Configuration Guide for Ocean Freight SAP Transportation Management



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1 Configuration Guide for LCL and FCL Ocean Freight

About this Document

This configuration guide describes a scenario for LCL (less than container load) and FCL (full container load) ocean freight. Implement this scenario as described, and once you have verified the functionality, you can modify the data to suit your own environment and operating conditions.

Change History

Table 2

Version	Date	Description
1.0	August 2011	Initial release
2.0	September 2012	Master data and Customizing settings renamed to correspond to those in the air freight scenario.
2.1	February 2013	Updated calculation sheets and rate tables
3.0	December 2013	Updated for SAP Transportation Management 9.1
4.0	December 2014	Updated for SAP Transportation Management 9.2
4.1	March 2015	Updated to include information about FCL scenario

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 service.sap.com/notes .

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

2 The Scenario

This document describes the configuration settings for the LCL (less than container load) and FLC (full container load) ocean freight scenario in SAP Transportation Management (SAP 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

If you require a scenario-specific enterprise structure, we recommend that you copy the existing, standard configuration settings (such as Country Template for Company Codes including. G/L Accounts) and change them as necessary (such as addresses).

i Note

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 number 458914). An overview of the prefixes and suffixes used is in the following table (this document uses the system ID ERP001 as an example. Substitute this with your own system ID):

Table 4

Business Object	Prefix	Suffix
Customer	CU-	-@ERP001
Plant	PL-	-@ERP001
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 BAdI in your system, the names of the objects are not changed. To add a prefix or suffix to the master data objects that are transferred from SAP ERP to SAP TM, implement 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: OAF-CR-01
- Carrier location name in SAP ERP: CAOAF-CR-01@ERP001
- Carrier name in SAP TM: OAF-CR-01

Prerequisites

Before you begin to configure the LCL or FCL ocean freight scenario, see the following guides in SAP Solution Manager under SAP Transportation Management Configuration Structures Basic Settings for SAP TM <release level> 3:

- Basic Settings and Integration for ERP
- Basic Settings for SAP TM
- Integration of SAP TM and SAP Event Management
- 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
 - Invoice document creation (ERS settlement)
 - 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:

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

User Profile

Before you begin to test the LCL or FLC ocean freight scenario, you must configure the user profile $\texttt{TM_INVOICE_CLERK}$ 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 ■.
- 2. Choose the Parameters tab page.
- 3. In the Parameter ID column, enter TM INVOICE CLERK.
- 4. Save your entries.

Geography

The "LCL Ocean Freight" scenario assumes an international overseas transportation network with four shippers located in Japan, ocean transport from the port in Yokohama to Los Angeles, and four customers located in the western part of the United States.

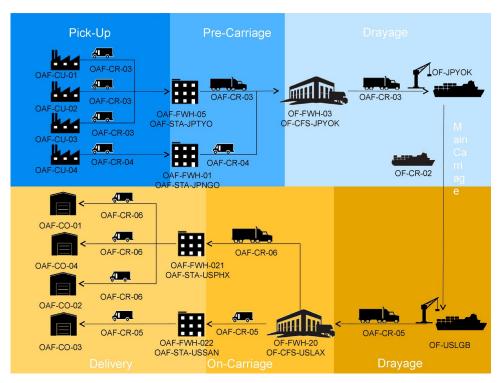


Figure 1: Stages in the "LCL Ocean Freight" Scenario

To use the transportation network as described in this document, you must ensure that the vendors and plant used in the customer system are located in the same vicinity.

The following organizational structures and document types are used by default, and must be changed to customer-specific organizational structures as required:

• Organizational data – Japan

Table 6

Parameter	Value
Company Code	5000 (IDES Japan)
Controlling Area	5000 (CO Japan)
Plant	5000 Tokyo
Purchasing Organization	5000 (IDES Japan)
Sales Organization	5000 (IDES Japan)
Distribution Channel	10 (Final Customer Sales)

• Organizational data – United States

Parameter	Value
Company Code	3000 (IDES USA Inc.)
Controlling Area	3000 (CO North America)
Plant	3300 Los Angeles
Purchasing Organization	3000 (IDES USA Inc.)
Sales Organization	3000 (IDES USA Philadelphia)
Distribution Channel	10 (Final Customer Sales)

3 SAP ERP Master Data: Customers and Vendors

After defining master data for customers and vendors, you can transfer the data from SAP ERP to SAP TM.

The process involves the following tasks:

- Defining vendor master data [page 12]
 In this scenario, vendors represent the carriers.
- Defining customer master data [page 14]
- Transferring master data from SAP ERP to SAP TM [page 16]

3.1 Defining Vendor Master Data in SAP ERP

In this procedure, you create vendor master data. The vendor master is then transferred to SAP TM through CIF. The corresponding locations with location type 1011 (Vendor) are created in SAP TM. In this case, vendors represent our 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 the purchasing organizations 3000 and 5000 according to the following table:

Table 8

Vendor ID	Company Code	Purchasing Organization	Account Group
OAF-CR-01	5000	5000	0005
OAF-CR-02	3000 and 5000	3000 and 5000	0005
OAF-CR-03	5000	5000	0005
OAF-CR-04	5000	5000	0005
OAF-CR-05	3000	3000	0005
OAF-CR-06	3000	3000	0005

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

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Table 9

Vendor ID	Name	Search Term	Address
OAF-CR-01	EASC - East Asia Shipping Corp	Ocean Carrier JP	Nippon Costal Highway 101, 2300054 Yokohama, JP, Region 14 (Kanagawa)
OAF-CR-02	SOCAL Shipping Corporation	Ocean Carrier US	Main Street 25, 90745 Long Beach, United States, Region CA
OAF-CR-03	Uchida Trucking	Truck Carrier JP	Tome Nagi 7-53-12, 1020021, Ota-ku, JP, Region 13 (Tokyo)
OAF-CR-04	Ich-Ni Express	Truck Carrier JP	Hadaka-Jime 15, 4600001 Nagoya, JP Region 23 (Aichi)
OAF-CR-05	ACME Lines	Truck Carrier US	Beach Street 10, 90745-1246 Long Beach, United States, Region CA
OAF-CR-06	Desert Express Lines	Truck Carrier US	First 355, 85025-8848 Phoenix, United States, Region AZ

4. On the Create Vendor: Accounting Information Accounting screen, enter the following data for each vendor:

Table 10

Table 10				
Vendor ID	Recon. Account	Cash Management Group		
OAF-CR-01	141100	A1		
OAF-CR-02 (company code 3000)	196300	A1		
OAF-CR-02 (company code 5000)	141100	A1		
OAF-CR-03	141100	A1		
OAF-CR-04	141100	A1		
OAF-CR-05	196300	A1		
OAF-CR-06	196300	A1		

5. On the *Create Vendor: Payment Transactions Accounting* screen, enter the following data for each vendor:

Vendor ID	Payment Terms
OAF-CR-01	0002
OAF-CR-02	0002
OAF-CR-03	0002
OAF-CR-04	0002
OAF-CR-05	0002
OAF-CR-06	0002

6. On the Create Vendor: Purchasing Data screen, enter the following data for each vendor:

Table 12

Table 12						
Vendor ID	OAF-CR-01	OAF-CR-02	OAF-CR-03	OAF-CR-04	OAF-CR-05	OAF-CR-06
Order Currency	JPY	USD	JPY	JPY	USD	USD
Terms of Payment	0002	0002	0002	0002	0002	0002
Incoterms	Blank	Blank	Blank	Blank	Blank	Blank
Purchase Group	Blank	Blank	Blank	Blank	Blank	Blank
Planned Delivery Time	Blank	Blank	Blank	Blank	Blank	Blank
Conf. Control	Blank	Blank	Blank	Blank	Blank	Blank
Shipping Condition	Blank	Blank	Blank	Blank	Blank	Blank

3.2 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 call transaction xD01.
- 2. On the initial screen, enter the data shown in the following table:

Table 13: Japanese Customers

Table 10. Supullose Gust	0111010			
Customer ID	OAF-CU-01	OAF-CU-02	OAF-CU-03	OAF-CU-04
Account Group	KUNA: General Customers	KUNA: General Customers	KUNA: General Customers	KUNA: General Customers
Company Code	5000	5000	5000	5000

Sales Organization	5000	5000	5000	5000
Distribution Channel	10	10	10	10
Division	00	00	00	00

- 3. Choose Continue.
- 4. Enter the following address data:

Table 14: Japanese Customers: Address Data

Table 14. Japanese Cusi	Torriers. Address Data			
Customer ID	OAF-CU-01	OAF-CU-02	OAF-CU-03	OAF-CU-04
Name	KAN XINSON CLOTHING CO. LTD.	Wabei Electronics Factory	Japan Cable LTD	Samurai Fireworks LTD
Street	Kioi-cho	Denenchofu	Kawabe	Shirokane
House Number	7-1	2-53-12	3-25	1-27-6
Postal Code	1020094	1020021	5011198	1080072
City	Chiyoda-ku	Ota-ku	Gifu	Minato-ku
Region	13	13	23	13
Country	JP	JP	JP	JP
Time Zone	JAPAN	JAPAN	JAPAN	JAPAN

5. Choose Sales Area Data and enter the following data for all customers:

Table 15: Japanese Customers: Sales Area Data

Tab Page	Field	Entry
Sales	Price Group	01
	Cust. pric. proc.	1
Shipping	Order combination	Activate
	Shipping Condition	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 customers:

Table 16: Japanese Customers: Company Code Data

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

7. Repeat the steps above to create the following U.S. customers:

Table 17: U.S. Customers

Table 17. U.S. Gustofflei	3			
Customer ID	OAF-CO-01	OAF-CO-02	OAF-CO-03	OAF-CO-04
Company Code	3000	3000	3000	3000
Sales Organization	3000	3000	3000	3000
Distribution Channel	10	10	10	10
Division	00	00	00	00
Name	Dosena Clothing Co Factory	Ten Media Inc.	Soutwire CO.	Scottsdale Fireworks Inc.
Street	State Route	Stallard Pl	West Main Street	Alma School Road
House Number	1710 W	10940 N	575	2012 N
Postal Code	86336	85737	92227	85256
City	Sedona	Tucson	Brawley	Scottsdale
Region	AZ	AZ	CA	AZ
Country	US	US	US	us
Time Zone	MSTNO	MSTNO	PST	MSTNO
Price Group	01	01	01	01
Cust. pric. proc.	1	1	1	1
Shipping Conditions	01	01	01	01
Order combination	Activate	Activate	Activate	Activate
Incoterm	Blank	Blank	Blank	Blank
Incoterm Locations	Blank	Blank	Blank	Blank

8. Save your entries.

3.3 Transferring Master Data from SAP ERP to SAP TM

Procedure

Creating the Integration Models

- 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 call transaction CFM1.
- 2. Create separate integration models for transferring materials for plant, and vendor and shipping point. Take the following information into account:
 - o Model name: OAF-IM-ORG for plants

- Model name: OAF-IM-DAT for vendors, customers and shipping points
- Use the following details for both models:
 - Use the same logical TM system name, for example, TM1CLNT001 (input help [F4] is available)
 - Use APO application TM (for example, APO)
- Prefix your selection with the initial letters, OF*, for customers and vendors
 - Make sure that only plant is highlighted for model OAF-IM-ORG and that only shipping point, customer and vendor are highlighted for model OAF-IM-DAT.
 - In OAF-IM-ORG select the corresponding plants for the transfer (3300 Los Angeles and 5000 Tokyo).
 - In OAF-IM-DAT select the corresponding shipping points (3300 Los Angeles and 5000 Tokyo).
- o In model OAF-IM-DAT, make sure that you activate the creation of business partners in the *Vendors and 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, 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 \(\) Activate \(\) or call transaction CFM2 .
- 7. Activate the two data models. Use transaction SMQ1 in SAP ERP to verify that all data has been transported. Use transaction SMQ2 in SAP TM system to verify data transfer.

1 Note

- When you transfer vendors to the SAP TM system, you must ensure that the Create Loc./BP function (create Business Partners in TM for the location) is set to 2 on the Vendors tab page so that business partners are generated for vendors.
- You can also create business partners for plants and shipping conditions automatically by implementing a BAdl. For more information, see SAP Note number 1410353 .



Caution

If the same master data is in more than one model, only one of the models must be activated at a time. Otherwise, data is not transferred properly.

Checking and Updating Transported Data in SAP TM

- 1. On the SAP Easy Access screen for SAP TM, choose Master Data Transportation Network Define Location or call transaction / SCMTMS/LOC3.
- 2. Verify the plant, receiving point, vendors, and customers as shown in the following table:

ERP Data	TM Data	
Plant 3300, 5000	PL3300@ERP001;PL5000@ERP001	
Receiving Point 5000 , 3300	SP3300@ERP001;SP5000@ERP001	
Customer OAF-CU-01, OAF-CO-01	CUOAF-CU-01@ERP001,CUOAF-CO-01@ERP001	

Table 19

TUDIC 13		
Location Name	Longitude	Latitude
CUOAF-CU-01@ERP001	+ 139: 44: 16	+ 35: 40: 53
CUOAF-CU-02@ERP001	+ 139: 30: 00	+ 35: 45: 00
CUOAF-CU-03@ERP001	+ 137: 15: 00	+ 35: 00: 00
CUOAF-CU-04@ERP001	+ 139: 44: 16	+ 35: 40: 52
CUOAF-CO-01@ERP001	- 111: 46: 25	+ 34: 50: 38
CUOAF-CO-02@ERP001	- 110: 56: 51	+ 32: 24: 15
CUOAF-CO-03@ERP001	- 115: 33: 05	+ 32: 58: 44
CUOAF-CO-04@ERP001	- 111: 51: 23	+ 33: 28: 11

- 4. On the SAP Easy Access screen for SAP TM, choose ▶ Master Data ▶ General ▶ Define Business Partner ▮ or call transaction BP.
- 5. Verify the customers as shown in the following table:

Table 20

SAP ERP Data	SAP TM Data
Carrier OAF-CR-01	CAOAF-CR-01@ERP001

- 6. Check that the following business partners have the business partner roles *Sold-to Party* (CRM000) and *Vendor* (BBP000):
 - o OAF-CU-01
 - OAF-CU-02
 - o OAF-CU-03
 - OAF-CU-04
- 7. Check that the following business partners have the business partner roles *Sold-to Party* (CRM000) and *Ship-to Party* (CRM002):
 - o OAF-CO-01
 - o OAF-CO-02
 - o OAF-CO-03
 - O OAF-CO-04

1 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.

4 Application Administration in SAP TM

Application administration comprises defining the following settings and profiles:

- Carrier selection settings [page 19]
- Optimizer settings [page 20]
- Capacity settings [page 22]

Define a user-specific grouping of capacities that is taken into account during transportation planning.

• Planning profiles [page 25]

Define a planning profile that contains all of the relevant settings for optimizer planning and creating transportation proposals using the routing guide.

Selection profiles [page 29]

Selection profiles define the selection of the freight units based on geography, pickup dates, and delivery dates.

Transportation cockpit layouts [page 33]

You can create layouts for displaying capacities and requirements in your transportation cockpit.

4.1 Defining Carrier Selection Settings

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Application Administration ➤ Planning ➤ Planning Profile Settings ➤ Carrier Selection Settings ➤ Create Carrier Selection Settings ➤.
- 2. Create the carrier selection setting OF-CAR-SEL-TRSP and enter the following data:

Field	Value
Carrier Selection Settings	OF-CAR-SEL-TRSP
Description	Ocean Freight LCL Truck Carrier Selection
Check Incompatibilities	Deselect
Parallel Processing Profile	Blank
Type of Carrier Selection Settings	General Carrier Selection
Transportation Allocation Usage	Do Not Use Transportation Allocations
Business Share Usage	Do Not Use Business Shares
Strategy	Costs

Field	Value
Carrier Cost Origin	Use Internal Costs

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

Table 22

Tuble 22	
Field	Value
Planning Strategy	TSPS_DEF
Optimizer Runtime	6
Action for Manual Rankings	Remove
Transportation Charge Interpretation	Accept Carrier with Charges of Zero
Action After Carrier Selection Run	Accept Carrier with Charges of Zero as C with Lowest Cost or Highest Cost
Continuous Move Type	Use Transportation Lane Settings
Continuous Move Information	Select
Check Distance and Duration	Select
CM Cost Recalculation of TCM	No Recalculation

4. Save your entries.

4.2 Defining Optimizer Settings

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Application Administration ➤ Planning ➤ Planning Profile Settings ➤ Optimizer Settings ➤ Create Optimizer Settings ▼.
- 2. Create the optimizer setting $\mathtt{OF}\mathtt{-OPT}\mathtt{-SET}\mathtt{-STD}$ and enter the following data:

Table 23

alue
F-OPT-SET-STD
cean Freight - Optimizer Settings
SR_DEF
ew Freight Order when Resource is Empty
ave Route and Freight Orders
SR_DEF
F

Field	Value
Maximum No of Transshipment Loc	2
Maximum Runtime (Seconds)	10
Consider Capacity During Optimization	Yes

- 3. Save your entries.
- 4. In SAP NetWeaver Business Client (NWBC), choose Application Administration Planning Planning *Profile Settings* ▶ *Optimizer Settings* ▶ *Create Optimizer Settings* **〗**.
- 5. Create the optimizer setting OAF-OPT-SET-CN and enter the following data:

Table 24

Field	Value
Optimizer	OAF-OPT-SET-CN
Description	Ocean Freight Optimizer Settings Container Unit
Planning Strategy	VSR_DEF FO
Building Rule	New Freight Order when Resource is Empty
Accept Transport Prop	Save Route and Freight Documents
Planning Strategy for Transport Prop	VSR_DEF
Max. Number of Trans Proposals	5
Max. No. of Parallel Processes	1
Maximum No of Transshipment Loc	6
Maximum Runtime (Seconds)	20
Rough Planning	Prefer Detailed Planning Over Rough Planning
Ignore Capacity DG ADR	Selected
Consider Capacity During Optimization	No
Max. No. of Transshipment Loc.	6
Search Depth for Trans. Loc.	6
Search Depth for Connections	5
Automatic Connection Determination	Selected
Default Routes for Freight Units	Prefer Default Routes
Default Routes for Railcar Units	Do Not Consider Default Routes
Default Routes for Container Units	Only Consider Default Routes

6. Save your entries.

4.3 Defining Capacity Settings

You can use this procedure to define a user-specific grouping of capacities that is taken into account during transportation planning.

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Application Administration ➤ Planning ➤ Planning Profile Settings ➤ Capacity Selection Settings ➤ Create Capacity Selection Settings ➤.
- 2. Create capacity selection setting OF-CAP-SEL-PRE with the following data:

Description: Ocean Freight - Capa. Prof. Pre-Carriage

Table 25: Vehicle Resource

Field	Value
Veg. Res. Sel. Attr	VEHICLERES_ID
Sign	Inclusive
Option	Pattern
Lower Limit	OF-JP*

Table 26: Vehicle Resource

Field	Value
Veg. Res. Sel. Attr	VEHICLERES_ID
Sign	Inclusive
Option	=
Lower Limit	OF_JP_TRACTOR

Table 27: Vehicle Resource

Field	Value
Veg. Res. Sel. Attr	VEHICLERES_ID
Sign	Inclusive
Option	=
Lower Limit	OF_JP_TRAILER

Table 28: Vehicle Resource

Field	Value
Veg. Res. Sel. Attr	VEHICLERES_ID
Sign	Inclusive
Option	=
Lower Limit	OF_JP_TRUCK

and:

Table 29: Container Resource

Attr. for Container Res. Sel.	Sign	Option	Lower Limit	Upper Limit
TURES_ID	Inclusive	=	CNTYO_42G0	Blank
TURES_ID	Inclusive	=	CNTYO_20G0	Blank
TURES_ID	Inclusive	=	CNTYO_22R1	Blank
TURES_ID	Inclusive	=	CNNGO_42G0	Blank
TURES_ID	Inclusive	=	CNNGO_20G0	Blank
TURES_ID	Inclusive	=	CNNGO_22R1	Blank

and:

Table 30: Schedules

Field	Value
Attr. For Schd. Sel.	SCH_ID
Sign	Inclusive
Option	Equal (=)
Lower Limit	OAF-TRUCKSCHED-01

and:

Table 31: Schedules

Field	Value
Attr. For Schd. Sel.	SCH_ID
Sign	Inclusive
Option	Equal (=)
Lower Limit	OAF-TRUCKSCHED-02

- 3. Save your entries.
- 4. Create the capacity selection setting OF-CAP-SEL-ON with the following data:

Description: Ocean Freight - Capa. Prof. On-Carriage

Table 32: Vehicle Resource

Field	Value
Veg. Res. Sel. Attr	VEHICLERES_ID
Sign	Inclusive
Option	Pattern
Lower Limit	OF-US*

Table 33: Vehicle Resource

Field	Value
Veg. Res. Sel. Attr	VEHICLERES_ID
Sign	Inclusive
Option	=
Lower Limit	OF_US_TRAILER

Table 34: Vehicle Resource

Field	Value
Veg. Res. Sel. Attr	VEHICLERES_ID
Sign	Inclusive
Option	=
Lower Limit	OAF_US_TRACTOR

and:

Table 35: Container Resource

Attr. for Container Res. Sel.	Sign	Option	Lower Limit	Upper Limit
TURES_ID	Inclusive	=	CNTYO_42G0	Blank
TURES_ID	Inclusive	=	CNTYO_20G0	Blank
TURES_ID	Inclusive	=	CNTYO_22R1	Blank
TURES_ID	Inclusive	=	CNNGO_42G0	Blank
TURES_ID	Inclusive	=	CNNGO_20G0	Blank
TURES_ID	Inclusive	=	CNNGO_22R1	Blank

and:

Table 36: Schedules

Field	Value
Attr. For Schd. Sel.	SCH_ID
Sign	Inclusive
Option	Equal (=)
Lower Limit	OF-TRUCKSCHED-03

Table 37: Schedules

Field	Value
Attr. For Schd. Sel.	SCH_ID
Sign	Inclusive

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Field	Value
Option	Equal (=)
Lower Limit	OF-TRUCKSCHED-04

5. Save your entries.

4.4 Defining Planning Profiles

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

Prerequisites

You have defined the following settings:

- Freight order type OF05 (OF: Pickup/Delivery freight order)
- Freight order type OF10 (OF: Pre-carriage/On-carriage freight order)
- Freight booking type OF04 (OF: Ocean booking)

Note that these settings are described in the sections Defining Freight Order Types [page 43] and Defining Freight Booking Types [page 49]. We recommend that you configure these settings and then return to this section to proceed.

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Application Administration ➤ Planning ➤ Planning Profile ➤ Create Planning Profile ➤.
- 2. On the Planning Profile tab page, create the planning profiles as described below.

OF-PLAN-PROF-PRE

- 1. In the *General Data* screen area, enter the planning profile **OF-PLAN-PROF-PRE** and the description **Ocean**Freight Planning Prof Pre-Carriage.
- 2. In the *Planning Horizon* screen area, enter the following data:

Table 38

Field	Value
Duration in Days	180
Factory Cal. for Offs./Dur. Calc.	w8
Round Horizon to Full Days	Select
Time Zone for Rounding the Horizon	CET

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

Field	Value
Capacity Selection Settings	OF-CAP-SEL-PRE
Optimizer Settings	OF-OPT-SET-STD
Carrier Selection Settings	OF-CAR-SEL-TRSP

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

Table 40

Field	Value
Type Determination Rule	Defined per Category in Planning Profile
Default Type for Road Freight Order	OF10
Default Type for Bookings (Ocean)	OF04
Default Type for Container Unit	CN

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

Table 41

Field	Value
Manual Planning Strategy	VSRI_DEF
Consider Fixing Status	Error When Changing Fixed Document

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

Table 42

Field	Value
Scheduling Strategy	VSS_DEF
Consider Freight Unit Dates	Do Not Consider Freight Unit Dates
Scheduling Direction	Backward

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

Table 43

Field	Value
Check Strategy	VSR_CHECK
Take Capacities into Account	Warning

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

Table 44

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

9. Save your entries.

OF-PLAN-PROF-ON

- 1. In the *General Data* screen area, enter the planning profile **OF-PLAN-PROF-ON** and the description **Ocean Freight Planning Prof On-Carriage**.
- 2. In the *Planning Horizon* screen area, enter the following data:

Table 45

Field	Value
Duration in Days	180
Factory Cal. for Offs./Dur. Calc.	w8
Round Horizon to Full Days	Select
Time Zone for Rounding the Horizon	CET

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

Table 46

Field	Value
Capacity Selection Settings	OF-CAP-SEL-ON
Optimizer Settings	OF-OPT-SET-STD
Carrier Selection Settings	OF-CAR-SEL-TRSP

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

Table 47

Field	Value
Type Determination Rule	Defined per Category in Planning Profile
Default Type for Vehicle Resource	OF10
Default Type for Bookings (Ocean)	OF04

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

Table 48

Field	Value
Manual Planning Strategy	VSRI_DEF
Consider Fixing Status	Error When Changing Fixed Document

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

Table 49

Field	Value
Scheduling Strategy	VSS_DEF
Consider Freight Unit Dates	Do Not Consider Freight Unit Dates
Scheduling Direction	Backward

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

Field	Value
Check Strategy	VSR_CHECK
Take Capacities into Account	Warning

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

Table 51

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

9. Save your entries.

OAF-PLAN-PROF-CN

- 1. In the *General Data* screen area, enter planning profile **OAF-PLAN-PROF-CN** and the description **OF Planning Profile Container Unit**.
- 2. In the *Planning Horizon* screen area, enter the following data:

Table 52

Tuble 32	
Field	Value
Absolute or Relative Horizon	Use Relative Horizon
Duration in Days	90
Offset Direction	Future
Factory Cal. for Offs./Dur. Calc.	Blank
Round Horizon to Full Days	Selected
Time Zone for Rounding the Horizon	CET

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

Table 53

Field	Value
Capacity Selection Settings	OF-CAP-SEL-PRE
Optimizer Settings	OAF-OPT-SET-CN

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

Table 54

Field	Value
Type Determination Rule	Defined per Category in Planning Profile
Default Type for Road FO	OF05
Default Type for Container Unit	CN

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

Field	Value
Manual Planning Strategy	VSRI_SCH
Consider Fixing Status	Warning when changing fixed documents

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

Table 56

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

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

Table 57

Field	Value
Check Strategy	VSR_CHECK
Take Capacities into Account	Warning

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

Table 58

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

9. Save your entries.

4.5 Defining Selection Profiles

In this procedure, you create selection profiles, which define the selection of the freight units based on geography, pickup dates, and delivery dates. You need to create three selection profiles for each stage as the stages are planned by different execution organizations. This leads to stage level planning, so that transportation planners with regional expertise may select only those transportation requirements for which they are responsible.

Procedure

- 1. In the SAP NetWeaver Business Client (NWBC), choose ▶ Application Administration ➤ Planning ➤ Selection Profile Attributes ➤ Geographical Selection Attributes ➤ Create Geographical Selection Attributes ▼.
- 2. Create the selection profile OF-GEO-SEL-PRE for pre-carriage as follows:
 - 1. In the General Data screen area, enter the following data:

Field	Value	
Geographical Sel. Attributes	OF-GEO-SEL-PRE	
Description	Ocean Freight - Pre-Carriage	
Both Locations	Select	

2. Choose the Source Locations tab page and enter the following data:

Table 60

Sign	Option	Lower Value	Upper Value
Inclusive	=	OAF-STA-JPNGO	Blank
Inclusive	=	OAF-STA-JPTYO	Blank

3. Choose the *Destination Locations* tab page and enter the following data:

Table 61

Sign	Option	Lower Value	Upper Value
Inclusive	=	OF-CFS-JPYOK	Blank

- 4. Save your entries.
- 3. Create the selection profile OF-GEO-SEL-MAIN for main carriage as follows:
 - 1. In the *General Data* screen area, enter the following data:

Table 62

Field	Value
Geographical Sel. Attributes	OF-GEO-SEL-MAIN
Description	Ocean Freight - Main Carriage
Both Locations	Select

2. Choose the *Source Locations* tab page and enter the following data:

Table 63

	Sign	Option	Lower Value	Upper Value
	Inclusive	=	OF-CFS-JPYOK	Blank
	Inclusive	=	OF-JPYOK	Blank

3. Choose the *Destination Locations* tab page and enter the following data:

Sign	Option	Lower Value	Upper Value
Inclusive	=	OF-CFS-USLAX	Blank
Inclusive	=	OF-USLGB	Blank

- 4. Save your entries.
- 4. Create the selection profile OF-GEO-SEL-ON for on-carriage as follows:
 - 1. In the *General Data* screen area, enter the following data:

Field	Value
Geographical Sel. Attributes	OF-GEO-SEL-ON
Description	Ocean Freight - on-carriage
Both Locations	Select

2. Choose the Source Locations tab page and enter the following data:

Table 66

Sign	Option	Lower Value	Upper Value
Inclusive	=	OF-CFS-USLAX	Blank
Inclusive	=	OF-USLGB	Blank

3. Choose the *Destination Locations* tab page and enter the following data:

Table 67

Sign	Option	Lower Value	Upper Value
Inclusive	=	OAF-STA-USPHX	Blank
Inclusive	=	OAF-STA-USSAN	Blank

- 4. Save your entries.
- 5. In SAP NetWeaver Business Client (NWBC), choose Application Administration Planning Selection Profile Attributes Additional Selection Attributes Create Additional Selection Attributes Selection A
- 6. Create additional selection attributes for OF-ADD-SEL-EXCLUDE-PLANNED by entering the following data in the *General Data* screen area:

Table 68

Tuble 66		
Field	Value	
Additional Sel. Attributes	OF-ADD-SEL-EXCLUDE-PLANNED	
Description	Include Planned Req.	
Planned Requirements	Exclude in Selection	
Blocked Documents	Exclude in Selection	
Selection of Container Unit Stages	Include Selected Stages Only	

7. Choose the Selection Values tab page and enter the following data:

14010 00		
Field	Value	
Business Object for Selection	FU	
Field Name	INCL_INIT_TIMES	
Sign	Inclusive	
Option	Equality	
Lower Limit	x	

8. Generate a second condition with the following values:

Table 70

Field	Value
Business Object for Selection	/SCMTMS/TO
Field Name	PLAN_STATUS_ROOT
Sign	Inclusive
Option	Equality
Lower Limit	03

- 9. Save your entries.
- 10. In SAP NetWeaver Business Client (NWBC), choose ▶ Application Administration ➤ Planning ➤ Selection Profiles ➤ Create Selection Profile ■.
- 11. Create the selection profile OF-GEN-SEL-PRE-WO-TIME for pre-carriage by entering the following data:

Table 71

Table 71	
Field	Value
Selection Profile	OF-GEN-SEL-PRE-WO-TIME
Description	Ocean Freight - Pre-Carriage
Maximum Number of Selected Objects	50
Geographical Sel. Attributes	OF-GEO-SEL-PRE
Additional Sel. Attributes	OF-ADD-SEL-EXCLUDE-PLANNED

12. Create the selection profile OF-GEN-SEL-MAIN-WO-TIME for main carriage by entering the following data:

Table 72

Field	Value
Selection Profile	OF-GEN-SEL-MAIN-WO-TIME
Description	Ocean Freight - Main Carriage
Maximum Number of Selected Objects	50
Geographical Sel. Attributes	OF-GEO-SEL-MAIN
Additional Sel. Attributes	OF-ADD-SEL-EXCLUDE-PLANNED

13. Create the selection profile OF-GEN-SEL-ON-WO-TIME for on-carriage by entering the following data:

14010 7 0		
Field	Value	
Selection Profile	OF-GEN-SEL-ON-WO-TIME	
Description	Ocean Freight - on-carriage	
Maximum Number of Selected Objects	50	
Geographical Sel. Attributes	OF-GEO-SEL-ON	

Field	Value
Additional Sel. Attributes	OF-ADD-SEL-EXCLUDE-PLANNED

14. Save your entries.

4.6 Defining Layouts for the Transportation Cockpit

In this procedure, you can create layouts for displaying capacities and requirements in your transportation cockpit. Layout settings are made at user level.

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose Planning Planning Transportation Cockpit .

 The Profile and Layout Sets screen is displayed. If, however, the system forwards you directly to the cockpit, choose Change Profile Selection Profile Selection Screen to return to the Profile and Layout Sets screen.
- 2. Choose Layout Personalization.
- 3. Choose New.
- 4. In the Page Layout General Data section, create new layout OF-LAYO-01.
- 5. In the Page Layout Validity section, select field validity All.
- 6. In the Visibility Pushbutton area, leave the default value for the checkboxes.
- 7. In the Requirements List section:
 - 1. In the Position of Screen Area field, enter Top Left.
 - 2. In the Width field, enter 50%.
 - 3. Choose Sequence 1 Freight Unit Stages and select the Display checkbox.
 - 4. Choose Sequence 2 Freight Unit Hierarchy and select the Display checkbox.
 - 5. In the *Details of Freight Unit Stages* section, ensure that all checkboxes for *Set OI Status for FUs* are selected.
- 8. In the Resource Area section:
 - 1. In the Position of Screen Area field, select Bottom Left
 - 2. In the Width field, select 50%.
 - 3. Choose Sequence 1 Vehicles and select the Display checkbox.
 - 4. Choose Sequence 3 Schedules and select the Display checkbox.
 - 5. Choose Sequence 7 Containers and select the Display checkbox.
 - 6. Deselect the other display checkboxes (Vehicles and Trailer).
- 9. In the Order Area section:
 - 1. In the Position of Screen Area field, select Top Right.
 - 2. In the Width field, enter 50%.
 - 3. Choose Sequence 1 Freight Orders and select the Display checkbox.
 - 4. Choose Sequence 4 Ocean Booking Hierarchy and select the Display checkbox.
 - 5. Choose Sequence 7 Ocean Freight Bookings and select the Display checkbox.

- 10. In the Contents of Transportation Units Area section:
 - 1. In the Position of Screen Area field, select Bottom Right.
 - 2. In the Width field enter **50**%.
 - 3. Choose Sequence 4 Container Unit Stages and select the Display checkbox
- 11. Save your profile.

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5 SAP TM Customizing

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

- Defining freight unit types [page 36]
- Creating freight unit building rules [page 36]

Freight unit building rules define how the system should create freight units based on the forwarding order.

- Defining package type codes [page 39]
- Defining item types for forwarding order management [page 40]

Item types define specific measures, which are used later in forwarding order management.

Defining freight order types [page 43]

A new freight order type contains an enhanced save strategy.

