

PF1 - LE Training - Routes Management

Logistics Training **Routes Management** Presented by SBS December 2013 NOH Belgium

Introduction

Routes Management Introduction Routes Codification and Description
Data and Tool required to maintain Routes

Display Routes & Routes Determination Maintain Routes & Routes



Determination Maintain Connection Points

Single creation of Route
Single creation of Route Determination
Mass upload for creation of Route
Mass upload for creation of Route Determination
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Introduction to the Routes in the ERP Route: Distance to be covered between a shipping point and a destination point. A route can be made up of several legs.

- The Route is a **Logistics Master Data**, and a mandatory data inserted in the Sales Order or the Stock Transfer Order.
- The route is used as a criteria to select deliveries for a shipment and is a control parameter for shipments.

Display TD Standard Order 34

Sales Document Item 10
Material 188937

Sales A Sales B Shipping Billing Document

Ship-to party 338233 STANKOPLAST

Shipping

Unloading Point	
Department	
Plant	KV0V RUSV-RU /KSTOVO (...)
Shipping Point	KV0 Kstovo RUSVINYL
Route	30V050 RU/KV-NE-PVC-EXP ...
Mat.freight grp	NEPBV N Dg Pa BBag V ...

- The Routes and the Route Determinations are created in SAP by the Transport Manager.
- Introduction to the Routes in the ERP The Route contains the following information:
 1. The **Shipping Type**. The Shipping Type determines the Means/Mode of Transport that can be used to carry out the Shipment (truck, train etc). This is important for the Shipment Costs as it determines the Pricing Procedure.

The **Service Provider**. It is the carrier who will execute the shipment.



The **Duration and Calendar**: Lead Time and Transit Time, Factory Calendar.
The **Stages** created for border requirements, with their corresponding **Connection Points**.
The Connection Points identify railway stations, ports, airports...

Introduction to the Routes in the ERP They are used in Route stages to determine a transportation leg where specific costs are generated (loading/unloading, duties, customs clearance etc.)

- The Route contains the following information (continued):

1. The **Mode of Transport at the Border**. This is to identify the mode of transport (road, rail, sea...) by which the goods cross the border during export.

The **Relevant for Transport** flag. This indicates that Route can be used for creating Shipments.

Stage Category - 3 Types:

- 1 - Transportation
- 2 - Load Transfer (loading/unloading)
- 3 - Border Crossing

- **Introduction to the Routes in the ERP**The Route contains the following information (continued):

1. **Leg Indicator (stage level)**: it has a strong impact on Shipment Type and Shipment Costs

- 1 - Preliminary leg
- 2 - Main leg
- 3 - Subsequent leg
- 4 - Direct leg
- 5 - Return leg

Special Processing indicator (stage level): Determines the tax rules for the costs in the stage when the country of Tax is different from the departure country.
Introduction to the Routes in the ERP Pricing Procedure (stage level): determines which tariff schema must be assigned to the shipment costs, when it differs from the standard one assigned to the shipment type.


- **Route Determination: the Route can be automatically determined based on the following criteria:**

1. The Country and Transportation Zone of the Shipping Point

The Country and Transportation Zone of the Ship-to party
 The Shipping Condition (coming from the Order)
 The Transportation Group (coming from the Material Master)

- **The Route Determination takes place at the item level of the Sales**

Order or the Stock Transfer Order (if route/shipping point are empty in M3/M5)

- **Introduction to the Routes in the ERP**When the Delivery is created, the Route is copied from the Sales Order to the Delivery. 
- **Transportation Zones: a country is divided into Transportation Zones to support the calculation of transit times. These Transportation Zones are assigned to the Customers.**
- **Route Structure**Road Routes
 1. No Stage except for Point to Point routes

Multimodal cases: to avoid complexity, we consider Multimodal as Road. Only the Shipping Type differs to select the right tariff line.

Point to Point Road routes: depends on the Incoterm -DAT, DAP. The final destination is different from the Ship-To. A leg is created with the Departure Point (always identify the delivering plant in these cases) and the Arrival Point (Border crossing, City etc.). The second part of the Incoterm must be created as a Connection Point.

- **Rail Routes**

1. Include 2 Connection Points identifying the railway station of departure and the railway station of arrival

Depending on the railway company, the route can be unique for a Ship-To (with a specific Transportation Zone)

Route Structure The distance has to be inserted in the Direct leg and issued from DIUM for Europe. Units allowed are KM and MEI for US rail routes.

