.
- 10. In the *Additional Settings* screen area, select the *Track Changes* checkbox and leave the *Check Level Exec.* and *BW Relevance* checkboxes deselected.
- 11. Enter the archiving retention period as **o** days.
- 12. Enter the Web dynpro application configuration as /SCMTMS/TU RAILCAR.
- 13. In the *Default MTr Determination* screen area, set the transportation mode to **02**.
- 14. Press Enter.
- 15. Select *Allowed Item Types* from the navigation structure.
- 16. Enter the following data:

Item Type	Item Cat.	DefItmTy	Item Type Description
MRCN	PVR Passive Vehicle Resource	Not selected	Multi Railcar (No Expansion)
MRFC	PVR Passive Vehicle Resource	Not selected	Multi Railcars
MURC	PVR Passive Vehicle Resource	Not selected	Multi Railcar
SIRC	PVR Passive Vehicle Resource	Select	Single Railcar

^{17.} Save your entries.

6.3 Creating Freight Unit Building Rules

Prerequisites

You have defined a freight unit type.

Context

Freight unit building rules (FUB rules) define how the system creates freight units based on the forwarding order. FUB rules also specify the dimensions that are transferred from the forwarding order to the freight unit as capacity requirements for planning. If there is more than one freight unit building rule, you can define a condition that determines the appropriate freight unit building rule.

In this scenario, you require only one freight unit building rule: RF-FUB-01.

Procedure

- 1. In SAP NetWeaver Business Client, choose Application Administration Planning General Settings Freight Unit Building Rule Create Freight Unit Building Rule.
- 2. On the General Data tab page, enter the following data:

Field	Value
Freight Unit Building Rule	RF-FUB-01
Description	Rail Freight Unit Building Rule
Freight Unit Building Strategy	Consolidate as much as possible
Critical Quantity	Gross Weight
Item Split Allowed	Select
Document Type	RFFU
	Enter the freight unit type that you created in Defining Freight Unit Types [page 28].

3. In the Planning Quantifies table, enter the following data:

Planning Quantity for Freight Unit Building	Unit of Measure of Split Quantity	Split Quantity	Rounding Quantity	
Gross Weight	то	20	Blank	

4. Choose the *Advanced Settings* tab page and enter the following data:

Field	Value
Doc. Type Det. Cnd	Blank

Field	Value		
Process Controller Strategy	FUB_AUTO		

5. Save your entries.

6.4 Defining Equipment Groups and Equipment Types

Procedure

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Master Data

 Resources Define Equipment Groups and Equipment Types ...
- 2. Double-click the *Vehicle Groups* folder.
- 3. If the equipment groups below do not already exist, create them by choosing the *New Entries* pushbutton.

Equipment Group	Description	Resource Class
A	Equipped box cars	4 Railcar
В	Unequipped box cars	4 Railcar
С	Covered hopper cars	4 Railcar
E	Equipped gondola	4 Railcar
F	Flatcar	4 Railcar
G	Unequipped gondola	4 Railcar
Н	Unequipped Hopper	4 Railcar
J	Gondola car	4 Railcar
К	Equipped hopper cars	4 Railcar
L	Special type cars	4 Railcar
LOC	Locomotive	3 Locomotive
Р	Conventional intermodal cars	4 Railcar

Equipment Group	Description	Resource Class
Q	Lighter weight, Low-profile intermodal c	4 Railcar
R	Refrigerator cars	4 Railcar
S	Stack car	4 Railcar
Т	Tank cars	4 Railcar

- 4. Select equipment group F and double-click the Vehicle Types folder.
- 5. Choose the New Entries pushbutton.
- 6. In the header area, enter equipment type F077 and description Flat Car COFC/TOFC.
- 7. In the General screen area, enter means of transport **RF-RAILCAR**.
- 8. In the Capacity screen area, enter the following data:

Field	Value
Payload Weight	159,900
UoM	LB
Internal Length	89
UoM	FT

9. In the Physical Properties screen area, enter the following data:

Field	Value
Tare Weight	60,100
UoM	LB
Max. Gross Weight	220,000
UoM	LB
Max. Length	92
UoM	FT
Number of Axles	4

- 10. Save your entries.
- 11. Select equipment group S and double-click the *Vehicle Types* folder.
- 12. Choose the New Entries pushbutton.

- 13. In the header area, enter equipment type **s615 CP-527000** and description **Double-stack car**.
- 14. In the *General* screen area, enter means of transport **RF-RAILCAR**.
- 15. In the Capacity screen area, enter the following data:

Field	Value
Payload Weight	169,100
UoM	LB
Internal Length	53.1
UoM	FT

16. In the Physical Properties screen area, enter the following data:

Field	Value
Tare Weight	50,400
UoM	LB
Max. Gross Weight	220,000
UoM	LB
Max. Length	76.1
UoM	FT
Number of Axles	4

17. Save your entries.

6.5 Defining Movement Types

Procedure

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Forwarding
 Order Management Define Movement Types .
- 2. Create movement type RR (ramp to ramp) with the following data:

Mov. Type	Description	Src. Loc.	Dest. Loc.
RR	Rail ramp to ramp	Not selected	Not selected

3. Save your entries.

6.6 Defining Stage Type Sequences for Movement Types

Context

In this procedure, you specify the stage types that are allowed for a specific movement type as well as their sequence. The system checks that the sequence of stage types is correct as determined by the corresponding stage category.

Procedure

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Forwarding
 Order Management Define Stage Type Sequence for Movement Types .
- 2. Enter the following data:

Mov. Type	Seq. No.	Stage Type	StageTpeOCC	StageProp.	Det. Rule	Set. Rule
RR	3	03	CN - Stage type can occur in any number	Select	4 Always Relevant for Planning	Not Relevant for Internal Settlement

3. Save your entries.

6.7 Defining Default Agreement Party Roles for Stages

Context

In the standard Customizing settings for Incoterms FOB (free on board) and DDP (delivered duty paid), only the three main stages are defined.

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Forwarding
 Order Management Define Default Agreement Roles for Stages.
- 2. Enter the following data:

Incoterm	Stage Type	Agmt Role
FOB	Pickup	Prepaid Agreement Party
FOB	Pre-Carriage	Prepaid Agreement Party
FOB	Main Carriage	Collect Agreement Party
FOB	On-Carriage	Collect Agreement Party
FOB	Delivery	Collect Agreement Party
DDP	Pickup	Prepaid Agreement Party
DDP	Pre-Carriage	Prepaid Agreement Party
DDP	Main Carriage	Prepaid Agreement Party
DDP	On-Carriage	Prepaid Agreement Party
DDP	Delivery	Prepaid Agreement Party
EXW	Pickup	Collect Agreement Party
EXW	Pre-Carriage	Collect Agreement Party
EXW	Main Carriage	Collect Agreement Party

Incoterm	Stage Type	Agmt Role
EXW	On-Carriage	Collect Agreement Party
EXW	Delivery	Collect Agreement Party

3. Save your entries.

6.8 Defining Freight Settlement Document Types

Procedure

- 1. In Customizing for *Transportation Management*, choose Settlement Freight Settlement Document Types .
- 2. Create the following freight settlement document types:

FSD Type	RF01	RFIS
Description	Rail Freight: Carrier Settlement Document	Rail Freight: Interline Settlement
FSD Category	10	10
Track Changes	Select	Select
Bus. Warehouse	Select	Select
Enable Cost Distribution	Select	Select
Number Range Interval	01	01
Output Profile	/SCMTMS/TOR_INV_PREP	/SCMTMS/TOR_INV_PREP
Add. Output Profile	/SCMTMS/SFIR_PRINT	/SCMTMS/SFIR_PRINT
Dynamic Determination of Output Profile	Deselect	Deselect

3. Save your entries.

6.9 Defining Forwarding Settlement Document Types

Procedure

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Settlement Forwarding Settlement Document Types.
- 2. Enter the following data:

Field	Value
FWSD Type	RF01
Description	Rail Freight: Forw. Settl. Document
FWSD Category	10 Forwarding Settlement Document
Track Changes	Select
BW Relevance	Select
Number Range Interval	01
Output Profile	/SCMTMS/CFIR
Add. Output Profile	/SCMTMS/CFIR_PRINT
Dynamic Determination of Output Profile	Deselect

3. Save your entries.

6.10 Defining Freight Order Types

Use

In this procedure, you define new freight order types that contain an enhanced save strategy. The internal freight order type is used by Continental Rail for internal operations.

Procedure

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Freight Order Management Freight Order Types.
- 2. Create the following freight order types:
 - 1. In the header area, enter the following data:

Field	Freight Order 1	Freight Order 2
Freight Order Type	RFIN	RFSC
Description	Rail Freight with Internal Processing	Rail Freight with Subcontracting

2. In the Basic Settings screen area, enter the following data:

Field	RFIN	RFSC
Freight Order Can Be Subcontracted	02 Not Relevant for Subcontracting	01 Relevant for Subcontracting
Shipper/Consignee Determination	P Determination Based on Predecessor Documents	P Determination Based on Predecessor Documents
Freight Order Can Be Deleted	Select	Select
Enable Charge Calculation	Select	Select
Enable Cost Distribution	Select	Select
Enable Internal Charge Calculation	Select	Select
Enable Internal Settlement	Select	Select
Enable Settlement	Select	Select
Enable Internal Cost Distribution	Select	Select
Sequence Type of Stops	01 Defined and Linear	01 Defined and Linear
Event Profile	RFIN	RFSC

3. In the *Number Range Settings* screen area, enter the following data:

Field	RFIN	RFSC
Time for Drawing	S Draw Number When Saving the Document	S Draw Number When Saving the Document
Number Range Interval	FO	FO

4. In the Change Controller Settings screen area, enter the following data:

Field	RFIN	RFSC
Default Change Strategy	DEF_CHACO	DEF_CHACO

5. In the Execution Settings screen area, enter the following data:

Field	RFIN	RFSC
Execution Tr. Relev.	3 Execution Tracking with External Event Management	3 Execution Tracking with External Event Management
Display Mode of Execution Tab	Actual Events from TM and EM, Expected Events from EM	Actual Events from TM and EM, Expected Events from EM
Immediate Processing	Select	Select
Propagate Execution Info	Select	Select
Execution Propagation Mode	Standard Propagation	Standard Propagation

6. In the *Event Management Settings* screen area, enter the following data:

Field	RFIN	RFSC
Application Object Type	ODT30_TO	ODT30_TO
Last Exp. Event	UNLOAD_END	UNLOAD_END

7. In the Additional Settings screen area, enter the following data:

Field	RFIN	RFSC
Document Creation Relevance	No Shipment Creation in ERP	No Shipment Creation in ERP
BW Relevance	Select	Select
Track Changes	Select	Select

Field	RFIN	RFSC
Residence Period	100	100
Web Dynpro Application Config.	/SCMTMS/FRE_ORDER_RAIL	/SCMTMS/FRE_ORDER_RAIL

8. In the Charge Calculation and Settlement Document Settings screen area, enter the following data:

Field	RFIN	RFSC
Default FSD Type	RF01 Rail Carrier Settlement Document	RF01 Rail Carrier Settlement Document

9. In the *Default MTr Determination* screen area, enter the following data:

Field	RFIN	RFSC
Default MTr for Type	RF_TRAIN	RF-TRAIN-E
Transportation Mode	02	02

10. In the *Default Units of Measure* screen area, enter the following data:

	(Cubic foot)	(Cubic foot)
Volume	FT	FT
	(U.S. pound)	(U.S. pound)
Weight	LB	LB
Field	RFIN	RFSC

11. In the Organizational Unit Determination screen area, enter the following data:

Field	RFIN	RFSC
Purchasing Org.	RF_PORG-01	RF_PORG-01
Purchasing Group	Blank	Blank

12. In the *Output Options* screen area, enter the following data:

Field	RFIN	RFSC
Output Profile	/SCMTMS/TOR	/SCMTMS/TOR

Field	RFIN	RFSC
Add. Output Profile	/SCMTMS/TOR_PRINT_ROAD	/SCMTMS/TOR_PRINT_ROAD

13. Save your entries.

i Note

If necessary, return to the section Defining Planning Profiles [page 23] to continue.

7 Order Management

Order management involves defining forwarding and freight orders and completing any supporting documentation. The following processes are involved:

- Defining Forwarding Order Types [page 44]
 This procedure specifies types of forwarding orders. Forwarding order types define certain parameters for the forwarding order that affect how the system processes the business document.
- Defining Item Types for Forwarding Order Management [page 47]
- Assigning Item Types to Forwarding Order Types [page 48]
 You use this procedure to assign an item type to a forwarding order type.
- Defining Commodity Codes [page 49]

7.1 Defining Forwarding Order Types

Context

In this procedure, you specify types of forwarding orders. Forwarding order types define parameters for the forwarding order that affect how the system processes the business document. For example, the forwarding order type can determine the number range interval that is used to generate the number of the forwarding order, or it can define whether freight units are created automatically when you save the forwarding order.

You can also assign profiles (such as a planning profile or dangerous goods profile) that determine how follow-up steps such as planning and dangerous goods checks are performed. You can select and assign the types that you have defined in this procedure on the user interface of the forwarding order in SAP NetWeaver Business Client. You can also specify a default forwarding order type that is used when the forwarding order is created automatically based on electronic data interchange (EDI).