- Defining freight booking types [page 49]
 - Defining freight settlement document types [page 211]
 - Defining forwarding settlement document types [page 148]
 - Defining dimensional weight profiles [page 103]

The following document types must be customized in the SAP TM system:

- OF01 OF: Forwarding Order Export (LCL)
- OF02 OF: Freight Unit
- OF03 Packages with Specific Dimensions
- OF04 OF: Ocean Booking Export (LCL)
- OF05 OF: Pickup/Delivery Freight Order
- OF06 OF: Carrier Settlement Document
- OF07 OF: Forwarding Agreement
- OF08 OF: Freight Agreement
- OF09 OF: Forwarding Settlement Document
- OF10 OF: Pre/On-Carriage Freight Order
- OF11 OF: Inland Trucking Schedule
- OF12 OF: Ocean Carrier Schedule
- OF13 OF: Sailing Schedule with reference
- OF14 OF: Forwarding Order Import (LCL)
- OF15 OF: Ocean Booking Import (LCL)
- OF16 OF: Forwarding Order Import (FCL)
- OF17 OF: Forwarding Order Export (FCL)
- OF18 OF: Ocean Booking Export (FCL)
- OF19 OF: Ocean Booking Import (FCL)

5.1 Defining Freight Unit Types

Procedure

- 1. In Customizing for *Transportation Management* , choose ▶ *Planning* ➤ *Freight Unit* ➤ *Define Freight Unit Types* ▶.
- 2. Enter the following data:

Table 74

Table 74	
Field	Value
Freight Unit Type	OF02
Description	OF: Freight Unit
Is Default Type	Deselect
Basic Settings	
Freight Unit can be deleted	Select
Change Controller Settings	
Default Change Strategy	DEF_CHACO
Execution Settings	
Execution Tr. Relevance	2 - Execution Tracking
Immediate Processing	Select
Event Management Settings	
Appl. Obj. Type	ODT20_FU
Last Exp. Event	POD
Number Range Settings	
Time For Drawing	Draw Number when saving document
Number Range Interval	FU
Freight Order Determination	,
Freight Order Type	OF05 - OF: Pickup/Delivery Freight Order
Determination Rules	1
Consider Organization Unit of User	Deselect

3. Save your entries.

5.2 Creating Freight Unit Building Rules

Freight unit building rules (FUBs) define how the system should create freight units based on the forwarding order. In addition, FUBs define the dimensions that are transferred from the forwarding order to the freight unit as

capacity requirements for planning. If there are more than one freight unit building rules, you can define a condition on how to determine the appropriate freight unit building rule.

For this scenario, you require the following freight unit building rules:

- OF-FUBR-CU: Freight unit consolidated in container (FCL)
- OF-FUBR-FU: Freight unit consolidated in container (LCL)

Prerequisites

You have defined a freight unit type.

Procedure

- 2. Create a new rule by entering the following data:

General Data

Table 75

Value
OF-FUBR-FU
FU per container
Consolidate per item
Gross Weight
Select
oF02 (Enter the freight unit type that you created in the section Defining Freight Unit Types [page 36] .)
Not applicable
CN
20G0

General Data - Planning Quantities

Table 76

Planning Qty	UoM of Split Qty	Split Qty	Rounding Qty
Gross Weight	TO	22	Blank

Advanced Settings

Table 77

Field	Value
Process Controller Strategy	FUB_AUTO
Maximum Number of Pallets per FU	50

- 3. Save your entries.
- 4. Create a new rule by entering the following data:

General Data

Table 78

e 70	
Field	Value
Freight Unit Building Rule	OF-FUBR-CU
FUB Rule Description	CU per container
FU Building Strategy	Consolidate per item
Critical Quantity	Gross Weight
Item Split Allowed	Select
Document Type	CN (Enter the freight unit type that you created in the section Defining Item Types for Forwarding Order Management [page 40].)
Incompatibility Settings	Not applicable
Equipment Group	CN
Equipment Type	20G0

General Data - Planning Quantities

Table 79

Planning Qty	UoM of Split Qty	Split Qty	Rounding Qty
Gross Weight	то	22	Blank

Advanced Settings

Table 80

Field	Value
Process Controller Strategy	FUB_AUTO
Maximum Number of Pallets per FU	50

5. Save your entries.

5.3 Defining Partner Determination Profiles

Procedure

- 1. In Customizing for SAP TM, choose SAP Transportation Management Transportation Management Master Data Business Partner Define Partner Determination Profiles.
- 2. Enter partner determination profile **OF-D** and the description **Determination Profile for Business**Partner.
- 3. Save your entries.
- 4. Select the new row and double-click Assign Party Roles
- 5. Create an entry with the following data:

Table 81

Party Role	Party Role Desc.	Sequence	Edit Level	Srce Type	Srce Type	Business Partner
12	Carrier	1	Mandatory	Party Role	Blank	Blank
5	Shipper	2	Mandatory	Party Role	Blank	Blank
6	Consignee	3	Mandatory	Party Role	Blank	Blank
TM010	Executing Carrier	4	Mandatory	Party Role	Blank	Blank
101	Import Organizati on	5	Mandatory	Party Role	Blank	Blank

6. Save your entries.

5.4 Defining Package Type Codes

Package type codes allow for a standardization of the packages used to transport cargo. For this scenario, the following package type is required:

Box:BOX(ES)

Procedure

- 1. In Customizing for SAP TM, choose ► SAP Transportation Management ➤ Transportation Management ➤ Forwarding Order Management ➤ Type Codes and Role Codes ➤ Master Data-Related Type Codes and Role Codes ➤ Define Package Type Codes ■.
- 2. Create a new entry. Enter the following data:

Table 82

Field	Value
Package Type	Вох
Description	BOX (ES)

3. Save your entries.

5.5 Defining Item Types for Forwarding Order Management

Item types define specific measures that are later used in a forwarding order. By defining item types, you specify the height, width, volume and weight of a transportable item category.

For this scenario, the following item types are required:

- OF03: packages with specific dimensions
- CN: container with specific dimensions

Procedure

- 1. In Customizing for *Transportation Management*, choose ▶ *Forwarding Order Management* ▶ *Define Item Types for Forwarding Order Management* ▶.
- 2. Create the following two item types:

Table 83

Item Type	OF03	CN
Item Type Descr.	Packages with specific dimensions	Container
Item Category	PKG Package	TUR Container
Package Type	Вох	Blank
Text Schema	Blank	FWOITM
DG UI Profile Name	Blank	Blank
Equipment Group	Blank	CN
Equipment Type	Blank	Blank
One Piece Only	Deselect	Select
Default Weight UoM	KG	KG
Default Volume UoM	м3	м3
Default Pieces UoM	EA	PC

3. Save your entries.

5.6 Defining Default Agreement Party Roles for Stages

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

Procedure

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

Table 84

Incoterm	Stage Type	Agmt Type
FOB	Pick-up	Prepaid Agreement
FOB	Pre-Carriage	Prepaid Agreement
FOB	Main Carriage	Collect Agreement
FOB	On-Carriage	Collect Agreement
FOB	Delivery	Collect Agreement
CFR	Pick-up	Prepaid Agreement
CFR	Pre-Carriage	Prepaid Agreement
CFR	Main Carriage	Prepaid Agreement
CFR	On-Carriage	Collect Agreement
CFR	Delivery	Collect Agreement
DDP	Pick-up	Prepaid Agreement
DDP	Pre-Carriage	Prepaid Agreement
DDP	Main Carriage	Prepaid Agreement
DDP	On-Carriage	Prepaid Agreement
DDP	Delivery	Prepaid Agreement

5.7 Assigning Business Partner Roles to Business Document Party

In the standard Customizing settings, you map business partner roles in SAP ERP to business partner roles in SAP TM.

Procedure

- 1. In Customizing for SAP Transportation Management, choose ▶ Transportation Management ➤ Master Data ➤ Business Partners ➤ Assign BP Roles to Business Document Party ■.
- 2. Enter the following data:

Table 85

Role Code	Party Role Description	BP Role	BP Role Description
9	Payee	CRM004	Bill-to Party
8	Payer	CRM004	Bill-to Party

3. Save your entries.

5.8 Defining Condition Types

In this Customizing activity, you define a new condition type that contains an enhanced save strategy.

Prerequisites

These settings are also used in the sections Defining Freight Settlement Document Types [page 211] and Defining Means of Transport [page 71] . We recommend that you configure the settings in these sections and then return to this section to proceed.

1 Note

If you have already completed the section Defining Planning Profiles [page 25], the information given in this section may already be complete.

Procedure

- 1. As a customer service agent in SAP NetWeaver Business Client (NWBC), choose ▶ Application Administration ➤ General Settings ➤ Conditions ➤ Create Conditions ■.
- 2. Create a condition using the following data:

able 60	
Field	Value
Condition	OF-MTR
Description	MTR for Pickup Freight Order
Condition Type	/SCMTMS/TOR_DEF_MTR
Origin of Condition	F

- 3. Choose Continue.
- 4. Go to the Data Access Definition tab page and choose Delete.

- 5. In the data access definition, choose Create.
- 6. In the Business Object Based Data Access Definition, enter following data:

Table 87

Field	Value
Name of BO Used in Condition	SCMTMS/TOR
Name of BO Node Used in Condition	ROOT
Name of the Field of the BO Node	TOR_CAT

7. In the Data Crawler-Based Data Access Definition, enter following data:

Table 88

Field	Value
Step ID	000

- 8. Choose Back (save and back) in the upper screen area.
- 9. Go to the decision table, insert two more rows, and choose direct value input.
- 10. Enter following data:

Table 89

Field	Value	
Business Document	Def.Mtr for Doc Type	
TO (Transportation Order)	OAF_TRUCK	

11. Save your entries.

5.9 Defining Freight Order Types

In this Customizing activity, you define a new freight order type that contains an enhanced save strategy.

Prerequisites

You have configured the following settings:

- You have defined freight settlement document type OF06 OF: Carrier Settlement Document
- You have defined means of transport OAF_TRUCK and OAF_TRUK_S

Note that these settings are described in the sections Defining Freight Settlement Document Types [page 211] and Defining Means of Transport [page 71]. We recommend that you configure these settings and then return to this section to proceed.

If you have already completed the section Defining Planning Profiles [page 25], the information given in this section may already be complete.

Procedure

- 1. In Customizing for *Transportation Management*, choose Freight Order Management Freight Order Define Freight Order Types .
- 2. Create a new freight order type as follows:
 - 1. Enter freight order type **OF05** and description **OF: Pickup/Delivery Freight Order**.
 - 2. In the Basic Settings screen area, choose the following settings:

Table 90

Field	Value
Freight Order Can Be Subcontracted	01 Relevant for Subcontracting
Shipper/Consignee Determination	P Determination Based on Predecessor Documents
Freight Order Can Be Deleted	Select
Enable Settlement	Select
Enable Internal Settlement	Select
Enable Cost Distribution	Select
Enable Charge Calculation	Select
Enable Internal Charge Calculation	Select

- 3. In the Change Controller Settings screen area, enter the default change strategy ${\tt DEF_CHACO}$.
- 4. In the Charge Calculation and Settlement Document Settings screen area, set the Default FSD Type (freight settlement document type) field to OF06 OF: Carrier Settlement Document.
- 5. Choose **of-car-sel-trsp** in the *Deflt Carrier Selection Settings* field.
- 6. Deselect Enable Compliance Check.
- 7. In the Number Range Settings screen area, set the Time for Drawing option to I Draw Numbers Immediately and enter the number range interval as 04.
- 8. In Additional Strategies select CALC CHARG as Save Strategy.
- 9. In the Default MTr Determination area enter transportation mode 01 Road.
- 10. Enter **OF-MTR** as the condition for the default means of transport.
- 11. In the Output Options screen area, enter output profile /SCMTMS/TOR PRINT ROAD.
- 12. In the Organizational Unit Determination screen area, deselect Consider Organizational Unit of User.
- 3. Save your entries.
- 4. Create a new freight order type as follows:
 - 1. Enter freight order type **OF10** and description **OF: Pre/On-Carriage Freight Order**.
 - 2. In the *Basic Settings* screen area, choose the following settings:

Field	Value	
Freight Order Can Be Subcontracted	01 Relevant for Subcontracting	

Field	Value
Shipper/Consignee Determination	P Determination Based on Predecessor Documents
Freight Order Can Be Deleted	Select
Enable Settlement	Select
Enable Internal Settlement	Select
Enable Cost Distribution	Select
Enable Charge Calculation	Select
Enable Internal Charge Calculation	Select

- 3. In the Change Controller Settings screen area, enter the default change strategy DEF CHACO.
- 4. In the Charge Calculation and Settlement Document Settings screen area, set the Default FSD Type field to OF06 OF: Carrier Settlement Document.
- 5. Choose **of-car-sel-trsp** in the *Deflt Carrier Selection Settings* field.
- 6. In the *Number Range Settings* screen area, set the *Time for Drawing* option to **I Draw Numbers Immediately** and enter the number range interval as **04**.
- 7. In Additional Strategies select **CALC_CHARG** as Save Strategy and deselect Enable Compliance Check in the Additional Settings area.
- 8. In the default MTr Determination area, enter transportation mode 01 Road.
- 9. In the Default MTr for Type field, enter OAF TRUK S.
- 10. In the Output Options screen area, enter the output profile /SCMTMS/TOR PRINT ROAD.
- 11. In the Organizational Unit Determination screen area, for both the Purchasing Organization and the Execution Organization enter **of-fwh-03** and deselect Consider Organizational Unit of User.
- 5. Save your entries.

1 Note

If necessary, return to the Defining Planning Profiles [page 25] section to continue.

5.10 Defining Freight Booking Types for Export

Prerequisites

You have created an organizational model for the sales and purchasing organization, including the associated business partners, forwarding houses, positions, and units.

Note that this process is described in the section Creation of Organizational Models [page 59]. We recommend that you complete this first before returning to the current section to proceed.

If you have already completed the Defining Planning Profiles [page 25] section, the information given in this section may already be complete.

In this section, you create the following freight booking types:

• OF04: Freight Booking Type for Export (LCL)

• OF18: Freight Booking Type for Export (FCL)

Procedure

Creating OF04: Freight Booking Type for Export (LCL)

- 1. In Customizing for Transportation Management , choose ▶ Freight Order Management ▶ Freight Booking ▶ Define Freight Booking Types ▶.
- 2. Create a freight booking type (LCL) for execution booking as follows:
 - 1. Enter the freight booking type OF04 and the description OF: Ocean Booking Export LCL.
 - 2. In the Transportation Mode field, choose 03 Sea.
 - 3. In the Transportation Mode Category field, choose 3 Sea.
 - 4. In the Basic Settings screen area, enter the following data:

Field	Value	
Shipper/Consignee Determination	M Manual Maintenance	
Booking Can Be Deleted	Select	
Enable Settlement	Select	
Enable Cost Distribution	Select	
Enable Charge Calculation	Select	

- 5. In the Change Controller Settings screen area, enter the default change strategy **DEF_CHACO**.
- 6. In the Execution Settings screen area:
 - \circ Set the Carrier Confirmation to Carrier Confirmation Not Required
 - Set the Exec. Track. Relevance field to Execution Tracking
 - Select the Immediate Processing checkbox
 - Select the Propagate Execution Info checkbox
- 7. In the Additional Setting screen area:
 - Enter the Default Freight Settlement Type: OF06 Carrier Settlement Document.
 - For both the Default FO Type for Pickup and the Default FO Type for Delivery , enter OF05 OF: Pickup/Delivery Freight Order .
 - O As the Web Dynpro Application Configuration, enter / SCMTMS/FRE_BOOK_OCEAN.
 - Deselect the Enable Compliance Check field.
 - Enter Build HBL or HAWB by Forwarding Order (HBL_TRQID) in the HBL Building Strategy field.
 - o For the container item source, select R Container Item is taken from Predecessor Documents .
 - Select *OF-D* as the partner determination profile.
- 8. As the import booking type, enter **oF15** (OF: Ocean Booking Import).
- 9. In the *Number Range Settings* screen area:
 - O Set the Time for Drawing field to Draw Numbers when Saving Document
 - Enter number range interval **05**

- Enter the *HBL* (House Bill of Lading) number range **05**
- 10. In the Service Definition screen area:
 - Set the Consolidation (Source) field to with Consolidation.
 - Set the Consolidation (Dest.) field to With Consolidation.
 - Select Shipping Type 3- FCL (Full Container Load)
 - Set the movement type to **cc** (CFS to CFS).
 - Set the traffic direction to 1 Export.
- 11. In the *Output Options* screen area, enter the output profile /SCMTMS/TOR and the additional output profile /SCMTMS/TOR PRINT SEA. Deselect the *Dynamic determination of output* option.
- 12. In the *Organization Unit Determination* screen area, enter the purchasing organization that you create in Creating an Organizational Model in SAP TM [page 59]. In this scenario, the purchasing organization is OF-FWH-03 (FH CFS Yokohama).
- 13. Deselect the Consider Organizational Unit of User field.
- 14. Save your entries.

1 Note

If required, you can return to the Defining Planning Profiles [page 25] section to continue.

Creating OF18: Freight Booking Type for Export (FCL)

- 1. In Customizing for *Transportation Management*, choose Freight Order Management Freight Booking Define Freight Booking Types .
- 2. Create a freight booking type (FCL) for execution booking as follows:
 - 1. Enter the freight booking type **oF18** and the description **oF: Ocean Booking Export FCL**.
 - 2. In the Transportation Mode field, choose 03 Sea.
 - 3. In the Transportation Mode Category field, choose 3 Sea.
 - 4. In the Basic Settings screen area, enter the following data:

Field	Value		
Shipper/Consignee Determination	M Manual Maintenance		
Booking Can Be Deleted	Select		
Enable Settlement	Select		
Enable Cost Distribution	Select		
Enable Charge Calculation	Select		
Enter the Default Freight Settlement Type	OF06 - Carrier Settlement Document		

- 5. In the Change Controller Settings screen area, enter the default change strategy DEF CHACO.
- 6. In the Execution Settings screen area:
 - Set the Carrier Confirmation to Carrier Confirmation Not Required
 - Set the Exec. Track. Relevance field to Execution Tracking
 - Select the Immediate Processing checkbox

- Select the *Propagate Execution Info* checkbox
- 7. In the Additional Setting screen area:
 - Enter the Default Freight Settlement Type: OF06 Carrier Settlement Document.
 - For both the Default FO Type for Pickup and the Default FO Type for Delivery, enter OF05 OF:

 Pickup/Delivery Freight Order.
 - In the Container Item Source field, select Container Item is Taken from Predecessor Documents.
 - O As the Web Dynpro Application Configuration, enter / SCMTMS/FRE_BOOK_OCEAN.
 - o Deselect the Enable Compliance Check field.
 - Enter Build HBL or HAWB by Forwarding Order (HBL_TRQID) in the HBL Building Strategy field
 - o For the container item source, select R Container Item is taken from Predecessor Documents.
 - Select *OF-D* as the partner determination profile.
- 8. As the import booking type, enter **oF15** (OF: Ocean Booking Import).
- 9. In the Number Range Settings screen area:
 - Set the Time for Drawing field to Draw Numbers when Saving Document
 - Enter number range interval 05
 - Enter the HBL (House Bill of Lading) number range 05
- 10. In the Service Definition screen area:
 - Set the Consolidation (Source) field to Without Consolidation.
 - Set the Consolidation (Dest.) field to Without Consolidation.
 - Select Shipping Type 3- FCL (Full Container Load)
 - Set the movement type to **PP** (Port to Port).
 - Set the traffic direction to 1 Export.
- 11. In the Output Options screen area, enter the output profile /SCMTMS/TOR and the additional output profile /SCMTMS/TOR_PRINT_SEA. If selected, deselect the Dynamic determination of output option.
- 12. In the *Organization Unit Determination* screen area, enter the purchasing organization that you create in Creating an Organizational Model in SAP TM [page 59]. In this scenario, the purchasing organization is OF-FWH-03 (FH CFS Yokohama).
- 13. Deselect the Consider Organizational Unit of User field.
- 14. Save your entries.

More Information

- Defining freight settlement document types [page 211]
- Defining forwarding settlement document types [page 148]
- Defining dimensional weight profiles [page 103]

5.11 Defining Freight Booking Types for Import

In this procedure, you define the following freight booking types:

- OF15: Freight Booking Type for Import (LCL)
- OF19: Freight Booking Type for Import (FCL)

Procedure

Creating OF15: Freight Booking Type for Import (LCL)

- 1. In Customizing for Transportation Management, choose Freight Order Management Freight Booking Define Freight Booking Types .
- 2. Create a freight booking type for execution booking as follows:
 - 1. Enter freight booking type OF15 and description OF: Ocean Booking Import LCL.
 - 2. In the *Transportation Mode* field, enter **03** Sea.
 - 3. In the Transportation Mode Category field, choose 3 Sea.
 - 4. In the Basic Settings screen area, enter the following data:

Field	Value
Shipper/Consignee Determination	P Determination Based on Predecessor Documents
Booking can be deleted	Select
Enable Settlement	Select
Enable Cost Distribution	Select
Enable Charge Calculation	Select

- 5. In the Change Controller Settings screen area, enter the default change strategy **DEF CHACO**.
- 6. In the Execution Settings screen area:
 - Set the Carrier Confirmation to Carrier Confirmation Not Required .
 - Set the Exec. Track. Relevance field to Execution Tracking.
 - Select the *Immediate Processing* checkbox.
 - Select the *Propagate Execution Info* checkbox.
- 7. In the Additional Setting screen area:
 - Enter the default freight settlement document type (FSD type) **OF:** Carrier **Settlement Document**.
 - For both the Default FO Type for Pickup and the Default FO Type for Delivery, enter OF05 OF:

 Pickup/Delivery Freight Order.
 - As the Web Dynpro Application Configuration. enter / SCMTMS/FRE BOOK OCEAN.
 - Deselect the Enable Compliance Check field.
 - \circ For the container item source, select R Container Item is taken from Predecessor Documents.
- 8. In the Number Range Settings screen area:

- Set the Time for Drawing field to I Draw Numbers when Saving Document .
- Enter number range interval **05**.
- 9. In the Service Definition screen area:
 - Set the Consolidation (Source) field to With Consolidation.
 - Set the Consolidation (Dest.) field to With Consolidation.
 - Select shipping type **3** (FCL Full Container Load).
 - Set movement type cc (CFS to CFS).
 - Set the traffic direction to 2 Import.
- 10. In the *Output Options* screen area, enter the output profile **/scmtms/tor_print_sea** and the additional output profile **/scmtms/tor**. Deselect the *Dynamic Determination of Output* option.
- 11. In the *Organization Unit Determination* screen area, enter the purchasing organization that you created in the Creation of Organizational Models [page 59] section. In this scenario, the purchasing organization is OF-FWH-20 (FH CFS Los Angeles). Deselect the *Consider Organization Unit of User* field.
- 3. Save your entries.

Creating OF19: Freight Booking Type for Import (FCL)

- 1. In Customizing for *Transportation Management*, choose Freight Order Management Freight Booking Define Freight Booking Types .
- 2. Create a freight booking type for execution booking as follows:
 - 1. Enter freight booking type OF19 and description OF: Ocean Booking Import FCL.
 - 2. In the Transportation Mode field, enter 03 Sea.
 - 3. In the *Transportation Mode Category* field, choose **3** Sea.
 - 4. In the Basic Settings screen area, enter the following data:

Field	Value
Shipper/Consignee Determination	P Determination Based on Predecessor Documents
Booking can be deleted	Select
Enable Settlement	Select
Enable Cost Distribution	Select
Enable Charge Calculation	Select

- 5. In the Change Controller Settings screen area, enter the default change strategy **DEF CHACO**.
- 6. In the Execution Settings screen area:
 - Set the Carrier Confirmation to Carrier Confirmation Not Required .
 - Set the Exec. Track. Relevance field to Execution Tracking.
 - Select the Immediate Processing checkbox and specify that the life cycle is not to be set to "in process" immediately.
 - Select the *Propagate Execution Info* checkbox and enter standard propagation.
- 7. In the Additional Setting screen area:

- Enter the default freight settlement document type (FSD type) **OF:** Carrier Settlement **Document**.
- For both the Default FO Type for Pickup and the Default FO Type for Delivery, enter OF05 OF: Pickup/Delivery Freight Order.
- As the Web Dynpro Application Configuration. enter /SCMTMS/FRE BOOK OCEAN.
- Deselect the Enable Compliance Check field.
- For the container item source, select R Container Item is taken from Predecessor Documents.
- 8. In the Number Range Settings screen area:
 - Set the Time for Drawing field to I Draw Numbers when Saving Document.
 - Enter number range interval **05**.
 - Enter the HBL (House Bill of Lading) number range 05.
- 9. In the Service Definition screen area:
 - Set the Consolidation (Source) field to with Consolidation.
 - Set the Consolidation (Dest.) field to with Consolidation.
 - Select shipping type **3** (FCL Full Container Load).
 - Set movement type **PP** (Port to Port).
 - Set the traffic direction to 2 Import.
- 10. In the *Output Options* screen area, enter the output profile **/scmtms/tor_print_sea** and the additional output profile **/scmtms/tor**. Deselect the *Dynamic Determination of Output* option.
- 11. In the *Organization Unit Determination* screen area, enter the purchasing organization that you created in the Creation of Organizational Models [page 59] section. In this scenario, the purchasing organization is OF-FWH-20 (FH CFS Los Angeles). Deselect the *Consider Organization Unit of User* field.
- 3. Save your entries.
 - Note

If required, you can return to the Defining Planning Profiles [page 25] section to proceed.

More Information

- Defining freight settlement document types [page 211]
- Defining forwarding settlement document types [page 148]
- Defining dimensional weight profiles [page 103]

5.12 Defining UN/LOCODES

The United Nations Code for Trade and Transport Locations (UN/LOCODE, UN Code) assigns codes to locations used in trade and transportation with functions such as seaports, rail and road terminals, airports, post offices, and border crossing points.

Procedure

- 1. In Customizing for Transportation Management, choose ► Master Data ➤ Transportation Network ➤ Location ➤ Define UN/LOCODE ■.
- 2. Enter the following UN/LOCODEs:
 - o AUSYD
 - O JPHIJ
 - O JPNGO
 - O JPTYO
 - O USLAX
 - O USPHX
 - USSAN

5.13 Defining Master Bill of Lading Stock Types

Procedure

- 2. Create the following entry:

Table 96

Field	Value		
Stock Type	MBL		
Description	Master Bill of Lading (Default)		
TrM	03		
Stock Category	Waybill Number		
Org. Category	2 Purchasing		
Prefix	Deselected		
Prefix Length	0		
Number Length	10		
Chk Digits	No Check Digit		

3. Save your entries.

5.14 Defining House Bill of Lading Stock Types

Procedure

- 1. In Customizing for Transportation Management, choose ▶ Master Data ➤ Waybill Stock ➤ Define Waybill Number Stock Types ▶.
- 2. Create the following entry:

Table 97

Field	Value		
Stock Type	HBL		
Description	House Bill of Lading (Default)		
TrM	03		
Stock Category	Waybill Number		
Org. Category	1 Sales		
Prefix	Deselected		
Prefix Length	0		
Number Length	10		
Chk Digits	No Check Digit		

3. Save your entries.

6 Order Management

Order management concerns the definition of forwarding and freight orders and the maintenance to the supporting documentation. The following processes are involved:

• Defining forwarding order types [page 54]

This procedure specifies types of forwarding orders. You can use these types to define certain parameters of the forwarding order that influence how the system processes this business document.

- Assign item types to forwarding order types [page 56]
 - Assign an item type to the forwarding order type.
- Define default freight document types for stages [page 57]

This procedure specifies which freight document type (freight order type/freight booking type) is used for generating settlement documents through the shortcuts in the forwarding order.

Defining Forwarding Settlement Document Types [page 148]

6.1 Defining Forwarding Order Types

In this procedure, you specify types of forwarding orders. You can use these types to define certain parameters of the forwarding order that influence how the system processes this business document.

For example, the forwarding order type can determine the number range interval that is used to generate a number of the forwarding order, or it can define whether freight units are created automatically when you save the forwarding order. Furthermore, you can assign profiles, for example planning profile and 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).

Prerequisites

- You have set up the number ranges for the forwarding order types. In this case standard number ranges are used which are included in delivery customizing.
- You have defined a freight building rule, which is considered for automatic freight unit building.
- You have defined a forwarding house, for example OAF-FWH-05, as an organizational element in transaction
- You have defined a forwarding settlement document type (OF09). For more information, see Defining Forwarding Settlement Document Types [page 148].

Procedure

In this procedure, you create the following forwarding order types:

- OF01: Forwarding Order Export for LCL scenario
- OF14: Forwaring Order Import for LCL scenario
- OF17: Forwarding Order Export for FCL scenario
- OF16: Forwarding Order Import for FCL scenario
- 1. In Customizing for Transportation Management , choose | Forwarding Order Management > Forwarding Order ➤ Define Forwarding Order Types 】.
- 2. Create the forwarding order types in succession using the following data:

Table 98

Field	OF01	OF14	OF16	OF17
Short Description	OF: Forwarding Order Export LCL	OF: Forwarding Order Import LCL	OF: Forwarding Order Import FCL	OF: Forwarding Order Export FCL
Number Range Interval	01	01	01	01
Template No. Range Interval	01	01	01	01
Process Control/Busin	ness Object Mode			
BW Relevance	Deselect	Deselect	Deselect	Deselect
Enable Forwarding Settlement	Select	Select	Select	Select
Automatic Confirmation	Deselect	Deselect	Deselect	Deselect
EM Integrat. Active	Deselect	Deselect	Deselect	Deselect
Dangerous Goods Profile	DG1	DG1	DG1	DG1
Automatic Freight Unit Building	Select	Select	Select	Select
Transportation Mode	03 - Sea	Blank	Blank	03 - Sea
Shipping Type	2 - LCL (Less than Container Load)	2 - LCL (Less than Container Load)	3 - FCL (Full Container Load)	3 - FCL (Full Container Load)
Traffic Direction	1	2	2	1
Stage Determination	P Stage Determination by Movement Type			
Stage Profile	Blank	Blank	Blank	Blank

Field	OF01	OF14	OF16	OF17
Default FWSD Type	OF09	OF09	OF09	OF09
Default Conf. Type	O - Order-based Confirmation	O - Order-based Confirmation	O - Order-based Confirmation	O - Order-based Confirmation
Import FWO Type	OF14	Blank	Blank	OF16
Event Manager				
EM Web Interface Transaction	Blank	Blank	Blank	Blank
Output Profile	/SCMTMS/TRQ_FWO	/SCMTMS/TRQ_FWO	/SCMTMS/TRQ_FWO	/SCMTMS/TRQ_FWO
Additional Output Profile	/SCMTMS/ TRQ_FWO_PRINT	/SCMTMS/ TRQ_FWO_PRINT	/SCMTMS/ TRQ_FWO_PRINT	/SCMTMS/ TRQ_FWO_PRINT
Accept Transp. Prop.	Save Route only	Save Route only	Save Route only	Save Route only
Propagate Changes	B - Synchronous Propagation of changes, fallback to asynchronous			
Customs Handling	Manual	Manual	Manual	Manual
Default Values				
Default Weight UoM	KG	KG	KG	KG
Default Volume UoM	мз	мз	мз	мз
Default Pieces UoM	PC	PC	PC	PC
Freight Unit Building Rule	OF-FUBR-FU	Blank	OF-FUBR-CU	OF-FUBR-CU
Planning Profile	OAF-PLAN-PROF- CN	Blank	Blank	OAF-PLAN-PROF-
Organization Unit Determination				
Consider User Assignment	Blank	Select	Blank	Blank
Sales Organization	OAF-FWH-05	Blank	OAF-FWH-21	OAF-FWH-05

3. Save your entries.

6.2 Assigning Item Types to Forwarding Order Types

Assign an item type to the forwarding order (FWO) type. With this assignment the item type is usable in any forwarding order with type OF01.

For this scenario, the following item types are assigned:

- OF03: packages with specific dimensions are assigned to the export forwarding order type OF01 and the import forwarding order type OF14.
- CN: Container with specific dimensions is assigned to the export forwarding order type OF17 and the import forwarding order type OF16

Procedure

- 1. In Customizing for Transportation Management , choose ▶ Forwarding Order Management ▶ Forwarding Order ➤ Define Item Types to Forwarding Order Types ▶.
- 2. Create the following entries:

Table 99

Field	Values					
FWO Type	OF01	OF14 OF17 OF16				
Item Type	OF03	OF03	CN	CN		
Default Item Type	Select	Select	Select	Select		
Item Category	Package	Package	Container	Container		

- 3. Save your entries.
- 4. Check the following item types:

Table 100

Tuble 100	
Item Type	Item Category
CN	TUR Container
PKG	PKG Package
PRD	PRD Product

6.3 Defining Default Freight Document Types for Stages

In this procedure, you specify which freight document type (freight order type or freight booking type) is used to generate settlement documents through the shortcuts in the forwarding order.

You can specify different freight order types for each stage type and transportation mode.

Prerequisites

- You have set up the required freight document type in the system or you are using the standard values.
- You have specified the required stage types and transportation modes or you are using the standard values.

Procedure

- 2. Create an entry using the following data:

Table 101

Table 101					
Seq. No.	Shipping Type	Stage Type	Transportation Mode	Planning and Execution Organization	Document Type
8	LCL (Less than Container Load)	01	01	Blank	OF05
9	LCL (Less than Container Load)	02	01	Blank	OF10
10	LCL (Less than Container Load)	03	03	Blank	OF04
11	LCL (Less than Container Load)	04	01	Blank	OF10
12	LCL (Less than Container Load)	05	01	Blank	OF05
13	Blank	Blank	Blank	Blank	OF05

For all cases, select the following checkboxes:

- Create FD (Freight Document)
- Select FD (Freight Document)
- Sel. Schedule (Select Schedule)

7 Creation of Organizational Models

SAP Transportation Management uses functions from human resources to create and maintain organizational units. You use the organizational model to model the sales organization, purchasing organization, and transportation execution organization.

You also use the organizational model to assign the responsible organizational units to transportation documents such as a transportation request, a freight order, and so on. Assigning the order to an organizational unit is necessary to allocate the costs and profits incurred by the order to a business unit. It is also necessary for profit analysis of various groups and organizations of the logistics service provider (LSP). It helps analyze the costs that the company incurs for various carriers, routes, customers, and so on. The analysis can also lead to improved demand forecasting.

You need to maintain the organizational model in the SAP TM system since it is not transferred from the organizational units in SAP ERP. This scenario uses the organizational element *Forwarding House* (FH), which functions as a sales, purchasing, and transportation planning organization. Each forwarding house represents a station or branch office of an LSP.

Creating the organizational model includes the following operations:

- Creating companies [page 59]
 - In SAP ERP, you have two different companies representing the Japan and U.S. organizations. In SAP TM, these companies also have to be created. Forwarding houses are assigned to these companies.
- Defining business partners for forwarding houses [page 60]
- Creating forwarding houses [page 63]
 - Forwarding houses represent the individual stations, or business units of the LSP. Each station can sell transportation services, procure subcontracted services from chosen carriers and plan and execute the transport Thus each forwarding house acts as a sales, purchasing, and transport planning/execution unit.
- Assigning positions and users to forwarding houses [page 66]
 - Each forwarding house has its own representative user with a one-to-one relationship with the corresponding forwarding house.