- **Air Routes**

1. The Departure and Arrival Airports are created as Connection Points.

When the carrier takes in charge the transport from the Departure Plant to the Departure Airport: 2 Direct legs are created, only 1 is relevant for Shipment costs. When 2 separate shipments need to be created (1 preliminary and 1 main), the legs are defined accordingly: Preliminary leg + Main leg.

- **Sea Routes**

1. Sea routes contain many Stages and will generate at least 2 shipments: one Preliminary and one Main. Depending on the Incoterm used, Subsequent Shipments can also be generated, as well as additional legs for Customs fees or Loading/Unloading activities.

If Route is used for Stock Transfer Orders, the Import Duties are paid with the Order, and are not included in the stage (not cost relevant)

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Single creation of Route

Single creation of Route Determination

Route Codification Mass upload for creation of Route

Mass upload for creation of Route Determination

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First digit: main Mode of Transport (1-Sea, 2-Rail, 3-Road, 4-Air, 5-Mail & Parcel, 7-Pipeline, 8- Inland Water)

Second digit: Country of departure

Third digit: Business Code or random digit

Fourth digit: Random digit, or specific business rules. Ex. for Rusvinyl:

Shipping Type (A container 20, B container 40, L liquid, P powder, 0 standard - R return)

Route Description for ROAD **Fifth letter:** Random digit, or specific business rules. Ex. for Rusvinyl: S for salt/salted water or number

Sixth digit: random digit

Ex: 3OV001 - 1T0529 - 2D0513 - 4IC004 etc.

- **Route Description (40 digits): The description must define precisely the usage of the Route.**
- **The first part is mandatory and includes:**
 1. The **Departure Country** or the **Site of Departure** A separator: "-"

2 digits to indicate:

Dangerous or **N**on-dangerous goods. Physical nature of the goods:

Bulks: **L**iquid, **G**az, **P**owder

Packed: **E**

Road Route Examples A separator: "-"

3-4 digits with a short description of the product. Ex: **PVC, LSC, SALT** A separator: "-"

- **The second part is recommended to give more information:**
 1. The **carrier name**, when relevant.

The **arrival zone**. For short routes, give the average distance of the relation.

2 Digits to indicate the **Transit duration** : nbr of days + **T**

2 Digits to indicate the **Transportation Lead Time** : nbr of days + **L** Etc.

Examples of Road Routes and their description:

3U1055 : WN-DE-H2O2-BOWKER-Transit 6 Day- Europe

Departure Warrington to arrival zone of Europe for H2O2 Dangerous and Packed products. The Carrier is Bowker, the Transit duration is 6 days.

3F0005 : DO-NE-XXXX-AUBRY-200/250KM-1DAY

All arrival zones located between 200 and 250 km from Dombasle, for Non Dangerous Packed products, by haulier Aubry, Transit duration is 1 day.

3H0001 : AXA1-NE-SODA-TARGET-SUEZ-2DAYS

Departure SASC DEKHEILA PORT to arrival zone of Suez. Non Dangerous Packed Soda products. Carrier is Target Logistics, Transit duration is 2 days.

- **Route Description (40 digits): The description must define precisely the usage of the Route. We divided in 2 parts.**
- **The first part is mandatory and includes:**
 1. 2 digits to indicate the **country of origin**

A separator: "/"

2 digits to indicate the **site of departure**

A separator: "-"

Route Description for RAIL 2 digits to indicate the **country of destination**

A separator: "/"

6-7 digits to indicate the **customer number** :eg 1201026 A separator: "-"

2 digits to indicate:

Dangerous or **N**on-dangerous goods. Physical nature of the goods:

Bulks: **L**iquid, **G**az, **P**owder

Packed: **E**

A separator: "-"

3-4 digits with a short description of the product. Ex: **PVC, LSC, SALT** A separator: "-"

- **The second part is recommended to give more information:**
 1. The **carrier name**, when relevant.

The **type of container** (container on railcar), when relevant. Eg C40 for 40' containers

Route Description for SEA **RET** for **return**, when relevant. Etc.

- **Examples of Rail Routes and their description:**
 1. 2OV008 : RU/KV-BY/337711-NP-PVC-RZHD

Departure country Russia. Loading in Kstovo. Destination country Belarus. Customer

337711 (BELORUSKALYI OAO) for PVC Non-Dangerous and Packed products. The Carrier is RZHD.