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Forwarding Order Management Forwarding Order Define Forwarding Order Types .
- 2. Choose the New Entries pushbutton and create the following entries:

o In the header area, enter the following data:

Field	Value
Forwarding Order Type	RF0I
Short Description	Rail Intermodal

o In the *Number Range Settings* area, enter the following data:

Field	Value
Number Range Interval	01
Template No. Range Interval	02

o In the Process Control / Business Object Mode area, enter the following data:

Field	Value
BW Relevance	Select
Enable Approval Workflow	Select
Transportation Mode	02
Automatic Freight Unit Building	Select
Shipping Type	30
Stage Determination	Stage Determination by Movement Type

 $\circ \quad \text{In the \it Charge \it Calculation and \it Settlement\it \, Document\it \, Settlings\it \, area, enter the following\it \, data:}$

Field	Value
Automatic Charge Calculation	Select
Enable Charge Calculation	Select
Enable Internal Charge Calculation	Select
EM Integration Active	Select
Dangerous Goods Profile	RF_DG_01
Default FWSD Type	RF01
Enable Forwarding Settlement	Select

Field	Value
Default Conf. Type	O - Order-Based Confirmation

 $\circ\quad$ Enter the following event manager values:

Field	Value
Event Profile	RF0I
Output Profile	/SCMTMS/TRQ_FWO
Additional Output Profile	/SCMTMS/TRQ_FWO_PRINT
Accept Transp. Prop.	Save Route Only
Propagate Changes	B - Synchronous Propagation of Changes, Fallback to Asynchronous
Customs Handling	Automatic
Event Manager	<pre><logical event="" management="" name="" of="" sap="" system=""></logical></pre>
Enable Instructions	Select
Retention Period	Blank
Accept Transp. Prop.	R

o In the *Default Values* area, enter the following data:

Field	Value
Default Weight UoM	KG
Default Volume UoM	м3
Default Pieces UoM	PC
Freight Unit Building Rule Condition	RF-FUB-01
Planning Profile	RF_AUTO_PLAN

o In the *Organizational Unit Determination* area, enter the following data:

Field	Value
Sales Organization	RF-SORG-1

3. Save your entries.

7.2 Defining Item Types for Forwarding Order Management

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Forwarding Order Management Define Item Types for Forwarding Order Management.
- 2. Create the following items types:

Value
RC
Railcar
PVR Passive Vehicle Resource
FWOITEM
RF_DG_UI_02
TO
мз
PC

- 3. Save your entries.
- 4. Go back and repeat the steps for the following item type:

Field	Value
Item Type	SRV

Field	Value
Item Type Descr.	Service
Item Category	SRV Service
Text Schema	FWOITEM

5. Save your entries.

7.3 Assigning Item Types to Forwarding Order Types

Context

In this procedure, you assign an item type to the forwarding order (FWO) type. Once the assignment has been made, the item type can be used in any forwarding order of type RFOI.

Procedure

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Forwarding Order Management Forwarding Order Assign Item Types to Forwarding Order Types .
- 2. Enter the following data:

FWO Type	RF0I	RF0I	RF0I	RF0I	RF0I
Item Type	CN	PKG	PRD	RC	SRV
Default Item Type	Select	Select	Select	Select	Select
Item Category	Container	Package	Product	Passive Vehicle Resource	Service
Instruction Set	Blank	Blank	Blank	Blank	Blank

3. Save your entries.

7.4 Defining Commodity Codes

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Master Data

 Classification of Goods Define Commodity Types

 .
- 2. Choose the New Entries pushbutton.
- 3. Enter the following data:

Code Type	Description	Maximum Length of Commodity code
ST	STCC	Blank

- 4. Select the Commodity Codes folder from the navigation structure.
- 5. Choose the New Entries pushbutton.
- 6. Enter the following data:

Commodity Code	Description
2819604	ALUMINUM PHOSPHIDE

8 Creation of Organizational Model

SAP Transportation Management uses HR functions from the organizational model to create and maintain organizational units. The organizational model can be used to model your sales organization, purchasing organization, and transportation execution organization.

You use the organizational model to assign the responsible organizational units to transportation documents such as a freight request, freight order, and so on. Each order must be assigned to an organizational unit so that the costs and profits generated by the order can be allocated to a business unit. This is also necessary for profit analysis of the various groups and organizations associated with the logistics service provider (LSP). The organizational model supports you when analyzing the costs that your company incurs for various LSPs, routes, customers, and so on, and therefore enables you to improve your demand forecasting.

You have to maintain the organizational model in SAP TM since it is not transferred from the organizational units in SAP ERP.

Creating the organizational model involves the following operations:

- Creating Companies [page 50]
 SAP ERP contains one company representing the U.S. organization. In SAP TM, this company also has to be created.
- Creating Organizational Structures [page 51]

8.1 Creating Companies

Use

SAP ERP contains one company representing the Canadian organization. In SAP TM, this company also has to be created.

Procedure

Creating the Canadian Company

- 1. In SAP NetWeaver Business Client, choose Master Data Organization Create Organization and Staffing .
- 2. In the dialog box, set the validity period from <current year>-01-01 to 9999-12-31 and choose
- 3. On the Basic Data tab page, in the Organizational Unit fields, enter RF-COMP-CA and the description Railway Company Code CA.
- 4. On the Org. Data tab page, choose Create.

- 5. Overwrite the organizational ID with **RF-COMP-CA**.
- 6. As the Organizational Unit Function, enter 24 and as the Organizational Unit Role, enter 1.
- 7. Enter the currency **CAD** and select *Intra Comp. Settlement*.
- 8. Choose the Address tab page and enter the address as 935 de La Gauchetière Street West, Montreal, Quebec, H3B 2M9, Canada.
- 9. Save your entries.

Creating Organizational Structures 8.2

Use

SAP ERP contains one company representing the Canadian organization. In SAP TM, this company also has to be created.

Procedure

Creating the Canadian Sales Organization

- 1. In SAP NetWeaver Business Client, choose Master Data Organization Create Organization and
- 2. Select the line Railway Company Code CA and choose Create.
- 3. From the popup window, choose Is line supervisor of.
- 4. On the Basic Data tab page, in the Organizational Unit fields, enter RF-sorg-1 and the description Railway Sales Organization CA 1.
- 5. In the dialog box, set the validity period from <current year>-01-01 to 9999-12-31 and press ENTER.
- 6. On the Org. Data tab page, choose Create.
- 7. Overwrite the organizational ID with **RF-sorg-1**.
- 8. As the Organizational Unit Function, enter 4 and as the Organizational Unit Role, enter 1
- 9. Choose the Address tab page and enter the street de La Gauchetière Street West, house no. 935, city Montreal, postal code H3B 2M9 region QC, and country CA.
- 10. Save your entries.

Creating the Canadian Purchasing Organization

- 1. Select the line Railway Company Code CA and choose Create.
- 2. From the popup window, choose Is line supervisor of.
- 3. On the Basic Data tab page, in the Organizational Unit fields, enter RF-PORG-1 and the description Railway Purchasing Organization CA 1.
- 4. In the dialog box, set the validity period from <current year>-01-01 to 9999-12-31 and press ENTER.
- 5. On the Org. Data tab page, choose Create.
- 6. Overwrite the organizational ID with **RF-PORG-1**.

- 7. As the Organizational Unit Function, enter 2 and as the Organizational Unit Role, enter 1.
- 8. Choose the Address tab page and enter the street de La Gauchetière Street West, house no. 935, city Montreal, postal code H3B 2M9, region QC, and country CA.
- 9. Save your entries.

Creating the Canadian Planning & Execution Organization

- 1. Select the line Railway Company Code CA and choose Create.
- 2. From the popup window, choose Is line supervisor of.
- 3. On the Basic Data tab page, in the Organizational Unit fields, enter RF_EORG_01 and the description Railway Execution Organization CA 1.
- 4. In the dialog box, set the validity period from <current year>-01-01 to 9999-12-31 and press ENTER.
- 5. On the Org. Data tab page, choose Create.
- 6. Overwrite the organizational ID with **RF EORG 01**.
- 7. As the Organizational Unit Function, enter 13 and as the Organizational Unit Role, enter 1.
- 8. Choose the Address tab page and enter the street de La Gauchetière Street West, house no. 935, city Montreal, postal code H3B 2M9, region QC, and country CA.
- 9. Save your entries.

i Note

You will require the internal organizational ID later in the configuration process. To view the internal ID, adjust the column configuration on the *Organization and Staffing* screen (choose the *Column Configuration* pushbutton at the top right of the menu). Select *ID* and confirm your selection. Take a note of the ID.

i Note

If required, create sales, purchasing, and planning & execution offices and groups within the structure.

9 Setup of Transportation Network

Setting up the transportation network involves the following procedures, which are carried out in the SAP Transportation Management system:

- Defining Locations [page 53]
- Defining Transshipment Locations [page 55]
- Defining Means of Transport [page 56]
- Defining Transportation Lanes [page 57]
- Defining Schedule Types [page 58]
- Defining Train Schedules [page 59]
- Defining Truck Schedules [page 66]
- Defining Default Routes [page 68]

9.1 Defining Locations

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Transportation Network Locations

 Define Location
- 2. Create locations for container freight stations using the following data:

Location	RF_12605	RF_41978	RF_55989	RF_66001	RF_35100	RF_626200
Description	Halterm Halifax	Toronto Cargoflo	Chicago Heights Yard	Chicago IM EX	Houston	Oklahoma City
Name	Halterm Halifax	Toronto Cargoflo	Chicago Heights Yard	Chicago IM	Houston	Oklahoma City
Location Type	1130	1130	1130	1130	1130	1130
Time Zone	AST	EST	CST	CST	CST	CST
Search Term	RF	RF	RF	RF	RF	RF

Location	RF_12605	RF_41978	RF_55989	RF_66001	RF_35100	RF_626200
Address	577 Marginal Rd, Halifax, B3H 4P6	169 Doney Crescent, Concord, L4K 3P1	60411 State St, Chicago Heights, 60411	4519 S. Drake Ave, Chicago, 60632	5507 Beekman Rd, Houston, 77021	800 Pole Rd, Oklahoma City, 73149
Country	CA	CA	US	US	US	US
Region	NS (Nova Scotia)	ON (Ontario)	US IL (Illinois)	US IL (Illinois)	TX (Texas)	US OK (Oklahoma)

3. For each location, check the geocoordinates as follows:

Location	Longitude	Latitude
RF-12605	- 63: 34: 06	+ 44: 37: 48
RF-41978	- 79: 30: 12	+ 43: 47: 41
RF-55989	- 87: 36: 17	+ 41: 29: 57
RF-66001	- 87: 42: 45	+ 41: 48: 41
RF-35100	- 95: 19: 48	+ 29: 41: 58
RF-626200	- 97: 29: 13	+ 35: 23: 26

i Note

If required, you can change the precision code.

4. Save your entries.

9.2 Defining Transshipment Locations

Context

At a transshipment location, goods are unloaded from one vehicle resource and loaded onto another vehicle resource. Transshipment locations are used when the transportation process involves different means of transport. They are also used when the goods to be transported have to be consolidated or deconsolidated.

The "Intermodal Rail Freight" scenario uses stations as transshipment locations.

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Transportation Network Locations

 Assign Transshipment Location

 **In SAP NetWeaver Business Client (NWBC), choose Master Data Transportation Network Locations

 Locations
- 2. Select the Locations radio button.
- 3. In the Location Selection screen area, enter RF 12605 in the Location field.
- 4. In the Transshipment Location Selection area, enter RF 41978 in the Location field.
- 5. Choose the Create/Update Assignments pushbutton to apply the assignment.

The system issues a message confirming that the transshipment location assignments have been created or updated.

 $6. \ \ Repeat the process to assign the following locations and transshipment locations:$

Locations Selection	Transshipment Locations Selection	Duration (Hours)
RF_12605 (Halifax)	RF_41978 (Toronto)	20
RF_41978 (Toronto)	RF_55989 (Chicago 1)	11
RF_55989 (Chicago 1)	RF_66001 (Chicago 2)	1
RF_66001 (Chicago 2)	RF_35100 (Houston)	20

9.3 Defining Means of Transport

Use

The information in this section may have already been completed automatically based on the settings you configured in Defining Freight Order Types [page 39].

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Master Data

 Resources Define Means of Transport**

 .
- 2. Check that the following means of transport exist in the system and create any that are missing:

Means of Transport	RF-RAILCAR	RF-SHORT	RF-SHORT-E	RF-TRAIN	RF-TRAIN-E	RF-TRUCK	RF-TRUCK-S
MTr Description	Railcar	Rail short	Rail short line - external	Scheduled train	Scheduled train - external	Truck	Truck (scheduled
Standard Code	072	072	072	072	072	031	031
Transp. Mode	02 RAIL	02 RAIL	02 RAIL	02 RAIL	02 RAIL	01 ROAD	01 ROAD
Resource Class	4 - Railcar	3 - Locomotive	3 - Locomotive	3 - Locomotive	3 - Locomotive	1 - Truck	1 - Truck
Low Speed	Blank	20	20	30	30	60	60
Medium Speed	Blank	40	40	100	100	80	80
High Speed	Blank	60	60	140	140	100	100
Average Speed	100	40	40	100	100	80	80
Passive	Select	Blank	Blank	Blank	Blank	Blank	Blank
Distance Factor	Blank	1	1	1	1	1	1
Schedule MTr	Blank	Blank	Blank	Select	Select	Blank	Select

Your Own MTr	Blank	Select	Blank	Select	Blank	Blank	Blank
No Capacity	Blank	Blank	Blank	Select	Select	Blank	Blank
Multiresourc e	Blank	Blank	Blank	Blank	Blank	Select	Select
GIS Quality	Blank	Blank	Blank	Blank	Blank	Select	Select

i Note

You must have established a connection to a GIS provider before you can select the GIS Quality checkbox.

9.4 Defining Transportation Lanes

Transportation Lane for Truck

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Transportation Network Transportation Lanes Define Transportation Lane
- 2. On the *Tr. Lane* tab page, enter **RF-55989** in the *Start Location/Zone* field and **RF-66001** in the *Dest. Loc./Zone* field.
- 3. Choose the *Create* pushbutton. The *Create RF-55989* -> *RF-66001* screen appears.
- 4. In the *Means of Transport* area, choose and enter the following data:

Field	Value
Means of Transport	RF_TRUCK
Start Date	<pre><current year="">-01-01</current></pre>
End Date	9999-12-31
Transportation Costs	1.00 per MI
Means of Transport Costs	200
Relevant to Carrier Selection	Select
Priority/Costs	X Neither Costs Nor Priority
Cost Origin	I Internal Costs

Field	Value
Continuous Movement Type	No Continuous Move

- 5. Choose **♥**.
- 6. When prompted to create a transportation proposal, choose Yes.
- 7. In the *Carrier* area, choose and enter the following data:

Business Partner	Transportation Costs	Priority
RF-CR-01	1 per M I	1

- 8. Choose

 ✓.
- 9. Save your entries.