7.1 Creating Companies

In SAP ERP, you have two different companies representing the Japan and U.S. organizations. In SAP TM, these companies also have to be created. Forwarding houses are assigned to these companies.

Procedure

Creating a Company

1. On the SAP Easy Access screen for SAP TM (or, alternatively, in SAP NetWeaver Business Client), choose | Master Data > Organization > Create Organization and Staffing | .

- 2. In the dialog box, set the validity period from <the first day of current year> to 31.12.9999, and press ENTER.
- 3. On the *Basic Data* tab page, in the *Organizational Unit* fields, enter **OAF-COMP-JP** and **Interforwarders Japan** as description.
- 4. On the Org. Data tab page, choose Create.
- 5. For Organizational Unit Function, enter **24**, for Organizational Unit Role, enter **1**, and select Intra Comp. Settlement.
- 6. Choose the Address tab page and enter the city Tokyo, Region 13 and the country JP.
- 7. Save your entries.
- 8. For the U.S. company, create a new organizational unit with the validity period **01.01**. **<current year>** to **31.12.9999** and press ENTER.
- 9. On the Basic Data tab page, in the Organizational Unit fields, enter OAF-COMP-US and Interforwarders Inc. United States as description.
- 10. On the Org. Data tab page, choose Create.
- 11. For Organizational Unit Function, enter **24**, for Organizational Unit Role, enter **1**, and select Intra Comp. Settlement.
- 12. Choose the Address tab page and enter the city Los Angeles, region CA, and country US.
- 13. Save your entries.

7.2 Defining Business Partners for Forwarding Houses

1 Note

If you have not implemented the BAdl for automatically creating business partners, you must create the business partners manually. For more information about creating business partners automatically, see SAP Note Number $1410353 \, \sim \,$ or $1540288 \, \sim \,$.

Procedure

Create Business Partners

- On the SAP Easy Access screen for SAP Transportation Management, choose ► SAP Transportation
 Management ➤ Transportation Management ➤ Master Data ➤ Maintain Business Partner or call transaction
 BP.
- 2. Create business partners of type *Organization* using the following data:

Abbreviation of Organizational Unit	Address	Search Term 1	Search Term 2	Business Partner Role
OAF-FWH-01	8-3 Kanayama Cho 1, Atsuta- ku Nagoya-shi,	FH Station	JP	CRM002 Ship-to Party CRM000 Sold to Party

Abbreviation of Organizational Unit	Address	Search Term 1	Search Term 2	Business Partner Role
	4560002, JP, Region 23 (Aichi)			 CRM010 Carrier FS0000 Financial Services BP BUP004 Organizational Unit CRM004 Bill-to Party
OF-FWH-03	3-12-1 Shin- Yamashita, Naka-ku, Yokohama, 2318682, JP, Region 14 (Kanagawa)	FH CFS	JP	 CRM002 Ship-to Party CRM000 Sold to Party CRM010 Carrier FS0000 Financial Services BP BUP004 Organizational Unit CRM004 Bill-to Party
OAF-FWH-04	3-36 Higashikojin- machi, Minam- ku, Hiroshima, 7320805, JP, Region 34 (Hiroshima)	FH Station	JP	 CRM002 Ship-to Party CRM000 Sold to Party CRM010 Carrier FS0000 Financial Services BP BUP004 Organizational Unit CRM004 Bill-to Party
OAF-FWH-05	6-23-15 Shiba, Minato-ku, Tokyo, 1080014, JP, Region 13 (Tokyo)	FH Station	JP	 CRM002 Ship-to Party CRM000 Sold to Party CRM010 Carrier

Abbreviation of Organizational Unit	Address	Search Term 1	Search Term 2	Business Partner Role
				 FS0000 Financial Services BP BUP004 Organizational Unit CRM004 Bill-to Party
OF-FWH-20	180 South Pico Avenue, Long Beach, 90802-6247, United States, Region CA (California)	FH CFS	US	 CRM002 Ship-to Party CRM000 Sold to Party CRM010 Carrier FS0000 Financial Services BP BUP004 Organizational Unit CRM004 Bill-to Party
OAF-FWH-21	8123 South Hardy Drive, Tempe, 85284-1106, US, Region AZ(Arizona)	FH Station	US	 CRM002 Ship-to Party CRM000 Sold to Party CRM010 Carrier FS0000 Financial Services BP BUP004 Organizational Unit CRM004 Bill-to Party
OAF-FWH-22	2296 Niels Bohr Court, San Diego, 92154, US, Region CA (California)	FH Station	US	 CRM002 Ship-to Party CRM000 Sold to Party CRM010 Carrier FS0000 Financial Services BP

Abbreviation of Organizational Unit	Address	Search Term 1	Search Term 2	Business Partner Role
				BUP004 Organizational Unit CRM004 Bill-to Party
OAF-FWH-25	213 El Camino Real, Milbrae, 94030-2607, US, Region CA (California)	FH Station	US	 CRM002 Ship-to Party CRM000 Sold to Party CRM010 Carrier FS0000 Financial Services BP BUP004 Organizational Unit CRM004 Bill-to Party

Assign Business Partner Roles

- On the SAP Easy Access screen for SAP Transportation Management, choose ► SAP Transportation
 Management ➤ Transportation Management ➤ Master Data ➤ Maintain Business Partner or call transaction
 BP.
- 2. In the Business Partner field, enter **of-fwh-20** and press ENTER.

The details of the business partner appear.

- 3. Switch to change mode and choose the following options from the Change in BP role dropdown box:
 - CRM010 Carrier (New)
 - CRM000 Sold-to-Party
 - CRM002 Ship-to Party
 - o FS0000 Financial Service BP
 - BUP004 Organizational Unit
- 4. Save your entries.

7.3 Creating Forwarding Houses

Forwarding houses represent the individual stations, or business units of the LSP. Each station can sell transportation services, procure subcontracted services from chosen carriers, and plan and execute the transport Thus each forwarding house acts as a sales, purchasing, and transport planning/execution unit.

All of the following organizational units are created as line supervisors of (lower level) units of the corresponding company code.

The following forwarding houses are created within the company OAF-COMP-JP:

Table 103

Table 103				
Abbreviation of Organizational Unit	OAF-FWH-01	OF-FWH-03	OAF-FWH-04	OAF-FWH-05
Name of Organizational Unit	FH Station Nagoya	FH CFS Yokohama	FH Station Hiroshima	FH Station Tokyo
Supervisor Of	None	None	None	None
Organizational Unit Function	89 (Forwarding House)	89 (Forwarding House)	89 (Forwarding House)	89 (Forwarding House)
Organizational Unit Role	1 (Organization)	1 (Organization)	1 (Organization)	1 (Organization)
Address	8-3 Kanayama Cho 1, Atsuta-ku, Nagoya-shi, 4560002, JP, Region 23 (Aichi)	3-12-1 Shin-Yamashita, Naka-ku, Yokohama, 2318682, JP, Region 14 (Kanagawa)	3-36 Higashikojin- machi, Minami-ku, Hiroshima, 7320805, JP ,Region 34 (Hiroshima)	6-23-1 Shiba, Minato- ku, 1080014, JP, Region 13 (Tokyo)
Business Partner	OAF-FWH-01	OAF-FWH-03	OAF-FWH-04	OAF-FWH-05
Charges Profile ID	OF-CP-FWH-01	OF-CP-FWH-03	OF-CP-FWH-04	OF-CP-FWH-05

The following forwarding houses are created within company OAF-COMP-US:

Abbreviation of Organizational Unit	OF-FWH-20	OAF-FWH-21	OAF-FWH-22	OAF-FWH-25
Name of Organizational Unit	FH CFS Los Angeles	FH Station Phoenix	FH Station San Diego	FH Station San Francisco
Supervisor Of	None	None	None	None
Organizational Unit Function	89 (Forwarding House)	89 (Forwarding House)	89 (Forwarding House)	89 (Forwarding House)
Organizational Unit Role	1 (Organization)	1 (Organization)	1 (Organization)	1 (Organization)
Address	180 South Pico Avenue, Long Beach, 90802-6247, United States, Region CA (California)	8123 South Hardy Drive, Tempe, 85284-1106, United States, Region AZ (Arizona)	2296 Niels Bohr Court, San Diego, 92154, United States, Region CA (California)	213 El Camino Real, Milbrae, 94030-2607, United States,Region CA (California)
Business Partner	OF-FWH-20	OF-FWH-21	OF-FWH-22	OF-FWH-25
Charges Profile ID	OF-CP-FWH-20	OF-CP-FWH-21	OF-CP-FWH-22	OF-CP-FWH-25

Procedure

Create Organizational Units

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Organization Create Organization and Staffing ...
- 2. Enter a valid period for your organizational unit.
- 3. Select (double-click) the appropriate company (OAF-COMP-JP or OAF-COMP-US).
- 4. Choose Create.
- 5. Choose is line supervisor of Organizational Unit. The new entry is created and is visible in the structure of the company.
- 6. On the Basic Data tab page, in the Organizational Unit fields, enter the abbreviation and name of the organization unit in the above tables.
- 7. On the Org. Data tab page, choose Create and define the Organizational Unit Function and Organizational Unit Role according to the above tables.
- 8. On the Address tab page, define the main address of the organization according to the above tables.
- 9. Save your entries.
 - An organizational unit number is generated along with the corresponding business partner number, which is visible on the Org. Data tab page of the organizational unit.
- 10. Create the remaining forwarding houses with the data in the above tables.

Rename Organizational Units

When you create organizational units, the system allocates organization unit IDs to the units. You can rename these IDs to be the same as the abbreviation from the tables above. Make a note of the system numbers as they are required for later reference.

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data > Organization > Edit Organization and Staffing ...
- 2. Choose Organizational unit and enter a search term of OAF-FWH*. Choose Find.
- 3. Double-click FH Station Nagoya in the Hit list panel.
- 4. Choose the *Org. data* tab page and note the Org-ID in the table below.
- 5. Rename the org. ID to OAF-FWH-01.
- 6. Choose Save.
- 7. Repeat steps 1-6 for all the organizational units listed in the following table:

Table 105

Company				Old Org. ID (Generated Automatically)	New Org. ID (To Be Entered Manually)
OAF-COMP-JP	OAF-FWH-01	FH Station	Nagoya	<8 digit number>	OAF-FWH-01
	OF-FWH-03 FH CFS Y		Yokohama	<8 digit number>	OF-FWH-03
	OAF-FWH-04	FH Station	Hiroshima	<8 digit number>	OAF-FWH-04
	OAF-FWH-05	FH Station	Tokyo	<8 digit number>	OAF-FWH-05
OAF-COMP-US	OF-FWH-20	FH CFS	Los Angeles	<8 digit number>	OF-FWH-20

Company				Old Org. ID (Generated Automatically)	New Org. ID (To Be Entered Manually)
	OAF-FWH-21	FH Station	Phoenix	<8 digit number>	OAF-FWH-21
	OAF-FWH-22	FH Station	San Diego	<8 digit number>	OAF-FWH-22
	OAF-FWH-25	FH Station	San Francisco	<8 digit number>	OAF-FWH-25

7.4 Assigning Positions and Users to Forwarding Houses

Forwarding houses represent different organizational units in the Ocean Freight scenario, and there is an automatic determination that considers user-specific organizations. This means that each forwarding house has its own representative user with a one-to-one relationship with the corresponding forwarding house. Therefore, you must maintain one user for each organizational unit (Forwarding House). Later in this process, each process step is then executed by a different user.

Prerequisites

Copy Roles to your Namespace

For this scenario, copy the following Standard roles to your namespace:

- /SCMTMS/PLANNER
- /SCMTMS/BOOKING_AGENT
- /SCMTMS/CUSTOMER_SERVICE_AGENT

Create and Generate Authorization Profiles

For each role, maintain authorization profiles and generate them. For detailed information about authorization levels, see Creation of Organizational Models [page 59] to check the organizational units used in this scenario.

Procedure

Create User Profiles

- 1. On the SAP Easy Access screen for SAP TM, choose ▶ Application Administration ➤ General Settings ➤ User Maintenance ▶.
- 2. Create the following users:

Name	First Name	Assigned Roles
Jones	Brian	/YOUR_NAMESPACE/
		PLANNER /
		YOUR_NAMESPACE/
		BOOKING_AGENT

User ID	Name	First Name	Assigned Roles
BARKLEY	Barkley	Charles	/YOUR_NAMESPACE/ CUSTOMER_SERVICE_AG ENT
JIME	JIME	Hadaka	SAP_QAP_TESTER_NEW ZTEST_CUSTOMER_SERV ICE_AGENT
GARI	Gari	Osoto	/YOUR_NAMESPACE/ PLANNER/ YOUR_NAMESPACE/ BOOKING_AGENT

Assign Users to Forwarding Houses

- 1. On the SAP Easy Access screen for SAP TM, choose ▶ Master Data ➤ Organization ➤ Edit Organization and Staffing ▶.
- 2. Choose one of the forwarding houses (for example. OF-FWH-20).
- 3. In the *Task Assignment* field highlight the forwarding house and choose *New*.
- 4. In the pop-up for new relationships choose *Incorporates Position* .
- 5. Name the new position either *Transportation Planner* or *Customer Service Agent* . For the correct naming convention, see the table below.
- 6. Highlight the new position and choose Assign Holder-User.
- 7. Assign the users as indicated in the following table:

Abbreviation of Organizational Unit	Name of the Organizational Unit	Position ID	Position Description	Assigned User
OF-FWH-20	FH CFS Los Angeles	CustServA_US	Customer Service Agent US	Brian Jones
OAF-FWH-21	FH Station Phoenix	TransPlan_US	Transportation Planner US	Charles Barkley
OAF-FWH-22	FH Station San Diego	None	None	None
OAF-FWH-25	FH Station San Francisco	None	None	None
OAF-FWH-01	FH Station Nagoya	None	None	None
OAF-FWH-05	FH Station Tokyo	CustServA_JP	Customer Service Agent JP	JIME

Abbreviation of Organizational Unit	Name of the Organizational Unit	Position ID	Position Description	Assigned User
OF-FWH-03	FH CFS Yokohama	TransPlan_JP	Transportation Planner JP	OSOTOGARI
OAF-FWH-04	FH Station Hiroshima	None	None	None

1 Note

If required, you can return to the Defining Freight Booking Types for Export [page 45] section to continue.

8 Transportation Network Setup in SAP TM

Setting up the transportation network requires the following definition procedures:

- Locations [page 69]
- Means of transport [page 71]
- Transportation zones [page 72]
- Transportation lanes [page 74]
- Default routing [page 95]

8.1 Defining Locations

Procedure

- 1. On the SAP Easy Access screen for SAP TM, choose ▶ Master Data ➤ Transportation Network ➤ Define Location ■.
- 2. Create locations with the following data:

Japanese locations

Table 108: Japanese Locations

Location	OF-JPYOK	OAF-STA- JPNGO	OAF-STA- JPTYO	OAF-STA- JPHIJ	OF-CFS-JPYOK
Description	Yokohama Port	FH Station Nagoya	FH Station Tokyo	FH Station Hiroshima	Container Freight Station Yokohama
Location Type	1100	1002	1002	1002	1130
Time Zone	JAPAN	JAPAN	JAPAN	JAPAN	JAPAN
Search Term	Ocean Port	FH Station	FH Station	FH Station	Container Station
Address	Sakuragicho, Yokohama, 2310005	8-3 Kanayama Cho 1, Atsuta-ku Nagoya-shi, 4560002	6-23-15 Shiba, Minato-ku, Tokyo, 1080014	3-36 Higashikojin -machi, Minamiku, Hiroshima, 7320805	3-12-1 Shin- Yamashita, Naka-ku, 2318682
Country	JP	JP	JP	JP	JP

Region	14 (Kanagawa)	23 (Aichi)	13 (Tokyo)	34 (Hiroshima)	14 (Kanagawa)
UN/LOCODE	JPYOK	JPNGO	JPTYO	JPHIJ	JPYOK
Business Partner	None	OAF-FWH-01	OAF-FWH-05	None	OF-FWH-03

U.S. locations

Table 109: U.S. Locations

OF-USLGB	OAF-STA- USSAN	OAF-STA- USSFO	OAF-STA- USPHX	OF-CFS-USLAX
Long Beach Port	FH Station San Diego	FH Station San Francisco	FH Station Phoenix	Container Freight Station Los Angeles
1100	1002	1002	1002	1130
UTC-8	UTC-8	UTC-8	MSTNO	UTC-8
Ocean Port	FH Station	FH Station	FH Station	Container Station
Long Beach	2296 Niels Bohr Court, San Diego, 92154	213 El Camon Real, Milbrae, 94030-2607	8123 South Hardy Drive, Tempe, 85284-1106	180 South Pico Avenue, Long Beach, 90802-6247
US	US	us	US	US
CA (California)	CA (California)	CA (California)	AZ (Arizona)	CA (California)
USLGB	USSAN	USSFO	USPHX	USLAX
None	OAF-FWH-22	None	OAF-FWH-21	OAF-FWH-20
	Long Beach Port 1100 UTC-8 Ocean Port Long Beach US CA (California) USLGB	USSAN Long Beach FH Station San Diego 1100 1002 UTC-8 UTC-8 Ocean Port FH Station Long Beach 2296 Niels Bohr Court, San Diego, 92154 US US CA (California) (California) USLGB USSAN	USSAN USSFO Long Beach FH Station FH Station San Diego San Francisco 1100 1002 1002 UTC-8 UTC-8 UTC-8 Ocean Port FH Station FH Station Long Beach 2296 Niels FH Station Bohr Court, Real, San Diego, Milbrae, 92154 94030-2607 US US US CA (California) (California) USLGB USSAN USSFO	USSAN USSFO USPHX Long Beach FH Station FH Station FH Station Phoenix 1100 1002 1002 1002 UTC-8 UTC-8 UTC-8 UTC-8 MSTNO Cean Port FH Station FH Station FH Station Long Beach 2296 Niels 213 El Camon Bhor Court, San Diego, Milbrae, Feal, Hardy Drive, San Diego, 92154 94030-2607 85284-1106 US US US US US CA (CA CA CA (CA AZ (Arizona) (California) USSFO USPHX

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

Table 110: Geocoordinates

Location	Longitude	Latitude
OF-JPYOK	+ 139: 41: 00	+ 35: 24: 00
OAF-STA-JPTYO	+ 139: 30: 00	+ 35: 45: 00
OAF-STA-JPHIJ	+ 132: 28: 00	+ 34: 23: 00
OF-USLGB	- 119: 30: 00	+ 33: 46: 00
OAF-STA-JPNGO	+ 137: 15: 00	+ 35: 00: 00
OAF-STA-USSAN	- 119: 30: 00	+ 37: 30: 00
OAF-STA-USPHX	- 112: 05: 44	+ 33: 33: 31

Location	Longitude	Latitude
OF-CFS-JPYOK	+ 139: 30: 00	+ 35: 30: 00
OF-CFS-USLAX	- 119: 30: 00	+ 37: 30: 00
OAF-STA-USSFO	- 122: 23: 00	+ 37: 34: 00

4. Save your entries.

8.2 Defining Means of Transport

If you have already completed the Defining Freight Order Types [page 43] section, the information given in this section may already be complete.

Procedure

- 1. In Customizing for *Transportation Management*, choose ▶ *Master Data* ➤ *Resources* ➤ *Define Means of Transport* ■.
- 2. Define the following means of transport if they do not yet exist in the system:

Table 111

Description		Value	Value				
Means of Tra	nsport	OF_VESSEL	OAF_TRUCK	OAF_TRUK_S	OF_TRA	OF_TR	
MTr Descript	ion	Scheduled Vessel JP - US	Truckload	Truckload Schedule (Feeder Trucks)	Tractor	Trailer	
Transp. Mode	е	03 SEA	01 ROAD	01 ROAD	01 ROAD	01 ROAD	
Resource Cla	ISS	Blank	Blank	Blank	Truck	Trailer	
Speed	Low	20	35	35	Blank	Blank	
	Med	30	45	45	Blank	Blank	
	High	40	55	55	Blank	Blank	
	Avg	20	45	45	100	100	
Distance Fac	tor	1	Blank	Blank	Blank	Blank	
Multires		Select	Blank	Blank	Blank	Select	
No. of Individ	ual Res	15	Blank	Blank	Blank	Blank	
Schedule MT	r	Select	Blank	Select	Blank	Blank	
GIS Quality		Deselect	Deselect	Deselect	Deselect	Blank	

Description	Value				
No Capacity	Blank	Blank	Blank	Select	Blank
Passive	Blank	Blank	Blank	Blank	Select

i Note

If required, you can return to the Defining Freight Order Types [page 43] section to continue.

8.3 Defining Transportation Zones

A transportation zone is a business object that groups a number of locations. The system can partly transfer the properties that you assign to a transportation zone to all its locations. This function reduces the volume of master data that is stored in the system.

For the LCL ocean freight scenario, four transportation zones are used: OAF-JP-SHPNGO, OAF-JP-SHPTYO, OAF-US-SHPPHX, and OAF-US-SHPSAN. If these zones do not exist in your system, you can use this procedure to define them.

For the FCL ocean freight scenario, two transportation zones are used: OF-JP-SHPALL and OF-US-SHPALL. If these zones do not exist in your system, you can use this procedure to define them.

Procedure

- 1. On the SAP Easy Access screen for SAP TM, choose ▶ Master Data ➤ Transportation Network ➤ Define Transportation Zones ▶.
- 2. Choose *Create* and create the zone OAF-JP-SHPNGO as follows:

Table 112

Zone	Description
OAF-JP-SHPNGO	OAF: Shippers for Station Nagoya

- 3. On the *Zone Location* tab page, create the following locations:
 - O CUOAF-CU-03@ERP001
 - OAF-STA-JPNGO
- 4. Create the zone OAF-JP-SHPTYO as follows:

Table 113

Zone	Description
OAF-JP-SHPTYO	OAF: Shippers for Station Tokyo

- 5. On the Zone Location tab page, create the following locations:
 - O CUOAF-CU-01@ERP001
 - O CUOAF-CU-02@ERP001
 - O CUOAF-CU-04@ERP001
 - OAF-STA-JPTYO

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6. Create the zone OAF-US-SHPSAN as follows:

Table 114

Zc	one	Description			
OF	AF-US-SHPSAN	OAF:	Shippers fo	r Station	San Diego

- 7. On the *Zone Location* tab page, create the following locations:
 - O CUOAF-CO-03@ERP001
 - OAF-STA-USSAN
- 8. Create the zone OAF-US-SHPPHX as follows:

Table 115

Zone	Description
OAF-US-SHPPHX	OAF: Shippers for Station Phoenix

- 9. On the *Zone Location* tab page, create the following locations:
 - O CUOAF-CO-01@ERP001
 - O CUOAF-CO-02@ERP001
 - O CUOAF-CO-04@ERP001
 - OAF-STA-USPHX
- 10. Create the zone OF-JP-SHPALL as follows:

Table 116

Zone	Description
OF-JP-SHPALL	Ocean freight zone JP SHP-PORT

- 11. On the Zone Location tab page, create the following locations:
 - O CUOAF-CU-01@ERP001
 - O CUOAF-CU-02@ERP001
 - O CUOAF-CU-03@ERP001
 - O CUOAF-CU-04@ERP001
 - OF-JPYOK
- 12. Create the zone OF-US-SHPALL as follows:

Zone	Description	
OF-US-SHPALL	Ocean freight zone US SHP-PORT	

- 13. On the *Zone Location* tab page, create the following locations:
 - O CUOAF-CO-01@ERP001
 - O CUOAF-CO-02@ERP001
 - O CUOAF-CO-03@ERP001
 - O CUOAF-CO-04@ERP001
 - OF-USLGB

8.4 Defining Transshipment Location Assignments

Procedure

- 1. On the SAP Easy Access screen for SAP TM, choose ▶ Master Data ➤ Transportation Network ➤ Define Transshipment Location Assignments ■.
- 2. Select Transportation Zones.
- 3. In the *Transportation Zone* field, enter **OAF-JP-SHPTYO** and in the *Transshipment Location* field, enter **OAF-STA-JPTYO**.
- 4. In the Rough Planning Duration field, enter 2:00.
- 5. Choose the Create/Update Assignments pushbutton.
- 6. Save your entries.
- 7. Repeat the procedure using the following data:

Table 118

Transportation Zone	Transportation Location	Duration
OAF-US-SHPPHX	OAF-STA-USPHX	2:30
OAF-US-SHPSAN	OAF-STA-USSAN	2:40
OAF-JP-SHPNGO	OAF-STA-JPNGO	2:15
OF-JP-SHPALL	OF-JPYOK	Blank
OF-US-SHPALL	OF-USLGB	Blank

8.5 Defining Transportation Lanes

Procedure

Define Transportation Lane for Zone OAF-JP-SHPNGO

- 1. On the SAP Easy Access screen for SAP TM, choose ▶ Master Data ➤ Transportation Network ➤ Define Transportation Lane ■.
- 2. Choose the *Intra-Zone/Loc. Transp. Lane* tab page, enter transportation zone **OAF-JP-SHPNGO**, and choose *Create*.
- 3. In the Means of Transport area, create an entry with the following data:

Table 119

Means of Transport	Start Date	End Date
OAF_TRUCK	2011-01-01	9999-12-31

Strategy	Value
Relevant to Carrier Selection	Select

Strategy	Value
Priority / Costs	X Neither Costs Nor Priority
Cost Origin	Internal Cost
Continuous Move Type	No Continuous Move

- 4. Press Copy and Close.
- 5. When asked to create a transportation proposal, choose No.
- 6. In the Carrier for Means of Transport area, create an entry with the following data:

Business Partner	Transportation Costs per KM	Priority
OAF-CR-04	500	1

- 7. Press Copy and Close.
- 8. Save your entries.

Define Transportation Lane for Zone OAF-JP-SHPTYO

- 1. On the SAP Easy Access screen for SAP TM, choose ▶ Master Data ➤ Transportation Network ➤ Define Transportation Lane ■.
- 2. Choose the *Intra-Zone/Loc. Transp. Lane* tab page, enter transportation zone **OAF-JP-SHPTYO**, and choose *Create*.
- 3. In the *Means of Transport* area, create an entry with the following data:

Table 122

Means of Transport	Start Date	End Date
OAF_TRUCK	2011-01-01	9999-12-31

Table 123

Strategy	Value
Relevant to Carrier Selection	Select
Priority / Costs	X Neither Costs Nor Priority
Cost Origin	Internal Cost
Continuous Move Type	No Continuous Move

- 4. Press Copy and Close.
- 5. When asked to create a transportation proposal, choose No.
- 6. In the Carrier for Means of Transport area, create an entry with the following data:

BP Number	Transportation Costs per KM	Priority
OAF-CR-03	1000	1

- 7. Press Copy and Close.
- 8. Save your entries.

Define Transportation Lane for Zone OAF-US-SHPSAN

- 1. On the SAP Easy Access screen for SAP TM, choose ▶ Master Data ➤ Transportation Network ➤ Define Transportation Lane ■.
- 2. Choose the *Intra-Zone/Loc. Transp. Lane* tab page, enter transportation zone **OAF-US-SHPSAN**, and choose *Create*.
- 3. In the *Means of Transport* area, create an entry with the following data:

Table 125

Means of Transport	Start Date	End Date
OAF_TRUCK	2011-01-01	9999-12-31

Table 126

Strategy	Value
Relevant to Carrier Selection	Select
Priority / Costs	X Neither Costs Nor Priority
Cost Origin	Internal Cost
Continuous Move Type	No Continuous Move

- 4. Press Copy and Close.
- 5. When asked to create a transportation proposal, choose No.
- 6. In the Carrier for Means of Transport area, create an entry with the following data:

Table 127

BP Number	Transportation Costs per KM	Priority
OAF-CR-05	1000	1

- 7. Press Copy and Close.
- 8. Save your entries.

Define Transportation Lane for Zone OAF-US-SHPPHX

- 1. On the SAP Easy Access screen for SAP TM, choose ▶ Master Data ➤ Transportation Network ➤ Define Transportation Lane ▶.
- 2. Choose the *Intra-Zone/Loc. Transp. Lane* tab page, enter transportation zone **OAF-US-SHPPHX**, and choose *Create*
- 3. In the *Means of Transport* area, create an entry with the following data:

Table 128

Means of Transport	Start Date	End Date
OAF_TRUCK	2011-01-01	9999-12-31

Strategy	Value
Relevant to Carrier Selection	Select
Priority / Costs	X Neither Costs Nor Priority

Strategy	Value
Cost Origin	Internal Cost
Continuous Move Type	No Continuous Move

- 4. Press Copy and Close.
- 5. When asked to create a transportation proposal, choose No.
- 6. In the Carrier for Means of Transport area, create an entry with the following data:

BP Number	Transportation Costs per KM	Priority
OAF-CR-06	1000	1

- 7. Press Copy and Close.
- 8. Save your entries.

Define Transportation Lane for Zone OF-JP-SHPALL

- 1. On the SAP Easy Access screen for SAP TM, choose ▶ Master Data ➤ Transportation Network ➤ Define Transportation Lane ■.
- 2. Choose the *Intra-Zone/Loc. Transp. Lane* tab page, enter transportation zone **OF-JP-SHPALL**, and choose *Create*.
- 3. In the *Means of Transport* area, create an entry with the following data:

Table 131

Means of Transport	Start Date	End Date
OAF_TRA	2011-01-01	9999-12-31

Table 132

Strategy	Value
Relevant to Carrier Selection	Select
Priority / Costs	X Neither Costs Nor Priority
Cost Origin	Internal Cost
Continuous Move Type	No Continuous Move

- 4. Press Copy and Close.
- 5. When asked to create a transportation proposal, choose No.
- 6. In the Carrier for Means of Transport area, create an entry with the following data:

Table 133

BP Number	Transportation Costs per KM	Priority
OAF-CR-03	1000	1

- 7. Press Copy and Close.
- 8. Save your entries.

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Define Transportation Lane for Zone OF-US-SHPALL

- 1. On the SAP Easy Access screen for SAP TM, choose ▶ Master Data ➤ Transportation Network ➤ Define Transportation Lane ■.
- 2. Choose the *Intra-Zone/Loc. Transp. Lane* tab page, enter transportation zone **OF-US-SHPALL**, and choose *Create*.
- 3. In the *Means of Transport* area, create an entry with the following data:

Table 134

Means of Transport	Start Date	End Date
OAF_TRA	2011-01-01	9999-12-31

Table 135

Strategy	Value
Relevant to Carrier Selection	Select
Priority / Costs	X Neither Costs Nor Priority
Cost Origin	Internal Cost
Continuous Move Type	No Continuous Move

- 4. Press Copy and Close.
- 5. When asked to create a transportation proposal, choose No.
- 6. In the Carrier for Means of Transport area, create an entry with the following data:

Table 136

BP Number	Transportation Costs per KM	Priority
OAF-CR-06	1000	1

- 7. Press Copy and Close.
- 8. Save your entries.

8.6 Defining Means of Transport Combination

Procedure

- 1. In Customizing for Transportation Management, choose ▶ Master Data ➤ Resources ➤ Define Means of Transport Combination ■.
- 2. Choose the New Entries pushbutton and enter the following data:

Table 137

MTr Comb.	MTr	Number of Resources with this Means of Trans.	Pass.
OF_TT	OF_TR	1	Select
OF_TT	OF_TRA	2	Deselect

3. Save your entries.

9 Resources

For SAP TM, defining resources includes defining the vehicle and carrier resources and the appropriate scheduling. This is achieved with the following procedures:

- Defining Vehicle Resources [page 79]
- Defining Container Resources [page 84]
- Defining Ocean Resources [page 85]
- Defining Inland Trucking Schedule Types [page 86]
- Defining Ocean Carrier Schedules [page 88]
- Defining Sailing Schedules [page 89]
- Defining Truck Schedules [page 91]
- Defining Default Routes [page 95]
- Defining House Bill of Lading Stock [page 100]

9.1 Defining Vehicle Resources

Procedure

On the SAP Easy Access screen for SAP TM, choose Master Data Resources Define Resource .

Resource: OAF-JP-TRUCK1

1. On the initial screen, create the following transportation unit resources:

Table 138

Field	Value
Resource	OAF-JP-TRUCK1
Resource Type	09 (Vehicle Resource)
Resource Category	T (Transportation)

2. In the table below *O Vehicle*, enter the following information:

Field	Value
Resource	OAF-JP-TRUCK1
Location	Blank
Means of Transport	OAF_TRUK_S
Time Zone	JAPAN

Field	Value
Continuous Dimension	Mass
Factory Calendar	JP
Capacity	40
Unit	TO

3. On the *General Data* tab page, configure the following settings:

Table 140

Field	Value
Passive Means of Transport	Deselect
Number of Individual Resources	Blank (0)
Multiresource	Deselect

4. Save your entries.

Resource: OF-JP-TRACTOR

1. On the initial screen, create the following transportation unit resources:

Table 141

Field	Value
Resource	OF-JP-TRACTOR
Resource Type	09 (Vehicle Resource)
Resource Class	1 (Truck)

2. In the table below *O Vehicle*, enter the following information:

Table 142

Table 142	
Field	Value
Resource	OF-JP-TRACTOR
Location	Blank
Means of Transport	OF_TRA
Time Zone	JAPAN
Continuous Dimension	Mass
Factory Calendar	JP
Capacity	30
Unit	TO

3. On the *General Data* tab page, configure the following settings:

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Field	Value
Passive Means of Transport	Deselect
Number of Individual Resources	Blank (0)
Multiresource	Select
Unlimited No. of Indiv. Res	Select

4. Save your entries.

Resource: OF-JP-TRAILER

1. On the initial screen, create the following transportation unit resources:

Table 144

Field	Value
Resource	OF-JP-TRAILER
Resource Type	09 (Vehicle Resource)
Resource Class	2 (Trailer)

2. In the table below *O Vehicle*, enter the following information:

Table 145

Table 143	
Field	Value
Resource	OF-JP-TRAILER
Location	Blank
Means of Transport	OF_TR
Time Zone	JAPAN
Continuous Dimension	Mass
Factory Calendar	JP
Capacity	30
Unit	TO

3. On the *General Data* tab page, configure the following settings:

Table 146

Field	Value
Passive Means of Transport	Select
Number of Individual Resources	Blank (0)
Multiresource	Select
Unlimited No. of Indiv. Res	Select

4. Save your entries.

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Resource: OAF-US-TRUCK1

1. On the initial screen, create the following transportation unit resources:

Table 147

Field	Value
Resource	OAF-US-TRUCK1
Resource Type	09 (Vehicle Resource)
Resource Category	T (Transportation)

2. In the table below *O Vehicle*, enter the following information:

Table 148

Field	Value
Resource	OAF-US-TRUCK1
Location	Blank
Means of Transport	OAF_TRUK_S
Time Zone	UTC-8
Continuous Dimension	Mass
Factory Calendar	us
Capacity	40
Unit	TO

3. On the *General Data* tab page, configure the following settings:

Table 149

Field	Value
Passive Means of Transport	Deselect
Number of Individual Resources	Blank (0)
Multiresource	Deselect

4. Save your entries.

Resource: OF-US-TRACTOR

1. On the initial screen, create the following transportation unit resources:

Table 150

Field	Value
Resource	OF-US-TRACTOR
Resource Type	09 (Vehicle Resource)
Resource Class	1 (Truck)

2. In the table below *O Vehicle*, enter the following information:

Field	Value
Resource	OF-US-TRACTOR
Location	Blank
Means of Transport	OF_TRA
Time Zone	PST
Continuous Dimension	Mass
Factory Calendar	US
Capacity	36
Unit	TO

3. On the *General Data* tab page, configure the following settings:

Table 152

Field	Value
Passive Means of Transport	Deselect
Number of Individual Resources	Blank (0)
Multiresource	Select
Unlimited No. of Indiv. Res	Select

4. Save your entries.

Resource: OF-US-TRAILER

1. On the initial screen, create the following transportation unit resources:

Table 153

Field	Value
Resource	OF-US-TRAILER
Resource Type	09 (Vehicle Resource)
Resource Class	2 (Trailer)

2. In the table below *O Vehicle*, enter the following information:

Field	Value
Resource	OF-US-TRAILER
Location	Blank
Means of Transport	OF_TR
Time Zone	PST
Continuous Dimension	Mass

Field	Value
Factory Calendar	JP
Capacity	36
Unit	TO

3. On the General Data tab page, configure the following settings:

Table 155

Field	Value
Passive Means of Transport	Select
Number of Individual Resources	Blank (0)
Multiresource	Select
Unlimited No. of Indiv. Res	Select

4. Save your entries.

9.2 Defining Container Resources

To provide the required container equipment to be loaded at the shipper's facilities in the event of an FCL movement, you must specify the transportation unit resources. These are available for operation in the empty container depots at the exporting station.

Procedure

On the SAP Easy Access screen for SAP TM, choose Master Data Resources Define Resource ...

Resources for Station OAF-STA-JPTYO

- 1. On the *Transportation Resource Master* screen, create new resources.
- 2. In the header area, go to the *Transportation Unit* tab page and create the following resources in turn:

Table 156

Field	Resource 1	Resource 2	Resource 3
Resource	CNTYO_20G0	CNTYO_42GO	CNTYO_22R1
Short Description	20 ft, Station Tokyo	40 ft, Station Tokyo	20 ft Reefer, Station Tokyo
Equipment Group	CN	CN	CN
Equipment Type	20G0	42G0	22R1
Location	OAF-STA-JPTYO	OAF-STA-JPTYO	OAF-STA-JPTYO
Factory Calendar	JP	JP	JP
Continuous Dim.	MASS	MASS	MASS

Field	Resource 1	Resource 2	Resource 3
Capacity	29,930 KG	39,930 KG	29,930 KG
Active Variant	0	0	0

Resources for Station OAF-STA-JPNGO

- 1. On the *Transportation Resource Master* screen, create new resources.
- $2. \quad \text{In the header area, go to the } \textit{Transportation Unit} \ \text{tab page and create the following resources in turn:} \\$

Table 157

Field	Resource 1	Resource 2	Resource 3
Resource	CNNGO_22R1	CNNGO_20G0	CNNGO_42GO
Short Description	20 ft Reefer, Station Nagoya	20 ft, Station Nagoya	40 ft, Station Nagoya
Equipment Group	CN	CN	CN
Equipment Type	22R1	20G0	42G0
Location	OAF-STA-JPNGO	OAF-STA-JPNGO	OAF-STA-JPNGO
Factory Calendar	JP	JP	JP
Continuous Dim.	MASS	MASS	MASS
Capacity	29,930 KG	29,930 KG	39,930 KG
Active Variant	0	0	0

9.3 Defining Ocean Resources

Procedure

On the SAP Easy Access screen for SAP TM, choose Master Data Resources Define Resource .

Resource: OF-MS1

1. On the initial screen, create the following transportation resources:

Table 158

Field	Value
Resource	OF-MS1
Resource Type	09 (Vehicle Resource)
Resource Category	T (Transportation)

2. In the table below *O Vehicle*, enter the following information:

Field	Value
Resource	OF-MS1
Location	Blank
Means of Transport	OF_VESSEL
Time Zone	JAPAN
Continuous Dimension	AAAADL (no dimensions)
Factory Calendar	JP
Capacity	14000
Unit	TEU
Resource / Description	OF-MS1 / OF-JP-US

3. On the General Data tab page, configure the following settings:

Table 160

Field	Value
Passive Means of Transport	Deselect
Number of Individual Resources	15
Multiresource	Select

4. Save your entries.

9.4 Defining Inland Trucking Schedule Types

Procedure

- 2. Copy the standard "2200 Road Gateway Schedule" schedule type to create schedule type "OF11 OF: Inland Trucking Schedule".
- 3. Enter the following data:

1000 101	
Field	Value
Schedule Type	OF11
Description	OF: Inland Trucking Schedule
Default Type	Deselect
Transp. Mode	01 - ROAD
Header Number Range	07

Field	Value
Voyage Number Range	01
Offset Time Type	A Absolute
Gateway	Select
Direct	Select
Document Type	OF10

- 4. Save your entries.
- 5. Copy the standard "1000 Ocean Carrier Schedule" schedule type to create schedule type "OF12 OF: Ocean Carrier Schedule".
- 6. Enter the following data:

. 45.6 162		
Field	Value	Comment
Schedule Type	OF12	None
Description	OF: Ocean Carrier Schedule	None
Default Type	Select	None
Transp. Mode	03 - SEA	None
Header Number Range	07	Changed from standard entry
Voyage Number Range	01	None
Offset Time Type	A Absolute	Changed from standard entry
Gateway	Deselect	None
Direct	Deselect	None
Document Type	OF04	Changed from standard entry

- 7. Save your entries.
- 8. Copy the standard "2100 Sailing Schedule with Reference" schedule type to create schedule type "OF13 OF: Sailing Schedule with Reference".
- 9. Enter the following data:

Field	Value	Comment
Schedule Type	OF13	None
Description	OF: Sailing Schedule with Reference	None
Default Type	Deselect	None
Transp. Mode	03 - SEA	None
Header Number Range	07	Changed from standard entry

Field	Value	Comment
Voyage Number Range	01	None
Offset Time Type	A Absolute	Changed from standard entry
Gateway	Select	None
Reference	Select	None
Direct	Deselect	None
Document Type	OF04	Changed from standard entry

10. Save your entries.

Defining Ocean Carrier Schedules 9.5

Procedure

- 1. In SAP NetWeaver Business Client for SAP TM, choose | Master Data Transportation Network Schedules > Create Schedule \(\).
- 2. Create new schedule OF-SCHED-CR-02 using type OF12 OF: Ocean Carrier Schedule.
- 3. Enter the following data:

Table 164

Field	Value
Schedule	OF-SCHED-CR-02
Description	JPYOK - USLGB SOCAL
Valid From	2011-01-01
Valid To	2099-12-31
Schedule Type	OF12
Transportation Mode	03 - Sea
Transportation Group	Blank
Carrier	OAF-CR-02
Standard Carrier Alpha Code	Blank
Loop	Blank

4. Create a standard port sequence by adding the following locations:

Table 165

Field	Value	Value
Sequence	10	20
Location	OF-JPYOK	OF-USLGB

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Resources

Field	Value	Value
Cargo Cut Off (Offset in Days)	1	Blank
Cargo Cut-Off Time	12:00:00	Blank
Transit Duration in Days	12	Blank
Days to Availability	Blank	1
Availability Time	Blank	20:00:00

5. Create voyages by adding the following departure rule (in the *Voyages* screen area, choose *Departure Rules*): Table 166

Field	Value
First Day of Validity	<first current="" day="" month="" of="" the=""></first>
Last Day of Validity	<pre><last day="" next="" of="" the="" year=""></last></pre>
Day	Friday
Vessel	Blank (see below)
Departure Time	14:00:00
Time Zone	JAPAN

- 6. Select the departure rule and choose *Generate Voyages* . The voyages are automatically added to the *Voyages* tab page.
- 7. After creating the voyages, you need to enter the vessel names manually for each voyage. Select the *Voyages* tab page, and then enter the following vessel names (one vessel name to one voyage):
 - Astoria
 - o Dagmar
 - La Jolla
 - SOCAL Princess

Use each vessel in turn so, after four voyages, you start with vessel Astoria again.

8. Save your entries.

9.6 Defining Sailing Schedules

Procedure

- 2. Create schedule OF-SAILSCHED-CR-02 using type OF13 (OF: Sailing Schedule with Reference).
- 3. Enter the following data:

Field	Value
Schedule	OF-SAILSCHED-CR-02
Description	CFS_JPYOK - CFS_USLAX SOCAL
Valid From	<today></today>
Valid To	<pre><one future="" in="" the="" year=""></one></pre>
Schedule Type	OF13
Transportation Mode	03 - Sea
Carrier	OAF-CR-02

4. Create a pair of standard container freight stations (CFS) by adding the following locations:

Table 168

Field	Value	Value
Source CFS	OF-CFS-JPYOK	Not applicable
Destination CFS	Not applicable	OF-CFS-USLAX
Transit Duration (Days)	1	Not applicable
Transit Duration (Hours)	5	Not applicable
Cargo Cut-Off (Offset in Days)	1	Not applicable
Cargo Cut-Off Time	10:00:00	Not applicable
Days to Availability	Not applicable	1
Availability Time	Not applicable	22:00:00

5. Enter the corresponding ports using the input help (F4). Also see the recommendation below.

Table 169

14510-105	
Port of Loading Sequence	OF-JPYOK
Port of Discharge Sequence	OF-USLGB

- 6. Create departure rules by copying them from the ocean carrier schedule. To do so, choose ▶ Copy Data from Ocean Carrier Schedule > Departure Rules \(\) .
- 7. Check the data copied from the ocean carrier schedule by choosing Departure Rules on the Voyages tab
- 8. Create voyages by copying them from the ocean carrier schedules. To do so, choose Dopy Data Ocean from Carrier Schedule > Voyages 1. Check the data copied from the ocean carrier schedule by choosing Voyages on the Voyages tab page.
- 9. Save your entries.

Recommendation

If the fields for the port of loading and the port of discharge are not displayed, check the Customizing settings for default schedule type 2100 and make sure that the Direct checkbox is not set. To do so, proceed as follows:

- 1. In Customizing for *Transportation Management*, choose ▶ *Master Data* ▶ *Transportation Network* ▶ Schedule ▶ Define Schedule Types ▶.
- 2. Choose schedule type 2100 and display details

9.7 Defining Truck Schedules

For the daily feeder trucks from the station to the CFS and from the CFS to the station, a schedule is required to plan the pre-carriage and on-carriage stages. The schedule uses schedule type OF03 (*Inland Trucking Schedule*) in the SAP TM system.

Procedure

Schedule for OAF-STA-JPNGO to OF-CFS-JPYOK

- 1. On the SAP NetWeaver Business Client, choose ▶ Master Data ▶ Transportation Network ▶ Schedule ▶ Create Schedule ▶.
- 2. Choose the standard schedule type OF11 and then choose Continue.
- 3. Create new schedule OAF-TRUCKSCHED-01:

Table 170

14510 17 0	
Field	Value
Schedule	OF-TRUCKSCHED-01
Description	Schedule Trucking STA-JPNGO to CFS-JPYOK
Valid From	<today></today>
Valid To	<pre><one future="" in="" the="" year=""></one></pre>
Carrier	OAF-CR-04
Carrier Schedule	Blank

4. Create a standard CFS by adding the following locations

Field	Value	Value
Source CFS	OAF-STA-JPNGO	Not applicable
Destination CFS	Not applicable	OF-CFS-JPYOK
Transit Duration (Hours)	5	Not applicable
Cargo Cut-Off Time	07:00:00	Not applicable
Document Cut-Off Time	08:00:00	Not applicable
Availability Time	Not applicable	14:00:00
Time Zone	Japan	Japan

- 5. Create voyages by adding the following departure rule in the *Departures* area. On the *Departure Rules* tab page, choose *Create* .
- 6. Add the following entry:

Field	Value
First Day of Validity	<first actual="" day="" month="" of="" the=""></first>
Last Day of Validity	<pre><last day="" of="" this="" year=""></last></pre>
Departure Frequency	Daily (select the checkbox for each weekday)
Departure Time	09:00:00
Time Zone	JAPAN

- 7. Select the new line and choose *Generate Departures* . On the *Departures* tab page, check that the departures have been automatically added.
- 8. Save your entries.

Schedule for OAF-STA-JPTYO to OF-CFS-JPYOK

- 1. On the SAP NetWeaver Business Client, choose ► Master Data ➤ Transportation Network ➤ Schedule ➤ Create Schedule ■.
- 2. Choose the standard schedule type ${\tt OF11}$ and then choose ${\it Continue}$.
- 3. Create schedule OAF-TRUCKSCHED-02:

Table 173

Table 173	
Field	Value
Schedule	OAF-TRUCKSCHED-02
Description	Schedule Trucking STA-JPTYO to CFS-JPYOK
Valid From	<today></today>
Valid To	<one future="" in="" the="" year=""></one>
Carrier	OAF-CR-03
Carrier Schedule	Blank

4. Create a standard CFS by adding the following locations

Field	Value	Value
Source CFS	OAF-STA-JPTYO	
Destination CFS		OF-CFS-JPYOK
Transit Duration (Hours)	2	
Cargo Cut-Off Time	07:00:00	
Document Cut-Off Time	08:00:00	
Availability time		11:00:00

Field	Value	Value
Time Zone	Japan	Japan

- 5. Create voyages by adding the following departure rule in the *Departures* area. On the *Departure Rules* tab page, choose *Create*.
- 6. Add the following entry:

Field	Value
First Day of Validity	<first actual="" day="" month="" of="" the=""></first>
Last Day of Validity	<pre><last day="" of="" this="" year=""></last></pre>
Departure Frequency	Daily (select the checkboxes for each weekday)
Departure Time	09:00:00
Time Zone	JAPAN

- 7. Select the new line and choose *Generate Departures* . On the *Departures* tab page, check that the departures have been automatically added.
- 8. Save your entries.

Schedule for OF-CFS-USLAX to OAF-STA-USSAN

- 1. On the SAP Easy Access screen for SAP TM, choose ▶ Master Data ▶ Transportation Network ▶ Schedule ▶ Create Schedule ▶.
- 2. Choose the standard schedule type OF11 and then choose Continue.
- 3. Create schedule OAF-TRUCKSCHED-03:

Table 176

Field	Value
Schedule	OAF-TRUCKSCHED-03
Description	Schedule Trucking CFS-USLAX to STA-USSAN
Valid From	<today></today>
Valid To	<pre><one future="" in="" the="" year=""></one></pre>
Carrier	OAF-CR-05
Carrier Schedule	Blank

4. Create a standard CFS by adding the following locations

1 4 5 1 5 2 7 7		
Field	Value	Value
Source CFS	OF-CFS-USLAX	
Destination CFS		OAF-STA-USSAN
Transit Duration (Hours)	4	
Cargo Cut-Off Time	08:00:00	

Field	Value	Value
Document Cut-Off Time	08:00:00	
Availability time		14:00:00
Time Zone	PST	PST

- 5. Create voyages by adding the following departure rule in the *Departures* area. On the *Departure Rules* tab page, choose *Create*.
- 6. Add the following entry:

Table 170	
Field	Value
First Day of Validity	<first actual="" day="" month="" of="" the=""></first>
Last Day of Validity	<pre><last day="" of="" this="" year=""></last></pre>
Departure Frequency	Daily (select the checkboxes for each weekday)
Departure Time	10:00:00
Time Zone	PST

- 7. Select the new line and choose *Generate Departures* . On the *Departures* tab page, check that the departures have been automatically added.
- 8. Save your entries.

Schedule for OF-CFS-USLAX to OAF-STA-USPHX

- 1. On the SAP NetWeaver Business Client, choose ► Master Data ➤ Transportation Network ➤ Schedule ➤ Create Schedule ▼.
- 2. Choose the standard schedule type ${\tt OF11}$ and then choose ${\it Continue}$.
- 3. Create new schedule OF-TRUCKSCHED-04:

Table 179

Field	Value
Schedule	OF-TRUCKSCHED-04
Description	Schedule Trucking CFS-USLAX to STA-USPHX
Valid From	<today></today>
Valid To	<one future="" in="" the="" year=""></one>
Schedule Type	OF11
Transportation mode	01 - Road
Carrier	OAF-CR-06
Carrier Schedule	Blank

4. Create a standard CFS by adding the following locations

Field	Value	Value
Source CFS	OF-CFS-USLAX	
Destination CFS		OAF-STA-USPHX
Transit Duration (Hours)	6	
Cargo Cut-Off Time	06:00:00	
Document Cut-Off Time	06:00:00	
Availability time		15:00:00
Time Zone	PST	PST

- 5. Create voyages by adding the following departure rule in the Departures area. On the Departure Rules tab page, choose Create.
- 6. Add the following entry:

Table 181

Field	Value
First Day of Validity	<first actual="" day="" month="" of="" the=""></first>
Last Day of Validity	<pre><last day="" of="" this="" year=""></last></pre>
Departure Frequency	Daily (select the checkboxes for each weekday)
Departure Time	08:00:00
Time Zone	PST

- 7. Select the new line and choose Generate Departures . On the Departures tab page, check that the voyages are automatically added.
- 8. Save your entries.

Defining Default Routes 9.8

Note

If you are not able to enter the route name specified below, change the default route type in Customizing. In Customizing for SAP TM, choose SAP Transportation Management Master Data Transportation Network ➤ Define Default Route Types 】.

- Change the number range used for type 3000 to 07.
- Enter transportation mode 03.

Procedure

Route 1 - Nagoya to Phoenix (OAF-JP-SHPNGO to OAF-US-SHPPHX)

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Transportation Network ➤ Default Route ➤ Create Default Route ■.
- 2. Select default route type 3000 and choose Continue.
- 3. On the General Data tab page, create an entry with the following data:

Table 182

Table 102	
Field	Value
Default Route	OF-ROUTE-01
Description	OF ROUTE JPNGO-USPHX
Valid From	2011-01-01
Valid To	2099-12-31
Transportation Mode	03
Dangerous Goods	Deselect
Shipping Type	2

4. In the *Transportation Stop* area, enter the following stages:

Table 183

Sequence	10	20	30	40	50	60
Location	OAF-JP- SHPNGO	OAF-STA- JPNGO	OF-CFS- JPYOK	OF-CFS- USLAX	OAF-STA- USPHX	OAF-US- SHPPHX
Transportation Mode	01 Road	01 Road	03 Sea	01 Road	01 Road	Not relevant
Stage Type	01 - Pick- Up	02 - Pre- Carriage	03 - Main Carriage	4 - On- Carriage	05 - Delivery	Not relevant
Schedule	Not relevant	OAF- TRUCKSCHED -01	OF- SAILSCHED- CR-02	OF- TRUCKSCHED -04	Not relevant	Not relevant
Carrier	OAF-CR-04	OAF-CR-04	OAF-CR-02	OAF-CR-06	OAF-CR-06	Not relevant
Planning and Execution Org.	OAF-FWH-01	OF-FWH-03	OF-FWH-03	OF-FWH-20	OAF-FWH-21	Not relevant
To Be Checked	Deselect	Deselect	Deselect	Deselect	Deselect	Not relevant

5. Save your entries.

Route 2 - Nagoya to San Diego (OAF-JP-SHPNGO to OAF-US-SHPSAN)

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Transportation Network ➤ Default Route ➤ Create Default Route ■.
- 2. Select default route type 3000 and choose Continue.

3. On the General Data tab page, create an entry with the following data:

Table 184

Tuble 104	
Field	Value
Default Route	OF-ROUTE-02
Description	OF ROUTE JPNGO-USSAN
Valid From	2011-01-01
Valid To	2099-12-31
Transportation Mode	03
Dangerous Goods	Deselect
Shipping Type	02

4. In the *Transportation Stop* area, enter the following stages:

Table 185

Sequence	10	20	30	40	50	60
Location	OAF-JP- SHPNGO	OAF-STA- JPNGO	OF-CFS- JPYOK	OF-CFS- USLAX	OAF-STA- USSAN	OAF-US- SHPSAN
Transportation Mode	01 Road	01 Road	03 Sea	01 Road	01 Road	Not relevant
Stage Type	01 - Pick- Up	02 - Pre- Carriage	03 - Main Carriage	4 - On- Carriage	05 - Delivery	Not relevant
Schedule	Not relevant	OAF- TRUCKSCHED -01	OF- SAILSCHED- CR-02	OAF- TRUCKSCHED -03	Not relevant	Not relevant
Carrier	OAF-CR-04	OAF-CR-03	OAF-CR-02	OAF-CR-05	OAF-CR-05	Not relevant
Planning and Execution Org.	OAF-FWH-01	OF-FWH-03	OF-FWH-03	OF-FWH-20	OAF-FWH-22	Not relevant
To Be Checked	Deselect	Deselect	Deselect	Deselect	Deselect	Deselect

5. Save your entries.

Route 3 - Tokyo to Phoenix (OAF-JP-SHPTYO to OAF-US-SHPPHX)

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Transportation Network ➤ Default Route ➤ Create Default Route ■.
- 2. Select default route type 3000 and choose Continue.
- 3. On the General Data tab page, create an entry with the following data:

Field	Value
Default Route	OF-ROUTE-03
Description	OF ROUTE JPTYO-USPHX

Field	Value
Valid From	2011-01-01
Valid To	2099-12-31
Transportation Mode	03
Dangerous Goods	Deselect
Shipping Type	2

4. In the *Transportation Stop* area, enter the following stages:

Table 187

Table 107						
Sequence	10	20	30	40	50	60
Location	OAF-JP- SHPTYO	OAF-STA- JPTYO	OF-CFS- JPYOK	OF-CFS- USLAX	OAF-STA- USPHX	OAF-US- SHPPHX
Transportation Mode	01 Road	01 Road	03 Sea	01 Road	01 Road	Not relevant
Stage Type	01 - Pick- Up	02 - Pre- Carriage	03 - Main Carriage	4 - On- Carriage	05 - Delivery	Not relevant
Schedule	Not relevant	OF- TRUCKSCHED -02	OF- SAILSCHED- CR-02	OF- TRUCKSCHED -04	Not relevant	Not relevant
Carrier	OAF-CR-03	OAF-CR-03	OAF-CR-02	OAF-CR-06	OAF-CR-06	Not relevant
Planning and Execution Org.	OAF-FWH-05	OF-FWH-03	OF-FWH-03	OF-FWH-20	OAF-FWH-21	Not relevant
To Be Checked	Deselect	Deselect	Deselect	Deselect	Deselect	Deselect

5. Save your entries.

Route 4 - Tokyo to San Diego (OAF-JP-SHPTYO to OAF-US-SHPSAN)

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Transportation Network ➤ Default Route ➤ Create Default Route ■.
- 2. Select default route type 3000 and choose Continue.

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3. On the General Data tab page, create an entry with the following data:

Table 188

Field	Value
Default Route	OF-ROUTE-04
Description	OF ROUTE JPTYO-USSAN
Valid From	2011-01-01
Valid To	2099-12-31
Transportation Mode	03

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Field	Value
Dangerous Goods	Deselect
Shipping Type	2

4. In the *Transportation Stop* area, enter the following stages:

Table 189

14010 100						
Sequence	10	20	30	40	50	60
Location	OAF-JP- SHPTYO	OAF-STA- JPTYO	OF-CFS- JPYOK	OF-CFS- USLAX	OAF-FWH-22	OAF-US- SHPSAN
Transportation Mode	01 Road	01 Road	03 Sea	01 Road	01 Road	Not relevant
Stage Type	01 - Pick- Up	02 - Pre- Carriage	03 - Main Carriage	4 - On- Carriage	05 - Delivery	Not relevant
Schedule	Not relevant	OF- TRUCKSCHED -02	OF- SAILSCHED- CR-02	OAF- TRUCKSCHED -03	Not relevant	Not relevant
Carrier	OAF-CR-03	OAF-CR-04	OAF-CR-02	OAF-CR-05	OAF-CR-05	Not relevant
Planning and Execution Org.	OAF-FWH-05	OF-FWH-03	OF-FWH-03	OF-FWH-20	OAF-FWH-22	Not relevant
To Be Checked	Deselect	Deselect	Deselect	Deselect	Deselect	Deselect

5. Save your entries.

Route 5 - Zone Japan All to USA ALL (OF-JP-SHPALL to OF-US-SHPALL)

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ▶ Transportation Network ▶ Default Route ▶ Create Default Route ▶.
- 2. Select default route type 3000 and choose Continue.
- 3. On the General Data tab page, create an entry with the following data:

Table 190

Field	Value
Default Route	OF-ROUTE-05
Description	OF ROUTE JP-US
Valid From	2011-01-01
Valid To	2099-12-31
Transportation Mode	03
Dangerous Goods	Deselect
Shipping Type	3

4. In the *Transportation Stop* area, enter the following stages:

Sequence	10	20	30	40
Location	OF-JP-SHPALL	OF-JPYOK	OF-USLGB	OF-US-SHPALL
Transportation Mode	01 Road	03 Sea	01 Road	Not relevant
Stage Type	01 - Pick-Up	03 - Main Carriage	05 - Delivery	Not relevant
Schedule	Not relevant	OF-SCHED-CR-02	Not relevant	Not relevant
Carrier	OAF-CR-03	OAF-CR-02	OAF-CR-06	Not relevant
Planning and Execution Org.	OAF-FWH-05	OF-FWH-03	OAF-FWH-21	Not relevant
To Be Checked	Deselect	Deselect	Deselect	Deselect

5. Save your entries.

9.9 Defining House Bill of Lading Stock

House bill of lading stocks are used to control the capacities ordered from a customer for a certain sales organization.

Procedure

- 1. In SAP NetWeaver Business Client, choose ▶ Master Data ➤ General ➤ Overview ➤ Waybill Stock ➤
- 2. Select All House Waybill Stocks and choose New in the table below.
- 3. Enter number stock type **HBL** and choose *Continue*.
- 4. On the *General Data* tab page enter the following data:

Field	Value
Stock ID Number	OF
Stock Type	HBL
Number Range From	600000000
Number Range To	699999999
Description	HBL Stock for Ocean Freight
Valid From	<yesterday></yesterday>
Valid To	<next year=""> -12-31</next>

- 5. Add the following organizations:
 - OAF-FWH-01

- OAF-FWH-05
- **OF-FWH-03**
- 6. Save your entries.

Resources

10 Charge Management: Basic Settings

To configure charge management, you need to define basic setting parameters. The settings are described in the Basic Settings for SAP TM document:

- Define category codes
- Define subcategory codes
- Define charge type codes

10.1 Charge Management: Forwarding Order

To configure charge management, you need to complete the following steps:

- Defining scales [page 104]
- Defining rate tables [page 108]
- Defining calculation sheets [page 128]
- Freight order charge management [page 152]
- Defining freight agreement types [page 201]
- Defining forwarding agreement types [page 142]
- Defining settlement profiles [page 148]
- Configuring organizational settings for charge elements [page 149]

Prerequisites

Complete the settings described in the document *Basic Settings for SAP TM*. Charge type codes and subcategory codes for Transportation Charge Management (TCM) have to be maintained before TCM can be set up.

Features

The charge elements used in this scenario are:

- Through rate for pickup and pre-carriage stages:
 - Land pre-carriage
 - Fuel surcharge
 - Toll fee fixed
- Main carriage stage
 - Ocean freight
 - o B/L fix fee (Bill of Lading Fix Fee)
 - CAF (Currency Adjustment Factor)

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- BAF (Bunker Adjustment Factor)
- Piracy Risk Surcharge
- EBAF (Emergency Bunker Adjustment Factor)
- IPSD (International Port Security)
- THCD (Terminal Handling Charge Destination)
- AMS fee (Automated Manifest Submission)
- Through rate for on-carriage and delivery stages
 - Land on-carriage
 - Fuel surcharge

10.1.1 Defining Dimensional Weight Profiles

Depending upon factors, such as mode of transport, different chargeable weight calculations are implemented. Land transport uses a factor of 1:3, and ocean transport uses a factor of 1:1.

Procedure

- 1. In Customizing for Transportation Management , choose ▶ Basic Functions ➤ Charge Calculation ➤ Data Source Binding for Charge Calculation ➤ Define Dimensional Weight Profile ▶.
- 2. Choose New Entries.
- 3. Enter the following data for land transport:

Field	Value
Dimensional Weight Profile	ZOAF_LAND3
Profile Description	Chargeable Weight Land Freight 333 kg = 1 cbm
Dimal Weight Factor	3
Volume UoM	ССМ
Weight UoM	KG
Calc. Base	GROSS_VOLUME
Rounding Profile	0000

- 4. Save your entries.
- 5. Choose New Entries.
- 6. Enter the following data for ocean transport:

Field	Value
Dimensional Weight Profile	ZOF_SEA
Profile Description	Chargeable Weight Sea Freight 1000 kg = 1 cbm
Dimal Weight Factor	1
Volume UoM	ССМ
Weight UoM	KG
Calc. Base	GROSS_VOLUME
Rounding Profile	0000

7. Save your entries.

10.1.2 Defining Scales

Scales are parameters that you can use to specify freight rates when they are assigned to freight conditions.

Procedure

- 1. In SAP NetWeaver Business Client, choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Scales ➤ Create Scale ■.
- 2. Choose *Continue* without selecting a template.
- 3. Create a scale for the destination location. Enter the following data:

Table 195

Table 133		
Field	Description	Value
Scale	Scale ID	OAF-SCALE-DEST-LOC
Description	Description of the scale	OAF Destination Location
Scale Base	Defines the basis of scale, for example, location, distance, duration, and so on.	LOC - Location

4. In line one of the *Item* tab page, enter the following information:

Field	Description	Value
Location	Specifies the locations for which the	Line 1: OF-JPYOK
	rates are determined	Line 2: OF-USLGB
		Line 3: OF-CFS-JPYOK
		Line 4: OF-CFS-USLAX

Field	Description	Value
		Line 5: OAF-STA-JPTYO
		Line 6: OAF-STA-JPNGO
		Line 7: OAF-STA-USSAN
		Line 8: OAF-STA-USPHX
		Line 9: OAF-STA-JPHIJ
		Line 10: CUOAF-CO-01@ERP001
		Line 11: CUOAF-CO-02@ERP001
		Line 12: CUOAF-CO-03@ERP001
		Line 13: CUOAF-CO-04@ERP001
		Line 14: CUOAF-CU-01@ERP001
		Line 15: CUOAF-CU-02@ERP001
		Line 16: CUOAF-CU-03@ERP001
		Line 17: CUOAF-CU-04@ERP001
		Line 18: OAF-STA-USSFO
Calculation Type	Defines how the scale values are read	For all lines: Absolute (values are read directly)

- 5. Save your entries.
- 6. Create a scale for the source location. Enter the following data:

Field	Description	Value
Scale	Scale ID	OAF-SCALE-SOURCE-LOC
Description	Description of the scale	OAF - Source Truck Locations
Scale Base	Defines the basis of scale, for example, location, distance, duration, and so on.	LOC - Location

7. In line one of the *Item* tab page, enter the following information:

Field	Description	Value
Location	Specifies the locations for which the	Line 1: OF-JPYOK
	rates are determined	Line 2: OF-USLGB
		Line 3: OF-CFS-JPYOK
		Line 4: OF-CFS-USLAX
		Line 5: OAF-STA-JPTYO
		Line 6: OAF-STA-JPNGO
		Line 7: OAF-STA-USSAN
		Line 8: OAF-STA-USPHX

Field	Description	Value
		Line 9: OAF-STA-JPHIJ
		Line 10: CUOAF-CO-01@ERP001
		Line 11: CUOAF-CO-02@ERP001
		Line 12: CUOAF-CO-03@ERP001
		Line 13: CUOAF-CO-04@ERP001
		Line 14: CUOAF-CU-01@ERP001
		Line 15: CUOAF-CU-02@ERP001
		Line 16: CUOAF-CU-03@ERP001
		Line 17: CUOAF-CU-04@ERP001
		Line 18: OAF-STA-USSFO
Calculation Type	Defines how the scale values are read	For all lines: Absolute (values are read directly)

- 8. Save your entries.
- 9. Create a weight scale for the chargeable weights. Enter the following data:

Table 199		
Field	Description	Value
Scale	Scale ID	OAF-WEIGHT
Description	Description of the scale	Chargeable Weight
Scale Base	Defines the basis of scale, for	WEIGHT
Scale Type	example, location, distance, duration, and so on.	Base Scale (>=)
Scale Unit of Measure		TO

10. In line one of the *Item* tab page, enter the following information:

Table 200

Field	Description	Value
Weight	Specifies the weight values for which the rates are determined	Line 1: 0.1 Line 2: 0.2
		Line 3: 0.3
		Line 4: 0.4
Calculation Type	Defines how the scale values are read	For all lines: Relative

- 11. Save your entries.
- 12. Create an equipment scale for equipment types. Enter the following data:

Table 201

Field	Description	Value
Scale	Scale ID	OF-SCALE-EQU
Description	Description of the scale	Equipment Scale

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Field	Description	Value
Scale Base	Defines the basis of scale, for example, location, distance, duration, and so on.	EQPTYP

13. In line one of the *Item* tab page, enter the following information:

Table 202

Field	Description	Value
Equipment Type	Specifies the equipment types for which the rates are determined	Line 1: 20G0 Line 2: 22G0 Line 3: 22R1 Line 4: 42G0
Calculation Type	Defines how the scale values are read	For all lines: Absolute

- 14. Save your entries.
- 15. Create a distance scale for the distances using the following data:

Table 203

Field	Description	Value	
Scale	Scale ID	OAF-SCALE-ACT-DIST	
Description	Description of the scale	Scale for Actual Distance	
Scale Base	Defines the basis of scale, for	DIST	
Scale Type	example, location, distance, duration, and so on.	To Scale (<=)	
Scale Unit of Measure		км	
Rounding Profile	Rounding profile number	0005	

16. In line one of the *Item* tab page, enter the following information:

Table 204

Field	Description	Value
Distance	Specifies the distance values for which the rates are determined	Line 1: 50 Line 2: 100
		Line 3: 250
		Line 4: 500
		Line 5: 1000
Calculation Type	Defines how the scale values are read	Relative for all lines

17. Save your entries.

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10.1.3 Rate Tables

Rates are maintained in rate tables, which use the scales specified in Defining Scales [page 104].