9.5 Defining Schedule Types

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Transportation Network Schedule Create Schedule .
- 2. Choose the New Entries pushbutton and create the following schedules:

Туре	RF0I	RF0S	RFOT
Description	RF: Rail Schedule Internal	RF: Rail Schedule Interline	RF: Scheduled Truck
Default Type	Select	Not selected	Not selected
Transp. Mode	02	02	01
Header Number Range	02	02	02
Voyage Number Range	01	01	01
Offset Time Type	A Absolute	A Absolute	R Relative
Gateway	Not selected	Not selected	Not selected

Direct	Not selected	Not selected	Not selected
Document Type	RFIN	RFSC	RFSC
Allocation Type	3000	3000	1000
Template	Select	Select	Select
One Order	Not selected	Not selected	Not selected
Use Capacities	Select	Select	Select
Use Transp. Costs	Select	Select	Select
WD Appl. Config.	Blank	Blank	Blank

3. Save your entries.

9.6 Defining Train Schedules

Schedule RF-12605-41978 (Halifax - Toronto)

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Transportation Network Schedule Create Schedule .
- 2. Enter schedule type **RF0I** and choose the *Continue* pushbutton.
- 3. Enter the following data:

Field	Value
Schedule Description	RF_12605-41978 (Halifax - Toronto)
Valid From	<pre><current year="">-01-01</current></pre>
Valid To	<next year="">-12-31</next>
Shipping Type	30 - Intermodal
Transportation Mode	02 - Rail
Means of Transport	RF-TRAIN
Carrier	RF-CR-CN
Weight	8,000 TO

Field	Value
Quantity	400 teu

4. Create a standard stop sequence by adding the following locations (choose the *Create* pushbutton to add line to the table):

Field	Value	Value
Sequence	10	20
Location	RF_12605	RF_41978
Cargo Cut Off (Offset in Days)	0	Blank
Cargo Cut-Off Time	04:00:00	Blank
Transit Duration (Hours)	9	Blank
Transit Duration (Minutes)	0	Blank
Days to Availability	Blank	0
Availability Time	Blank	0

5. Create departures by adding the following departure rule in the *Departure Rules* screen area (choose the *Create* pushbutton to add an entry):

Field	Value
First Day of Validity	<pre><current year="">-<current month="">-01</current></current></pre>
Last Day of Validity	<next year="">-12-31</next>
Departure Days	Monday, Tuesday, Wednesday, Thursday, Friday
Departure Time	11:30:00
Time Zone	AST

^{6.} Select the departure rule and choose *Generate Departures*. Departures are automatically added to the *Departures* tab page.

^{7.} Save your entries.

Schedule RF-41978-55989 (Toronto - Chicago)

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Transportation Network Schedule Create Schedule .
- 2. Enter schedule type **RF01** and choose the *Continue* pushbutton.
- 3. Enter the following data:

Field	Value
Schedule Description	RF_41978-55989 (Toronto - Chicago)
Valid From	<pre><current year="">-01-01</current></pre>
Valid To	<next year="">-12-31</next>
Shipping Type	30 - Intermodal
Transportation Mode	02 - Rail
Means of Transport	RF-TRAIN
Carrier	RF-CR-CN
Weight	8,000 TO
Quantity	400 teu

4. Create a standard stop sequence by adding the following locations (choose the *Create* pushbutton to add line to the table):

Field	Value	Value
Sequence	10	20
Location	RF_41978	RF_55989
Cargo Cut Off (Offset in Days)	0	Blank
Cargo Cut-Off Time	04:00:00	Blank
Transit Duration (Hours)	7	Blank
Transit Duration (Minutes)	41	Blank
Days to Availability	Blank	0
Availability Time	Blank	0

5. Create departures by adding the following departure rule in the *Departure Rules* screen area (choose the *Create* pushbutton to add an entry):

Field	Value	
First Day of Validity	<pre><current year="">-<current month="">-01</current></current></pre>	
Last Day of Validity	<next year="">-12-31</next>	
Departure Days	Monday, Tuesday, Wednesday, Thursday, Friday	
Departure Time	13:40:00	
Time Zone	EST	

- 6. Select the departure rule and choose *Generate Departures*. Departures are automatically added to the *Departures* tab page.
- 7. Save your entries.

Schedule RF-66001-35100 (Chicago - Houston)

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Transportation Network Schedule Create Schedule .
- 2. Enter schedule type **RF0s** and choose the *Continue* pushbutton.
- 3. Enter the following data:

Field	Value
Schedule Description	RF-66001-35100 (Chicago - Houston)
Valid From	<pre><current year="">-01-01</current></pre>
Valid To	<next year="">-12-31</next>
Shipping Type	30 - Intermodal
Transportation Mode	02 - Rail
Means of Transport	RF-TRAIN-E
Carrier	RF-CR-BURL
Weight	8,000 TO
Quantity	400 teu

4. Create a standard stop sequence by adding the following locations (choose the *Create* pushbutton to add line to the table):

Field	Value	Value
Sequence	10	20
Location	RF_66001	RF_35100
Cargo Cut Off (Offset in Days)	0	Blank
Cargo Cut-Off Time	04:00:00	Blank
Transit Duration (Hours)	16	Blank
Transit Duration (Minutes)	52	Blank
Days to Availability	Blank	0
Availability Time	Blank	0

5. Create departures by adding the following departure rule in the *Departure Rules* screen area (choose the *Create* pushbutton to add an entry):

Field	Value
First Day of Validity	<pre><current year="">-<current month="">-01</current></current></pre>
Last Day of Validity	<next year="">-12-31</next>
Departure Days	Every day
Departure Time	12:00:00
Time Zone	CST

^{6.} Select the departure rule and choose *Generate Departures*. Departures are automatically added to the *Departures* tab page.

Schedule RF-41978-626200 (Toronto – Oklahoma City)

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Transportation Network Schedule Create Schedule.
- 2. Enter schedule type **RF0s** and choose the *Continue* pushbutton.

^{7.} Save your entries.

3. Enter the following data:

Field	Value
Schedule Description	RF-41978-626200 (Toronto - Oklahoma City)
Valid From	<pre><current year="">-01-01</current></pre>
Valid To	<next year="">-12-31</next>
Shipping Type	30 - Intermodal
Transportation Mode	02 - Rail
Means of Transport	RF-TRAIN-E
Carrier	RF-CR-BURL
Weight	8,000 TO
Quantity	400 teu

4. Create a standard stop sequence by adding the following locations (choose the *Create* pushbutton to add line to the table):

Field	Value	Value
Sequence	10	20
Location	RF_41978	RF_626200
Cargo Cut Off (Offset in Days)	0	Blank
Cargo Cut-Off Time	04:00:00	Blank
Transit Duration (Hours)	19	Blank
Transit Duration (Minutes)	20	Blank
Days to Availability	Blank	0
Availability Time	Blank	04:00:00

5. Create departures by adding the following departure rule in the *Departure Rules* screen area (choose the *Create* pushbutton to add an entry):

Field	Value
First Day of Validity	<pre><current year="">-<current month="">-01</current></current></pre>
Last Day of Validity	<next year="">-12-31</next>
Departure Days	Every day
Departure Time	14:15:00
Time Zone	EST

- 6. Select the departure rule and choose *Generate Departures*. Departures are automatically added to the *Departures* tab page.
- 7. Save your entries.

Schedule RF-626200-35100 (Oklahoma City - Houston)

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Transportation Network Schedule Create Schedule .
- 2. Enter schedule type **RF0s** and choose the *Continue* pushbutton.
- 3. Enter the following data:

Field	Value
Schedule Description	RF-626200-35100 (Oklahoma City - Houston)
Valid From	<pre><current year="">-01-01</current></pre>
Valid To	<next year="">-12-31</next>
Shipping Type	30 - Intermodal
Transportation Mode	02 - Rail
Means of Transport	RF-TRAIN-E
Carrier	RF-CR-BURL
Weight	8,000 TO
Quantity	400 teu

4. Create a standard stop sequence by adding the following locations (choose the *Create* pushbutton to add line to the table):

Field	Value	Value
Sequence	10	20
Location	RF_626200	RF_35100
Cargo Cut Off (Offset in Days)	0	Blank
Cargo Cut-Off Time	04:00:00	Blank
Transit Duration (Hours)	5	Blank
Transit Duration (Minutes)	40	Blank
Days to Availability	Blank	0
Availability Time	Blank	04:00:00

5. Create departures by adding the following departure rule in the *Departure Rules* screen area (choose the *Create* pushbutton to add an entry):

Field	Value
First Day of Validity	<pre><current year="">-<current month="">-01</current></current></pre>
Last Day of Validity	<next year="">-12-31</next>
Departure Days	Every day
Departure Time	11:50:00
Time Zone	CST

^{6.} Select the departure rule and choose *Generate Departures*. Departures are automatically added to the *Departures* tab page.

9.7 Defining Truck Schedules

Use

For the daily feeder trucks between the yards Chicago Heights (Continental Rail) and Chicago IM EX (Burlington), you require schedules so that you can plan the cross-town stages. In SAP TM, these schedules are based on schedule type RFOT ("Scheduled Truck").

^{7.} Save your entries.

Currently, this schedule is in place as a workaround because automatic planning is unable to run the routing proposals with trucks planned from transportation lanes.

Procedure

Schedule RF-55989-66001 (Cross-Town Chicago)

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Transportation Network Schedule Create Schedule .
- 2. Enter schedule type **RF0T** and choose the *Continue* pushbutton.
- 3. Enter the following data:

Field	Value
Schedule Description	RF-55989-66001 (Cross Town Chicago)
Valid From	<pre><current year="">-01-01</current></pre>
Valid To	<next year="">-12-31</next>
Shipping Type	30 - Intermodal
Transportation Mode	01 - Road
Means of Transport	RF-TRUCK-S
Carrier	RF-CR-01
Weight	40 TO
Quantity	2 teu

4. Create a standard stop sequence by adding the following locations (choose the *Create* pushbutton to add line to the table):

Field	Value	Value
Sequence	10	20
Location	RF_55989	RF_66001
Cargo Cut Off (Offset in Days)	0	Blank
Cargo Cut-Off Time	01:00:00	Blank
Distance	37 KM	Blank
		

Field	Value	Value
Transit Duration (Minutes)	40	Blank
Days to Availability	Blank	0
Availability Time	Blank	0

5. Create departures by adding the following departure rule in the *Departure Rules* screen area (choose the *Create* pushbutton to add an entry):

Field	Value
First Day of Validity	<pre><current year="">-<current month="">-01</current></current></pre>
Last Day of Validity	<next year="">-12-31</next>
Departure Days	Every day
Departure Time	09:00:00
Time Zone	CST

^{6.} Select the departure rule and choose *Generate Departures*. Departures are automatically added to the *Departures* tab page.

9.8 Defining Default Routes

Default Route RF-12605-35100 (Halifax - Chicago - Houston)

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Transportation Network Default Route Create Default Route.
- 2. Enter schedule type **RFDF** and choose the *Continue* pushbutton.
- 3. Enter the following data:

Field	Value
Description	RF-12605-35100 (Halifax-Chicago-Houston)
Valid From	<current year="">-01-01</current>
Valid To	<next year="">-12-31</next>

^{7.} Save your entries.

Field	Value
Transportation Mode	02 (Rail)

4. Create a standard stop sequence by adding the following locations (choose the *Create* pushbutton to add row to the table):

Field	Value	Value	Value	Value	Value
Sequence	10	20	30	40	50
Location	RF_12605	RF_41978	RF_55989	RF_66001	RF_35100
Transportation Mode	02 - Rail	02 - Rail	01 Road	02 - Rail	Blank

5. Save your entries.

Default Route RF-12605-35100 (Halifax – Oklahoma – Houston)

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Transportation Network Default Route Create Default Route.
- 2. Enter schedule type **RFDF** and choose the *Continue* pushbutton.
- 3. Enter the following data:

Field	Value
Description	RF-12605-35100 (Halifax-Oklahoma-Houston)
Valid From	<current year="">-01-01</current>
Valid To	Next Year-12-31
Transportation Mode	02 (Rail)

4. Create a standard stop sequence by adding the following locations (choose the *Create* pushbutton to add a row to the table):

Field	Value	Value	Value	Value
Sequence	10	20	30	40
Location	RF_12605	RF_41978	RF_626200	RF_35100

Field	Value	Value	Value	Value
Transportation Mode	02 - Rail	02 - Rail	02 - Rail	02 - Rail

5. Save your entries.

10 Resources

Use

In SAP Transportation Management, you must define resources including the vehicle and carrier resources.