In this scenario, the following scales are assigned to the rate tables:

Table 205

Rate Table	Used Scales	Charge Type Assigned	Procedure
OAF-RATE-569	OAF-SCALE- SOURCE-LOC OAF-SCALE-DEST- LOC OAF-WEIGHT	PRE – Land Pre-Carriage	Defining Rate Table: Pre Carriage [page 109]
OF-RATE-574	OAF-SCALE- SOURCE-LOC OAF-SCALE-DEST- LOC OAF-WEIGHT	BSF – Base Sea Freight	Defining Rate Table: Main Carriage [page 112]
OAF-RATE-574-1	OAF-SCALE-DEST-LOC OAF-WEIGHT	THCD – Terminal Handling Charge – Destination	Defining Rates for Terminal Handling Charge for Destination [page 115]
OF-RATE-575	OAF-SCALE- SOURCE-LOC OAF-SCALE-DEST- LOC OAF-WEIGHT	BAF – Bunker Adjustment Factor	Defining Rates for Bunker Adjustment Factor [page 117]
OF-RATE-576	OAF-SCALE- SOURCE-LOC OAF-SCALE-DEST- LOC OAF-WEIGHT	PRS – Piracy Risk Surcharge	Defining Rates for Piracy Risk Surcharge [page 120]
OF-RATE-577	OAF-SCALE- SOURCE-LOC OAF-SCALE-DEST- LOC OAF-WEIGHT	EBAF – Emergency Bunker Adj. Factor	Defining Rates for Emergency Bunker Adjustment Factor [page 122]
OAF-RATE-584	OAF-SCALE- SOURCE-LOC OAF-SCALE-DEST- LOC OAF-WEIGHT	ON – On-Carriage	Defining Rate Table: On Carriage [page 125]

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Defining Rate Table: Pre-Carriage 10.1.3.1

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Charge Management and Service Product Catalogs > Rate Tables > Create Rate Table Definition \(\) .
- 2. On the *Create Rate Table* screen, create the following entry:

Field	Description	Value	
General Data			
Rate Table	Unique identifier for the rate table	OAF-RATE-569	
Description	Description of the table	Rate Table for OAF 569	
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.	PRE	
Charge Category	This defaults from the charge type definition above.	014	
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	
Scales			
Note that you add a line for an additional	al dimension by choosing <i>Insert</i> .		
Dimension	On 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 here for all carriers, which were defined above. This enables the entries in the rate table as in the sequence.	1. OAF-SCALE-SOURCE-LOC 2. OAF-SCALE-DEST-LOC 3. OAF-WEIGHT	
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined	1. SOURCELOC 2. DESTLOC 3. CHRG_WEIGHT	

Field	Description	Value
	sources of information based on the object.	
Scale Type	Manually defined or defaults from the	1. Same Scale (=)
	reference scale definition above.	2. Same Scale (=)
		3.Base Scale (>=)
Scale Unit of Measure	Manually defined or defaults from the	1. Blank
	reference scale definition above.	2. Blank
		3. TO
Minimum Value	Minimum value	Deselect
Maximum Value	Maximum value	Deselect
Rel. Calc. Method	Relative Calculation method	Deselect
Rounding Profile	Rounding profile	Blank

1 Note

After maintaining the lines in the $\it Create Rate Table$, highlight each line and choose $\it Add Scale$. Save your entries.

Dates and Values

Note that you can add a line for each new entry by choosing ${\it Insert}$.

Valid From	The valid-from date for the rate table	2011-01-01
Valid To	The valid-to date for the rate table	2099-12-31
Aggreg. Rate Description	Aggregated rate description	Pre-Carriage
Currency	A currency that is applicable for this rate table	JPY

- 3. On the *Dates and Values* tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 4. On the *Rates* tab page, choose *Insert* and enter the following rates:

Table 207

Source Location	Destination Location	Value
CUOAF-CU-01@ERP001	OF-CFS-JPYOK	Depending on the relative interval, enter different values.
		>= 0.1: 3237.00
		>= 0.2: 3400.00
		>= 0.3: 3677.00
		>= 0.4: 4451.00
CUOAF-CU-02@ERP001	OF-CFS-JPYOK	Depending on the relative interval, enter different values.

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See 0.1: 3237.00	Source Location	Destination Location	Value
Depending on the relative interval.			>= 0.1: 3237.00
Depending on the relative interval, enter different values.			>= 0.2: 3400.00
CUOAF-CU-03@ERP001			>= 0.3: 3677.00
enter different values.			>= 0.4: 4451.00
Depending on the relative interval, enter different values. Depending on the relative interval, enter different values.	CUOAF-CU-03@ERP001	OF-CFS-JPYOK	
Depending on the relative interval, enter different values. Depending on the relative interval, enter different values.			>= 0.1: 3237.00
Depending on the relative interval, enter different values.			>= 0.2: 3400.00
CUOAF-CU-04@ERP001 OF-CFS-JPYOR Depending on the relative interval, enter different values. >= 0.1: 3237.00 >= 0.2: 3400.00 >= 0.3: 3677.00 >= 0.4: 4451.00 CUOAF-CU-01@ERP001 OF-JPYOK Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00 >= 0.3: 3800.00 >= 0.4: 4700.00 CUOAF-CU-02@ERP001 OF-JPYOK Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00 >= 0.3: 3800.00 >= 0.3: 3800.00 >= 0.3: 3800.00 >= 0.4: 4700.00 CUOAF-CU-03@ERP001 OF-JPYOK Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00 >= 0.4: 4700.00 Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00 >= 0.2: 3700.00			>= 0.3: 3677.00
enter different values.			>= 0.4: 4451.00
Depending on the relative interval, enter different values. Depending on the relative interval, enter different values.	CUOAF-CU-04@ERP001	OF-CFS-JPYOK	
>= 0.3: 3677.00			>= 0.1: 3237.00
Depending on the relative interval, enter different values. Policy			>= 0.2: 3400.00
CUOAF-CU-01@ERP001 OF-JPYOK Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00 >= 0.4: 4700.00 CUOAF-CU-02@ERP001 OF-JPYOK Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00 >= 0.2: 3700.00 >= 0.3: 3800.00 >= 0.4: 4700.00 CUOAF-CU-03@ERP001 OF-JPYOK Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.4: 4700.00 Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00			>= 0.3: 3677.00
enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00 >= 0.3: 3800.00 >= 0.4: 4700.00 CUOAF-CU-02@ERP001 OF-JPYOK Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00 >= 0.3: 3800.00 >= 0.4: 4700.00 CUOAF-CU-03@ERP001 OF-JPYOK Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00 >= 0.2: 3700.00			>= 0.4: 4451.00
>= 0.2: 3700.00 >= 0.3: 3800.00 >= 0.4: 4700.00 Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00 >= 0.3: 3800.00 >= 0.4: 4700.00 Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00 >= 0.2: 3700.00	CUOAF-CU-01@ERP001	OF-JPYOK	
>= 0.3: 3800.00 >= 0.4: 4700.00 Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00 >= 0.3: 3800.00 >= 0.4: 4700.00 Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00			>= 0.1: 3500.00
>= 0.4: 4700.00			>= 0.2: 3700.00
CUOAF-CU-02@ERP001 OF-JPYOK Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00 >= 0.3: 3800.00 >= 0.4: 4700.00 CUOAF-CU-03@ERP001 OF-JPYOK Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00			>= 0.3: 3800.00
enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00 >= 0.3: 3800.00 >= 0.4: 4700.00 CUOAF-CU-03@ERP001 OF-JPYOK Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00			>= 0.4: 4700.00
>= 0.2: 3700.00 >= 0.3: 3800.00 >= 0.4: 4700.00 CUOAF-CU-03@ERP001 OF-JPYOK Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00	CUOAF-CU-02@ERP001	OF-JPYOK	
>= 0.3: 3800.00 >= 0.4: 4700.00 CUOAF-CU-03@ERP001 OF-JPYOK Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00			>= 0.1: 3500.00
>= 0.4: 4700.00 CUOAF-CU-03@ERP001 OF-JPYOK Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00			>= 0.2: 3700.00
CUOAF-CU-03@ERP001 OF-JPYOK Depending on the relative interval, enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00			>= 0.3: 3800.00
enter different values. >= 0.1: 3500.00 >= 0.2: 3700.00			>= 0.4: 4700.00
>= 0.2: 3700.00	CUOAF-CU-03@ERP001	OF-JPYOK	
			>= 0.1: 3500.00
			>= 0.2: 3700.00
>= 0.3: 3800.00			>= 0.3: 3800.00
>= 0.4: 4700.00			>= 0.4: 4700.00
CUOAF-CU-04@ERP001 OF-JPYOK Depending on the relative interval, enter different values.	CUOAF-CU-04@ERP001	OF-JPYOK	
>= 0.1: 3500.00			>= 0.1: 3500.00
>= 0.2: 3700.00			>= 0.2: 3700.00

Source Location	Destination Location	Value
		>= 0.3: 3800.00
		>= 0.4: 4700.00

5. On the Calculation Rules tab page, enter the following data:

Table 208

Field	Description	Value
Calculation Base	Provides the calculation base for this rate. In our rate table, the rates are specified as per/mile from source to destination locations. However, the calculation base must be determined to apply these rates. In this case, the calculation base is distance. There are various bases such as business partner role, weight, destination location, and so on.	CHRG_WEIGHT
Application Level of Calc. Rule	Defines on which level the rates are calculated	Rate table
Price Unit	Defines the multiplier for the calculation base. For example, the applicable rate could be <i>per mile</i> or <i>per 100 miles</i> .	1000
Unit of Measure	The unit of measure specifies the unit to which the multiplier is applied.	KG

- 6. Once you have entered your data, release the rate table by choosing ▶ Set Status ➤ Released ▶.
- 7. Save your entries.

10.1.3.2 Defining Rate Table: Main Carriage

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Rate Tables ➤ Create Rate Table Definition ■.
- 2. On the Create Rate Table screen, create a new entry. Enter the following data:

Table 209		
Field	Description	Value
General Data		
Rate Table	Unique identifier for the rate table	OF-RATE-574
Description	Description of the table	Rate Table for OF 574

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
Charge Type	This is where the charge type is linked for integration with SAP ERP.	BSF
Charge Category	This defaults from the charge type definition above.	003
Charge Subcategory	This defaults from the charge type definition above.	101021
Positive/Negative	This defaults from the charge type definition above.	Positive Value
Value	This defaults from the charge type definition above.	Absolute value
Scales		
Dimension	On 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 here for all carriers, which were defined above. This enables the entries in the rate table according to the sequence.	1. OAF-SCALE-SOURCE-LOC 2. OAF-SCALE-DEST-LOC 3. OAF-WEIGHT
Scale Type	Manually defined or defaults from the reference scale definition above.	1. Same Scale (=) 2. Same Scale (=) 3. Base Scale (>=)
Scale Unit of Measure	Manually defined or defaults from the reference scale definition above.	1. Blank 2. Blank 3. TO
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	1. SOURCELOC 2. DESTLOC 3. CHRG_WEIGHT
Minimum Value	Minimum value	Deselect
Maximum Value	Maximum value	Deselect
Rel. Calc. Method	Relative Calculation method	Deselect
Rounding Profile	Rounding profile	Blank

Field	Description	Value
Note After maintaining the lines in the <i>Crea</i> Save your entries.	te Rate Table , highlight each line and cho	pose Add Scale .
Dates and Values		
Valid From	The valid-from date for the rate table	2011-01-01
Valid To	The valid-to date for the rate table	2099-12-31
Aggreg. Rate Description	Aggregated rate description	Main Carriage
Currency	A currency that is applicable for this rate table	USD

- 3. On the *Dates and Values* tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 4. Choose *Insert*, and maintain the following rates:

Source Location (=)	Destination Location (=)	Value
OF-CFS-JPYOK	OF-CFS-USLAX	>= 0.1: 90.00
		>= 0.2: 110.00
		>= 0.3: 130.00
		>= 0.4: 150.00
OF-JPYOK	OF-USLGB	>= 0.1: 90.00
		>= 0.2: 110.00
		>= 0.3: 130.00
		>= 0.4: 150.00

5. On the *Calculation Rules* tab page, enter the following data:

Field	Description	Value
Calculation Base	Provides the calculation base for this rate. In our rate table, the rates are specified as per mile from source to destination locations. However, the calculation base must be determined to apply these rates. In this case, the calculation base is distance. There are various bases such as business partner role, weight, destination location, and so on.	CHRG_WEIGHT
Application Level of Calc. Rule	Defines on which level the rates are calculated	Rate table

Field	Description	Value
Price Unit	Defines the multiplier for the calculation base. For example, the applicable rate could be <i>per mile</i> or <i>per 100 miles</i> .	1
Unit of Measure	The unit of measure specifies the unit to which the multiplier is applied.	TO

- 6. Once you have entered your data, release the rate table by choosing ▶ Set Status ▶ Released ▶.
- 7. Save your entries.

10.1.3.2.1 Defining Rates for Terminal Handling Charge for Destination

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Rate Tables ➤ Create Rate Table Definition ▶.
- 2. On the *Create Rate Table* screen, create a new entry. Enter the following data:

Table 212

Field	Description	Value
General Data		
Rate Table	Unique identifier for the rate table	OAF-RATE-574-1
Description	Description of the table	Rate Table for OAF 574-1
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.	THCD
Charge Category	This defaults from the charge type definition above.	007
Charge Subcategory	This defaults from the charge type definition above.	104007
Positive/Negative	This defaults from the charge type definition above.	Positive Value
Value	This defaults from the charge type definition above.	Absolute value

Field	Description	Value
Scales		
Dimension	On 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 here for all carriers, which were defined above. This enables the entries in the rate table as in the sequence.	1. OAF-SCALE-DEST-LOC 2. OAF-WEIGHT
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	1. DESTLOC 2. CHRG_WEIGHT
Scale Type	Manually defined or defaults from the reference scale definition above.	1. Same Scale (=) 2. Base Scale (>=)
Scale Unit of Measure	Manually defined or defaults from the reference scale definition above.	1. Blank 2. TO
Minimum Value	Minimum value	Deselect
Maximum Value	Maximum value	Deselect
Rel. Calc. Method	Relative Calculation method	Deselect
Rounding Profile	Rounding profile	Blank

1 Note

After maintaining the lines in the $\it Create Rate Table$, highlight each line and choose $\it Create Scale$. Save your entries.

Dates and Values

Valid From	The valid-from date for the rate table	2011-01-01
Valid To	The valid-to date for the rate table	2099-12-31
Aggreg. Rate Description	Aggregated rate description	THCD Main Carriage
Currency	A currency that is applicable for this rate table	USD

- 3. On the *Dates and Values* tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 4. Choose *Insert*, and maintain the following rates:

Source Loc. Transp. Zone	Destination Loc.	Value
Not applicable	OF-CFS-USLAX	> 0.1: 17.00
		> 0.2: 22.00
		> 0.3: 25.00
		> 0.4: 27.00

5. On the Calculation Rules tab page, enter the following data:

Table 214

Field	Description	Value
Calculation Base	Provides the calculation base for this rate. In our rate table, the rates are specified as per/mile from source to destination locations. However, the calculation base must be determined to apply these rates. In this case, the calculation base is distance. There are various bases such as business partner role, weight, destination location, and so on.	CHRG_WEIGHT
Application Level of Calc. Rule	Defines on which level the rates are calculated	Rate table
Price Unit	Defines the multiplier for the calculation base. For example, the applicable rate could be <i>per mile</i> or <i>per 100 miles</i> .	1000
Unit of Measure	The unit of measure specifies the unit to which the multiplier is applied.	KG

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

10.1.3.2.2 Defining Rates for Bunker Adjustment Factor

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Charge Management and Service Product Catalogs ➤ Rate Tables ➤ Create Rate Table Definition **3**.
- 2. On the Create Rate Table screen, create the following entry:

Field	Description	Value
General Data		

Field	Description	Value
Rate Table	Unique identifier for the rate table	OF-RATE-575
Description	Description of the table	Rate Table for OF 575
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.	BAF
Charge Category	This defaults from the charge type definition above.	012
Charge Subcategory	This defaults from the charge type definition above.	103001
Positive/Negative	This defaults from the charge type definition above.	Positive Value
Value	This defaults from the charge type definition above.	Absolute value
Scales		
Dimension	On 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 here for all carriers, which were defined above. This enables the entries in the rate table according to the sequence.	1. OAF-SCALE-SOURCE-LOC 2. OAF-SCALE-DEST-LOC 3. OAF-WEIGHT
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	1. SOURCELOC 2. DESTLOC 3. CHRG_WEIGHT
Scale Type	Manually defined or defaults from the reference scale definition above.	1. Same Scale (=) 2. Same Scale (=) 3. Base Scale (>=)
Scale Unit of Measure	Manually defined or defaults from the reference scale definition above.	1. Blank 2. Blank 3. TO
Minimum Value	Minimum value	Deselect
Maximum Value	Maximum value	Deselect

Field	Description	Value
Rel. Calc. Method	Relative Calculation method	Deselect
Rounding Profile	Rounding profile	Blank

Note

After maintaining the lines in the Create Rate Table , highlight each line and choose Add Scale . Save your entries.

Datas	and	Values	

Dates and Values		
Valid From	The valid-from date for the rate table	2011-01-01
Valid To	The valid-to date for the rate table	2099-12-31
Aggreg. Rate Description	Aggregated rate description	BAF
Currency	A currency that is applicable for this rate table	USD

- 3. On the Dates and Values tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 4. Choose *Insert*, and maintain the following rates:

Table 216

Source Loc.	Destination Loc.	Value
OF-CFS-JPYOK	OF-CFS-USLAX	> 0.1: 30
		> 0.2: 60
		> 0.3: 90
		> 0.4: 120

5. On the Calculation Rules tab page, enter the following data:

Field	Description	Value
Calculation Base	Provides the calculation base for this rate. In our rate table, the rates are specified as per mile from source to destination locations. However, the calculation base must be determined to apply these rates. In this case, the calculation base is distance. There are various bases such as business partner role, weight, destination location, and so on.	CHRG_WEIGHT
Application Level of Calc. Rule	Defines on which level the rates are calculated	Rate table
Price Unit	Defines the multiplier for the calculation base. For example, the	1000

Field	Description	Value
	applicable rate could be <i>per mile</i> or <i>per 100 miles</i> .	
Unit of Measure	The unit of measure specifies the unit to which the multiplier is applied.	KG

- 6. Once you have entered your data, release the rate table by choosing Set Status Released .
- 7. Save your entries.

10.1.3.2.3 Defining Rates for Piracy Risk Surcharge

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Rate Tables ➤ Create Rate Table Definition ▶.
- 2. On the Create Rate Table screen, create the following entry:

Table 218

Field	Description	Value
General Data		
Rate Table	Unique identifier for the rate table	OF-RATE-576
Description	Description of the table	Rate Table for OF 576
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.	PRS
Charge Category	This defaults from the charge type definition above.	012
Charge Subcategory	This defaults from the charge type definition above.	103009
Positive/Negative	This defaults from the charge type definition above.	Positive Value
Value	This defaults from the charge type definition above.	Absolute value
Scales		'
Dimension	On the rate table, this defines a row (x-axis) or a column (y-axis). You can	1 for the first scale (Region based)

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Field	Description	Value
	have multiple scales (up to 9) in a rate table.	
Reference Scale	Assign the scales here for all carriers, which were defined above. This enables the entries in the rate table according to the sequence.	1. OAF-SCALE-SOURCE-LOC 2. OAF-SCALE-DEST-LOC 3. OAF-WEIGHT
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	1. SOURCELOC 2. DESTLOC 3. CHRG_WEIGHT
Scale Type	Manually defined or defaults from the reference scale definition above.	1. Same Scale (=) 2. Same Scale (=) 3. Base Scale (>=)
Scale Unit of Measure	Manually defined or defaults from the reference scale definition above.	1. Blank 2. Blank 3. TO
Minimum Value	Minimum value	Deselect
Maximum Value	Maximum value	Deselect
Rel. Calc. Method	Relative Calculation method	Deselect
Rounding Profile	Rounding profile	Blank

1 Note

After maintaining the lines in the *Create Rate Table* , highlight each line and choose *Create Scale* . Save your entries.

Dates and Values

Valid From	The valid-from date for the rate table	2011-01-01
Valid To	The valid-to date for the rate table	2099-12-31
Aggreg. Rate Description	Aggregated rate description	PRS
Currency	A currency that is applicable for this rate table	USD

- 3. On the *Dates and Values* tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 4. Choose *Insert*, and maintain the following rates:

Source Loc.	Destination Loc.	Value
OF-CFS-JPYOK	OF-CFS-USLAX	> 0.1: 1

Source Loc.	Destination Loc.	Value
		> 0.2: 2
		> 0.3: 3
		> 0.4: 4

5. On the Calculation Rules tab page, enter the following data:

Table 220

Field	Description	Value
Calculation Base	Provides the calculation base for this rate. In our rate table, the rates are specified as per mile from source to destination locations. However, the calculation base must be determined to apply these rates. In this case, the calculation base is distance. There are various bases such as business partner role, weight, destination location, and so on.	CHRG_WEIGHT
Application Level of Calc. Rule	Defines on which level the rates are calculated	Rate table
Price Unit	Defines the multiplier for the calculation base. For example, the applicable rate could be <i>per mile</i> or <i>per 100 miles</i> .	1000
Unit of Measure	The unit of measure specifies the unit to which the multiplier is applied.	KG

- 6. Once you have entered your data, release the rate table by choosing ▶ Set Status ▶ Released ▶.
- 7. Save your entries.

10.1.3.2.4 Defining Rates for Emergency Bunker Adjustment Factor

Procedure

- 2. On the Create Rate Table screen, create the following entry:

Field	Description	Value
General Data		

Field	Description	Value
Rate Table	Unique identifier for the rate table	OF-RATE-577
Description	Description of the table	Rate Table for OF 577
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.	EBAF
Charge Category	This defaults from the charge type definition above.	002
Charge Subcategory	This defaults from the charge type definition above.	103001
Positive/Negative	This defaults from the charge type definition above.	Positive Value
Value	This defaults from the charge type definition above.	Absolute value
Scales		
Dimension	On 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 here for all carriers, which were defined above. This enables the entries in the rate table according to the sequence.	1. OAF-SCALE-SOURCE-LOC 2. OAF-SCALE-DEST-LOC 3. OAF-WEIGHT
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	1. SOURCELOC 2. DESTLOC 3. CHRG_WEIGHT
Scale Type	Manually defined or defaults from the reference scale definition above.	1. Same Scale (=) 2. Same Scale (=) 3. Base Scale (>=)
Scale Unit of Measure	Manually defined or defaults from the reference scale definition above.	 Blank Blank TO
Minimum Value	Minimum value	Deselect
Maximum Value	Maximum value	Deselect

Field	Description	Value
Rel. Calc. Method	Relative Calculation method	Deselect
Rounding Profile	Rounding profile	Blank

1 Note

After maintaining the lines in the *Create Rate Table* , highlight each line and choose *Create Scale* . Save your entries.

Dates and Values Valid From The valid-from date for the rate table 2011-01-01 Valid To The valid-to date for the rate table 2099-12-31 Aggreg. Rate Description Aggregated rate description EBAF Currency A currency that is applicable for this rate table USD

- 3. On the *Dates and Values* tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 4. Choose *Insert*, and maintain the following rates:

Table 222

Source Loc.	Destination Loc.	Value
OF-CFS-JPYOK	OF-CFS-USLAX	> 0.1: 12
		> 0.2: 24
		> 0.3: 36
		> 0.4: 48

5. On the Calculation Rules tab page, enter the following data:

Field	Description	Value
Ficiu	Description	value
Calculation Base	Provides the calculation base for this rate. In our rate table, the rates are specified as per mile from source to destination locations. However, the calculation base must be determined to apply these rates. In this case, the calculation base is distance.	CHRG_WEIGHT
	There are various bases such as business partner role, weight, destination location, and so on.	
Application Level of Calc. Rule	Defines on which level the rates are calculated	Rate table
Price Unit	Defines the multiplier for the calculation base. For example, the	1000

Field	Description	Value
	applicable rate could be <i>per mile</i> or <i>per 100 mile</i> s .	
Unit of Measure	The unit of measure specifies the unit to which the multiplier is applied.	KG

- 6. Once you have entered your data, release the rate table by choosing Set Status Released .
- 7. Save your entries.

10.1.3.3 Defining Rate Table: On-Carriage

Procedure

- 1. InSAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Rate Tables ➤ Create Rate Table Definition ■.
- 2. On the Create Rate Table screen, create the following entry:

Field	Description	Value
General Data		
Rate Table	Unique identifier for the rate table	OAF-RATE-584
Description	Description of the table	Rate Table for OAF 584
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.	ON
Charge Category	This is defaulted from the charge type definition above.	014
Charge Subcategory	This defaults from the charge type definition above.	100000
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
Scales		
Dimension	On the rate table, this defines a row (x-axis) or a column (y-axis). You can	1 for the first scale (Region based)

Field	Description	Value
	have multiple scales (up to 9) in a rate table.	
Reference Scale	Assign the scales here for all carriers, which were defined above. This enables the entries in the rate table as in the sequence.	1. OAF-SCALE-SOURCE-LOC 2. OAF-SCALE-DEST-LOC 3. OAF-WEIGHT
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	1. SOURCELOC 2. DESTLOC 3. CHRG_WEIGHT
Scale Type	Manually defined or defaults from the reference scale definition above.	1. Same Scale (=) 2. Same Scale (=) 3. Base Scale (>=)
Scale Unit of Measure	Manually defined or defaults from the reference scale definition above.	 Blank Blank TO
Minimum Value	Minimum value	Deselect
Maximum Value	Maximum value	Deselect
Rel. Calc. Method	Relative Calculation method	Deselect
Rounding Profile	Rounding profile	Blank

1 Note

 $After \ maintaining \ the \ lines \ in \ the \ \textit{Create Rate Table} \ , \ highlight \ each \ line \ and \ choose \ \textit{Create Scale} \ .$

Save your entries.

Dates and Values

Valid From	The valid-from date for the rate table	2011-01-01
Valid To	The valid-to date for the rate table	2099-12-31
Aggreg. Rate Description	Aggregated rate description	On-Carriage
Currency	A currency that is applicable for this rate table	USD

- 3. On the *Dates and Values* tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 4. Choose *Insert*, and maintain the following rates:

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Table 225

Source Loc. Transp. Zone	Destination Loc.	Value
OF-CFS-USLAX	CUOAF-CO-01@ERP001	> 0.1: 14.00

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Source Loc. Transp. Zone	Destination Loc.	Value
		> 0.2: 15.00
		> 0.3: 16.00
		> 0.4: 18.00
OF-CFS-USLAX	CUOAF-CO-02@ERP001	> 0.1: 14.00
		> 0.2: 15.00
		> 0.3: 16.00
		> 0.4: 18.00
OF-CFS-USLAX	CUOAF-CO-03@ERP001	> 0.1: 11.00
		> 0.2: 12.00
		> 0.3: 13.00
		> 0.4: 14.00
OF-CFS-USLAX	CUOAF-CO-04@ERP001	> 0.1: 11.00
		> 0.2: 12.00
		> 0.3: 13.00
		> 0.4: 14.00

5. On the Calculation Rules tab page, enter the following data:

Table 226

Table 226		
Field	Description	Value
Calculation Base	Provides the calculation base for this rate. In our rate table, the rates are specified as per mile from source to destination locations. However, the calculation base must be determined to apply these rates. In this case, the calculation base is distance. There are various bases such as business partner role, weight, destination location, and so on.	CHRG_WEIGHT
Application Level of Calc. Rule	Defines on which level the rates are calculated	Rate table
Price Unit	Defines the multiplier for the calculation base. For example, the applicable rate could be <i>per mile</i> or <i>per 100 miles</i> .	1000
Unit of Measure	The unit of measure specifies the unit to which the multiplier is applied.	KG

- 6. Once you have entered your data, release the rate table by choosing ▶ Set Status ▶ Released ▶.
- 7. Save your entries.

10.1.4 Defining Calculation Sheets (LCL Scenario)

Within a freight order or forwarding order, the applicable charges are calculated on the basis of the calculation sheet.

Procedure

- 2. Choose Continue.
- 3. On the New Calculation Sheet screen, enter your data based on the following tables.

i Note

For this scenario, we create four calculation sheets (one for each carrier)

Pre-Carriage

1. On the General Data tab page, enter the following data in the Basic Data screen area:

Table 227

Field	Description	Value
Calculation Sheet	Unique identifier for the calculation sheet to be defined	OAF-TCCS-PRE
Description	Description of the calculation sheet	Calculation sheet pre- carriage
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

- 2. In the *Items* screen area, choose Insert Single Item to add a new line item.
- 3. Select the line for 20.

Enter data in the area at the bottom of the screen.

4. On the Basic Data tab page, enter the following data:

Table 228

Field	Description	Value
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	Land Pre-Carriage

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Field	Description	Value
Charge Type	Assigned charge type	PRE
Line No	Line number of the item	20
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	Blank
Leading Charge Type	Identifies leading charge type	Select
Calculation Method Type	Calculation method type	Standard

5. On the Rate tab page, enter the following data:

Table 229

Field	Description	Value
Currency	Unit of measure for the quantitative rate amount	JPY
Rate Table	Assigned rate table	OAF-RATE-569

6. Select the line for 30.

Enter data in the area at the bottom of the screen.

7. On the Basic Data tab page, enter the following data:

Table 230

Value
Standard
Fuel Surcharge
FUEL
30
20
Blank
Standard

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

Field	Description	Value
Amount	Quantitative rate amount	3
Currency	Unit of measure for the quantitative rate amount. Note that this value is	90

Field	Description	Value
	not available from the input help (F4); you must enter it manually.	
Ref-From Line No.	Reference from line number	20
Ref-To Line Number	Reference to line number	20

9. Select the line for 40.

Enter data in the area at the bottom of the screen.

10. On the Basic Data tab page, enter the following data:

Table 232

Table 232		
Field	Description	Value
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	Toll Fee Fix
Charge Type	Assigned charge type	TOLL
Line No	Line number of the item	40
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	Blank
Calculation Method Type	Calculation method type	Standard

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

Table 233

Field	Description	Value
Amount	Rate amount	2023
Currency	Unit of measure for quantitative rate amount	JPY

12. Save your entries.

Main Carriage

1. On the *General Data* tab page, enter the following data in the *Basic Data* screen area:

Field	Description	Value
Calculation Sheet	Unique identifier for the calculation sheet to be defined	OF-TCCS-MAIN
Description	Description of the calculation sheet	Calculation sheet main carriage

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	Customer
	decision making during tendering, and so on.	

- 2. In the *Items* screen area, choose *▶ Insert ▶ Single Item* 1 to add a new line item.
- 3. Select the line for 20.

Enter data in the area at the bottom of the screen.

4. On the *Basic Data* tab page, enter the following data:

Table 235

Table 255		
Field	Description	Value
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	Base Sea Freight
Charge Type	Assigned charge type	BSF
Line No	Line number of the item	20
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	Blank
Leading Charge Type	Identifies leading charge type	Select
Calculation Method Type	Calculation method type	Standard
Stage Category	Stage category	M - Main carriage
Shipping Type	Shipping type	2 (LCL)

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

Table 236

Field	Description	Value
Rate Table	Assigned rate table	OF-RATE-574
Currency	Unit of measure for quantitative amount	USD

6. Select the line for 30.

Enter data in the area at the bottom of the screen.

Field	Description	Value
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	B/L Fee Fix
Charge Type	Assigned charge type	BLAD
Line No	Line number of the item	30
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	Blank
Calculation Method Type	Calculation method type	Standard
Stage Category	Stage category	M - Main carriage
Shipping Type	Shipping type	2 (LCL)

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

Table 238

Field	Description	Value
Amount	Rate amount	100
Currency	Unit of measure for quantitative measure	USD

9. Select the line for 40.

Enter data in the area at the bottom of the screen.

10. On the Basic Data tab page, enter the following data:

Table 239

Field	Description	Value
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	Currency Adjustment Factor
Charge Type	Assigned charge type	CAF
Line No	Line number of the item	40
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	Blank

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Field	Description	Value
Calculation Method Type	Calculation method type	Standard
Stage Category	Stage category	M - Main carriage
Shipping Type	Shipping type	2 (LCL)

11. On the Rate tab page, enter the following data:

Table 240

Field	Description	Value
Amount	Rate amount	14.60
Currency	Unit of measure for the quantitative rate amount. Note that this value is not available from the input help (F4); you must enter it manually.	%
RefFrom Line No.	Reference from line number	20
RefTo Line Number	Reference to line number	20

12. Select the line for 50.

Enter data in the area at the bottom of the screen.

13. On the Basic Data tab page, enter the following data:

Table 241

Field	Description	Value
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	Bunker Adjustment Factor
Charge Type	Assigned charge type	BAF
Line No	Line number of the item	50
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	Blank
Calculation Method Type	Calculation method type	Break Weight
Stage Category	Stage category	M - Main carriage
Shipping Type	Shipping type	2 (LCL)

14. On the Rate tab page, enter the following data:

Field	Description	Value
Rate Table	Assigned rate table	OF-RATE-575

Field	Description	Value
Currency	Unit of measure for quantitative amount	USD

15. Select the line for 60.

Enter data in the area at the bottom of the screen.

16. On the Basic Data tab page, enter the following data:

Table 243

Field	Description	Value
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	Piracy Risk Surcharge
Charge Type	Assigned charge type	PRS
Line No	Line number of the item	60
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	Blank
Calculation Method Type	Calculation method type	Standard
Stage Category	Stage category	M - Main carriage
Shipping Type	Shipping type	2 (LCL)

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

Table 244

Field	Description	Value
Rate Table	Assigned rate table	OF-RATE-576
Currency	Unit of measure for quantitative amount	USD

18. Select the line for 70.

Enter data in the area at the bottom of the screen.

19. On the Basic Data tab page, enter the following data:

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Table 245

Field	Description	Value
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	Emergency Bunker Adjustment Factor

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Field	Description	Value
Charge Type	Assigned charge type	EBAF
Line No	Line number of the item	70
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	Blank
Calculation Method Type	Calculation method type	Standard
Stage Category	Stage category	M - Main carriage
Shipping Type	Shipping type	2 (LCL)

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

Table 246

Field	Description	Value
Rate Table	Assigned rate table	OF-RATE-577
Currency	Unit of measure for quantitative amount	USD

21. Select the line for 80.

Enter data in the area at the bottom of the screen.

22. On the Basic Data tab page, enter the following data:

Table 247

Field	Description	Value
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	International Port Security Destination
Charge Type	Assigned charge type	ISPD
Line No	Line number of the item	80
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	Blank
Calculation Method Type	Calculation method type	Standard
Stage Category	Stage category	M - Main carriage
Shipping Type	Shipping type	2 (LCL)

Field	Description	Value
Amount	Rate amount	3
Currency	Unit of measure for quantitative amount	USD

24. Select the line for 90.

Enter data in the area at the bottom of the screen.

25. On the Basic Data tab page, enter the following data:

Table 249

Field	Description	Value
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	Terminal Handling Charge Destination
Charge Type	Assigned charge type	THCD
Line No	Line number of the item	90
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	Blank
Calculation Method Type	Calculation method type	Standard
Stage Category	Stage category	M - Main carriage
Shipping Type	Shipping type	2 (LCL)

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

Table 250

Field	Description	Value
Rate	Rate	OAF-RATE-574-1
Currency	Unit of measure for quantitative amount	USD

27. Select the line for 100.

Enter data in the area at the bottom of the screen.