Activities

- Defining Vehicle Resources [page 71]
- Defining Railcar Resources [page 72]

10.1 Defining Vehicle Resources

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Resource Define Resource .
- 2. On the initial screen, enter **RF-TRUCK-01** in the *Resource* field and specify the resource type as **09** (vehicle resource).
- 3. Choose the Create Resources pushbutton.
- 4. On the O Vehicle tab page, enter the following data in the table:

Field	Value
Location	Blank
Means of Transport	RF_TRUCK
Time Zone	CST
Continuous Dimension	AAAADL
Factory Calendar	US
Capacity	2

Field	Value
Unit	TEU

5. On the *General Data* tab page, enter the following data:

Field	Value
Passive Means of Transport	Deselect
Number of Individual Resources	0
Multiresource	Select

6. On the Capacity tab page, enter the following data

Field	Value
Continuous Dimension	Mass
Capacity	30
Unit	TO

7. Save your entries.

10.2 Defining Railcar Resources

Resources RF-ATSF-291000 to RF-ATSF-291004

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Resource Define Resource 1.
- 2. On the initial screen, enter **RF-ATSF-291000** in the *Resource* field and specify the resource type as **09** (vehicle resource).
- 3. Choose the Create Resources pushbutton.
- 4. On the O Vehicle tab page, enter the following data in the table:

Field	Value
Vehicle Group	F (Flat Car)
Vehicle Type	F077
Resource Class	4 Rail Car

Field	Value	
Location	Blank	
Means of Transport	RF-RAILCAR	
Time Zone	CST	
Continuous Dimension	AAAADL	
Factory Calendar	US	
Capacity	4	
Unit	TEU	
Short Description	Flat Car - CONF /TOFC / ATSF-291000	

5. On the General Data tab page, enter the following data:

Field	Value
Passive Means of Transport	Select
Number of Individual Resources	0
Multiresource	Not selected

6. On the *Transportation* tab page, enter the following data:

Field	Value	
From Date	1970-01-01	
To Date	9999-12-30	
Registration No.	ATSF-291000	
Relevant for Event Management	Select	

7. On the Capacity tab page, enter the following data in the Planning Relevant Capacities table:

Continuous Dimension	Capacity	Unit
AAAADL (no dimensions)	4	TEU
Mass	159,900	LB
Length	82	FT

8. On the *Phys. Properties* tab page, add the following data:

Field	Value	
Tare Weight	60,100 LB	
Max. Gross Weight	159,900 LB	
Max. Length	82 FT	
First Axle Group: Axle Type	2	
Second Axle Group: Axle Type	0	
Third Axle Group: Axle Type	0	

- 9. Save your entries.
- 10. Repeat the procedure to create the following railcar resources:
 - o RF-ATSF-291001
 - o RF-ATSF-291002
 - o RF-ATSF-291003
 - o RF-ATSF-291004

Resources RF-ATSF-291005 to RF-ATSF-291007

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Resources Define Resource ...
- 2. On the initial screen, enter **RF-ATSF-291005** in the *Resource* field and specify the resource type as **09** (vehicle resource).
- 3. Choose the *Create Resources* pushbutton.
- 4. On the *O Vehicle* tab page, enter the following data in the table:

Field	Value	
Vehicle Group	F (Flat Car)	
Vehicle Type	F077	
Resource Class	4 Rail Car	
Location	Blank	
Means of Transport	RF-RAILCAR	
Time Zone	EST	

Field	Value	
Continuous Dimension	AAAADL	
Factory Calendar	US	
Capacity	4	
Unit	TEU	
Short Description	Flat Car - CONF/ TOFC / ATSF-291005	

5. On the *General Data* tab page, enter the following data:

Field	Value
Passive Means of Transport	Select
Number of Individual Resources	0
Multiresource	Not selected

6. On the *Transportation* tab page, enter the following data:

Field	Value	
From Date	1970-01-01	
To Date	9999-12-30	
Registration No.	ATSF-291005	
Relevant for Event Management	Select	

7. On the Capacity tab page, enter the following data in the Planning Relevant Capacities table:

Continuous Dimension	Capacity	Unit
AAAADL (no dimensions)	4	TEU
Mass	159,900	LB
Length	89	FT

8. On the *Phys. Properties* tab page, add the following data:

Field	Value	
Tare Weight	60,100 LB	
Max. Gross Weight	159,900 LB	
Max. Length	89 FT	
First Axle Group: Axle Type	0	
Second Axle Group: Axle Type	0	
Third Axle Group: Axle Type	0	

- 9. Save your entries.
- 10. Repeat the procedure to create the following railcar resources:
 - \circ RF-ATSF-291006 (with the time zone CST)
 - o RF-ATSF-291007

11 Setup of Dangerous Goods

- Defining Dangerous Goods User Interface Profile [page 77]
- Defining Common Settings for Dangerous Goods [page 79]
- Defining Dangerous Goods Profile [page 80]
- Specifying Business Context [page 81]
- Defining Segregation Keys [page 81]
- Defining Responses [page 82]
- Specifying Segregation Rules for Segregation Keys [page 83]
- Specifying Number Ranges for Phrases [page 84]
- Specifying Phrase Libraries and Phrase Groups [page 84]
- Specifying Language Selection [page 85]
- Editing Dangerous Goods Phrases [page 86]
- Editing Phrase Sets [page 86]
- Activating Phrase Assignment [page 87]
- Editing Phrase Set-Attribute Assignments [page 87]
- Defining Products for Dangerous Goods Master [page 88]
- Specifying Validity Area [page 88]
- Specifying Dangerous Goods Regulations [page 89]
- Specifying Dangerous Goods Classes and Classification Codes [page 89]
- Creating Dangerous Goods Master [page 90]

11.1 Defining Dangerous Goods User Interface Profile

Context

In this procedure, you define user interface (UI) profiles for processing dangerous goods. You can add these UI profiles to the item type used in your forwarding order type. In this way, you can specify which dangerous goods fields can be used in the forwarding order.

Procedure

1. In SAP NetWeaver Business Client (NWBC), choose Application Administration General Settings Define UI-Profile for Document-Based Dangerous Goods Data.

- Choose New and enter the new UI profile RF_DG_UI_01 with the description Rail Freight -Dangerous Goods UI Profile.
- 3. Choose *UI Group Titles* and then choose *Append Row* to create the following lines:
 - Descriptions
 - Substance Rating
 - Labeling
 - o Classification
 - Substance Properties
 - Transport Restrictions
- 4. Choose OK to save your entries.
- 5. In the *UI Group and Fields* section, choose *Insert* to insert new UI groups and choose all of UI groups created above and add them to the table.
- 6. In the UI Group and Fields section, highlight the group Descriptions, and then choose Insert New Field.
- 7. Add the following fields with regulation CFR:

```
O DG_DESCRIPTION_TEXT
```

- o PDGNUD
- O PDGNUDPRE
- o PDGNUDSUF
- 8. In the UI Group and Fields section, highlight the group Substance Rating, and then choose Insert New Field.
- 9. Add the following fields with regulation CFR:
 - ° EINU
 - o EMSN1
 - O FLG EMSN1 U
 - o EMSN2
 - O FLG EMSN2 U
 - O COWE
- 10. In the *UI Group and Fields* section, highlight the group *Labeling*, and then choose *Insert New Field*.
- 11. Add the following fields with regulation IMDG:
 - O HNU
 - O HPN1
 - O HPN2
 - o HPN3
 - O HPN4
 - O HPN5
 - O HPN6
 - O HPN7
- $12. \ In \ the \ \textit{UI Group and Fields} \ section, highlight \ the \ group \ \textit{Classification} \ and \ then \ choose \ \textit{Insert New Field}.$
- 13. Add the following fields with regulation CFR:
 - O DGCL
 - o DGSC
 - O PIN
 - O DGRES1

- o DGRES2
- o DGRES3
- O CARR TYPE
- 14. In the *UI Group and Fields* section, highlight the group *Substance Properties*, and then choose *Insert New Field*
- 15. Add the following fields with regulation CFR:
 - O FLTMP
 - O TPFUN
- 16. In the *UI Group and Fields* section, highlight the group *Transport Restrictions*, and then choose *Insert New Field*
- 17. Add the following fields with regulation CFR:
 - O TRANSP TYPE
 - O DGCAO

11.2 Defining Common Settings for Dangerous Goods

Context

In this Customizing activity, you define general settings for dangerous goods processing in SAP TM.

Procedure

- 1. In Customizing for SAP TM, choose Basic Functions Dangerous Goods Define Common Settings for Dangerous Goods Processing Dangerous Goods Danger
- 2. Enter the following data:

DG Activate	Strategy for DG Chk	DG Print Strat.	DG Activate FUB	DG Activate VSR
Selected	DG_EHS_CHK	DG_EHS_PRT	Selected	Selected

3. Save your entries.

11.3 Defining Dangerous Goods Profile

Context

In this Customizing activity, you define profiles for processing dangerous goods. The *Only Errors Read* and *All Messages Read* profiles are provided. You define general conditions for processing dangerous goods, for example, by specifying which messages are allowed to process certain dangerous goods or whether you are permitted to define dangerous goods manually.

You assign the profile when you define business object types for freight units or freight orders.

You can also specify the default modes of transport that have to be used for the dangerous goods check in case the information is not available in the business document.

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Basic Functions Dangerous Goods Define Dangerous Goods Profile Dangerous Goods Profile Dangerous Goods D
- 2. Enter the following data:

Value
RF_DG_01
Dangerous Goods Profile - Rail Freight
2 – Errors and Warnings
02 (Rail)
RF_DG_UI_01

11.4 Specifying Business Context

Context

In this procedure, you specify business contexts and assign them dangerous goods check schemas.

You use the business context to specify in which context a dangerous goods check schema is called. Depending on the business context, different or additional data can be read within the read module of the dangerous goods check schema.

Procedure

- In Customizing for SAP Transportation Management, choose SCM Basis EH&S Services Dangerous
 Goods Management Dangerous Goods Checks and Dangerous Goods Documents Common Settings
 Specify Business Context .
- 2. Enter the following data:

Bus. Cont.	Desc. Bus. Context	DG Check Schema
TORFU	TM Freight Unit	1
TORTO	TM Freight Order	1
TORBO	TM Freight Booking	1

3. Save your entries.

11.5 Defining Segregation Keys

Context

In this Customizing activity, you specify segregation keys for the mixed loading checks.

Procedure

- In Customizing for SAP TM, choose SAP Transportation Management SCM Basis EH&S Services
 Dangerous Goods Management Dangerous Goods Checks and Dangerous Goods Documents
 Dangerous Goods Checks Specify Settings for Mixed Loading Checks Specify Segregation Keys
- 2. Enter the following data:

Regulation	Segr. Key	Description of Segregation Key
CFR	3.1	Gas
CFR	4.1	Explosive
CFR	4.2	Flammable
CFR	5.1	Radioactive

3. Save your entries.

11.6 Defining Responses

Context

In this Customizing activity, you define responses that are used in the segregation rules for the following:

- Segregation keys
- Enterprise-specific mixed loading groups

- In Customizing for SAP Transportation Management, choose SCM Basis EH&S Services Dangerous
 Goods Management Dangerous Goods Checks and Dangerous Goods Documents Dangerous Goods
 Checks Specify Settings for Mixed Loading Checks Specify Responses .
- 2. Enter the following data:

Response	Desc. of Response	Message Class	Msg No.	Resp. Type
E1	Error: Mixed loading not allowed	/SEHS/DG_DG	687	Е

3. Save your entries.

11.7 Specifying Segregation Rules for Segregation Keys

Context

In this Customizing activity, you specify segregation rules for the segregation keys. The segregation rules are a regulation-dependent decision matrix in which you specify the combinations of segregation keys that are prohibited or permitted.

Procedure

- In Customizing for SAP Transportation Management, choose SCM Basis EH&S Services Dangerous
 Goods Management Dangerous Goods Checks and Dangerous Goods Documents Dangerous Goods
 Checks Specify Settings for Mixed Loading Checks Specify Segregation Rules for Segregation Keys
- 2. Enter the following data:

DG Regulation	Segr. Key	Segr. Key	Response
CFR	3.1	4.1	E1
CFR	3.1	4.2	E1

3. Save your entries.

11.8 Specifying Number Ranges for Phrases

Context

In this Customizing activity, you define number ranges for phrase keys. Each phrase is uniquely identified by a phrase key within one client.

Procedure

- 1. In Customizing for SAP Transportation Management, choose SCM Basis EH&S Services Phrase Management Specify Number Ranges for Phrases.
- 2. Enter the following data:

No.	From Number	To Number	Ext
OE	000000000000001	500000000000000	Х

i Note

Make sure that your number range does not overlap with existing number ranges in this table.

11.9 Specifying Phrase Libraries and Phrase Groups

Context

In this Customizing activity, you define phrase libraries and the corresponding phrase groups. Make sure that one phrase library is defined as an active library.

Procedure

- 1. In Customizing for SAP Transportation Management, choose SCM Basis EH&S Services Phrase Management Specify Phrase Libraries and Phrase Groups.
- 2. Enter the following data:

PhrLib	Description for Phrase Library	Active Library
CUST	Customer Phrase Library	Select

3. Specify the following phrase groups for your phrase library:

Phrase Library	Phr. Lib. Desc.	Phrase Group	Desc. of Phrase Group
CUST	Customer Phrase Library	DG-TEXT	Output of Dangerous Goods Documents/EDI
CUST	Customer Phrase	RMS-PROC	RM: Process Parameters

11.10 Specifying Language Selection

Context

In this Customizing activity, you specify the languages that you can use for phrases in *EH&S Services*.

Procedure

1. In Customizing for SAP Transportation Management, choose SCM Basis EH&S Services Phrase Management Specify Language Selection.

Enter the following data:

L	Name of Language	Sort
EN	English	1

L	Name of Language	Sort
DE	German	2

2. Save your entries.

11.11 Editing Dangerous Goods Phrases

Procedure

- 1. In SAP NetWeaver Business Client, choose Master Data Dangerous Goods Management Phrase Management Edit Phrases .
- 2. Enter the following data:

Phrase

Library-No.	Phrase Group	Language key	Phrase Text
CUST-000000000000000000000000000000000000	DG-TEXT	EN	Dangerous Goods Phrase
CUST-4000000000000000000000000000000000000	DG-TEXT	EN	Dangerous Goods Phrase with Long Text

3. Save your entries.

11.12 Editing Phrase Sets

- 1. In SAP NetWeaver Business Client, choose Master Data Dangerous Goods Management Phrase Management Edit Phrase Sets .
- 2. Enter the following data:

Phrase Set	Language Key	Phrase Set Name
RF_PHRASE_SET	EN	Phrase Set - Rail Freight

3. Assign phrases CUST-0000000000001 and CUST-4000000000000 to the phrase set by choosing the *Phrase Assignment* pushbutton and entering the phrases.