28. On the Basic Data tab page, enter the following data:

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Table 251

Field	Description	Value
Instruction Type	Rule to indicate how the charge item is applied for the calculation	Standard

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Field	Description	Value
Description	Description of the charge item in the calculation sheet	AMS Fee
Charge Type	Assigned charge type	Automated Manifest Submission Fee
Line No	Line number of the item	100
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	Blank
Calculation Method Type	Calculation method type	Standard
Stage Category	Stage category	M - Main carriage
Shipping Type	Shipping type	2 (LCL)

29. On the Rate tab page, enter the following data:

Table 252

Field	Description	Value
Amount	Rate amount	25
Currency	Unit of measure for quantitative amount	USD

30. Save your entries.

On-Carriage

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

Table 253

Field	Description	Value
Calculation Sheet	Unique identifier for the calculation sheet to be defined	OAF-TCCS-ON
Description	Description of the calculation sheet	Calculation sheet on- carriage
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

- 2. In the *Items* screen area, choose *▶ Insert ▶ Single Item* 1 to add a new line item.
- 3. Select the line for 20.

Enter data in the area at the bottom of the screen.

4. On the Basic Data tab page, enter the following data:

Table 254

Table 234		
Field	Description	Value
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	On-Carriage
Charge Type	Assigned charge type	ON
Line No	Line number of the item	20
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	Blank
Leading Charge Type	Identifies leading charge type	Select
Calculation Method Type	Calculation method type	Standard
Stage Category	Stage category	O - On-Carriage
Shipping Type	Shipping type	2 (LCL)

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

Table 255

Field	Description	Value
Rate Table	Assigned rate table	OAF-RATE-584
Currency	Unit of measure for quantitative amount	USD

6. Select the line for 30.

Enter data in the area at the bottom of the screen.

7. On the Basic Data tab page, enter the following data:

Table 256

Field	Description	Value
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	Fuel Surcharge
Charge Type	Assigned charge type	FUEL
Shipping Type	Shipping type	2 (LCL)
Line No	Line number of the item	30
Reference from	Reference from line number	20

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Field	Description	Value
Reference to	Reference to line number	20
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	Blank
Calculation Method Type	Calculation method type	Standard
Stage Category	Stage category	O - On-Carriage

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

Table 257

Field	Description	Value
Amount	Rate amount	10
Currency	Unit of measure for the quantitative rate amount. Note that this value is not available from the input help (F4); you must enter it manually.	S _S
RefFrom Line No.	Reference from line number	20
RefTo Line Number	Reference to line number	20

9. Select the line for 40.

Enter data in the area at the bottom of the screen.

Table 258

Table 256		
Field	Description	Value
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	Automated Manifest Submission Fee
Charge Type	Assigned charge type	AMS
Line No	Line number of the item	40
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	Blank
Calculation Method Type	Calculation method type	Standard
Stage Category	Stage category	O - On-Carriage
Shipping Type	Shipping type	2 (LCL)

11. On the Rate tab page, enter the following data:

Table 259

Field	Description	Value
Amount	Rate amount	25
Currency	Unit of measure for quantitative amount	USD

12. Save your entries.

10.1.5 Defining Calculation Sheets (FCL Scenario)

Within a freight order or forwarding order, the applicable charges are calculated on the basis of the calculation sheet.

Procedure

Calculation Sheet for Forwarding Agreement Japan (FCL Scenario)

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Calculation Sheets ➤ Create Calculation Sheet ▶.
- 2. Choose Continue.
- 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 the *Basic Data* screen area:

Table 260

Field	Description	Value
Calculation Sheet	Unique identifier for the calculation sheet	OF-TCCS-FWA-JP-FCL
Description	Description of the calculation sheet	Calculation Sheet for FWA JP FCL
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

- 5. In the *Items* screen area, choose ▶ *Insert* ➤ *Single Item* to add a new line item.
- 6. Select the line for 20.

Enter data in the area at the bottom of the screen.

Field	Description	Value
Instruction Type	Rule to indicate how the charge item is applied for the calculation	Cost
Description	Description of the charge item in the calculation sheet	Blank
Charge Type	Assigned charge type	Blank
Line No	Line number of the item	20
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	Blank
Cost Pull Strategy	Cost pull strategy	Active Copy
Calculation Method Type	Calculation method type	COST_PULL

8. Save your entries.

Calculation Sheet for Forwarding Agreement USA (FCL Scenario)

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Calculation Sheets ➤ Create Calculation Sheet ▶.
- 2. Choose Continue.
- 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 the *Basic Data* screen area:

Table 262

Field	Description	Value
Calculation Sheet	Unique identifier for the calculation sheet	OF-TCCS-FWA-US-FCL
Description	Description of the calculation sheet	Calculation Sheet for FWA US FCL
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

- 5. In the *Items* screen area, choose *▶ Insert ▶ Single Item* 1 to add a new line item.
- 6. Select the line for 20.

Enter data in the area at the bottom of the screen.

Field	Description	Value
Instruction Type	Rule to indicate how the charge item is applied for the calculation	Cost
Description	Description of the charge item in the calculation sheet	Blank
Charge Type	Assigned charge type	Blank
Line No	Line number of the item	20
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	Blank
Cost Pull Strategy	Cost pull strategy	Active Copy
Calculation Method Type	Calculation method type	COST_PULL

8. Save your entries.

10.1.6 Defining Forwarding Agreement Types

You use the forwarding agreement type to define the shipper/consignee-relevant pricing structure. The forwarding agreement type is determined in the charge calculation process in the forwarding order

Procedure

- 1. In Customizing for Transportation Management , choose ▶ Master Data ▶ Agreements and Service Products ▶ Define FWA and Service Product Catalog Types ■
- 2. Enter the following data:

Tuble 204	
Field	Value
Forw. Ord Type	OF07
Short Description	OF: Forwarding Agreement
Default Agr.Type	Deselect
Track Changes	Select
Multiple Parties	Select
Agr. No. Range	01

- 3. Save your entries and ignore any warning messages.
- 4. Highlight the line of the forwarding agreement OF07 and choose Specify Preconditions.

- 5. Create two new entries for preconditions:
 - SHIPMENT (shipment type)
 - STAGE CAT (stage category)
- 6. Save your entries.

More Information

Defining Forwarding Agreements [page 143]

10.1.6.1 Defining Forwarding Agreements

Procedure

Creating a Forwarding Agreement for a Consignee (Main and On-Carriage)

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Forwarding Agreement ▶ Forwarding Agreement ▶ Create Forwarding Agreement ▶.
- 2. Select agreement type ${\tt OF07}$, and choose Continue .
- 3. Enter the following data:

Table 265

Field	Value
Agreement	OF-FWA-CO
Agreement Desc :	FWA for OF-CO
Valid From	2011-01-01
Valid To	2012-12-31
Document Currency	USD
Shipping Type	2 (LCL)
Organizational Unit	OF-FWH-21
	OF-FWH-22
Business Partner	OAF-CO-01
	OAF-CO-02
	OAF-CO-03
	OAF-CO-04

4. Navigate to the *Item* tab page. Enter the following data by choosing **▶** *Insert* **▶** *Item* **□**:

Field	Value
Item Number	100

Field	Value
Calculation Sheet	OF-TCCS-MAIN
Stage Category	Main Carriage
Item Number	200
Calculation Sheet	OAF-TCCS-ON
Stage Category	On-Carriage

- 5. Once you have entered your data, release the agreement by choosing ▶ Set Status ➤ Released ▶.
- 6. Save your entries.

Creating a Forwarding Agreement for a Customer (Shipper)

- 2. Select forwarding agreement type OF07 and choose Continue.
- 3. Enter the following data:

Table 267

able 207	
Field	Value
Agreement	OF-FWA-CU-01
Agreement Desc :	FWA for CU-01
Valid From	2011-01-01
Valid To	2012-12-31
Document Currency	JPY
Shipping Type	2
Organizational Unit	OF-FWH-01
	OF-FWH-05
BP Number	OAF-CU-01

4. Navigate to the *Item* tab page and enter the following data by choosing *▶ Insert ▶ Insert Item* **≥**:

Table 268

Table 200	
Field	Value
Item Number	100
Calculation Sheet	OAF-TCCS-PRE
Stage Category	Pre-Carriage
Dimensional Weight Profile	ZOAF_LAND3
Item Number	200
Calculation Sheet	OF-TCCS-MAIN

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Field	Value
Stage Category	Main Carriage
Dimensional Weight Profile	ZOF_SEA
Item Number	300
Calculation Sheet	OAF-TCCS-ON
Stage Category	On-Carriage
Dimensional Weight Profile	ZOAF_LAND3

- 5. Once you have entered your data, release the agreement by choosing ▶ Set Status ➤ Released ■.
- 6. Save your entries.
- 7. In SAP NetWeaver Business Client (NWBC), choose Forwarding Agreement Management Forwarding Agreements > Create Forwarding Agreement \(\).
- 8. Select agreement type OF07 and choose Continue.
- 9. Enter the following data:

Field	Value
Agreement	OF-FWA-CU-02
Agreement Desc :	FWA for CU-02
Valid From	2011-01-01
Valid To	2012-12-31
Document Currency	JPY
Shipping Type	2
Organizational Unit	OF-FWH-01
	OF-FWH-05
BP Number	OAF-CU-02

10. Navigate to the *Item* tab page. Enter the following data:

Field	Value
Item Number	100
Calculation Sheet	OAF-TCCS-PRE
Stage Category	Pre-Carriage
Dimensional Weight Profile	ZOAF_LAND3
Item Number	200
Calculation Sheet	OF-TCCS-MAIN
Stage Category	Main Carriage

Field	Value
Dimensional Weight Profile	ZOF_SEA
Item Number	300
Calculation Sheet	OAF-TCCS-ON
Stage Category	On-Carriage
Dimensional Weight Profile	ZOAF_LAND3

- 11. Once you have entered your data, release the agreement by choosing | Set Status > Released | ...
- 12. Save your entries.
- 14. Select agreement type OF07 and choose Continue.
- 15. Enter the following data:

Field	Value
Agreement	OF-FWA-CU-03
Agreement Desc :	FWA for CU-03
Valid From	2011-01-01
Valid To	2012-12-31
Document Currency	JPY
Shipping Type	2
Organizational Unit	OF-FWH-01
	OF-FWH-05
BP Number	OAF-CU-03

16. Navigate to the *Item* tab page. Enter the following data:

Table E7 E	
Value	
100	
OAF-TCCS-PRE	
Pre-Carriage	
ZOAF_LAND3	
200	
OF-TCCS-MAIN	
Main Carriage	
ZOF_SEA	

Field	Value
Item Number	300
Calculation Sheet	OAF-TCCS-ON
Stage Category	On-Carriage
Dimensional Weight Profile	ZOAF_LAND3

- 17. Once you have entered your data, release the agreement by choosing Set Status Released.
- 18. Save your entries.
- 19. In SAP NetWeaver Business Client (NWBC), choose Forwarding Agreement Management Forwarding Agreements > Create Forwarding Agreement > .
- 20. Select agreement type OF07 and choose Continue.
- 21. Enter the following data:

Field	Value
Agreement	OF-FWA-CU-04
Agreement Desc :	FWA for CU-04
Valid From	2011-01-01
Valid To	2012-12-31
Document Currency	JPY
Shipping Type	2
Organizational Unit	OF-FWH-01
	OF-FWH-05
BP Number	OAF-CU-04

22. Navigate to the *Item* tab page. Enter the following data:

Field	Value
Item Number	100
Calculation Sheet	OAF-TCCS-PRE
Stage Category	Pre-Carriage
Dimensional Weight Profile	ZOAF_LAND3
Item Number	200
Calculation Sheet	OF-TCCS-MAIN
Stage Category	Main Carriage
Dimensional Weight Profile	ZOF_SEA
Item Number	300

Field	Value
Calculation Sheet	OAF-TCCS-ON
Stage Category	On-Carriage
Dimensional Weight Profile	ZOAF_LAND3

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

10.1.7 Defining Forwarding Settlement Document Types

Procedure

- 1. In Customizing for *Transportation Management*, choose ▶ *Settlement* ▶ *Forwarding Settlement* ▶ *Define Forwarding Settlement Document Types* ▶.
- 2. Choose New Entries.
- 3. Enter the following data:

Table 275

Field	Value
FWSD Type	OF09
Description	OF: Forwarding Settlement Document
FSD Category	10 Forwarding Settlement Document
BW Relevance	Select
No. Range Interval	01
BW Relevance	Select
Output Profile	/SCMTMS/CFIR
Add. Output Profile	/SCMTMS/CFIR_PRINT
Dynamic Determination of Output Profile	Deselect

- 4. Save your entries.
- 5. Return to Customizing for the forwarding order document type and add this settlement document type to FWO types OF01, OF15, OF16, and OF17.

10.1.8 Defining Settlement Profiles

Use this procedure to define the 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 specified 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.

Procedure

- 1. In Customizing for Transportation Management, choose | Settlement > Define Settlement Profile > .
- 2. Choose New Entries.
- 3. Enter the following data:

Table 276

Field	Description	Value
Settlement Prof	Settlement profile	OAF_SP_01
Description .	Description	OAF Settlement Profile
Profile Category	Determines whether profile is valid for freight or 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 criteria for generating settlement documents	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	Blank
Stage Split	Stage split	Blank

4. Save your entries.

10.1.9 Configuring Organizational Settings for Charge Elements

Procedure

Define Calculation Profile

- 1. In Customizing for Transportation Management , choose ▶ Basic Functions ➤ Charge Calculation ➤ Basic Settings for Charge Calculation ➤ Define Calculation Profile ■.
- 2. Choose New Entries.
- 3. Enter the following data:

Field	Description	Value
Calculation Profile	Calculation profile	OAF-CP-01
Description	Description of profile	OAF Calculation Profile 1
Calc. Date Type	Calculation date type	<pre><expected carriage="" date="" main="" of="" start=""></expected></pre>
Calculation Level	Calculation level	Calculation at stage level
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 profile determination	Blank
Exch. Rate Type	Exchange rate type	Blank
Data Source	Data source	Actual Route

- 4. Save your entries.
- 5. Chose *Copy as...* to copy the calculation sheet you have just created and change the following settings:

Table 278

Field	Description	Value
Calculation Profile	Calculation profile	OAF-CP-02
Description	Description of profile	OAF Calculation Profile 2
Calculation Level	Calculation level	Calculation at stage level
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 profile determination	Blank
Exch. Rate Type	Exchange rate type	Blank
Data Source	Data source	Actual Route

6. Save your entries.

Define Cost Distribution Profile

- 1. In Customizing for *Transportation Management*, choose ▶ *Basic Functions* ➤ *Cost Distribution* ➤ *Define Cost Distribution Profiles* ▶.
- 2. Choose New Entries.
- 3. Enter the following data:

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14510 27 3	
Field	Value
Distr. Profile	DIR_FWO_NW
Description	Direct Forwarding Order Item - Net Weight
Distr. Method	Direct
Distribution Rule	03 Net Weight
Distr. Level	1 Forwarding Order

4. Save your entries.

Define General Settings

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

Table 280

Field	Description	Value
Org. Unit	Forwarding house	Select the Org-ID number that belongs to OAF-FWH-01 (FH Station Nagoya). You noted this number in Creating Forwarding Houses [page 63].
Default Purch. Org.	Default purchasing organization	Select the Org-ID number that belongs to OAF-FWH-01 (FH Station Nagoya). You noted this number in Creating Forwarding Houses [page 63].
Default Carrier	Carrier	Blank
Settlement Prof	Settlement profile	OAF_SP_01
Settlement Prof. Det. Cond.	Determination condition	Blank
Calculation Profile	Calculation profile	OAF-CP-01
Purchasing Calculation Profile	Calculation profile	OAF-CP-02
Local Currency	Local currency	USD for U.S. forwarding houses JPY for Japanese forwarding houses
Default Charges View	Default charges	Blank
Dist. Prf.	Distribution Profile	DIR_FWO_NW

- 4. Save your entries.
- 5. Repeat the above steps to create a separate entry for the following forwarding houses:

Company	Forwarding Houses		
OAF-COMP-JP	OAF-FWH-01	FH Station	Nagoya
	OF-FWH-03	FH CFS	Yokohama
	OAF-FWH-04	FH Station	Hiroshima
	OAF-FWH-05	FH Station	Tokyo
OAF-COMP-US	OF-FWH-20	FH CFS	Los Angeles
	OAF-FWH-21	FH Station	Phoenix
	OAF-FWH-22	FH Station	San Diego
	OAF-FWH-25	FH Station	San Francisco

More Information

Creating Companies [page 59]
Creating Forwarding Houses [page 63]

10.2 Charge Management: Freight Order

Defining Rate Tables - Main Carriage

Rates are maintained in rate tables, which use the scales specified in Defining Scales [page 104]. In this scenario, the following scales are assigned to the rate tables:

Table 282

Table 202		
Rate Table	Used Scales	Charge Type Assigned
OF-RATE-600	• OAF-SCALE-SOURCE-LOC	FB00
	• OF-SCALE-LOC	
	• OF-SCALE-EQU	
OF-RATE-601	• OAF-SCALE-SOURCE-LOC	BAF
	• OF-SCALE-LOC	
	• OF-SCALE-EQU	
OF-RATE-602	• OAF-SCALE-SOURCE-LOC	THCO
	• OF-SCALE-LOC	
	• OF-SCALE-EQU	
OF-RATE-603	• OAF-SCALE-SOURCE-LOC	THCD
	• OF-SCALE-LOC	
	• OF-SCALE-EQU	

Rate Table	Used Scales	Charge Type Assigned
OF-RATE-604	• OAF-SCALE-SOURCE-LOC	PEAK
	• OF-SCALE-LOC	
	• OF-SCALE-EQU	
OF-RATE-605	• OAF-SCALE-SOURCE-LOC	LSFS
	• OF-SCALE-LOC	
	• OF-SCALE-EQU	

For the relevant procedure, see Defining Rate Table - Main Carriage [page 153].

Defining Rate Tables - Trucking Rates

Rates are maintained in rate tables, which use the scales specified in Defining Scales [page 104]. In this scenario, the following rate tables are defined for trucking:

- Pickup LTL [page 164] (less than a truck load)
- Pre-Carriage FTL [page 169] (full truck load)
- On-Carriage FTL [page 171]
- Delivery LTL [page 173]

Calculation Sheets

Within a freight order or forwarding order, the applicable charges are calculated on the basis of a calculation sheet

The following calculation sheets are defined:

- Pickup [page 188]
- Pre-carriage [page 191]
- Main carriage [page 177]

10.2.1 Defining Rate Table: Main Carriage (LCL)

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Rate Tables ➤ Create Rate Table Definition ▶.
- 2. On the Create Rate Table screen, create the following entry:

Field	Description	Value
General Data		
Rate Table	Unique identifier for the rate table	OF-RATE-600
Description	Description of the table	Carrier Rate Ocean 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.	Service Provider
Charge Type	This is where the charge type is linked for integration with SAP ERP.	FB00
Charge Category	This defaults from the charge type definition above.	004
Charge Subcategory	This defaults from the charge type definition above.	100000
Positive/Negative	This defaults from the charge type definition above.	Positive Value
Value	This defaults from the charge type definition above.	Absolute Value
Scales	·	
Scale Dimension Number	On 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 here for all carriers, which were defined above. This enables the entries in the rate table as in the sequence.	1. OAF-SCALE-SOURCE-LOC 2. OAF-SCALE-DEST-LOC 3. OF-SCALE-EQU
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	1. SOURCELOC 2. DESTLOC 3. EQUIP_TYPE
Minimum Value	Minimum value	Deselect
Maximum Value	Maximum value	Deselect
Rel. Calc. Method	Relative Calculation method	Deselect
Dates and Values		
Valid-From Date	The valid-from date for the rate table	2011-01-01
Valid-To Date	The valid-to date for the rate table	2099-12-31
Aggreg. Rate Description	Aggregated rate description	Main Carriage
Currency	A currency that is applicable for this rate table	USD

- 3. On the *Dates and Values* tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 4. Choose *Insert*, and maintain the following rates:

Source Location	Destination Location	Equipment Type	Value
OF-JPYOK	OF-USLGB	22G0	1200
OF-JPYOK	OF-USLGB	44G0	1900
OF-JPYOK	OF-USLGB	20G0	1100
OF-JPYOK	OF-USLGB	22R1	2000

- 5. Once you have entered your data, release the rate table by choosing ▶ Set Status ▶ Released ▶.
- 6. Save your entries.
- 7. On the Create Rate Table screen, create a new entry for BAF. Enter the following data:

Field	Description	Value
General Data		
Rate Table	Unique identifier for the rate table	OF-RATE-601
Description	Description of the table	Carrier Rate Ocean Freight - BAF
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.	Service Provider
Charge Type	This is where the charge type is linked for integration with SAP ERP.	BAF
Charge Category	This defaults from the charge type definition above.	012
Charge Subcategory	This defaults from the charge type definition above.	103001
Positive/Negative	This defaults from the charge type definition above.	Positive Value
Value	This defaults from the charge type definition above.	Absolute Value
Scales		
Scale Dimension Number	On 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)

Field	Description	Value
Reference Scale	Assign the scales here for all carriers, which were defined above. This enables the entries in the rate table as in the sequence.	1. OAF-SCALE-SOURCE-LOC 2. OAF-SCALE-DEST-LOC 3. OF-SCALE-EQU
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	1. SOURCELOC 2. DESTLOC 3. EQUIP_TYPE
Minimum Value	Minimum value	Deselect
Maximum Value	Maximum value	Deselect
Rel. Calc. Method	Relative Calculation method	Deselect
Dates and Values		
Valid-From Date	The valid-from date for the rate table	2011-01-01
Valid-To Date	The valid-to date for the rate table	2099-12-31
Aggreg. Rate Description	Aggregated rate description	Main Carriage
Currency	A currency that is applicable for this rate table	USD

- 8. On the *Dates and Values* tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 9. Choose *Insert* and maintain the following rates:

Table 200				
	Source Location	Destination Location	Equipment Type	Value
	OF-JPYOK	OF-USLGB	22G0	400
	OF-JPYOK	OF-USLGB	42G0	1700
	OF-JPYOK	OF-USLGB	20G0	350
	OF-JPYOK	OF-USLGB	22R1	1800

- 10. Once you have entered your data, release the rate table by choosing > Set Status > Released >.
- 11. Save your entries.
- 12. On the *Create Rate Table* screen, create a new entry for THC POL. Enter the following data:

Table 287

ble 267		
Field	Description	Value
General Data		
Rate Table	Unique identifier for the rate table	OF-RATE-602
Description	Description of the table	Carrier Rate Ocean Freight - THC (POL)

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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.	Service Provider
Charge Type	This is where the charge type is linked for integration with SAP ERP.	THCO
Charge Category	This defaults from the charge type definition above.	010
Charge Subcategory	This defaults from the charge type definition above.	104007
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
Scales	'	
Scale Dimension Number	On 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 here for all carriers, which were defined above. This enables the entries in the rate table as in the sequence.	1. OAF-SCALE-SOURCE-LOC 2. OAF-SCALE-DEST-LOC 3. OF-SCALE-EQU
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	1. SOURCELOC 2. DESTLOC 3. EQUIP_TYPE
Minimum Value	Minimum value	Deselect
Maximum Value	Maximum value	Deselect
Rel. Calc. Method	Relative Calculation method	Deselect
Dates and Values		
Valid-From Date	The valid-from date for the rate table	2011-01-01
Valid-To Date	The valid-to date for the rate table	2099-12-31
Aggreg. Rate Description	Aggregated rate description	Main Carriage
Currency	A currency that is applicable for this rate table	USD

- 13. On the *Dates and Values* tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 14. Choose *Insert* and maintain the following rates:

Table 288

Source Location	Destination Location	Equipment Type	Value
OF-JPYOK	OF-USLGB	22GP	240
OF-JPYOK	OF-USLGB	42G0	240
OF-JPYOK	OF-USLGB	20G0	200
OF-JPYOK	OF-USLGB	22R1	300

- 15. Once you have entered your data, release the rate table by choosing Set Status Released .
- 16. Save your entries.
- 17. On the Create Rate Table screen, create a new entry for THCD (PoD). Enter the following data:

Table 289

Field	Description	Value		
General Data	General Data			
Rate Table	Unique identifier for the rate table	OF-RATE-603		
Description	Description of the table	Carrier Rate Ocean Freight - THC (POD)		
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.	Service Provider		
Charge Type	This is where the charge type is linked for integration with SAP ERP.	THCD		
Charge Category	This defaults from the charge type definition above.	007		
Charge Subcategory	This defaults from the charge type definition above.	104007		
Positive/Negative	This defaults from the charge type definition above.	Positive Value		
Value	This defaults from the charge type definition above.	Absolute Value		
Scales				
Scale Dimension Number	On 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)		

Field	Description	Value		
Reference Scale	Assign the scales here for all carriers, which were defined above. This enables the entries in the rate table as in the sequence.	1. OAF-SCALE-SOURCE-LOC 2. OAF-SCALE-DEST-LOC 3. OF-SCALE-EQU		
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	1. SOURCELOC 2. DESTLOC 3. EQUIP_TYPE		
Minimum Value	Minimum value	Deselect		
Maximum Value	Maximum value	Deselect		
Rel. Calc. Method	Relative Calculation method	Deselect		
Dates and Values	Dates and Values			
Valid-From Date	The valid-from date for the rate table	2011-01-01		
Valid-To Date	The valid-to date for the rate table	2099-12-31		
Aggreg. Rate Description	Aggregated rate description	Main Carriage		
Currency	A currency that is applicable for this rate table	USD		

- 18. On the *Dates and Values* tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 19. Choose *Insert* and maintain the following rates:

Table 290

Source Location	Destination Location	Equipment Type	Value
OF-JPYOK	OF-USLGB	22GP	450
OF-JPYOK	OF-USLGB	42G0	550
OF-JPYOK	OF-USLGB	20G0	400
OF-JPYOK	OF-USLGB	22R1	600
OF-CFS-JPYOK	OF-JPYOK	22G0	250
OF-CFS-JPYOK	OF-JPYOK	42G0	350
OF-CFS-JPYOK	OF-JPYOK	20G0	200
OF-CFS-JPYOK	OF-JPYOK	22R1	400
OF-USLGB	OF-CFS-USLAX	22G0	250
OF-USLGB	OF-CFS-USLAX	42G0	350
OF-USLGB	OF-CFS-USLAX	20G0	200
OF-USLGB	OF-CFS-USLAX	22R1	400

- 20. Once you have entered your data, release the rate table by choosing Set Status Released.
- 21. Save your entries.
- 22. On the Create Rate Table screen, create a new entry for PSS. Enter the following data:

			Table 291	
	Value	Description	Field	
	General Data			
	OF-RATE-604	Unique identifier for the rate table	Rate Table	
n	Carrier Rate Ocean Freight- PEAK	Description of the table	Description	
	Service Provider	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.	Charge Usage	
	PEAK	This is where the charge type is linked for integration with SAP ERP.	Charge Type	
	008	This defaults from the charge type definition above.	Charge Category	
	103009	This defaults from the charge type definition above.	Charge Subcategory	
	Positive Value	This defaults from the charge type definition above.	Positive/Negative	
ult)	Percentage Value (default)	This defaults from the charge type definition above.	Value	
		1	Scales	
ion based)	1 for the first scale (Region based	On 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.	Scale Dimension Number	
	1. OAF-SCALE-SOURCE-LOC 2. OAF-SCALE-DEST-LOC 3. OF-SCALE-EQU	Assign the scales here for all carriers, which were defined above. This enables the entries in the rate table as in the sequence.	Reference Scale	
	1. SOURCELOC 2. DESTLOC 3. EQUIP_TYPE	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	Calculation Base	
	Deselect	Minimum value	Minimum Value	
	Deselect	Maximum value	Maximum Value	
ic E	1 for the first scale (Region 1. OAF-SCALE-SOURCE 2. OAF-SCALE-DEST-I 3. OF-SCALE-EQU 1. SOURCELOC 2. DESTLOC 3. EQUIP_TYPE Deselect	On 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. Assign the scales here for all carriers, which were defined above. This enables the entries in the rate table as in the sequence. This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object. Minimum value	Scales Scale Dimension Number Reference Scale Calculation Base Minimum Value	

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Field	Description	Value
Rel. Calc. Method	Relative Calculation method	Deselect
Dates and Values		
Valid-From Date	The valid-from date for the rate table	2011-01-01
Valid-To Date	The valid-to date for the rate table	2099-12-31
Aggreg. Rate Description	Aggregated rate description	Main Carriage
Currency	A currency that is applicable for this rate table	8

- 23. On the *Dates and Values* tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 24. Choose *Insert* and maintain the following rates:

Table 292

Source Location	Destination Location	Equipment Type	Value
OF-JPYOK	OF-USLGB	22G0	15
OF-JPYOK	OF-USLGB	42G0	30
OF-JPYOK	OF-USLGB	20G0	10
OF-JPYOK	OF-USLGB	22R1	40

- 25. Once you have entered your data, release the rate table by choosing ▶ Set Status ➤ Released ▶.
- 26. Save your entries.
- 27. On the Create Rate Table Definition screen, create a new entry for LSFS. Enter the following data:

Table 293

Field	Description	Value		
General Data	General Data			
Rate Table	Unique identifier for the rate table	OF-RATE-605		
Description	Description of the table	Carrier Rate Ocean Freight - LSFS		
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.	Service Provider		
Charge Type	This is where the charge type is linked for integration with SAP ERP.	LSFS		
Charge Category	This defaults from the charge type definition above.	008		
Charge Subcategory	This defaults from the charge type definition above.	103009		

Field	Description	Value		
Positive/Negative	This defaults from the charge type definition above.	Positive Value		
Value	This defaults from the charge type definition above.	Absolute Value		
Scales				
Scale Dimension Number	On 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 here for all carriers, which were defined above. This enables the entries in the rate table as in the sequence.	1. OAF-SCALE-SOURCE-LOC 2. OAF-SCALE-DEST-LOC 3. OF-SCALE-EQU		
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	1. SOURCELOC 2. DESTLOC 3. EQUIP_TYPE		
Minimum Value	Minimum value	Deselect		
Maximum Value	Maximum value	Deselect		
Rel. Calc. Method	Relative Calculation method	Deselect		
Dates and Values	Dates and Values			
Valid-From Date	The valid-from date for the rate table	2011-01-01		
Valid-To Date	The valid-to date for the rate table	2099-12-31		
Aggreg. Rate Description	Aggregated rate description	Main Carriage		
Currency	A currency that is applicable for this rate table	USD		

- 28. On the *Dates and Values* tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 29. Choose *Insert* and maintain the following rates:

Source Location	Destination Location	Equipment Grouo	Value
OF-JPYOK	OF-USLGB	22G0	20
OF-JPYOK	OF-USLGB	42G0	20
OF-JPYOK	OF-USLGB	20G0	10
OF-JPYOK	OF-USLGB	22R1	35

30. Once you have entered your data, release the rate table by choosing ▶ Set Status ▶ Released ▶.

31. Save your entries.

10.2.2 Defining Rate Table: Main Carriage (FCL)

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Rate Tables ➤ Create Rate Table Definition ▶.
- 2. On the Create Rate Table Definition screen, create a new entry for the container unit.
- 3. On the *General Data* tab page, enter the following data:

Table 295

l able 295		
Field	Description	Value
Rate Table	Unique identifier for the rate table	OAF-RT-CN-TYPE
Description	Description of the table	Rate Table for Container Type
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.	ULF
Charge Category	This defaults from the charge type definition above.	012
Charge Subcategory	This defaults from the charge type definition above.	101021
Positive/Negative	This defaults from the charge type definition above.	Positive Value
Value	This defaults from the charge type definition above.	Absolute Value

4. On the Scales tab page, enter the following data:

Table 296

Field	Description	Value	
Scale Dimension Number	On 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 here for all carriers, which were defined above. This	1. OF-SCALE-EQU	

Field	Description	Value
	enables the entries in the rate table as in the sequence.	
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	1. EQUIP_TYPE
Minimum Value	Minimum value	Deselect
Maximum Value	Maximum value	Deselect
Rel. Calc. Method	Relative Calculation method	Deselect

5. On the *Dates and Values* tab page, enter the following data:

Table 297

Tubic 237		
Field	Description	Value
Valid-From Date	The date from which the rate table is valid	2011-01-01
Valid-To Date	The date to which the rate table is valid	2099-12-31
Aggreg. Rate Description	Aggregated rate description	Main Carriage
Currency	A currency that is applicable for this rate table	JPY

6. On the Dates and Values tab page, highlight the new row.

A new table appears in which you can enter the specific rates.

7. Choose *Insert* and enter the following rates:

Table 298

Source Location	Destination Location	Equipment Group	Value
OF-JPYOK	OF-USLGB	42G0	30000
OF-JPYOK	OF-USLGB	20G0	20000
OF-JPYOK	OF-USLGB	22R1	35000

- 8. Release the rate table by choosing ▶ Set Status ➤ Released ▶.
- 9. Save your entries.

10.2.3 Defining Rate Table: Truck Rate for Pickup (LTL)

Procedure

1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Rate Tables ➤ Create Rate Table Definition ■.

2. On the Create Rate Table screen, create the following entry:

Table 299			
Field	Description	Value	
General Data			
Rate Table	Unique identifier for the rate table	OAF-RATE-800	
Description	Description of the table	Truck Rate for Pickup	
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.	Service Provider	
Charge Type	This is where the charge type is linked for integration with SAP ERP.	FB00	
Charge Category	This defaults from the charge type definition above.	004	
Charge Subcategory	This defaults from the charge type definition above.	100000	
Positive/Negative	This defaults from the charge type definition above.	Positive Value	
Value	This defaults from the charge type definition above.	Absolute Value	
Scales			
Scale Dimension Number	On 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 here for all carriers, which were defined above. This enables the entries in the rate table as in the sequence.	1. OAF-SCALE-SOURCE-LOC 2. OAF-SCALE-DEST-LOC	
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	1. SOURCELOC 2. DESTLOC	
Minimum Value	Minimum value	Deselect	
Maximum Value	Maximum value	Deselect	
Rel. Calc. Method	Relative Calculation method	Deselect	
Dates and Values			

Field	Description	Value
Valid-From Date	The valid-from date for the rate table	2011-01-01
Valid-To Date	The valid-to date for the rate table	2099-12-31
Aggreg. Rate Description	Aggregated rate description	Pre-Carriage
Currency	A currency that is applicable for this rate table	JPY

- 3. On the *Dates and Values* tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 4. Choose *Insert*, and maintain the following rates:

Table 300

rable 500		
Source Location	Destination Location	Value
CUOAF-CU-01@ERP001	OAF-STA-JPTYO	5500
CUOAF-CU-02@ERP001	OAF-STA-JPTYO	5500
CUOAF-CU-03@ERP001	OAF-STA-JPTYO	5500
CUOAF-CU-04@ERP001	OAF-STA-JPTYO	5500
CUOAF-CU-01@ERP001	OAF-STA-JPNGO	5000
CUOAF-CU-02@ERP001	OAF-STA-JPNGO	5000
CUOAF-CU-03@ERP001	OAF-STA-JPNGO	5000
CUOAF-CU-04@ERP001	OAF-STA-JPNGO	5000

5. On the Calculation Rules tab page, select the following values:

Table 301

Field	Value
Calculation base	CHRG_WEIGHT
Application Level of Calculation Rule	Rate Table
Price Unit	100
Unit of Measure	KG

- 6. Release your rate table.
- 7. Save your entries.

10.2.4 Defining Rate Table: Truck Rate for Pickup (FTL)

Procedure

1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Rate Tables ➤ Create Rate Table Definition ■.

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2. On the Create Rate Table screen, enter the following data on the General Data tab page:

Table 302

Table 302			
Field	Description	Value	
Rate Table	Unique identifier for the rate table	OAF-RT-JP-TRUCKING	
Description	Description of the table	Rate Table for Trucking JP	
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.	PIO	
Charge Category	This defaults from the charge type definition above.	014	
Charge Subcategory	This defaults from the charge type definition above.	101000	
Positive/Negative	This defaults from the charge type definition above.	Positive Value	
Value	This defaults from the charge type definition above.	Absolute Value	

3. On the Scales tab page, enter the following data:

Table 303

Field	Description	Value
Scale Dimension Number	On 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
Reference Scale	Assign the scales here for all carriers, which were defined above. This enables the entries in the rate table as in the sequence.	 OAF-SCALE-ACT-DIST OAF-WEIGHT
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined sources of information based on the object.	1. ACTUAL_DIST 2. CHRG_WEIGHT
Minimum Value	Minimum value	 Deselect Select
Maximum Value	Maximum value	Deselect
Rel. Calc. Method	Relative calculation method	Deselect

4. On the *Dates and Values* tab page, highlight the new row.

A new table appears in which you can enter the specific rates.

5. Enter the following data:

Table 304

Field	Description	Value
Valid-From Date	The date from which the rate table is valid	2011-01-01
Valid-To Date	The date to which the rate table is valid	2099-12-31
Currency	A currency that is applicable for this rate table	JPY

6. In the *Rate* field, choose *Insert* and add the following rates:

Table 305

Actual Distance	Minimum Value	>= 0,1 TO (R)	>= 0,5 TO (R)	>= 1 TO (R)	>= 5 TO (R)
50	50	80	70	60	50
100	40	70	60	50	40
250	30	60	50	40	30
500	20	50	40	30	20
1000	10	40	30	20	10

7. On the Calculation Rules tab page, insert the following values:

Table 306

Field	Value
Calculation Base	ACTUAL_DIST
Application Level of Calculation Rule	Rate Table
Price Unit	1
Unit of Measure	км
Rounding Profile	0005

8. On the Calculation Rules tab page, insert the following values:

Table 307

Field	Value
Calculation Base	CHRG_WEIGHT
Application Level of Calculation Rule	Rate Table
Price Unit	1
Unit of Measure	TO
Rounding Profile	0005

9. Release and save your rate table.

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10.2.5 Defining Rate Table: Truck Rate for Pre-Carriage (FTL)

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose Master Data Charge Management and Service Product Catalogs > Rate Tables > Create Rate Table Definition \(\) .
- 2. On the Create Rate Table screen, create a new entry. Enter the following data:

Field	Description	Value
General Data		
Rate Table	Unique identifier for the rate table	OAF-RATE-801
Description	Description of the table	Truck Rate for Pre- Carriage (FTL)
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.	Service Provider
Charge Type	This is where the charge type is linked for integration with SAP ERP.	FB00
Charge Category	This defaults from the charge type definition above.	004
Charge Subcategory	This defaults from the charge type definition above.	100000
Positive/Negative	This defaults from the charge type definition above.	Positive Value
Value	This defaults from the charge type definition above.	Absolute Value
Scales		1
Scale Dimension Number	On 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 here for all carriers, which were defined above. This enables the entries in the rate table as in the sequence.	1. OAF-SCALE-SOURCE-LOC 2. OAF-SCALE-DEST-LOC
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined	1. SOURCELOC 2. DESTLOC

Field	Description	Value
	sources of information based on the	
	object.	
Minimum Value	Minimum value	Deselect
Maximum Value	Maximum value	Deselect
Rel. Calc. Method	Relative Calculation method	Deselect
Dates and Values		
Valid-From Date	The valid-from date for the rate table	2011-01-01
Valid-To Date	The valid-to date for the rate table	2099-12-31
Aggreg. Rate Description	Aggregated rate description	Pre-Carriage
Currency	A currency that is applicable for this rate table	JPY

- 3. On the *Dates and Values* tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 4. Choose *Insert*, and maintain the following rates:

Source Location	Destination Location	Value
OAF-STA-JPTYO	OF-CFS-JPYOK	200
OAF-STA-JPNGO	OF-CFS-JPYOK	180
CUOAF-CU-01@ERP001	OF-CFS-JPYOK	4000
CUOAF-CU-02@ERP001	OF-CFS-JPYOK	4150
CUOAF-CU-03@ERP001	OF-CFS-JPYOK	4400
CUOAF-CU-04@ERP001	OF-CFS-JPYOK	4250

5. On the Calculation Rules tab page, select the following values:

Field	Value
Calculation base	ACTUAL_DIST
Application Level of Calculation Rule	Rate Table
Price Unit	1
Unit of Measure	мі

- 6. Once you have entered your data, release the rate table by choosing ▶ Set Status ▶ Released ▶.
- 7. Save your entries.

10.2.6 Defining Rate Table: Truck Rate for On-Carriage (FTL)

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Rate Tables ➤ Create Rate Table Definition ▶.
- 2. On the Create Rate Table screen, create the following entry:

Field	Description	Value
General Data		
Rate Table	Unique identifier for the rate table	OAF-RATE-850
Description	Description of the table	Truck Rate for On-Carriage (FTL)
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.	Service Provider
Charge Type	This is where the charge type is linked for integration with SAP ERP.	FB00
Charge Category	This defaults from the charge type definition above.	004
Charge Subcategory	This defaults from the charge type definition above.	100000
Positive/Negative	This defaults from the charge type definition above.	Positive Value
Value	This defaults from the charge type definition above.	Absolute Value
Scales		
Scale Dimension Number	On 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 here for all carriers, which were defined above. This enables the entries in the rate table as in the sequence.	1. OAF-SCALE-SOURCE-LOC 2. OAF-SCALE-DEST-LOC
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined	1. SOURCELOC 2. DESTLOC

Field	Description	Value
	sources of information based on the object.	
Scale Type	None	For both scales, enter Same Scale (=) .
Minimum Value	Minimum value	Deselect
Maximum Value	Maximum value	Deselect
Rel. Calc. Method	Relative Calculation method	Deselect
Dates and Values		
Valid-From Date	The valid-from date for the rate table	2011-01-01
Valid-To Date	The valid-to date for the rate table	2099-12-31
Aggreg. Rate Description	Aggregated rate description	On-Carriage
Currency	A currency that is applicable for this rate table	USD

- 3. On the *Dates and Values* tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 4. Choose *Insert*, and maintain the following rates:

Source Location	Destination Location	Value
OF-CFS-USLAX	OAF-STA-USPHX	1.95
OF-CFS-USLAX	OAF-STA-USSAN	1.95
OF-CFS-USLAX	OAF-STA-USSFO	1.95

5. On the *Calculation Rules* tab page, select the following values:

Table 313		
Field	Value	
Calculation base	ACTUAL_DIST	
Application Level of Calculation Rule	Rate Table	
Price Unit	1	
Unit of Measure	мт	

- 6. Once you have entered your data, release the rate table by choosing ▶ Set Status ▶ Released ▶.
- 7. Save your entries.

10.2.7 Defining Rate Table: Truck Rate for Delivery (LTL)

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Rate Tables ➤ Create Rate Table Definition ▶.
- 2. On the Create Rate Table screen, create the following entry:

Table 314

Field	Description	Value
General Data		
Rate Table	Unique identifier for the rate table	OAF-RATE-851
Description	Description of the table	Truck Rate for Delivery (LTL)
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.	Service Provider
Charge Type	This is where the charge type is linked for integration with SAP ERP.	FB00
Charge Category	This defaults from the charge type definition above.	004
Charge Subcategory	This defaults from the charge type definition above.	100000
Positive/Negative	This defaults from the charge type definition above.	Positive Value
Value	This defaults from the charge type definition above.	Absolute Value
Scales		
Scale Dimension Number	On 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 here for all carriers, which were defined above. This enables the entries in the rate table as in the sequence.	1. OAF-SCALE-SOURCE-LOC 2. OAF-SCALE-DEST-LOC
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined	1. SOURCELOC 2. DESTLOC

Field	Description	Value
	sources of information based on the object.	
Scale Type	None	For both scales, enter Same Scale (=) .
Minimum Value	Minimum value	Deselect
Maximum Value	Maximum value	Deselect
Rel. Calc. Method	Relative Calculation method	Deselect
Dates and Values		
Valid-From Date	The valid-from date for the rate table	2011-01-01
Valid-To Date	The valid-to date for the rate table	2099-12-31
Aggreg. Rate Description	Aggregated rate description	On-Carriage
Currency	A currency that is applicable for this rate table	USD

- 3. On the *Dates and Values* tab page, highlight the newly created line. A new table appears below, where you can enter the specific rates.
- 4. Choose *Insert*, and maintain the following rates:

Source Location	Destination Location	Value
OAF-STA-USPHX	CUOAF-CO-01@ERP001	70
OAF-STA-USPHX	CUOAF-CO-02@ERP001	36
OAF-STA-USSAN	CUOAF-CO-03@ERP001	25
OAF-STA-USPHX	CUOAF-CO-04@ERP001	10

5. On the *Calculation Rules* tab page, select the following values:

Table 310		
	Field	Value
	Calculation base	CHRG_WEIGHT
	Application Level of Calculation Rule	Rate Table
	Price Unit	100
	Unit of Measure	KG

- 6. Once you have entered your data, release the rate table by choosing ▶ Set Status ➤ Released ▶.
- 7. Save your entries.

10.2.8 Defining Rate Table: Truck Rate for Delivery (FTL)

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Rate Tables ➤ Create Rate Table Definition ▶.
- 2. On the Create Rate Table screen, enter the following data on the General Data tab page:

Table 317

Table 31/	31/			
Field	Description	Value		
Rate Table	Unique identifier for the rate table	OAF-RT-US-TRUCKING		
Description	Description of the table	Rate Table for Trucking US		
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.	PIO		
Charge Category	This defaults from the charge type definition above.	014		
Charge Subcategory	This defaults from the charge type definition above.	101000		
Positive/Negative	This defaults from the charge type definition above.	Positive Value		
Value	This defaults from the charge type definition above.	Absolute Value		

3. On the Scales tab page, enter the following data:

Table 318

Field	Description	Value
Scale Dimension Number	On 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
Reference Scale	Assign the scales here for all carriers, which were defined above. This enables the entries in the rate table as in the sequence.	1. OAF-SCALE-ACT-DIST 2. OAF-WEIGHT
Calculation Base	This determines how the values are stored and determined for this dimension. There are predefined	1. ACTUAL_DIST 2. CHRG_WEIGHT

Field	Description	Value
	sources of information based on the object.	
Minimum Value	Minimum value	 Deselect Select
Maximum Value	Maximum value	Deselect
Rel. Calc. Method	Relative calculation method	Deselect

4. On the Dates and Values tab page, highlight the new row.

A new table appears in which you can enter the specific rates.

5. Enter the following data:

Table 319

Field	Description	Value
Valid-From Date	The date from which the rate table is valid	2011-01-01
Valid-To Date	The date to which the rate table is valid	2099-12-31
Currency	A currency that is applicable for this rate table	USD

6. In the *Rate* field, choose *Insert* and add the following rates:

Table 320

Table 320					
Actual Distance	Minimum Value	>= 0.1 TO (R)	>= 0.5 TO (R)	>= 1 TO (R)	>= 5 TO (R)
50	0.55	0.8	0.65	0.6	0.55
100	0.45	0.7	0.55	0.5	0.45
250	0.35	0.6	0.45	0.4	0.35
500	0.25	0.4	0.35	0.3	0.25
1000	0.15	0.3	0.25	0.2	0.15

7. On the Calculation Rules tab page, insert the following values:

Table 321

Field	Value
Calculation Base	ACTUAL_DIST
Application Level of Calculation Rule	Rate Table
Price Unit	1
Unit of Measure	KM
Rounding Profile	0005

8. On the Calculation Rules tab page, insert the following values:

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Field	Value
Calculation Base	CHRG_WEIGHT
Application Level of Calculation Rule	Rate Table
Price Unit	1
Unit of Measure	TO
Rounding Profile	0005

9. Release and save your rate table.

10.2.9 Defining Calculation Sheets: Main Carriage (LCL)

Within a freight order or forwarding order, the applicable charges are calculated on the basis of the calculation sheet.

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Calculation Sheets ➤ Create Calculation Sheet ▶
- 2. Choose Continue.
- 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 the *Basic Data* screen area:

Table 323

Field	Description	Value
Calculation Sheet	Unique identifier for the calculation sheet to be defined	OF-TCCS-CR-MAIN
Description	Description of the calculation sheet	Calculation sheet main carriage
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.	Service Provider

- 5. In the *Items* screen area, choose *▶ Insert ➤ Single Item* 1 to add a new line item.
- 6. Select the line for 20.

Enter data in the area at the bottom of the screen.

7. On the Basic Data tab page, enter the following data:

Field	Description	Value
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
Line No	Line number of the item	20
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
Stage Category	Stage category	M - Main Carriage
Shipping Type	Shipping type	2 LCL

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

Table 325

Field	Description	Value
Rate Table	Assigned rate table	OF-RATE-600
Currency	Unit of measure for quantitative rate amount	USD

- 9. In the *Items* screen area, choose *▶ Insert ▶ Single Item* 1 to add a new line item.
- 10. Select the line for 30.

Enter data in the area at the bottom of the screen.

11. On the Basic Data tab page, enter the following data:

Table 326

Field	Description	Value
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	Bunker Adjustment Factor
Charge Type	Assigned charge type	BAF
Line No	Line number of the item	30

Field	Description	Value
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
Stage Category	Stage category	M - Main Carriage
Shipping Type	Shipping type	Blank

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

Table 327

Field	Description	Value
Rate Table	Assigned rate table	OF-RATE-601
Currency	Unit of measure for quantitative amount	USD

- 13. In the *Items* screen area, choose *▶ Insert ▶ Single Item* 15 to add a new line item.
- 14. Select the line for 40.

Enter data in the area at the bottom of the screen.

15. On the Basic Data tab page, enter the following data:

Table 328

Field	Description	Value
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	Terminal Handling Charge Origin
Charge Type	Assigned charge type	THCO
Line No	Line number of the item	40
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
Stage Category	Stage category	M - Main Carriage
Shipping Type	Shipping type	Blank

16. On the Rate tab page, enter the following data:

Field	Description	Value
Rate Table	Assigned rate table	OF-RATE-602
Currency	Unit of measure for quantitative amount	USD

- 17. In the *Items* screen area, choose *▶ Insert ▶ Single Item* 1 to add a new line item.
- 18. Select the line for 50.

Enter data in the area at the bottom of the screen.

19. On the Basic Data tab page, enter the following data:

Table 330

Field	Description	Value
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	Terminal Handling Charge Destination
Charge Type	Assigned charge type	THCD
Line No	Line number of the item	50
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
Stage Category	Stage category	M - Main Carriage
Shipping Type	Shipping type	Blank

20. On the Rate tab page, enter the following data:

Table 331

Field	Description	Value
Rate Table	Assigned rate table	OF-RATE-603
Currency	Unit of measure for quantitative amount	USD

- 21. In the *Items* screen area, choose *▶ Insert ▶ Single Item* **3** to add a new line item.
- 22. Select the line for 60.

Enter data in the area at the bottom of the screen.

23. On the Basic Data tab page, enter the following data:

Table 332

Field	Description	Value
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	Peak Season Charge
Charge Type	Assigned charge type	PEAK
Line No	Line number of the item	60
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
Stage Category	Stage category	M - Main Carriage
Shipping Type	Shipping type	Blank

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

Table 333

Field	Description	Value
Rate Table	Assigned rate table	OF-RATE-604
Currency	Unit of measure for quantitative rate amount. Note that this value is not available from the input help ($\boxed{{\mathbb F}^4}$); you must enter it manually.	Q ₀
RefFrom Line No.	Reference from line number	20
RefTo Line Number	Reference to line number	20

- 25. In the *Items* screen area, choose *▶ Insert ▶ Single Item* **3** to add a new line item.
- 26. Select the line for 70.

Enter data in the area at the bottom of the screen.

27. On the Basic Data tab page, enter the following data:

Table 334

14510-00-1		
Field	Description	Value
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	Low Sulfur Surcharge
Charge Type	Assigned charge type	LSFS

Field	Description	Value
Line No	Line number of the item	70
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
Stage Category	Stage category	M - Main Carriage
Shipping Type	Shipping type	Blank

28. On the Rate tab page, enter the following data:

Table 335

Field	Description	Value
Rate Table	Assigned rate table	OF-RATE-605
Currency	Unit of measure of quantitative amount	USD

29. Save your entries.

10.2.10 Defining Calculation Sheets: Main Carriage (FCL)

Within a freight order or forwarding order, the applicable charges are calculated on the basis of the calculation sheet.

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Calculation Sheets ➤ Create Calculation Sheet ▶
- 2. Choose Continue.
- 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 the Basic Data screen area:

Table 336

Field	Description	Value
Calculation Sheet	Unique identifier for the calculation sheet to be defined	OF-TCCS-CR-MAIN-FCL
Description	Description of the calculation sheet	Calculation sheet main carriage FCL

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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.	Service Provider

- 5. In the *Items* screen area, choose *▶ Insert ▶ Single Item* 1 to add a new line item.
- 6. Select the line for 20.

Enter data in the area at the bottom of the screen.

7. On the Basic Data tab page, enter the following data:

Table 337

Field	Description	Value
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
Line No	Line number of the item	20
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
Shipping Type	Shipping type	Blank

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

Table 338

Field	Description	Value
Rate Table	Assigned rate table	OF-RATE-600
Currency	Unit of measure for quantitative rate amount	USD

- 9. In the *Items* screen area, choose *▶ Insert ▶ Single Item* 1 to add a new line item.
- 10. Select the line for 30.

Enter data in the area at the bottom of the screen.

11. On the Basic Data tab page, enter the following data:

Field	Description	Value
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	Bunker Adjustment Factor
Charge Type	Assigned charge type	BAF
Line No	Line number of the item	30
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
Stage Category	Stage category	M - Main Carriage
Shipping Type	Shipping type	Blank

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

Table 340

Field	Description	Value
Rate Table	Assigned rate table	OF-RATE-601
Currency	Unit of measure for quantitative amount	USD

- 13. In the *Items* screen area, choose *▶ Insert ▶ Single Item* ightharpoonup to add a new line item.
- 14. Select the line for 40.

Enter data in the area at the bottom of the screen.

15. On the Basic Data tab page, enter the following data:

Field	Description	Value
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	Terminal Handling Charge Origin
Charge Type	Assigned charge type	THCO
Line No	Line number of the item	40

Field	Description	Value
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
Stage Category	Stage category	M - Main Carriage
Shipping Type	Shipping type	Blank

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

Table 342

Field	Description	Value
Rate Table	Assigned rate table	OF-RATE-602
Currency	Unit of measure for quantitative amount	USD

- 17. In the *Items* screen area, choose *▶ Insert ▶ Single Item* 1 to add a new line item.
- 18. Select the line for 50.

Enter data in the area at the bottom of the screen.

19. On the Basic Data tab page, enter the following data:

Table 343

Field	Description	Value
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	Terminal Handling Charge Destination
Charge Type	Assigned charge type	THCD
Line No	Line number of the item	50
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
Stage Category	Stage category	M - Main Carriage
Shipping Type	Shipping type	Blank

20. On the Rate tab page, enter the following data:

Field	Description	Value
Rate Table	Assigned rate table	OF-RATE-603
Currency	Unit of measure for quantitative amount	USD

- 21. In the *Items* screen area, choose *▶ Insert ▶ Single Item* ightharpoonup to add a new line item.
- 22. Select the line for 60.

Enter data in the area at the bottom of the screen.

23. On the Basic Data tab page, enter the following data:

Table 345

Table 545		
Field	Description	Value
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	Peak Season Charge
Charge Type	Assigned charge type	PEAK
Line No	Line number of the item	60
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
Stage Category	Stage category	M - Main Carriage
Shipping Type	Shipping type	Blank

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

Table 346

Table 346		
Field	Description	Value
Rate Table	Assigned rate table	OF-RATE-604
Currency	Unit of measure for quantitative rate amount. Note that this value is not available from the input help ($\boxed{\text{F4}}$); you must enter it manually.	Q ₀
RefFrom Line No.	Reference from line number	20
RefTo Line Number	Reference to line number	20

- 25. In the *Items* screen area, choose *▶ Insert ▶ Single Item* 1 to add a new line item.
- 26. Select the line for 70.

Enter data in the area at the bottom of the screen.

27. On the Basic Data tab page, enter the following data:

Table 347

Field	Description	Value
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	Low Sulfur Surcharge
Charge Type	Assigned charge type	LSFS
Line No	Line number of the item	70
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
Stage Category	Stage category	M - Main Carriage
Shipping Type	Shipping type	Blank

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

Table 348

Field	Description	Value
Rate Table	Assigned rate table	OF-RATE-605
Currency	Unit of measure of quantitative amount	USD

29. Select the line for 80.

Enter data in the area at the bottom of the screen.

30. On the Basic Data tab page, enter the following data:

Table 349

Field	Description	Value
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	Charge for Container Unit
Charge Type	Assigned charge type	ULF
Line No	Line number of the item	80
Calculation Resolution Base	Indicates the level at which the calculation sheet is to be applied. For example, it can be applied at the	CONTAINER

Field	Description	Value
	header level for the whole freight order or at a particular stage only	
Calculation Method Type	Calculation method type	Standard
Stage Category	Stage category	M - Main Carriage
Shipping Type	Shipping type	Blank

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

Table 350

Field	Description	Value
Rate Table	Assigned rate table	OAF-RT-CN-TYPE
Currency	Unit of measure of quantitative amount	USD

32. Save your entries.

10.2.11 Defining Calculation Sheets: Pickup (LTL)

Within a freight order or forwarding order, the applicable charges are calculated on the basis of the calculation sheet.

Procedure

- 1. In SAP NetWeaver Business Client, choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Calculation Sheets ➤ Create Calculation Sheet ■
- 2. Choose Continue.
- 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 the *Basic Data* screen area:

Field	Description	Value
Calculation Sheet	Unique identifier for the calculation sheet to be defined	OAF-TCCS-CR-LTL-JP
Description	Description of the calculation sheet	Calculation sheet pickup
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.	Service Provider

- 5. In the *Items* screen area, choose *▶ Insert ▶ Single Item* 1 to add a new line item.
- 6. Select the line for 20.

Enter data in the area at the bottom of the screen.

7. On the Basic Data tab page, enter the following data:

Table 352

Field	Description	Value
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
Line No	Line number of the item	20
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	Blank
Calculation Method Type	Calculation method type	Standard
Dimensional Weight Profile	Dimensional weight profile	ZOAF_LAND3

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

Table 353

Table 333			
	Field	Description	Value
	Rate Table	Assigned rate table	OAF-RATE-800
	Currency	Unit of measure for quantitative amount	USD

9. Save your entries.

10.2.12 Defining Calculation Sheets: Pickup (FCL)

Within a freight order or forwarding order, the applicable charges are calculated on the basis of the calculation sheet.

Procedure

- 1. In SAP NetWeaver Business Client, choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Calculation Sheets ➤ Create Calculation Sheet ➤
- 2. Choose Continue.
- 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 the *Basic Data* screen area:

Table 354

Field	Description	Value
Calculation Sheet	Unique identifier for the calculation sheet to be defined	OAF-TCCS-CR-FCL-JP
Description	Description of the calculation sheet	Calculation sheet pickup
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.	Service Provider

- 5. In the *Items* screen area, choose *▶ Insert ▶ Single Item* 1 to add a new line item.
- 6. Select the line for 20.

Enter data in the area at the bottom of the screen.

7. On the Basic Data tab page, enter the following data:

Table 355

Field	Description	Value	
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	PIO	
Line No	Line number of the item	20	
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	Blank	
Calculation Method Type	Calculation method type	Standard	
Dimensional Weight Profile	Dimensional weight profile	ZOAF_LAND3	

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

Table 356

Table 300				
Field	Description	Value		
Rate Table	Assigned rate table OAF-RT-JP-TRUCKING			
Currency	Unit of measure for quantitative amount	USD		

9. Select the line for 30.

Enter data in the area at the bottom of the screen.

10. On the Basic Data tab page, enter the following data:

Table 357

DIE 337			
Description	Value		
Rule to indicate how the charge item is applied for the calculation	Standard		
Description of the charge item in the calculation sheet	Provisioning Basic Rate		
Assigned charge type	BASIC		
Line number of the item	30		
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	Blank		
Calculation method type	Standard		
Stage category	P - Pre-Carriage		
Dimensional weight profile	ZOAF_LAND3		
	Rule to indicate how the charge item is applied for the calculation Description of the charge item in the calculation sheet Assigned charge type Line number of the item 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 Calculation method type Stage category		

11. On the Rate tab page, enter the following data:

Table 358

Field	Description	Value
Rate Table	Assigned rate table	Blank
Currency	Unit of measure for quantitative amount	JPY
Amount	Amount	100000

12. Save your entries.

10.2.13 Defining Calculation Sheets: Pre-Carriage (FTL)

Within a freight order or forwarding order, the applicable charges are calculated on the basis of the calculation sheet.

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Calculation Sheets ➤ Create Calculation Sheet ▶
- 2. Choose Continue.
- 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 the *Basic Data* screen area:

Table 359

Field	Description	Value OAF-TCCS-CR-FTL-JP Calculation sheet pre-carriage	
Calculation Sheet	Unique identifier for the calculation sheet to be defined		
Description	Description of the calculation sheet		
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.	Service Provider	

- 5. In the *Items* screen area, choose *▶ Insert ➤ Single Item* ightharpoonup to add a new line item.
- 6. Select the line for 20.

Enter data in the area at the bottom of the screen.

7. On the Basic Data tab page, enter the following data:

Table 360

Field	Description	Value	
Instruction Type	Rule to indicate how the charge item is applied for the calculation	Standard Basic Freight	
Description	Description of the charge item in the calculation sheet		
Charge Type	Assigned charge type	FB00	
Line No	Line number of the item	20	
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	Blank	
Calculation Method Type	Calculation method type	Standard	
Stage Category	Stage category	P - Pre-Carriage	
Shipping Type	Shipping type	2 (LCL)	

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

Table 361

Field	Description	Value	
Rate Table	Assigned rate table	OAF-RATE-801	

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Field	Description	Value
Currency	Unit of measure for quantitative amount	USD

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

Table 362

Orientation	Destination Type	Destination Location	
То	Location OF-CFS-JP		

- 10. In the *Items* screen area, choose *▶ Insert ▶ Single Item* ightharpoonup to add a new line item.
- 11. Select the line for 30.

Enter data in the area at the bottom of the screen.

12. On the Basic Data tab page, enter the following data:

Table 363

Field	Description	Value	
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	Drayage	
Charge Type	Assigned charge type	FB00	
Line No	Line number of the item	30	
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	Blank	
Calculation Method Type	Calculation method type	Standard	
Stage Category	Stage category	P - Pre-Carriage	
Shipping Type	Shipping type	2 (LCL)	

13. On the Rate tab page, enter the following data:

Table 364

Tuble 30-		
Field	Description	Value
Amount	Fixed Amount for this charge item 20000	
Currency	Unit of measure for quantitative amount JPY	

14. On the *Preconditions* tab page under *Trade Lanes*, choose *Insert* and enter the following data:

Ori	entation	Source Type	Destination Type	Source Location	Destination Location
То			Location		OF-JPYOK

Orientation	Source Type	Destination Type	Source Location	Destination Location
From	Location		OF-CFS-JPYOK	

15. Save your entries.

10.2.14 Defining Calculation Sheets: Delivery (LTL)

Within a freight order or forwarding order, the applicable charges are calculated on the basis of the calculation sheet.

Procedure

- 2. Choose Continue.
- 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:

Table 366

Field	Description	Value
Calculation Sheet	Unique identifier for the calculation sheet that is to be defined	OAF-TCCS-CR-LTL-US
Description	Description of the calculation sheet	Calculation sheet delivery
Charge Usage	Indicates whether the calculation sheet is used for customers, vendors (carriers), both, or neither. Also indicates whether the calculation sheet is used only for decision making during tendering, and so on.	Service Provider

- 5. In *Items* screen area, choose *▶ Insert ≯ Single Item*
- 6. Select the line for 20.

Enter data in the area at 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

Field	Description	Value
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 header level for the whole freight order or at the level of a particular stage only.	Blank
Stage Category	Stage category	O - On Carriage
Calculation Method Type	Calculation method type	Standard

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

Table 368

Field	Description	Value
Rate Table	Assigned rate table	OAF-RATE-851
Currency	Unit of measure for the quantitative rate amount	USD

- 9. Save your entries.
- 10. In the *Items* screen area, choose *▶ Insert ▶ Single Item* 1 to add a new line item.
- 11. Select the line for 30.

Enter data in the area at the bottom of the screen.

12. On the Basic Data tab page, enter the following data:

Table 369

Field	Description	Value
Line No	Line number of the item	30
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	Fuel Surcharge
Charge Type	Assigned charge type	FUEL
Calculation Resolution Base	Indicates the level at which the calculation sheet is to be applied. For example, it can be applied at header level for the whole freight order or at the level of a particular stage only.	Blank
Stage Category	Stage category	O - On-Carriage
Calculation Method Type	Calculation method type	Standard

13. On the Rate tab page, enter the following data:

Field	Description	Value
Amount	Fixed amount for this charge item	10
Currency	Unit of measure for quantitative rate amount	8
RefFrom / -To Line No.	Reference to a base rate	20

14. Save your entries.

10.2.15 Defining Calculation Sheets: Delivery (FCL)

Within a freight order or forwarding order, the applicable charges are calculated on the basis of the calculation sheet.

Procedure

- 2. Choose Continue.
- 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:

Table 371

Field	Description	Value
Calculation Sheet	Unique identifier for the calculation sheet that is to be defined	OAF-TCCS-CR-FCL-US
Description	Description of the calculation sheet	Calculation sheet delivery FCL
Charge Usage	Indicates whether the calculation sheet is used for customers, vendors (carriers), both, or neither. Also indicates whether the calculation sheet is used only for decision making during tendering, and so on.	Service Provider

- 5. In *Items* screen area, choose Insert > Single Item to add a new line item.
- 6. Select the line for 20.

Enter data in the area at the bottom of the screen.

7. On the Basic Data tab page, enter the following data:

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Value 20
20
charge item is Standard
item in the Basic Freight
PIO
Blank applied. For dat header order or at age only.
O - On Carriage
Standard
r

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

Table 373

Field	Description	Value
Rate Table	Assigned rate table	OAF-RT-US-TRUCKING
Currency	Unit of measure for the quantitative rate amount	USD

- 9. Save your entries.
- 10. In the *Items* screen area, choose *▶ Insert ▶ Single Item* ightharpoonup to add a new line item.
- 11. Select the line for 30.

Enter data in the area at the bottom of the screen.

12. On the Basic Data tab page, enter the following data:

Table 374

Field	Description	Value
Line No	Line number of the item	30
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	Fuel Surcharge
Charge Type	Assigned charge type	FUEL
Calculation Resolution Base	Indicates the level at which the calculation sheet is to be applied. For example, it can be applied at header level for the whole freight order or at the level of a particular stage only.	Blank

Field	Description	Value
Stage Category	Stage category	O - On-Carriage
Calculation Method Type	Calculation method type	Standard

13. On the Rate tab page, enter the following data:

Table 375

Field	Description	Value
Amount	Fixed amount for this charge item	10
Currency	Unit of measure for quantitative rate amount	8
RefFrom / -To Line No.	Reference to a base rate	20

14. Save your entries.

10.2.16 Defining Calculation Sheets: On-Carriage (FTL)

Within a freight order or forwarding order, the applicable charges are calculated on the basis of the calculation sheet.

Procedure

- 1. In SAP NetWeaver Business Client (NWBC), choose ▶ Master Data ➤ Charge Management and Service Product Catalogs ➤ Calculation Sheets ➤ Create Calculation Sheet ▶.
- 2. Choose Continue.
- 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:

Table 376

Field	Description	Value
Calculation Sheet	Unique identifier for the calculation sheet to be defined	OAF-TCCS-CR-FTL-US
Description	Description of the calculation sheet	Calculation Sheet On- Carriage
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.	Service Provider

5. In the *Items* screen area, choose *▶ Insert ▶ Single Item* 1 to add a new line item.

6. Select the line for 20.

Enter data in the area at the bottom of the screen.

7. On the Basic Data tab page, enter the following data:

Table 377

able 577		
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
Shipping Type	Shipping type	2 (LCL)
Calculation Resolution Base	Indicates the level at which the calculation sheet is to be applied. For example, it can be applied at header level for the whole freight order or at the level of a particular stage only.	Blank
Stage Category	Stage category	O - On-Carriage
Calculation Method Type	Calculation method type	Standard

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

Table 378

Field	Description	Value
Rate Table	Assigned rate table	OAF-RATE-850
Currency	Quantitative rate amount Unit of Measure	USD

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

Table 379

Orientation	Source Type	Source Location
From	Location	OF-CFS-USLAX

- 10. Save your entries.
- 11. In the *Items* screen area, choose *Insert* Single Item to add a new line item.
- 12. Select the line for 30.

Enter data in the area at the bottom of the screen.

13. On the Basic Data tab page, enter the following data:

Field	Description	Value
Line No	Line number of the item	30

Field	Description	Value
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	Fuel Surcharge
Charge Type	Assigned charge type	FUEL
Shipping Type	Shipping type	2 (LCL)
Calculation Resolution Base	Indicates the level at which the calculation sheet is to be applied. For example, it can be applied at header level for the whole freight order or at the level of a particular stage only.	Blank
Stage Category	Stage category	O - On-Carriage
Calculation Method Type	Calculation method type	Standard

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

Table 381

Field	Description	Value
Amount	Fixed amount for this charge item	40
Currency	Unit of measure for quantitative rate amount	8
RefFrom / -To Line No.	Reference to a base rate	20

15. On the *Preconditions* tab page under *Trade Lanes*, choose *Insert* and enter the following data:

Table 382

Orientation	Source Type	Destination Type	Source Location	Destination Location
From	Location	Blank	OF-CFS-USLAX	Blank

- 16. Save your entries.
- 17. In the *Items* screen area, choose *▶ Insert ▶ Single Item* 1 to add a new line item.
- 18. Select the line for 40.