11.13 Activating Phrase Assignment

Procedure

- 1. In Customizing for SAP Transportation Management, choose SCM Basis EH&S Services Dangerous Goods Management Dangerous Goods Master Activate Phrase Assignment.
- 2. Select Attribute Activation and choose Execute.

11.14 Editing Phrase Set-Attribute Assignments

- 1. In SAP NetWeaver Business Client, choose Master Data Dangerous Goods Management Phrase Management Edit Phrase Set-Attribute Assignment.
- 2. Choose DGTMD (DG: Dangerous Goods Master).
- 3. Assign phrase set RF PHRASE SET to field name PDGNUD.

11.15 Defining Products for Dangerous Goods Master

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data General Define Product .
- 2. Enter product RF PROD DG, choose Global Data, and click Create.
- 3. Enter the product description **ALUMINUM PHOSPHIDE** and the base unit of measure **kg**.
- 4. On the Storage tab page, enter the dangerous goods indicator profile GPP.
- 5. Save your entries.

11.16 Specifying Validity Area

Procedure

- 1. In Customizing for SAP Transportation Management, choose SCM Basis EH&S Services Basic Services Specify Validity Areas.
- 2. Choose the New Entries pushbutton and enter the following data:

VAreaCat	Val. Area	Description for Validity Area		
REGION	CA	Canada		

3. Save your entries.

11.17 Specifying Dangerous Goods Regulations

Context

In this Customizing activity, you assign dangerous goods regulations to a validity area and a means of transport.

Procedure

- 1. In Customizing for SAP Transportation Management, choose SCM Basis EH&S Services Dangerous Goods Management Dangerous Goods Master Specify Dangerous Goods Regulations.
- 2. Choose New Entries and enter the following data:

DG Regulation	Validity Area	ModeTransCat	NamDGRegulation	Lang. Forw.Ctry
TDG	CA	2	49.CFR	Select

3. Save your entries.

11.18 Specifying Dangerous Goods Classes and Classification Codes

- In Customizing for SAP Transportation Management, choose SCM Basis EH&S Services Dangerous
 Goods Management Dangerous Goods Master Specify Dangerous Goods Classes and Classification
 Codes .
- 2. Choose the New Entries pushbutton and enter the following data:

DG regulation	Class	Desc. DG Class	ItNo.EmpTransp
ARD	4.3	Substances that emit flammable gases when in contact with water	41

- 3. Save your entries.
- 4. Select Classification Code from the navigation structure.
- 5. Choose the *New Entries* pushbutton and enter the following data:

Code	Description of Classification Code
a	Very Dangerous
b	Dangerous
С	Less Dangerous

- 6. Save your entries.
- 7. Repeat the above steps for dangerous goods regulation TDG.

11.19 Creating Dangerous Goods Master

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Dangerous Goods Management Dangerous Goods Master Edit Dangerous Goods Master.
- 2. Enter product **RF_PROD_DG** and DG regulation **CFR**, and then press ENTER.
- 3. On the *Classification* tab page, double click the item line and enter the following data in the table:

Field	Value
Туре	UN
ID no.	1397
Description	CUST-000000000000001

Field	Value
Class	4.3
Subclass	4.3
Packing Group	I

4. On the Substance Rating tab page, enter the following data in the table:

Field	Value
Tremcard No.	1234
MFAG Number 1	45
EmS/ERG Number 1	23

5. On the Substance Properties tab page, enter the following data in the table:

Field	Value
Flashpoint	56
UoM	°c

6. On the *Transport Restrictions* tab page, enter the following data in the table:

Field	Value
Transport Category	I
Multiplication Factor	3
Exemption	333
UoM	KG

7. On the *Mixed Loading* tab page, enter the following data in the table:

Field	Value
Seg. Key 1	4.2 (Flammable)

- 8. Save your entries.
- 9. Return to the initial screen and set the processing status to 10 (Released).

12 Charge Management

Configuration of Charge Management involves configuring the following activities:

- Defining Charge Subcategories [page 92]
- Defining Charge Types [page 93]
- Defining Conditions for Rate Table Determination [page 95]
- Defining Transportation Activities for Tracking and Tracing [page 96]
- Defining Event Profiles [page 96]

It also involves configuring organizational settings for Charge Management (see Configuration of Organizational Settings for Charge Management [page 137]).

12.1 Defining Charge Subcategories

Procedure

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Basic Functions Charge Calculation Basic Settings Define Charge Subcategories.
- 2. Create the following entries:

Charge Subcategory	Description
408202	Supplemental Charges
409102	Revenue Split

3. Save your entries.

12.2 Defining Charge Types

Context

In this procedure, you define additional charge types that you can assign to calculation sheets and rate tables that are specific to this scenario.

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Basic Functions Charge Calculation Basic Settings for Charge Calculation Define Charge Types .
- 2. Create the following entries:

Charge Type	Charge Category	Descrip- tion	Charge Subcate- gory	Positive / Negative	Value Type	Leading Charge Type	TrM Cate- gory	Descrip- tion
RF_BASE	004	Basic Freight	100000	Positive Value	A Absolute	Select		Rail Basic Rate
RF_CUSD	002	Additional Charges	408202	Default	Default	Not se- lected		Customs Formalities Destination Country
RF_CUSF	002	Additional Charges	408202	Default	Default	Not se- lected		Customs Formalities Forwarding Country
RF_CUST	002	Additional Charges	408202	Default	Default	Not se- lected		Customs Formalities Transit Country
RF_ECC	004	Basic Freight	100000	Positive Value	A Absolute	Not se- lected		Export Customs Clearance per Ship- ment

Charge Type	Charge Category	Descrip- tion	Charge Subcate- gory	Positive / Negative	Value Type	Leading Charge Type	TrM Cate- gory	Descrip- tion
RF_FUEL_ MI	004	Basic Freight	103008	Positive Value	A Absolute	Not se- lected		Fuel Sur- charge per Mile
RF_GIF	004	Basic Freight	100000	Positive Value	A Absolute	Not se- lected		Goods Inspection Fee per Shipment
RF_INSP	002	Additional Charges	408202	Default	Default	Not se- lected		Insurance Premium
RF_INVF	002	Additional Charges	408202	Default	Default	Not se- lected		Invoice For- warding, Fixed
RF_I_DG	002	Additional Charges	408202	Default	Default	Not se- lected		Intermodal DG sur- charge
RF_CUS_I MP	002	Additional Charges	408202	Default	Default	Not se- lected		Rail Sup- plemental Charges
RF_LFTD	002	Additional Charges	408202	Default	Default	Not se- lected	Rail	Lifting at destination
RF_LFTF	002	Additional Charges	408202	Default	Default	Not se- lected	Rail	Lifting at origin
RF_RCCL	002	Additional Charges	408202	Default	Default	Not se- lected	Rail	Railcar Cleaning
RF_REV_S PLIT	004	Basic Freight	409102	Default	Default			Revenue Split
RF_SWTCH _C	002	Additional Charges	408202	Default	Default			Customer Switch
RF_SWTCH _Y	002	Additional Charges	408202	Default	Default			Yard Switch
RF_WEIG	002	Additional Charges	408202	Default	Default			Weighing

12.3 Defining Conditions for Rate Table Determination

Procedure

- 1. In SAP NetWeaver Business Client, choose Application Administration General Settings Conditions Create Condition .
- 2. Enter the following data:

Field	Value
Condition	RF_I_DG
Description	Rail Freight Intermodal DG
Condition Type	TCM_PRECON
Origin of Condition	Condition Based on BRFplus Decision Table

- 3. Choose Data Access Definition and then Create.
- 4. In the Business Object Based Data Access Definition screen area, enter the following data:

Field	Value	
Column Positionin BRFplus Decision Table	10	
Data Access Definition for Consitions	DANGEROUS_GOODS_TCMC	
Data Object Description	Dangerous Goods Indicator	
Data Elelment Used for Input Help	BOOLEAN	

- 5. Choose Back.
- 6. Enter the following data in the BRFplus table:

Dangerous Goods Indicator	TRUE
X (true)	X (true)

7. Save your entries.

12.4 Defining Transportation Activities for Tracking and Tracing

Procedure

- In Customizing for SAP Transportation Management, choose Transportation Management Integration
 Tracking and Tracing of Processes and Documents Define Transportation Activities for Tracking and Tracing .
- 2. Choose the Event for Business Document folder.
- 3. Choose New Entries.
- 4. Enter the following data:

Field	Value	Value
Event	RF_SWTCH_C	RF_SWTCH_Y
Description	Customer Switch	Yard Switch
Transp Act	99	99
Stop Cat	O - Stop with Change of Main Resource - Outbound	O - Stop with Change of Main Resource - Outbound

- 5. Select the line items freshly created one by one and select folder *Assignment of Events to Business Object*.
- 6. Assign both events to business object FO Freight Order.

12.5 Defining Event Profiles

Context

Event profiles contain the data to determine if and how posted events trigger the calculation of predefined charges.

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Basic Functions Charge Calculation Basic Settings Define Event Profiles.
- 2. Choose the New Entries pushbutton.
- 3. Enter the following data:

Field	Value	Value	Value
Evnt Prof.	RF0I	RFIN	RFSC
Description	FWO Rail Intermodal	FRO Rail Intermodal	FRO Rail Intermodal Interline

- 4. Select item RF0I and select folder *Define Event Assignments*.
- 5. Enter the following data:

Field	Value	Value
Charge Type	RF_SWTCH_C	RF_SWTCH_Y
Event	RF_SWTCH_C	RF_SWTCH_Y
Event Sts	N Unexpected Event	N Unexpected Event
FWO CC	Select	Select

- 6. Save your entries.
- 7. Select item RFIN and select folder *Define Event Assignments*.
- 8. Enter the following data:

Field	Value	Value
Charge Type	RF_SWTCH_C	RF_SWTCH_Y
Event	RF_SWTCH_C	RF_SWTCH_Y
Event Sts	N Unexpected Event	N Unexpected Event
FWO CC	Select	Select
FOCC	Select	Select

- 9. Save your entries.
- 10. Select item RFSC and select folder *Define Event Assignments*.

11. Enter the following data:

Field	Value	Value
Charge Type	RF_SWTCH_C	RF_SWTCH_Y
Event	RF_SWTCH_C	RF_SWTCH_Y
Event Sts	N Unexpected Event	N Unexpected Event
FWO CC	Select	Select
FO CC	Select	Select

12. Save your entries.

13 Rate Tables and Calculation Sheets

You must create the following objects as building blocks for forwarding agreements, freight agreements, and internal agreements:

- Rate Tables [page 99]
- Calculation Sheets [page 108]

13.1 Rate Tables

In this scenario, the following rate tables are used:

Rate Table	Purpose
RF_I_CU_001	Forwarding Agreement: Halifax – Houston (Intermodal)
RF_CR_BURL_01	Freight Agreement: Chicago – Houston (Rail)
RF_CR_001	Freight Agreement: Halifax – Toronto – Chicago (Rail)

13.1.1 Defining Rate Table for Forwarding Agreement with Customer RF-CU-01

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Charge Management and Service Product Catalogs Rate Tables Create Rate Table Definition.
- 2. Choose Continue without entering a rate table template.
- 3. On the General Data tab page, enter the following data:

Field	Description	Value
Rate Table	Unique identifier for the rate table	RF_I_CU_001

Field	Description	Value
Description	Description of the table	Rail Intermodal Through
Charge Usage	This indicator identifies in which situation this rate table can be used. It can be used for Customer Billing integration and/or Supplier Invoice integration, or neither.	Customer
Charge Type	This is where the charge type is linked for integration with SAP ERP.	RF_BASE
Charge Category	This defaults from the charge type definition above.	004
Charge Subcategory	This defaults from the charge type definition above.	100000 - Freight Charges
Positive/Negative	This defaults from the charge type definition above.	Positive or Negative Value
Value	This defaults from the charge type definition above.	Absolute Value
Lead Charge Type	Indicates the charge type that must have a value for the system to consider the calculation sheet for charge calculation.	Select
Rate Table Type	Rate table type	1000
Organization Name	Contracting sales organization	RF-SORG-1

4. In the table for the scales, choose *Insert* and enter the following data:

Field	Description	Value
Dimension	In the rate table, this defines a row (x-axis) or a column (y-axis). You can have multiple scales (up to 9) in a rate table.	1 for the first scale (region-based)
Reference Scale	Assign the scales for all carriers defined above. This enables the entries in the rate table as in the sequence.	Blank

Field	Description	Value
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	SOURCELOC
Scale Type	Manually defined or defaults from the reference scale definition above.	Same Scale (=)
Scale Unit of Measure	Manually defined or defaults from the reference scale definition above.	Blank
Minimum Value	Minimum value	Not selected
Maximum Value	Maximum value	Not selected
Calculation Type	Determines how the system calculates charges with the scale	Absolute
Rounding Profile	Rounding profile	Blank

- 5. Once you have entered the data, select each new row in the table and choose the *Add Scale* pushbutton.
- 6. In the table for the scales, choose *Insert* and enter the following data:

Field	Description	Value
Dimension	In the rate table, this defines a row (x-axis) or a column (y-axis). You can have multiple scales (up to 9) in a rate table.	2 for the second scale (region-based)
Reference Scale	Assign the scales for all carriers defined above. This enables the entries in the rate table as in the sequence.	Blank
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	DESTLOC
Scale Type	Manually defined or defaults from the reference scale definition above.	Same Scale (=)
Scale Unit of Measure	Manually defined or defaults from the reference scale definition above.	Blank
Minimum Value	Minimum value	Not selected
Maximum Value	Maximum value	Not selected

Field	Description	Value
Calculation Type	Determines how the system calculates charges with the scale	Absolute
Rounding Profile	Rounding profile	Blank

- 7. Once you have entered the data, select each new row in the table and choose the *Add Scale* pushbutton.
- 8. In the table for the scales, choose *Insert* and enter the following data:

Field	Description	Value	
Dimension	In the rate table, this defines a row (x-axis) or a column (y-axis). You can have multiple scales (up to 9) in a rate table.	3 for the third scale (region-based)	
Reference Scale	Assign the scales for all carriers defined above. This enables the entries in the rate table as in the sequence.	Blank	
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	EQUIP_TYPE	
Scale Type	Manually defined or defaults from the reference scale definition above.	Same Scale (=)	
Scale Unit of Measure	Manually defined or defaults from the reference scale definition above.	Blank	
Minimum Value	Minimum value	Not selected	
Maximum Value	Maximum value	Not selected	
Calculation Type	Determines how the system calculates charges with the scale	Absolute	
Rounding Profile	Rounding profile	Blank	

^{9.} Once you have entered the data, select each new row in the table and choose the *Add Scale* pushbutton.

^{10.} In the table for the scales, choose ${\it lnsert}$ and enter the following data:

Field	Description	Value	
Dimension	In the rate table, this defines a row (x-axis) or a column (y-axis). You can have multiple scales (up to 9) in a rate table.		
Reference Scale	Assign the scales for all carriers defined above. This enables the entries in the rate table as in the sequence.	Blank	
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	OWNERSHIP_TYPE	
Scale Type	Manually defined or defaults from the reference scale definition above.	Same Scale (=)	
Scale Unit of Measure	Manually defined or defaults from the reference scale definition above.	Blank	
Minimum Value	Minimum value	Not selected	
Maximum Value	Maximum value	Not selected	
Calculation Type	Determines how the system calculates charges with the scale	Absolute	
Rounding Profile	Rounding profile	Blank	

- 11. Save your entries.
- 12. Choose the *Dates and Values* tab page and then the *Insert* pushbutton.
- 13. Enter the following data:

Field	Description	Value
Valid From	Date from which the rate table is valid	<pre><current year="">-01-01</current></pre>
Valid To	Date to which the rate table is value	<next year="">-12-31</next>
Aggreg. Rate Description	Aggregated rate description	Blank
Currency	A currency that is applicable for this rate table	CAD

- 14. Select the new row. A table appears in which you can enter the rates.
- 15. On the *Rates* tab page, choose *Insert* and enter the following data:

Source Location	Destination Lo- cation (=)	Equipment Type (=)	Ownership type (=)	Currency	Value
RF_12605	RF_35100	20G0	R	CAD	1550.00
RF_12605	RF_35100	20G0	S	CAD	1650.00
RF_12605	RF_35100	20G1	R	CAD	1560.00
RF_12605	RF_35100	20G1	S	CAD	1660.00
RF_12605	RF_66001	20G0	R	CAD	1140.00
RF_12605	RF_66001	20G0	S	CAD	1240.00
RF_12605	RF_66001	20G1	R	CAD	1200.00
RF_12605	RF_66001	20G1	s	CAD	1260.00

^{16.} Once you have entered your data, release the rate table by choosing the *Release* pushbutton.

13.1.2 Defining Rate Table for Freight Agreement with Carrier RF-CR-BURL

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Charge Management and Service Product Catalogs Rate Tables Create Rate Table Definition.
- 2. Choose *Continue* without entering a rate table template.
- 3. On the General Data tab page, enter the following data:

Field	Description	Value
Rate Table	Unique identifier for the rate table	RF_CR_BURL_01
Description	Description of the table	Railcar-Based Freight

^{17.} Save your entries.

Field	Description	Value
Charge Usage	This indicator identifies in which situation this rate table can be used. It can be used for Customer Billing integration and/or Supplier Invoice integration, or neither.	Customer and Service Provider
Charge Type	This is where the charge type is linked for integration with SAP ERP.	RF_BASE
Charge Category	This defaults from the charge type definition above.	004
Charge Subcategory	This defaults from the charge type definition above.	100000 - Freight Charges
Positive/Negative	This defaults from the charge type definition above.	Positive Value
Value	This defaults from the charge type definition above.	Absolute Value

4. In the table for the scales, choose *Insert* and enter the following data:

Field	Description	Value
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	SOURCELOC
Scale Type	Manually defined or defaults from the reference scale definition above.	Same Scale (=)

5. In the table for the scales, choose *Insert* and enter the following data:

Field	Description	Value
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	DESTLOC
Scale Type	Manually defined or defaults from the reference scale definition above.	Same Scale (=)

- 6. Once you have entered the data, select each new row in the table and choose the *Add Scale* pushbutton.
- 7. Save your entries.

- 8. Choose the *Dates and Values* tab page and then the *Insert* pushbutton.
- 9. Enter the following data:

Field	Description	Value
Valid From	Date from which the rate table is valid	<pre><current year="">-01-01</current></pre>
Valid To	Date to which the rate table is value	<next year="">-12-31</next>
Aggreg. Rate Description	Aggregated rate description	Blank
Currency	A currency that is applicable for this rate table	CAD

- 10. Select the new row. A table appears in which you can enter the rates.
- 11. On the Rates tab page, choose Insert and enter the following data:

Source Location	Destination Location	Currency	Value
RF_66001	RF_35100	CAD	320.00

- 12. Once you have entered your data, release the rate table by choosing the *Release* pushbutton.
- 13. Save your entries.

13.1.3 Defining Rate Table for Freight Agreement with Carrier RF-CR-CN

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Charge Management and Service Product Catalogs Rate Tables Create Rate Table Definition.
- 2. Choose *Continue* without entering a rate table template.
- 3. On the *General Data* tab page, enter the following data:

Field	Description	Value
Rate Table	Unique identifier for the rate table	RF_CR_001
Description	Description of the table	Railcar-Based Freight

Field	Description	Value
Charge Usage	This indicator identifies in which situation this rate table can be used. It can be used for Customer Billing integration and/or Supplier Invoice integration, or neither.	Customer and Service Provider
Charge Type	This is where the charge type is linked for integration with SAP ERP.	RF_BASE
Charge Category	This defaults from the charge type definition above.	004
Charge Subcategory	This defaults from the charge type definition above.	100000 - Freight Charges
Positive/Negative	This defaults from the charge type definition above.	Positive Value
Value	This defaults from the charge type definition above.	Absolute Value

4. In the table for the scales, choose *Insert* and enter the following data:

Field	Description	Value
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	SOURCELOC
Scale Type	Manually defined or defaults from the reference scale definition above.	Same Scale (=)

5. In the table for the scales, choose *Insert* and enter the following data:

Field	Description	Value
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	DESTLOC
Scale Type	Manually defined or defaults from the reference scale definition above.	Same Scale (=)

- 6. Once you have entered the data, select each new row in the table and choose the *Add Scale* pushbutton.
- 7. Save your entries.

- 8. Choose the *Dates and Values* tab page and then the *Insert* pushbutton.
- 9. Enter the following data:

Field	Description	Value
Valid From	Date from which the rate table is valid	<pre><current year="">-01-01</current></pre>
Valid To	Date to which the rate table is value	<next year="">-12-31</next>
Aggreg. Rate Description	Aggregated rate description	Blank
Currency	A currency that is applicable for this rate table	CAD

- 10. Select the new row. A table appears in which you can enter the rates.
- 11. On the Rates tab page, choose Insert and enter the following data:

Source Location	Destination Location	Currency	Value
RF_12605	RF_41978	CAD	500
RF_41978	RF_55989	CAD	270

- 12. Once you have entered your data, release the rate table by choosing the *Release* pushbutton.
- 13. Save your entries.

13.2 Calculation Sheets

The calculation sheets in this scenario are created from within the product catalog and agreements. You use the calculation sheet templates that are created in this section.

13.2.1 Defining Calculation Sheet Templates

Context

You use calculation sheets to calculate the charges that are incurred for a freight order or forwarding order.

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Basic Functions Charge Calculation Basic Settings Templates Define Calculation Sheet Templates 3.
- 2. Choose *New Entries* and enter the following data:

Field	Value
Calculation Sheet Template	RF_INTERMODAL_DD
Description	Rail Intermodal Door-to-Door
Charge Use	3 Customer and Service Provider

- 3. Double-click the folder *Define Calc. Sheet Template Items* and choose *New Entries*.
- 4. Enter the following data:

Line Number	Instruc- tion Type	Charge Type	Calcula- tion Base	Quantity	UoM	Calcula- tion Resolu- tion Base	Calcula- tion Method Type	Descrip- tion	Rate Type	Danger- ous Goods
100	STND Standa rd	_	Not relevant	Not relevant	Not relevant	CONTAI NER	Standa rd	Not relevant	Contra ct Rate	Not se- lected
110	STND Standa rd	_	ACTUAL _DIST	1	MI	CONTAI NER	Standa rd	Not relevant	Contra ct Rate	Not se- lected
120	STND Standa rd		Not relevant	Not relevant	Not relevant	CONTAI NER	Standa rd	Interm odal DG Surcha rge	Contra ct Rate	Select
130	STND Standa rd	_	Not rele- vant	Not rele- vant	Not rele- vant	Not rele- vant	Standa rd	Insura nce Premiu m	ct	Not se- lected
140	STND Standa rd	_	Not rele- vant	Not rele- vant	Not rele- vant	CONTAI	Standa rd	Custom s Origin	Contra ct Rate	Not se- lected

Line Number	Instruc- tion Type	Charge Type	Calcula- tion Base	Quantity	UoM	Calcula- tion Resolu- tion Base	Calcula- tion Method Type	Descrip- tion	Rate Type	Danger- ous Goods
150	STND Standa rd	_	Not relevant	Not relevant	Not relevant	CONTAI NER	Standa rd	Custom s Destin ation	Contra ct Rate	Not se- lected
160	STND Standa rd	_	Not rele- vant	Not rele- vant	Not relevant	CONTAI NER	Standa rd	Custom s Transi t	Contra ct Rate	Not se- lected
170	STND Standa rd	_	Not relevant	Not relevant	Not relevant	Not relevant	Standa rd	Invoic e Forwar ding, Fixed	Contra ct Rate	Not se- lected
180	STND Standa rd	_	CONTAI NER_CN T	1	PC	Not rele- vant	Standa rd	Weighi ng	Contra ct Rate	Not se- lected
190	STND Standa rd	_	Not relevant	Not relevant	Not relevant	CONTAI NER	Standa rd	Liftin g at Origin	Contra ct Rate	Not se- lected
200	STND Standa rd	_	Not relevant	Not relevant	Not relevant	CONTAI NER	Standa rd	Liftin g at Destin ation	Contra ct Rate	Not se- lected

5. Choose *New Entries* and enter the following data:

Field	Value
Calculation Sheet Template	RF_INTERMODAL_RR
Description	Rail Intermodal Door-to-Door
Charge Use	3 Customer and Service Provider

- 6. Double-click the folder *Define Calc. Sheet Template Items* and choose *New Entries*.
- 7. Enter the following data:

Line Number		Charge Type	Calcula- tion Base	Quantity	UoM	Calcula- tion Resolu- tion Base	Calcula- tion Method Type	Descrip- tion	Rate Type	Danger- ous Goods
100	STND Standa rd	_	Not rele- vant	Not rele- vant	Not relevant	CONTAI NER	Standa rd	Not relevant	Contra ct Rate	Not se- lected
110	STND Standa rd	_	ACTUAL _DIST	1	MI	CONTAI NER	Standa rd	Not rele- vant	Contra ct Rate	Not se- lected
120	STND Standa rd		Not relevant	Not relevant	Not relevant	CONTAI NER	Standa rd	Interm odal DG Surcha rge	Contra ct Rate	Select
130	STND Standa rd	_	Not relevant	Not relevant	Not relevant	Not relevant	Standa rd	Insura nce Premiu m	Contra ct Rate	Not se- lected
140	STND Standa rd	_	Not rele- vant	Not rele- vant	Not rele- vant	CONTAI NER	Standa rd	Custom s Origin	Contra ct Rate	Not se- lected
150	STND Standa rd	_	Not relevant	Not relevant	Not relevant	CONTAI NER	Standa rd	Custom s Destin ation	Contra ct Rate	Not se- lected
160	STND Standa rd	_	Not relevant	Not relevant	Not relevant	CONTAI NER	Standa rd	Custom s Transi t	Contra ct Rate	Not se- lected
170	STND Standa rd	_	Not relevant	Not relevant	Not relevant	Not relevant	Standa rd	Invoic e Forwar ding, Fixed	Contra ct Rate	Not se- lected

Line Number	Instruc- tion Type	Charge Type	Calcula- tion Base	Quantity	UoM	Calcula- tion Resolu- tion Base	Calcula- tion Method Type	Descrip- tion	Rate Type	Danger- ous Goods
180	STND Standa rd	_	CONTAI NER_CN T	1	PC	Not relevant	Standa rd	Weighi ng	Contra ct Rate	Not se- lected

8. Save your entries.

13.2.2 Defining Calculation Sheet for Cross-Town Chicago

Context

You use calculation sheets to calculate the charges that are incurred for a freight order or forwarding order.

You must create a calculation sheet for all of your carriers (truckers) and for the container move cross-town within Chicago.