Enter your data in the area at the bottom of the screen.

19. On the Basic Data tab page, enter the following data:

Table 666		
Field	Description	Value
Line No	Line number of the item	40
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	Drayage

Field	Description	Value
Charge Type	Assigned charge type	FB00
Shipping Type	Shipping type	2 (LCL)
Calculation Resolution Base	Indicates the level at which the calculation sheet is to be applied. For example, it can be applied at header level for the whole freight order or at the level of a particular stage only.	Blank
Stage Category	Stage category	O - On-Carriage
Calculation Method Type	Calculation method type	Standard

20. On the Rate tab page, enter the following data:

Table 384

Field	Description	Value
Amount	Fixed amount for this charge item	2000
Currency	Unit of measure for quantitative rate amount	USD

21. On the *Preconditions* tab page under *Trade Lanes*, choose *Insert* and enter the following data:

Table 385

Orientation	Source Type	Destination Type	Source Location	Destination Location
From	Location	Blank	OF-USLGB	Blank
То	Blank	Location	Blank	OF-CFS-USLAX

22. Save your entries.

10.2.17 Defining Freight Agreement Types

Procedure

- 1. In Customizing for *Transportation Management*, choose ▶ *Master Data* ▶ *Agreements and Service Products* ▶ *Define Freight Agreement Types* ▶.
- 2. Choose New Entries.
- 3. Enter the following data:

14510 500		
Field	Description	Value
Туре	Freight agreement type	OF08
Short Desc .	Short description (free text)	OF: Freight Agreement
FA No. Range	Number range interval	03

- 4. Save your entries and ignore any warning messages.
- 5. Select freight agreement OF08 and choose Specify Preconditions.
- 6. Create new entry for precondition:
 - O MOT
 - O MOVEM TYPE
 - O SHIPMENT
 - O STAGE_CAT
- 7. Save your entries.

More Information

Defining Freight Agreements: Ocean Carrier [page 202]
Defining Freight Agreements: Trucking [page 204]

10.2.17.1 Defining Freight Agreements: Ocean Carrier

Freight agreements contain all of the information that you require to calculate freight charges.

Prerequisites

You have defined a freight agreement type.

Procedure

- 2. On the *New Freight Agreement* screen, enter the relevant freight agreement type in the *Agreement Type* field. For example, **oF08**.
- 3. Choose Continue.
- 4. Create an agreement for ocean carrier OF-CR-02. Enter the following data:

Table 387		
Field	Description	Value
Agreement	Agreement ID	OF-FA-CR-02
Description	Description of the freight agreement	OF Main CR-02
Purchasing Organization	Default purchasing organization	OF-FWH-03
Carrier	Carrier for which this freight agreement is to be defined	OAF-CR-02

Field	Description	Value
Valid From	Validity date range	2011-01-01
Valid To		2099-12-31
Agreement Priority	Priority of the agreement	5
Document currency	Agreement currency	USD

5. In the *Items* screen area, enter the following data by choosing ▶ *Insert* ➤ *Insert Product* ☑:

Table 388

Field	Description	Value
Item Hierarchy	Item hierarchy	Product
Item Number	Item number	100
Dimensional Weight Profile	Dimensional weight profile	Blank
Movement Type	Movement type	CFS to CFS
Calculation Sheet	Assign the calculation sheet once only. The details from this sheet are copied for each item.	OF-TCCS-CR-MAIN

6. On the Precondition tab page, select Item Precondition and enter the following data:

Table 389

MOVEM_TYPE	Movement type	СС
Precondition	Description	Movement Type

7. In the *Items* screen area, enter the following data by choosing Insert Insert Product ::

Table 390

Field	Description	Value
Item Number	Item number	200
Calculation Sheet	Assign the calculation sheet once only. The details from this sheet are copied for each item.	OF-TCCS-CR-MAIN-FCL
Dimensional Weight Profile	Dimensional weight profile	Blank
Movement Type	Movement type	Port to Port

8. On the *Precondition* tab page, select *Item Precondition* and enter the following data:

MOVEM TYPE Movement type PP	
Precondition Description Movement Type	pe

- 9. Once you have entered your data, release the freight agreement by choosing ▶ Set Status ➤ Released ▶.
- 10. Choose Save.
- 11. Create another freight agreement for ocean carrier $\mathtt{OF-CR-01}$. Enter the following data:

Field	Description	Value
Agreement	Agreement ID	OF-FA-CR-01
Description	Description of the freight agreement	OF Main CR-01
Purchasing Organization	Default purchasing organization	OF-FWH-03
Carrier	Carrier for which this freight agreement is to be defined	OAF-CR-01
Valid From	Validity date range	2011-01-01
Valid To		2099-12-31
Agreement Priority	Priority of the agreement	5
Document currency	Agreement currency	USD

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

Table 393

Field	Description	Value
Item Number	Item number	100
Dimensional Weight Profile	Dimensional weight profile	
Stage Category	Stage category type P: pre-carriage M: Main carriage O: On-carriage	Main Carriage
Calculation Sheet	Assign the calculation sheet once only. The details from this sheet are copied for each item.	OF-TCCS-CR-MAIN

- 13. Once you have entered your data, release the freight agreement by choosing ▶ Set Status ➤ Released ▶.
- 14. Choose Save.

10.2.17.2 Defining Freight Agreements: Trucking

Freight agreements contain all of the information that you require to calculate freight charges.

You need to maintain the freight agreements for all your carriers (truckers) and for both stage types LTL and FTL. This procedure defines freight agreements for the carriers in Japan and the United States.

The procedure maintains the following forwarding house (purchasing organization) and carrier combinations:

Purchasing Org.	Carrier	Туре	Agreement ID
OAF-FWH-05	OAF-CR-03	LTL/FTL Pickup	OF-FA-CR-03-01
OAF-FWH-01	OAF-CR-04	LTL Pickup	OF-FA-CR-04-01

Purchasing Org.	Carrier	Туре	Agreement ID
OF-FWH-03	OAF-CR-03	FTL Pre-carriage	OF-FA-CR-03
OF-FWH-03	OAF-CR-04	FTL Pre-carriage	OF-FA-CR-04
OF-FWH-20	OAF-CR-05	FTL On-carriage	OF-FA-CR-05
OF-FWH-20	OAF-CR-06	FTL On-carriage	OF-FA-CR-06
OAF-FWH-22	OAF-CR-05	LTL Delivery	OF-FA-CR-05-01
OAF-FWH-21	OAF-CR-06	LTL/FTL Delivery	OF-FA-CR-06-01

Prerequisites

You have defined a freight agreement type.

Procedure

- 2. On the *New Freight Agreement* screen, enter the relevant freight agreement type in the *Agreement Type* field. For example, **oF08**.
- 3. Choose Continue.
- 4. Create an FTL agreement. Enter the following data:

Table 395

Field	Description	Value
Agreement	Agreement ID	OF-FA-CR-03
Description	Description of the freight agreement	OF FTL Japan
Purchasing Organization	Default purchasing organization	OF-FWH-03
Carrier	Carrier for which this freight agreement is to be defined	OAF-CR-03
Valid From	Validity date range	2011-01-01
Valid To		2099-12-31
Agreement Priority	Priority of the agreement	5
Document currency	Agreement currency	JPY

5. In the *Items* screen area, enter the following data by choosing *▶ Insert ▶ Insert Product ■*:

Field	Description	Value
Item Number	Item number	100

Field	Description	Value
Dimensional Weight Profile	Dimensional weight profile	ZOAF_LAND3
Calculation Sheet	Assign the calculation sheet once only. The details from this sheet are copied for each item.	OAF-TCCS-CR-FTL-JP

- 6. Once you have entered your data, release the freight agreement by choosing ▶ Set Status ➤ Released ▶.
- 7. Choose Save.
- 8. Create another freight agreement for the FTL stage type. Enter the following data:

Table 397		
Field	Description	Value
Agreement	Agreement ID	OF-FA-CR-04
Description	Description of the freight agreement	OF FTL Japan
Purchasing Organization	Default purchasing organization	OF-FWH-03
Carrier	Carrier for which this freight agreement is to be defined	OAF-CR-04
Valid From	Validity date range	2011-01-01
Valid To		2099-12-31
Agreement Priority	Priority of the agreement	5
Document currency	Agreement currency	JPY

9. In the *Items* screen area, enter the following data by choosing *▶ Insert ▶ Insert Product ■*:

Table 398

Field	Description	Value
Item Number	Item number	100
Calculation Sheet	Assign the calculation sheet once only. The details from this sheet are copied for each item.	OAF-TCCS-CR-FTL-JP
Dimensional Weight Profile	Dimensional weight profile	ZOAF_LAND3

- 10. Once you have entered your data, release the freight agreement by choosing ▶ Set Status ▶ Released ▶.
- 11. Choose Save.
- 12. Create another freight agreement for the FTL stage type. Enter the following data:

Table 399

Field	Description	Value
Agreement	Agreement ID	OF-FA-CR-05
Description	Description of the freight agreement	OF FTL USA
Purchasing Organization	Default purchasing organization	OF-FWH-20

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Field	Description	Value
Carrier	Carrier for which this freight agreement is to be defined	OAF-CR-05
Valid From	Validity date range	2011-01-01
Valid To		2099-12-31
Agreement Priority	Priority of the agreement	5
Document currency	Agreement currency	USD

13. In the *Items* screen area, enter the following data by choosing ▶ *Insert* ➤ *Insert Product* ☑:

Table 400

Field	Description	Value
Item Number	Item number	100
Calculation Sheet	Assign the calculation sheet once only. The details from this sheet are copied for each item.	OAF-TCCS-CR-FTL-US
Dimensional Weight Profile	Dimensional weight profile	ZOAF_LAND3

- 14. Once you have entered your data, release the freight agreement by choosing ▶ Set Status ➤ Released ▶.
- 15. Choose Save.
- 16. Create another freight agreement for the FTL stage type. Enter the following data:

Table 401

TUDIC TOI		
Field	Description	Value
Agreement	Agreement ID	OF-FA-CR-06
Description	Description of the freight agreement	OF FTL USA
Purchasing Organization	Default purchasing organization	OF-FWH-20
Carrier	Carrier for which this freight agreement is to be defined	OAF-CR-06
Valid From	Validity date range	2011-01-01
Valid To		2099-12-31
Agreement Priority	Priority of the agreement	5
Document currency	Agreement currency	USD

17. In the *Items* screen area, enter the following data by choosing ▶ *Insert* ➤ *Insert Product* ☑:

Field	Description	Value
Item Number	Item number	100
Calculation Sheet	Assign the calculation sheet once only. The details from this sheet are copied for each item.	OAF-TCCS-CR-FTL-US

Field	Description	Value
Dimensional Weight Profile	Dimensional weight profile	ZOAF_LAND3

- 18. Once you have entered your data, release the freight agreement by choosing ▶ Set Status ➤ Released ▶.
- 19. Choose Save.
- 20. Create another freight agreement for the LTL stage type. Enter the following data:

Table 405		
Field	Description	Value
Agreement	Agreement ID	OF-FA-CR-03-01
Description	Description of the freight agreement	OF LTL/FTL Japan
Purchasing Organization	Default purchasing organization	OAF-FWH-05
Carrier	Carrier for which this freight agreement is to be defined	OAF-CR-03
Valid From	Validity date range	2011-01-01
Valid To		2099-12-31
Agreement Priority	Priority of the agreement	5
Document currency	Agreement currency	JPY

21. In the *Items* screen area, enter the following data by choosing Insert Insert Product ::

Table 404

Field	Description	Value
Item Number	Item number	100
Calculation Sheet	Assign the calculation sheet once only. The details from this sheet are copied for each item.	OAF-TCCS-CR-LTL-JP
Dimensional Weight Profile	Dimensional weight profile	ZOAF_LAND3

22. On the *Precondition* tab page, select *Item Precondition* and enter the following data:

Table 405

Precondition	Description	Shipping Type
SHIPMENT	Shipping Type	LTL (Less Than Truck Load)

23. In the *Items* screen area, enter the following data by choosing *Insert Insert Inser*

Field	Description	Value
Item Number	Item number	200
Calculation Sheet	Assign the calculation sheet once only. The details from this sheet are copied for each item.	OAF-TCCS-CR-FCL-JP
Dimensional Weight Profile	Dimensional weight profile	ZOAF_LAND3

24. On the *Precondition* tab page, select *Item Precondition* and enter the following data:

Table 407

Precondition	Description	Shipping Type
SHIPMENT	Shipping Type	FTL (Full Truck Load)

- 25. Once you have entered your data, release the freight agreement by choosing Set Status Released .
- 26. Choose Save.
- 27. Create another freight agreement for the LTL stage type. Enter the following data:

Table 408

Table 400		
Field	Description	Value
Agreement	Agreement ID	OF-FA-CR-04-01
Description	Description of the freight agreement	OF LTL Japan
Purchasing Organization	Default purchasing organization	OAF-FWH-01
Carrier	Carrier for which this freight agreement is to be defined	OAF-CR-04
Valid From	Validity date range	2011-01-01
Valid To		2099-12-31
Agreement Priority	Priority of the agreement	5
Document currency	Agreement currency	JPY

28. In the *Items* screen area, enter the following data by choosing ▶ *Insert* ➤ *Insert Product* ਡ:

Table 409

Field	Description	Value
Item Number	Item number	100
Calculation Sheet	Assign the calculation sheet once only. The details from this sheet are copied for each item.	OAF-TCCS-CR-LTL-JP
Dimensional Weight Profile	Dimensional weight profile	ZOAF_LAND3

- 29. Once you have entered your data, release the freight agreement by choosing Set Status Released.
- 30. Choose Save.
- 31. Create another freight agreement for the LTL/FTL stage types using the following data:

Table 410

Table 410		
Field	Description	Value
Agreement	Agreement ID	OF-FA-CR-05-01
Description	Description of the freight agreement	OF LTL USA
Purchasing Organization	Default purchasing organization	OAF-FWH-22
Carrier	Carrier for which this freight agreement is to be defined	OAF-CR-05

Field	Description	Value
Valid From	Validity date range	2011-01-01
Valid To		2099-12-31
Agreement Priority	Priority of the agreement	5
Document currency	Agreement currency	USD

32. In the *Items* screen area, enter the following data by choosing ▶ *Insert* ➤ *Insert Product* ☑:

Table 411

Field	Description	Value
Item Number	Item number	100
Calculation Sheet	Assign the calculation sheet once only. The details from this sheet are copied for each item.	OAF-TCCS-CR-LTL-US
Dimensional Weight Profile	Dimensional weight profile	ZOAF_LAND3

Note that you can either insert a an item or item service product.

- 33. Once you have entered your data, release the freight agreement by choosing Set Status Released.
- 34. Choose Save.
- 35. Create another freight agreement for the LTL/FTL stage types using the following data:

Table 412

Table 412		
Field	Description	Value
Agreement	Agreement ID	OF-FA-CR-06-01
Description	Description of the freight agreement	OF LTL/FTL USA
Purchasing Organization	Default purchasing organization	OAF-FWH-21
Carrier	Carrier for which this freight agreement is to be defined	OAF-CR-06
Valid From	Validity date range	2011-01-01
Valid To		2099-12-31
Agreement Priority	Priority of the agreement	5
Document currency	Agreement currency	USD

36. In the *Items* screen area, enter the following data by choosing ▶ *Insert* ➤ *Insert Product* ☑:

TUDIC TIO		
Field	Description	Value
Item Number	Item number	100
Calculation Sheet	Assign the calculation sheet once only. The details from this sheet are copied for each item.	OAF-TCCS-CR-LTL-US

Field	Description	Value
Dimensional Weight Profile	Dimensional weight profile	ZOAF_LAND3

Note that you can either insert a an item or item service product.

37. On the *Precondition* tab page, select *Item Precondition* and enter the following data:

Table 414

Precondition	Description	Shipping Type
SHIPMENT	Shipping Type	LTL (Less Than Truck Load)

38. In the *Items* screen area, enter the following data by choosing **▶** *Insert* **>** *Insert* **Product ≥**:

Table 415

Field	Description	Value
Item Number	Item number	200
Calculation Sheet	Assign the calculation sheet once only. The details from this sheet are copied for each item.	OAF-TCCS-CR-FCL-US
Dimensional Weight Profile	Dimensional weight profile	ZOAF_LAND3

39. On the *Precondition* tab page, select *Item Precondition* and enter the following data:

Table 416

Precondition	Description	Shipping Type
SHIPMENT	Shipping Type	FTL (Full Truck Load)

- 40. Once you have entered your data, release the freight agreement by choosing Set Status Released .
- 41. Choose Save.

10.2.18 Defining Freight Settlement Document Types

If you have already completed the Defining Freight Order Types [page 43] section, the information given in this section may already be complete.

Procedure

- 1. In Customizing for Transportation Management , choose ▶ Settlement ➤ Freight Settlement ➤ Define Freight Settlement Types ▶.
- 2. Choose New Entries.
- 3. Enter the following data:

Field	Value
FSD Type	OF06

Field	Value
Description	OF: Carrier Settlement Document
FSD Category	10
Bus. Warehouse	Select
No. Range Interval	01
Output Profile	/SCMTMS/TOR_INV_PREP
Add. Output Profile	/SCMTMS/SFIR_PRINT
Dynamic Determination of Output Profile	Deselect

4. Save your entries.

1 Note

If required, you can return to the Defining Freight Order Types [page 43] section to continue.

11 Configuration Settings for Invoice Integration

Use this process to make configuration settings in SAP ERP that enable you to integrate invoice processing in SAP ERP with SAP Transportation Management (SAP TM).

The process requires the following procedures:

- Invoice integration [page 213]
- Defining default account assignment of cost element [page 215]
- Assigning organizational units for purchasing [page 217]

11.1 Invoice Integration

The following documents can be transferred to SAP ERP: Freight settlement document (FSD), and Forwarding settlement document (FWSD).

Message Flow Invoice Integration

Forwarding Settlement Requests and Customer Invoices

Message	Description
Customer Freight Invoice Request SUITE Request_Out_V1	Send create/change requests for forwarding settlements from TM
Customer Freight Invoice Request SUITE Request_In_V1	Receive create/change requests for customer invoices in ERP
Customer Freight Invoice Request SUITE Confirmation_Out_V1	Send confirmations for customer invoices from ERP
Customer Freight Invoice Request SUITE Confirmation_In_V1	Receive confirmations for forwarding settlements in TM
Customer Freight Invoice Request SUITE Cancellation Request_Out_V1	Send cancel requests for forwarding settlements from TM
Customer Freight Invoice Request SUITE Cancellation Request_In_V1	Receive cancel requests for customer invoices in ERP

Freight Settlement Requests and Supplier Invoices

Table 419

Message	Description
TransportationOrderSUITE InvoicingPreparationRequest_Out	Send create/change requests for freight settlements from TM
TransportationOrderSUITE InvoicingPreparationRequest_In	Receive create/change requests for supplier invoices in ERP
TransportationOrderSUITE InvoicingPreparationConfirmation_Out	Send confirmations for supplier invoices from ERP
TransportationOrderSUITE InvoicingPreparationConfirmation_In	Receive confirmations for freight settlements in TM
TransportationOrderSUITE InvoicingPreparationCancellationRequest_Ou t	Send cancel requests for freight settlements from TM
TransportationOrderSUITE InvoicingPreparationCancellationRequest_In	Receive cancel requests for supplier invoices in ERP

Invoice Notifications

Table 420

Message	Description
InvoiceNotification_Out	Send invoice notification from ERP
InvoiceNotification_In	Receive invoice notifications in TM

Activities

In SAP ERP, you maintain the customizing entries for Invoice Integration under Integration with Other SAP.com Components Transportation Management Invoice Integration Invoice Inv

Billing

To integrate FWSD – SD billing document, maintain the following entries:

- The definition of charge elements from SAP TM with the necessary category codes, subcategory codes, and charge types (*Definition for Transportation Charge Elements*)
- There are role codes to be maintained for TM currency and amount (*Definition of Transportation Management Role Codes*)
- Mapping TM charge elements to condition types in SAP ERP (Assignment of Transportation Charge Elements)
- Mapping the TM sales organization/sales group to ERP sales organization, type, and document type (Mapping of Organizational Units)

Invoicing

To integrate FSD – Service PO/SES documents, maintain the following entries:

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- The definition of charge elements from TM with the necessary category codes, subcategory codes, and charge types (*Definition for Transportation Charge Elements*).
- There are role codes to be maintained for TM currency and amount (*Definition of Transportation Management Role Codes*)
- Mapping TM charge elements and types to services and account assignment category in SAP ERP
 (Assignment of Transportation Charge Elements Assign Service Master Record and Account Assignment Category)
 Category)
- Mapping the TM purchasing organization/group to ERP purchasing organization, group, plant, company code, and purchase order document type (*Mapping of Organizational Units*)

11.2 Defining Default Account Assignment of Cost Element

Procedure

- 2. Create a new entry with the following data:

Table 421

Field	Value
Company Code	3000
Cost Element	417000
Cost Center	9010

i Note

Check that the cost element is created in ERP for the assigned Controlling Area (in this scenario, this is CO Area 2000).

If the cost element is not created in the Controlling Area, you need to create the cost element in the SAP ERP system using transaction KA01.

Basic settings for invoice integration in the SAP ERP System are described in the ERP Basic Settings Configuration Guide .

11.3 Configuring Automatic Posting for Account Determination

Procedure

1. In the SAP ERP system, in Customizing for Materials Management, choose *Valuation and Account Assignment Account Determination Account Determination Without Wizard Configure Automatic Postings*.

- 2. Choose Cancel, and then Account Assignment.
- 3. Double-click the line Offsetting entry for inventory posting GBB , enter CAJP for Chart of Accounts . Choose OK .
- 4. Choose New entry and enter the following data:

Valuation modification	General modification	Valuation class	Debit	Credit
0001	VBR	3200	823510	823510

5. Save your entries.

11.4 Deactivating Profitability Analysis for Controlling Area 5000

Procedure

- 1. In the SAP ERP system, in Customizing for Controlling , choose ▶ Controlling ➤ Profitability Analysis ➤ Flows of Actual Values ➤ Activate Profitability Analysis ▶.
- 2. Change the Active Status for controlling area 5000 to blank.
- 3. Save your entries.

11.5 Unlocking Revenues for Cost Center

Procedure

- 1. In the SAP ERP system, in Customizing for Enterprise Structure , choose ▶ Definition ➤ Controlling ➤ Create Cost Centers ▶.
- 2. Select Change Cost Center.
- 3. Select cost center 5100 in controlling area 5000.
- 4. Navigate to the Control tab page.
- 5. Deselect Actual revenues and Plan revenues.
- 6. Save your entries.

11.6 Assigning Cost Center to Cost Element

Procedure

1. In the SAP ERP system in the user menu, choose Accounting Controlling Cost Element Accounting Master Data Cost Element Individual Processing KA02 - Change .

- 2. Select cost element 811100.
- 3. Navigate to the Default Acct. Assignment tab page.
- 4. Enter Cost Center 5100.
- 5. Save your entries.

11.7 Assigning Organizational Units for Purchasing

Procedure

- 1. In the SAP ERP system, navigate to Customizing and choose ▶ Integration with Other SAP Components ➤ Transportation Management ➤ Invoice Integration ➤ Invoicing ➤ Mapping of Organizational Units ➤ Assign Organization Units for Purchasing ▶.
- 2. Check that mapping has been set up between SAP ERP and the organizational units in SAP TM. If not, create the entries below. Make sure that you use the 8-digit organizational ID that was generated in the sections above for each purchasing organization in SAP TM.
- 3. Enter the data in the table below for the following SAP TM purchasing organizations:
 - O OAF-COMP-JP
 - OAF-FWH-01
 - o OF-FWH-03
 - O OAF-FWH-04
 - OAF-FWH-05

Field	Value
Logical System	<le><logical name="" of="" system="" tm="" your=""></logical></le>
TM Purchasing Org.	<pre><automatically 8-digit="" generated="" id="" organizational=""></automatically></pre>
TM Purchasing group	Blank
Settlement Type	OF06
Purchasing Org.	5000
Purchasing Group	003
Plant	5000
Company Code	5000
Doc.Type	NB
Material Group	24000000

- 4. Enter the data in the table below for the following purchasing organizations:
 - OAF-COMP-US
 - o OF-FWH-20

- OAF-FWH-21
- OAF-FWH-22
- OAF-FWH-25

Field	Value
Logical System	<led><logical name="" of="" system="" tm="" your=""></logical></led>
TM Purchasing Org.	<pre><automatically 8-digit="" generated="" id="" organizational=""></automatically></pre>
TM Purchasing group	Blank
Settlement Type	OF06
Purchasing Org.	3000
Purchasing Group	003
Plant	3000
Company Code	3000
Doc. Type	NB
Material Group	24000000

- 5. Save your entries.
- 6. Repeat the above steps for settlement document type ${\tt OF09}$.

12 Defining Configuration Settings for Billing Integration

Procedure

Defining Condition Types

- 1. In Customizing for SAP ERP, choose ► Sales and Distribution ➤ Basic Functions ➤ Pricing ➤ Pricing Control ➤ Define Condition Types ■.
- 2. Choose Maintain Condition Types.
- 3. Check that the following condition types exist and have the following values:

Cond. Type	Description	Cond. Class	Calculat. Type	Plus / Minus	Item condition	Delete	Value
Z010	OF: Ocean Freight	A	В	Positive	x	x	x
Z011	OF: B/L Fix Fee	A	В	Positive	х	х	x
Z012	OF: CAF	A	В	Positive	x	x	x
Z013	OF: BAF	A	В	Positive	x	x	x
Z014	OF: Piracy Risk Sur	A	В	Positive	х	х	х
Z015	OF: EBAF	A	В	Positive	x	x	x
Z016	OF: IPSD	A	В	Positive	x	x	х
Z017	OF: THCD	A	В	Positive	x	x	x
Z018	OF: Land Pre-Carriage	A	В	Positive	х	х	х
Z019	OF: Fuel Surcharge	A	В	Positive	х	х	х
Z020	OF: Toll Fee Fix	A	В	Positive	х	х	х
Z021	OF: Land On- Carriage	A	В	Positive	х	х	х
Z022	OF: AMS Fee	A	В	Positive	x	х	x
Z023	OF: THCO	A	В	Positive	x	x	x

Defining Pricing

- 1. In Customizing for SAP ERP, choose ► Sales and Distribution ➤ Basic Functions ➤ Pricing ➤ Pricing Control ➤ Define And Assign Pricing Procedures ■.
- 2. Choose Maintain Pricing Procedures.
- 3. Create a new entry with the code ZVA001 and description OF: Standard.
- 4. Select the newly created entry ZVA001 and choose Control Data in the navigation tree.
- 5. Create new entries with the following data:

Table 426

Step	Condition Type	Account Key
1	Z010	ERL
2	Z011	ERL
3	Z012	ERL
4	Z013	ERL
5	Z014	ERL
6	Z015	ERL
7	Z016	ERL
8	Z017	ERL
9	Z018	ERL
10	Z019	ERL
11	Z020	ERL
12	Z021	ERL
13	Z022	ERL
900	PR00 Price	Not relevant

Assign Pricing

- 1. In Customizing for SAP ERP, choose ► Sales and Distribution ➤ Basic Functions ➤ Pricing ➤ Pricing Control ➤ Define And Assign Pricing Procedures
- $2. \quad \hbox{Choose Define Pricing Procedure Determination} \; .$
- 3. Check the existing entries in the SAP ERP system and refer to the *Basic ERP Configuration Guide*. If the following entries do not exist, create new entries with the following data:

Table 427

Table 427	
Field	Entry
Sales Organization	3000
Distribution Channel	01
Division	00 and 01
Document Procedure (DoPr)	A

Field	Entry
Pricing Procedure	ZVA001

Field	Entry
Sales Organization	5000
Distribution Channel	10
Division	00
Document Procedure (DoPr)	A
Pricing Procedure	ZVA001

13 Setting Up Mapping Rules Between SAP TM and SAP ERP

Procedure

Assign Condition Types

- 1. In Customizing for SAP ERP, choose I▶ Integration with Other SAP Components ▶ Transportation Management ▶ Invoice Integration ▶ Billing ▶ Assignment of Transportation Charge Elements ▶ Assign Condition Types ■
- 2. Enter the following data:

Table 429

Category Code	Subcategory Code	Charge Type	Condition Type
003	101021	BSF	Z010
002	104000	BLAD	2011
012	103009	CAF	Z012
012	103001	BAF	z013
012	103009	PRS	2014
002	103001	EBAF	Z015
002	104012	IPSD	2016
007	104007	THCD	2017
010	104007	THCO	z023
014	100000	PRE	Z018
003	103008	FUEL	2019
002	104000	AMS	z022
002	104000	TOLL	Z020
014	100000	ON	Z021

Assign Organizational Units

- 1. In Customizing for SAP ERP, choose ▶ Integration with Other SAP Components ➤ Transportation

 Management ➤ Invoice Integration ➤ Billing ➤ Mapping of Organizational Units ➤ Assign Organizational Units

 for Sales and Distribution ■.
- 2. Enter the following data:

1	a	b	е	4	3	C

Logical System <tm1clnt001> <tm1clnt001> <tm1clnt001></tm1clnt001></tm1clnt001></tm1clnt001>	<tm1clnt001></tm1clnt001>
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See Note 1.				
TM Sales Org See Note 2.	<org for="" id="" oaf-fwh-01=""></org>	<org for="" id="" oaf-fwh-05=""></org>	<org for="" id="" oaf-fwh-03=""></org>	<org for="" id="" oaf-fwh-04=""></org>
Sales Org	5000	5000	5000	5000
Distr. Channel	10	10	10	10
Division	00	00	00	00
Procedure	ZVA001	ZVA001	ZVA001	ZVA001
Billing Type	FX	FX	FX	FX
Sales Doc. Type	AA	AA	AA	AA
Item Cat	DLN	DLN	DLN	DLN
Nr. Int. Ass.	01	01	01	01

Table 431

Logical System See Note 1.	<tm1clnt001></tm1clnt001>	<tm1clnt001></tm1clnt001>	<tm1clnt001></tm1clnt001>	<tm1clnt001></tm1clnt001>
TM Sales Org See Note 2.	<org for="" id="" oaf-fwh-20=""></org>	<org for="" id="" oaf-fwh-21=""></org>	<org for="" id="" oaf-fwh-22=""></org>	<org for="" id="" oaf-fwh-25=""></org>
Sales Org	3000	3000	3000	3000
Distr. Channel	10	10	10	10
Division	00	00	00	00
Procedure	ZVA001	ZVA001	ZVA001	ZVA001
Billing Type See Note 3.	FX	FX	FX	FX
Sales Doc. Type	AA	AA	AA	AA
Item Cat	DLN	DLN	DLN	DLN
Nr. Int. Ass.	01	01	01	01

1 Note

- 1. Replace the logical system name given here with the logical system name of your SAP TM system.
- 2. Enter the internal organizational ID numbers for the stations and gateways that were defined in SAP TM (that is, not organizational names such as OAF-FWH-05). For more information, see Creating Forwarding Houses [page 63].
- 3. Call transaction FBN1 and check whether the validity of number range 01 (for company code 5000) has been extended to include the current year. Otherwise, create a new entry.
- 4. You can block billing documents from being automatically transferred to accounting within SAP ERP systems by selecting the *Posting Block* checkbox in Customizing for billing types. We recommend that

you deselect this checkbox according to your business process so that you do not have to transfer and process the documents manually.

14 Troubleshooting

Problem

What can I do if I cannot create purchase orders in ERP because the posting period is not open for company code 5000?

Solution

The standard procedure to open the current period for posting is by using transaction MMPV. In rare cases it can happen that the last open period was a number years ago, and closing all intermediate periods is time consuming. In this case, you can reset the posting period with the instructions provided in SAP Note 487381 / - RMMMINIT: Protection against unintentional execution.



Caution

This is absolutely not recommended in a productive system.

You may also have to specify the time intervals for posting periods. Run transaction OB52 and make sure that for all entries for company codes 3000 and 5000 the "to period" year is set to the current year.

Problem

There is an error message in transaction MIRO when monitoring invoice verification for company code 3000:

In Company code 3000, the number range 51 is missing for the year 2011.

Solution

You should maintain a number range in transaction FBN1 for interval range 51 and company code 3000 for the current year.

Problem

When sending the Forwarding Settlement Document to ERP, the inbound processing fails with the error messages:

According to status, sales order item xxxxxxx cannot be invoiced and

Assign condition type xxxx in CO-PA

Solution

- 1. Deactivate CO-PA..
- 2. Run transaction OKEV.
- 3. Select controlling area 1000.
- 4. Deselect Actual for the CO-PA plan version.

Problem

What needs to be done if an error message occurs saying that the number range for goods receipts documents is missing?

Solution

Run transaction OMBT and add an interval for the current year for groups *Material documents for goods* movements and inventory diffs. and *Material documents for goods receipts* .

Problem

I get an error message saying that number ranges for accounting documents are not valid for the current year.

Solution

- 1. Run transaction SNRO.
- 2. Select RF BELEG.
- 3. Choose Change.
- 4. Choose Number ranges.
- 5. Enter company code **5000**.
- 6. Choose Change intervals and add intervals for numbers 50 and 51 for the current year.

Problem

When the system sends a forwarding settlement document to SAP ERP, XML message processing fails on the SAP ERP side and you receive the error message $For\ object$, number range interval does not exist.

Solution

The validity of number range 01 must be extended to include the current year. Use transaction FBN1 to create an entry for company code 5000 and number range 01.

Typographic Conventions

Example	Description		
<example></example>	Angle brackets indicate that you replace these words or characters with appropriate entries to make entries in the system, for example, "Enter your <user name=""></user> ".		
Example > Example	Arrows separating the parts of a navigation path, for example, menu options		
Example	Emphasized words or expressions		
Example	Words or characters that you enter in the system exactly as they appear in the documentation		
www.sap.com	Textual cross-references to an internet address		
/example	Quicklinks added to the internet address of a homepage to enable quick access to specific content on the Web		
123456	Hyperlink to an SAP Note, for example, SAP Note 123456		
Example	Words or characters quoted from the screen. These include field labels, screen titles, pushbutton labels, menu names, and menu options.		
	Cross-references to other documentation or published works		
Example	Output on the screen following a user action, for example, messages		
	Source code or syntax quoted directly from a program		
	File and directory names and their paths, names of variables and parameters, and names of installation, upgrade, and database tools		
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, database table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE		
EXAMPLE	Keys on the keyboard		



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