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Charge Management and Service Product Catalogs Calculation Sheets Create Calculation Sheet.
- 2. Choose Continue without entering a calculation sheet template.
- 3. On the New Calculation Sheet screen, enter your data based on the following tables.
- 4. On the *General Data* tab page, enter the following data in *Basic Data* screen area:

Field	Description	Value
Calculation Sheet	Unique identifier for the calculation sheet to be defined	RF-TCCS-CR-01-CT
Description	Description of the calculation sheet	Calculation Sheet Cross- Town

Field	Description	Value
Charge Usage	Indicates whether the calculation sheet is used for customers, vendors (carriers), both, or neither. Furthermore, indicates whether the calculation sheet is used only for decision making during tendering, and so on.	Customer and Service Provider

- 5. In the *Items* screen area, choose *Insert* Single Item to add a new line item.
- 6. Select the line for 20 and enter the following data in the bottom of the screen.
- 7. On the *Basic Data* tab page, enter the following data:

Field	Description	Value
Line No	Line number of the item	20
Instruction Type	Rule to indicate how the charge item is applied for the calculation	Standard
Description	Description of the charge item in the calculation sheet	Basic Freight
Charge Type	Assigned charge type	FB00
Calculation Resolution Base	Indicates the level at which the calculation sheet is to be applied. For example, it can be applied at the header level for the whole freight order or at a particular stage only	CONTAINER
Calculation Method Type	Calculation method type	Standard

8. On the *Rate* tab page, enter the following data:

Field	Description	Value
Amount	Amount	118
Currency/Percentage	Currency or percentage	USD
Calculation Base	Identifies the actual base or factor with which the system calculates the charges for the scale	CONTAINER_CNT
Price Unit	Price unit	1
Calculation Rule UoM	Calculation rule unit of measure	TEU

9. On the *Preconditions* tab page, choose the *Insert* pushbutton and enter the following data:

Field	Description	Value
Orientation	Orientation	From
Source Type	Quantitative rate amount Unit of Measure	Location
Source	Source	RF_55989
Orientation	Orientation	То
Destination Type	Destination Type	Location
Destination	Destination	RF_66001

14 Definition of Service Product Catalogs

In this scenario, the portfolio of available services offered by the railroad is modeled in SAP Transportation Management as a service product catalog. This catalog provides a template of services from which the customer can choose in the lead-to-contract and order-to-cash process.

You can create forwarding agreements for one or more customers from the service product catalog. This enables you to easily specify services in an agreement, and subsequently in an order, to fulfill your customer's needs.

14.1 Defining Service Types

Context

This scenario requires service types to represent the service product offering by the railroad.

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Basic Functions General Settings Define Service Types .
- 2. Enter the following data:

Srvc. Type	Description
RF_CUSD	Customs Formalities Destination Country
RF_CUSF	Customs Formalities Forwarding Country
RF_CUST	Customs Formalities Transit Country
RF_DEST_T	Destination Service Intermodal Terminal
RF_DSID	Destination Service Intermodal Door
RF_INSP	Insurance Premium

Srvc. Type	Description
RF_INVF	Invoice Forwarding, Fixed
RF_LDSC	Load Securing
RF_LFTD	Lifting at Destination Stn
RF_LFTF	Lifting at Forwarding Stn
RF_ORIG_T	Origin Service Intermodal Terminal
RF_OSID	Origin Service Intermodal Door
RF_RCCL	Railcar Cleaning
RF_WEIG	Weighing

^{3.} Save your entries.

14.2 Defining Service Product Item Types

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Master Data

 **Agreements and Service Products Define FWA and Service Product Item Types Define FWA.
- 2. Select New Entries.
- 3. Enter the following data:

Field	Value
Item Type	IDD1
Description	Intermodal Door-to-Door
Calc. Sheet	Allowed
Add Services	Select
FWO Type	RF0I

Field	Value
FWQ Type	FWQ
Enable CRM	Not selected

- 4. Save your entry and ignore any warnings.
- 5. Select the row containing forwarding agreement item IDD1 and choose *Specify Preconditions* from the tree structure
- 6. Enter the following preconditions:

Field	Value Item 1	Value Item 2
Precondition	Movement Type	Shipping Type
Value	DD	30

7. Choose Assign Service Types and enter the following data:

Srvc. Type	Description	
RF_CUSD	Customs Formalities Destination Country	
RF_CUSF	Customs Formalities Forwarding Country	
RF_CUST	Customs Formalities Transit Country	
RF_INSP	Insurance Premium	
RF_LFTD	Lifting at Destination Stn	
RF_LFTF	Lifting at Forwarding Stn	
RF_WEIG	Weighing	

- 8. Save your entries.
- 9. Select New Entries.
- 10. Enter the following data:

Field	Value
Item Type	IRR1
Description	Intermodal Ramp-to-Ramp
Calc. Sheet	Allowed

Field	Value
Add Services	Select
FWO Type	RF0I
FWQ Type	FWQ
Enable CRM	Deselect

- 11. Save your entry and ignore any warnings.
- 12. Select the row containing forwarding agreement item IRR1 and choose *Specify Preconditions* from the tree structure
- 13. Enter the following preconditions:

Field	Value Item 1	Value Item 2
Precondition	Movement Type	Shipping Type
Value	RR	30

14. Choose Assign Service Types and enter the following data:

Srvc. Type	Description
RF_CUSD	Customs Formalities Destination Country
RF_CUSF	Customs Formalities Forwarding Country
RF_CUST	Customs Formalities Transit Country
RF_INSP	Insurance Premium
RF_INVF	Invoice Forwarding, Fixed
RF_WEIG	Weighing

14.3 Defining Service Product Catalog Types

Procedure

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Master Data

 **Agreements and Service Products Define FWA and Service Product Catalog Types Define FWA.
- 2. Select New Entries.
- 3. Enter the following data:

Field	Value
Agr. Type	RFIS
Description	Intermodal - Rail Service Product Cat
Track Changes	Select
Agr. No. Range	01
Text Schema	Default
FWO Type	RF0I
FWQ Type	FWQ
Item No. Interval	100
Enable Item Flow	Select

4. Select the Specify Preconditions folder and enter the following data:

Field	Value
Precondition	SHIPMENT
Value	30

5. Select the Assign Item Types folder.

Field	Value	Value
Item Type	IDD1	IRR1

Field	Value	Value		
Description	Intermodal Door-to-Door	Intermodal Ramp-to-Ramp		
Dflt Type	Not selected	Select		
Flow Srvcs	Select	Select		
Add Srvcs	Select	Select		

- 6. Save your entries.
- 7. Select New Entries.
- 8. Enter the following data:

Field	Value
Agr. Type	RFIA
Description	Intermodal - Rail Forwarding Agreement
Track Changes	Select
Agr. No. Range	01
Text Schema	DEFAULT
FWO Type	RF0I
FWQ Type	FWQ
Item No. Interval	100
Enable Item Flow	Select

9. Select the Specify Preconditions folder.

Field	Value
Precondition	SHIPMENT
Value	30

14.4 Defining Service Product Catalogs

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Charge Management and Service Product Catalogs Service Product Catalogs Create Service Product Catalogs.
- 2. Enter agreement type RFIS and choose Continue.
- 3. On the General Data tab page, enter the following data:

Field	Value
Agreement	RF_INTERMODAL_S001
Agreement Desc:	Rail Intermodal Service
Shipping Type	30 (Intermodal Rail)
Organizational Unit	RF-SORG-1

4. In the *Items* screen area, service products will be populated by item types assigned in Customizing for service product catalogs. Check that the following items exist and create any that are missing:

Field	Value
Item Number	100
Item Type	IDD1
Description	Intermodal Door-to-Door
Shipping Type	Intermodal Rail
Movement Type	Door to Door
Calculation Sheet Template	RF_INTERMOD_DD
· · · · · · · · · · · · · · · · · · ·	-

Field	Value
Service Type	· RF_CUSD
	o rf_cusf
	o rf_cust
	o rf_insp
	o rf_lftd
	o rf_lftf
	· RF_WEIG
Item Number	200
Item Type	IRR1
Description	Intermodal Ramp-to-Ramp
Shipping Type	Intermodal Rail
Movement Type	Ramp to Ramp
Calculation Sheet Template	RF_INTERMOD_RR
Service Type	o rf_cusd
	· RF_CUSF
	· RF_CUST
	· RF_INSP
	o rf_invf
	· RF_WEIG

^{5.} Once you have entered your data, release the agreement by choosing Set Status Released.

^{6.} Save your entries.

15 Forwarding Agreement

You use forwarding agreements to define pricing structures that are relevant for shippers and consignees. The forwarding agreement type is determined in the forwarding order during the charge calculation process.

15.1 Defining Forwarding Agreements for Customers

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Charge Management and Service Product Catalogs Service Product Catalogs Service Product Catalogs Charge Management and Service Product Catalogs Service Produc
- 2. Select service product catalog RF Intermodal S001
- 3. On the Item tab page, select service product item IDD1 and choose Create Forwarding Agreement.
- 4. On the General Data tab page, enter the following data:

Field	Value
Agreement	RF_I_STARLN_001
Agreement Desc:	Rail Intermodal Star Line 001
Valid From	<pre><current year="">-01-01</current></pre>
Valid To	<next year="">-12-31</next>
Document Currency	CAD
Shipping Type	30 Intermodal Rail
Organizational Unit	RF-SORG-1
Ordering Party	RF-CU-01

^{5.} In the *Items* screen area, check that item IDD1 has been transferred from the service product catalog along with the subitems for the services:

Field	Value
Item Number	100
Item Type	IDD1
Description	Intermodal Door-to-Door
Shipping Type	Intermodal Rail
Movement Type	Rail Door to Door
Calculation Sheet Template	RF_INTERMOD_DD
Service Type	 RF_CUSD RF_CUSF RF_CUST RF_INSP RF_INVF RF_LFTD RF_LFTTF RF_WEIG

- 6. In the *Items* screen area, choose Insert Insert Service Product and select service product ID IRR_S001.
- 7. Check that the following data has been populated and enter any data that is missing:

Field	Value
Item Number	200
Item Type	IRR1
Description	Intermodal Ramp-to-Ramp
Shipping Type	Intermodal Rail
Movement Type	Rail Ramp to Ramp
Calculation Sheet Template	RF_INTERMOD_RR

	Field	Val	ue
•	Service Type	0	RF_CUSD
		0	RF_CUSF
		0	RF_CUST
		0	RF_INSP
		0	RF_INVF
		0	RF_WEIG

- 8. Select item 100 (IDD1) and choose Add Calculation Sheet.
- 9. On the New Calculation Sheet screen, enter your data based on the tables below.
- 10. In the *Items* screen area, check that the calculation sheet items have been populated according to the calculation sheet template. Enhance the data to the charge items as follows:

Line No.	100	110	120	130	140	150	160	170	180	190	200
Instructi on Type	STND Stand ard										
Charge Type	RF_BA SE	RF_FU EL_MI	RF_I_ DG	RF_IN SP	RF_CU SF	RF_CU SD	RF_CU ST	RF_IN VF	RF_WE	RF_LF TF	RF_LF TD
Amount	Blank	0.37	6	30	25	50	38	15	25	14	14
Currenc y/ Percent age	CAD	CAD	8	CAD							
Calculat ion Base	Blank	ACTUA L_DIS T	Blank	Blank	Blank	Blank	Blank	Blank	CONTA INER_ CNT	Blank	Blank
Price Unit	Blank	1	Blank	Blank	Blank	Blank	Blank	Blank	1	Blank	Blank
Unit of Measur e	Blank	MI	Blank	Blank	Blank	Blank	Blank	Blank	PC	Blank	Blank
Rate Table	RF_I_ CU_00 1	Blank									

Calculat ion Resoluti on Base	CONTA	Blank	CONTA	Blank	CONTA	CONTA	CONTA	Blank	Blank	CONTA	CONTA
Calculat ion Method Type	Stand ard	Stand ard	Stand ard	Stand ard	Stand ard	Stand ard	Stand ard	Stand ard	Stand ard	Stand ard	Stand ard
Referen ce from Line No.	Blank	Blank	100	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank
Descrip tion	Blank	Blank	Inter modal DG Surch arge	Insur ance Premi um	Custo ms Origi n	Custo ms Desti natio n	Custo ms Trans it	Invoi ce Forwa rding	Weigh ing	Lifti ng at Origi n	Lifti ng at Desti natio n
			arge					Fixed			••
Rate Type	Contr act Rate	Contr act Rate	Contr act Rate	Contr act Rate	Contr act Rate	Contr act Rate	Contr act Rate		Contr act Rate	Contr act Rate	Contr act Rate
	act Rate	act	Contr	act	act	Contr	act	Fixed Contr act	act	act	Contr

- 11. Select item 200 (IRR1) and choose Add Calculation Sheet.
- 12. On the New Calculation Sheet screen, enter your data based on the tables below.
- 13. In the *Items* screen area, check that the calculation sheet items have been populated according to the calculation sheet template. Enhance the data to the charge items as follows:

Line No.	100	110	120	130	140	150	160	170	180
Instructio n Type		STND Standa rd	STND Standa rd	STND Standa rd	STND Standar d	STND Standa rd	STND Standa rd	STND Standa rd	STND Standa rd

Charge Type	RF_BAS E	RF_FUE L_MI	RF_I_D G	RF_INS P	RF_CUSF	RF_CUS	RF_CUS	RF_INV F	RF_WEI
Amount	Blank	0.37	6	30	25	50	38	15	25
Currency/ Percentag e	CAD	CAD	%	CAD	CAD	CAD	CAD	CAD	CAD
Calculatio n Base	Blank	ACTUAL _DIST	Blank	Blank	Blank	Blank	Blank	Blank	CONTAI NER_CN T
Price Unit	Blank	1	Blank	Blank	Blank	Blank	Blank	Blank	1
Unit of Measure	Blank	MI	Blank	Blank	Blank	Blank	Blank	Blank	PC
Rate Table	RF_I_C U_001	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank
Calculatio n Resolutio n Base	CONTAI NER	Blank	CONTAI NER	Blank	CONTAIN ER	CONTAI NER	CONTAI NER	Blank	Blank
Calculatio n Method Type	Standa rd	Standa rd	Standa rd	Standa rd	Standar d	Standa rd	Standa rd	Standa rd	Standa rd
Reference from Line No.	Blank	Blank	100	Blank	Blank	Blank	Blank	Blank	Blank
Descriptio n	Blank	Blank	Interm odal DG Surcha rge	Premiu	Customs Origin	s	Custom s Transi t	Invoic e Forwar ding, Fixed	Weighi ng
Rate Type	Contra ct Rate	ct	Contra ct Rate	Contra ct Rate	Contrac t Rate		Contra ct Rate	Contra ct Rate	Contra ct Rate
Dangerou s Goods	Blank	Blank	Select	Blank	Blank	Blank	Blank	Blank	Blank

Precondi-	Blank	Blank	RF-I-	Blank	Blank	Blank	Blank	Blank	Blank
tion Rule			DG						
for Calcu-									
lation									
Sheet									
Item									

- 14. Once you have entered your data, release the agreement by choosing Set Status Released .
- 15. Save your entries.

16 Freight Agreement

16.1 Defining Freight Agreement Item Types

Procedure

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Master Data

 Agreements and Service Products Define Freight Agreement Item Types**

 In Customizing for SAP Transportation Management Master Data

 Define Freight Agreement Item Types

 In Customizing for SAP Transportation Management

 Define Freight Agreement Item Types

 In Customizing for SAP Transportation Management

 Define Freight Agreement Item Types

 In Customizing for SAP Transportation Management

 Define Freight Agreement Item Types

 **De
- 2. Select New Entries.
- 3. Enter the following data:

Field	Value
Item Type	RF-1
Description	Rail Item Type

- 4. Select the Specify Preconditions folder.
- 5. Choose the *New Entries* pushbutton and enter the following data:

Field	Value
Precondition	MOT
Value	02

- 6. Save your entries.
- 7. Select the New Entries pushbutton and enter the following data:

Field	Value
Item Type	RF-3
Description	Road Item Type

8. Select the Specify Preconditions folder.

9. Choose the New Entries pushbutton and enter the following data:

Field	Value
Precondition	MOT
Value	01

^{10.} Save your entries.

16.2 Defining Freight Agreement Types

Procedure

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Master Data

 Agreements and Service Products Define Freight Agreement Types**

 **In Customizing for SAP Transportation Management Master Data

 Define Freight Agreement Types

 **In Customizing for SAP Transportation Management Master Data

 Define Freight Agreement Types

 **In Customizing for SAP Transportation Management Master Data

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 Define Freight Agreement Types

 **In Customizing for SAP Transportation Management Master Data

 **Define Freight Master Data

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- 2. Choose the *New Entries* pushbutton and enter the following data:

Field	Value
Agr. Type	RFF0
Description	Rail Freight Agreement
Track Changes	Select
Agr. No. Range	01
Text Schema	DEFAULT
Time Determ. Type	Simple - Transit Duration Only
Disp. Time Det. Ty.	2 - Editable

3. Choose the *Specify Preconditions* folder and enter the following data:

Field	Value
Precondition	MOT

Field	Value
Value	02

4. Select the Assign Item Types folder and enter the following data:

Field	Value
Item Type	RF-1
Description	Rail Item Type

- 5. Save your entries and go back.
- 6. Select the New Entries pushbutton to create a second freight agreement type.
- 7. Enter the following data:

Field	Value
Agr. Type	RFT0
Description	Trucking Freight Agreement
Track Changes	Select
Agr. No. Range	01
Text Schema	DEFAULT
Time Determ. Type	Simple - Transit Duration Only
Disp. Time Det. Ty.	2 - Editable

8. Select the Specify Preconditions folder and enter the following data:

Field	Value
Precondition	MOT
Value	01

16.3 Defining Freight Agreements for Rail Carriers

Use

Freight agreements contain all of the information required to calculate freight charges.

Prerequisites

You have defined a freight agreement type.

Procedure

Creating a Freight Agreement for Carrier BURL

- 1. In SAP NetWeaver Business Client (NWBC), choose Freight Agreement Management Freight Agreement Agreement Agreement.
- 2. On the New Freight Agreement screen, enter **RFFO** as the freight agreement type.
- 3. Choose Continue.
- 4. On the General Data tab page, create an agreement by entering the following data:

Field	Value
Agreement	RF_I_BURL_001
Description	Rail Intermodal BURL 001
Valid-From Date	<pre><current year="">-01-01</current></pre>
Valid-To Date	<next year="">-12-31</next>
Document Currency	USD
Main Transportation Mode	02 Rail
Organizational Unit	RF-PORG-1
Carrier	RF-CR-BURL

5. In the *Items* screen area, choose *Insert*.

6. On the Forwarding Agreement Items tab page, select item type RF-1 and enter the following data:

Field	Value
Item Number	100
Item Type	RF-1
Calculation Sheet Template	Blank

- 7. Select item 100 (RF-1) and choose Add Calculation Sheet.
- 8. On the Calculation Sheet Details screen, enter the following data in the Basic Data screen area:

Field	Value	
Line Number	20	
Instruction Type	STND Standard	
Charge Type	RF_BASE	
Rate Table	RF_CR_BURL_01	
Calculation Resolution Base	PASSIVE_RESOURCE	
Calculation Method Type	Standard	
Description	Railcar-Based Freight	
Rate Type	Contract Rate	

- 9. Once you have entered your data, release the freight agreement by choosing Set Status Released .10. Save your entries.
- Creating a Freight Agreement for Continental Rail
- 1. In SAP NetWeaver Business Client (NWBC), choose Freight Agreement Management Freight Agreement Agreement .
- 2. On the New Freight Agreement screen, enter **RFFO** as the freight agreement type.
- 3. Choose Continue.
- 4. On the General Data tab page, create an agreement by entering the following data:

Field	Value	
Agreement	RF_I_CR_02	
Description	Rail Intermodal Carrier 02	
Valid-From Date	<pre><current year="">-01-01</current></pre>	

Field	Value
Valid-To Date	<next year="">-12-31</next>
Agreement Priority	1
Document Currency	CAD
Main Transportation Mode	02 Rail
Organizational Unit	RF-PORG-1
Carrier	RF-CR-CN

- 5. In the *Items* screen area, choose *Insert*.
- 6. On the Forwarding Agreement Items tab page, select item type RF-1 and enter the following data:

Field	Value
Item Number	100
Item Type	RF-1
Calculation Sheet Template	Blank

- 7. Select item 100 (RF-1) and choose *Add Calculation Sheet*.
- 8. On the Calculation Sheet Details screen, enter the following data in the Basic Data screen area:

Field	Value	
Line Number	20	
Instruction Type	STND Standard	
Charge Type	RF_BASE	
Rate Table	RF_CR_001	
Calculation Resolution Base	PASSIVE_RESOURCE	
Calculation Method Type	Standard	
Description	Railcar-Based Freight	
Rate Type	Contract Rate	

- 9. Once you have entered your data, release the freight agreement by choosing Set Status Released .
- 10. Save your entries.

16.4 Defining Freight Agreements for Trucking

Use

Freight agreements contain all of the information required to calculate freight charges.

You must create freight agreements for all of your carriers (truckers) and for the container move cross-town within Chicago.

Prerequisites

You have defined a freight agreement type.

Procedure

Defining Freight Agreements for Cross-Town Drayage

- 1. In SAP NetWeaver Business Client (NWBC), choose Freight Agreement Management Freight Agreement Agreement Agreement.
- 2. On the New Freight Agreement screen, enter **RFTO** as the freight agreement type.
- 3. Choose Continue.
- 4. On the General Data tab page, create an agreement by entering the following data:

Field	Value
Agreement	RF-I-CR-01-CT
Description	Cross-Town Chicago
Purchasing Organization	RF-PORG-1
Controlled	Select
Valid-From Date	<pre><current year="">-01-01</current></pre>
Valid-To Date	<next year="">-12-31</next>
Agreement Priority	1
Document Currency	USD

5. In the *Items* screen area, choose *Insert Item* and enter the following data:

Field	Value
Item Number	100
Item Type	RF-3
Calculation Sheet Template	Blank

- 6. Select item 100 (RF-3) and choose *Add Calculation Sheet*.
- 7. On the New Calculation Sheet screen, enter the following data in the Basic Data screen area:

Field	Value
Line Number	20
Instruction Type	STND Standard
Charge Type	FB00
Amount	5.00
Currency	USD
Calculation Base	ACTUAL_DIST
Price Unit	1
UoM	мі
Description	Basic Rate
Rate Type	Contract Rate

- 8. Once you have entered your data, release the freight agreement by choosing Set Status Released .
- 9. Save your entries.

17 Configuration of Organizational Settings for Charge Management

17.1 Defining Cost Distribution Profiles

Context

In this procedure, you define how internal costs are to be distributed. Distribution can be, for example, either direct or hierarchical based on forwarding order or SAP ERP items, or based on factors such as the net weight, gross weight, volume, or distance.

Procedure

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Basic Functions Cost Distribution Define Cost Distribution Profiles.
- 2. Create cost distribution profile RF-COST using the following data:

Field	Description	Value
Distr. Profile	Distribution profile ID	RF-COST
Description	Description of the profile	Rail Cost Distribution: Gross Weight
Distr. Method	Type of Distribution Method	DIRECT
Distribution Rule	Distribution based on parameter	Gross Weight
Distr. Level	Level of distribution	Forwarding Order

17.2 Defining Calculation Profiles

Procedure

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Basic Functions Charge Calculation Basic Settings Define Calculation Profile.
- 2. Enter the following data:

Field	Description	Value
Calculation Profile	Calculation profile	RF-CP-01
Description	Description of profile	Rail Calculation Profile
Calc. Date Type	Calculation date type	Expected Start Date of Main Carriage
Calculation Level	Calculation level	Calculation at Stage
Agr. Det. Rules	Agreement Determination Rule	Blank
Through Rates	Through rates	Select
Dim. WT Profile	Dimensional weight profile	1166
Dim Wt. Cond.	Condition for dimensional weight pro- file determination	Blank
Exch. Rate Type	Exchange rate type	Blank
Data Source	Data source	Ordered Route

17.3 Defining Service Date Rules

Procedure

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Settlement Define Service Date Rules and Rule Prioritization.
- 2. Select the Define Rules for Service Date folder and choose the New Entries pushbutton.
- 3. Enter rule **RF01** with description **Rail Services**.
- 4. Select the *Prioritize Date Types for Rule* folder and enter the following data:

Date Type	Prio
Actual Start Date of First Stage Main Carriage	3
Actual Start Date of Loading	1
Expected Start Date of Loading	2

5. Save your entries.

17.4 Defining Settlement Group

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Settlement

 Define Settlement Groups and Settlement Rules

 .
- 2. Select the Define Settlement Groups folder and choose the New Entries pushbutton.
- 3. Enter group RF-GRP-01 with description Rail Freight Group 01.
- 4. Select the Assign Charges folder and enter the following charge types:

Chrg Level	Charge Type
Charge Type	RF_BASE

Chrg Level	Charge Type
Charge Type	RF_CUSD
Charge Type	RF_CUSF
Charge Type	RF_CUST
Charge Type	RF_ECC
Charge Type	RF_FUEL_MI
Charge Type	RF_I_DG
Charge Type	RF_INSP
Charge Type	RF_INVF
Charge Type	RF_LFTD
Charge Type	RF_LFTF
Charge Type	RF_RCCL
Charge Type	RF_REV_SPLIT
Charge Type	RF_SWTCH_C
Charge Type	RF_SWTCH_Y
Charge Type	RF_WEIG

^{5.} Save your entries.

17.5 Defining Settlement Rules

- In Customizing for SAP Transportation Management, choose Transportation Management Settlement
 Define Settlement Groups and Settlement Rules
- 2. Select the *Define Settlement Rules* folder and choose the *New Entries* pushbutton.
- 3. Enter rule **RF-SETTL01** and the description **Rail Settlement**.

4. Select the Define Settlement Creation Settings folder and enter the following data:

Field	Value
Settlement Group	RF_GRP_01
Execution Sts	01 Execution Not Started
Service Date Rule	RF01 Rail Services
Bling Schedule	Blank

5. Save your entries.

17.6 Defining Settlement Profiles

Context

In this procedure, you define a profile for creating invoices. The settlement profile comprises a set of parameters that you can use to control how the system creates invoices. You can assign the settlement profile to an organizational unit in transaction /SCMTMS/TCM FASET.

If you do not specify a settlement profile, the system uses standard default settings to create settlement documents.

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Settlement

 Define Settlement Profile

 .
- 2. Enter the following data:

Field	Description	Value
Settlement Prof.	Settlement profile	RF_SP001
Description.	Description	Rail Settlement Profile

Field	Description	Value
Profile Category	Determines whether the profile is valid for freight settlement, forwarding settlement, or both	Forwarding and Freight Settlement
Data Source	Identifies the data source to be used when creating settlement documents	Planned Data
Split/Cons	Defines the split and consolidation cri- teria for generating settlement docu- ments	Blank
Calculation Option	Specifies how the values are calculated when the invoice is created. You can copy fixed charges and recalculate others, or copy all charges.	B - Copy All Charges
Collective Invoice	Collective invoice	Deselect
Service Date Rule	Service Date Determination Rule	RF01
Stage Split	Stage split	Not selected
Settlement Rule	Rule that groups charges and their associated settlement creation settings.	RF-SETTL01

^{3.} Save your entries.

17.7 Defining Charges Profiles

- 1. In Customizing for SAP Transportation Management, choose Transportation Management Basic Functions Charge Calculation Basic Settings Define Charges Profiles.
- 2. Create a new charges profile by entering the following data:

Field	Value
Charges Profile	RF-CHAR-01

Field	Value
Default Purchasing Organization	<pre><internal id="" of="" organization="" purchasing="" your=""></internal></pre>
Default Carrier	Blank
Settlement Profile	RF-SP001
Freight Settlement Profile	RF-SP001
Calculation Profile	RF-CP-01
Purchasing Calculation Profile	RF-CP-01
Local Currency	CAD
Distribution Profile	RF-COST

3. Save your entries.

17.8 Assigning Charges Profiles

Change the Canadian Sales Organization

- 1. In SAP NetWeaver Business Client, choose Master Data Organization Edit Organization and Staffing .
- 2. Select the row Railway Sales Organization CA 1.
- 3. On the Org. Data tab page, enter charges profile RF-CHAR-01.
- 4. Save your entries.

Change the Canadian Purchasing Organization

- 1. In SAP NetWeaver Business Client, choose Master Data Organization Edit Organization and Staffing .
- 2. Select the row Railway Sales Organization CA 1.
- 3. On the *Org. Data* tab page, enter charges profile **RF-CHAR-01**.
- 4. Save your entries.

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