- **Route Description (40 digits): The description must define precisely the usage of the Route.**
- **The first part is mandatory and includes:**

1. The **Departure Country** or the **Site of Departure** A separator: "-"

2 digits to indicate:

Route Description for SEA Dangerous or **N**on-dangerous goods. Physical nature of the goods:

Bulks: **L**iquid, **G**az, **P**owder

Packed: **E**

A separator: "-"

3-4 digits with a short description of the product. Ex: **PVC**, **LSC**, **SALT** A separator: "-"

Country Code and Port of Departure

Country Code and Port of Arrival

- **Examples of Sea Routes and their description:**

1. 1B0001: XX-NE-XXXX-BE/ANVERS-GR/PIRAEUS-CONT40

For all Belgian sites, all non dangerous packed products, port of departure Antwerp, port of arrival Piraeus (Greece) by container 40'

1F0002 :TA-DE-CLM-FR/FOS-GR/PIRAEUS

For Tavaux, dangerous packed product, CLM, port of departure FOS, port of arrival Piraeus.

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Single creation of Route

Creation of a Route - Required Data Single creation of Route Determination

Mass upload for creation of Route

Mass upload for creation of Route Determination

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- **Data required/mandatory to create a Route:**

1. The **Carrier**, is mandatory when this carrier always executes the service. *The Carrier must be created as a Vendor in SAP.*

The **Shipping Type** is mandatory. It is used for Shipment Cost determination. Select a Shipping Type related to the product type that will be associated for Route Determination.

Creation of a Route - Required Data The **Transit Duration** is the number of calendar days required for delivering the goods from the Shipping Point to the arrival point.

- **Data required/mandatory to create a Route:**

1. The **Transportation Lead Time** is the number of calendar days required for organizing a Shipment for shipping the goods.

The Time Unit is the DAY.

Remark: 0,5 = 1 DAY and 0,49 = 0 DAY.

A Transit Time of 0 DAY means that the customer is delivered on the same day as the Loading date.

The **Factory Calendar** is the calendar that is valid for this Route. Use the calendar of the Shipping Points "**Z0 (365/365)**".

The **Mode of Transport at the Border** is **3** for Road, **2** for Rail, **1** for Sea etc.

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Creation of a Route - Required Tool The transaction **Z1T_ROUTE** is a tool box dedicated to the maintenance of the Routes.

You can use it in Display Mode for displaying the Route and the Route Determination.

You can use it in Change Mode for the creation of the Routes, the Route Determination and the Connection Points:

Single creation mode is used to create data one by one.

The Excel file can be uploaded for mass creation of the data.

Use this transaction in Change Mode only when required. Accessing it in

Change Mode locks the tables behind this transaction. You can access in Change Mode only if you have authorizations to maintain and create Routes.

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Display Routes & Routes Determination

Maintain Routes & Routes Determination Maintain Connection Points

Single creation of Route

Display Routes & Routes Determinations Single creation of Route Determination

Mass upload for creation of Route

Mass upload for creation of Route Determination

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- **Using transaction Z1T_ROUTE**
 1. You access the transaction in **Display Mode**

Display Routes To display the **Route Determination**To create **Connection Points**To switch to **Change Mode**

- **Using transaction Z1T_ROUTE (continued)**
 1. To **display a Route**, insert its code in the field and press Enter. You can search for a Route with the **matchcode**:

© 2011, SOLVAY S.A. Click on the matchcode to search for a Route Enter the first digits of the Route to restrict the search (in this example: all Road routes from Italy) Then click on

You can also select by Service Agent (carrier)

- **Using transaction Z1T_ROUTE (continued)**
 1. **Display Routes** The list of Routes is displayed according to the selection criteria entered previously:

Display Mode

Route 500 Entries

Route	Description	ServcAgent	TransLdTm.	TransitDur	Rout
3I0001	RO-DL-H2O2-FECCIA-IT-Raggrup1	402440072	1.00	1.00	
3I0002	RO-NE-XXXX-PIGLIACELLI-Svizzera	402440059		2.00	
3I0003	7JU-NP-SODA-PIGLIACELLI-Italia	402440059		1.00	
3I0004	RO-DL-H2O2-FECCIA-Sicil./Sardegna	402440072	2.00	1.50	
3I0005	RO-DP-XXXX-CIANFROCCA-Italia	402440052		1.00	
3I0006	RO-NP-BIRX-SETTENTR-Italia	402440201		1.00	
3I0007	RO-NL-CACL-CAAP-IT-Grup1	402440044		1.00	
3I0008	RO-NL-CACL-TRASPETRO-IT-Grup2	406193396		1.00	
3I0009	RO-NL-CACL-FERRARI-IT-Grup3	402440248		1.00	
3I0010	RO-DP-PCSX-PIGLIACELLI-Rep.Ceca	402440059		2.00	
3I0011	RO-NL-CACL-SGT-IT-Grup5	402440273		1.00	
3I0012	RO-NL-CACL-TRAFIK-Francia	402440033	0.50	1.50	
3I0013	RO-DP-PCSX-PIGLIACELLI-Croazia	402440059		2.00	
3I0014	RO-NP-BIRX-NUSSBAUMER-Germania	202200017	0.50	2.00	
3I0015	RO-NL-CACL-FECCIA-IT-ALIM.-Comp-Urgent	402440072			

Double-click on a Route code to display its details.

- Display Routes Using transaction Z1T_ROUTE (continued) Display Route details:

Display Mode

Clear Connection Points Dis. Route Determ.

Route

Identification

Description Route ID

Dangerous goods

 Consider transit country table

Processing

Service agent FUTURA ENTERPRISE SRLModeOfTr-Border Shipping type Lorry Standard pacShTypePrelLeg ShTypeSubLeg Rel.transport

Scheduling

Transit durat. TransLdTm. Factory cal.

It...	C...	T...	Dep.point	Description	Destinatio...	Description	ST	ServcAgent	Agent Name	Tot.d

- Display Route Determination Using transaction Z1T_ROUTE (continued) Display Route Determination:

Display Mode

| Clear | Connection Points | Dis. Route Determ.

Route

Identification

Description

Route ID

To display the **Route Determination** The system switches to the **Route**

Display Route Determination

Clear

Dep.country/Zone

Dest.country/Zone /

SC	Description	TGroup	Description	Proposed

Determination area

- **Display Route Determination Using transaction Z1T_ROUTE (continued) Display Route Determination:**

Dep.country/Zone /

Dest.country/Zone /

Valid from:

SC	Description	TGroup	Description	Proposed r...	Description
30	Road	2EE	Dang. 2 packed UE	3IH242	RO-DE-CL2L-DONATI-Italia
30	Road	5E	Dang. 5 packed	3I0513	RO-DE-XXXX-FUTURA-Italia-completo
30	Road	5L	Dang. 5 liquid bulk	3I3001	RO-DL-H2O2-FECCIA-Completo-Italia
30	Road	6LE	Dang. 6 liq. bulk UE	3I0536	RO-DL-XXXX-EUGENIO-COMPLETO
30	Road	8LE	Dang. 8 liq. bulk UE	3I0536	RO-DL-XXXX-EUGENIO-COMPLETO
30	Road	8LEA	Dang. 8 acid bulk UE	3I0536	RO-DL-XXXX-EUGENIO-COMPLETO
30	Road	8LEH	Dang. 8 hypo bulk UE	3I0536	RO-DL-XXXX-EUGENIO-COMPLETO
30	Road	NES	Non dang. pack Soda	3I0514	RO-NE-XXXX-FUTURA-Italia-completo
30	Road	NESF	No dg Pack Sod Food	3I0514	RO-NE-XXXX-FUTURA-Italia-completo
30	Road	NL	Non dang liquid bulk	3I0540	RO-NL-XXXX-EUGENIO-COMPLETO
30	Road	NPS	Non dang p.bulk Soda	3I0420	RO-NP-XXXX-CIANFROCCA-1gg
30	Road	NPS2	No dg Pulv Sod BIR	3I3018	RO-NP-XXXX-CARS-Completo-Italia
30	Road	NPS3	No dg Pulv Sod CaCl2	3I3018	RO-NP-XXXX-CARS-Completo-Italia
31	Road (part load)	2EE	Dang. 2 packed UE	3IH242	RO-DE-CL2L-DONATI-Italia

Enter the following data (use the matchcode):- Departure Country / Departure Zone- Destination Country / Destination Zone Press **Enter**. The list of proposed Routes is displayed

- **Display Route Determination Using transaction SQ00, User Group LOGISTIC_USR, query ROUTE_ANALYS (Routes analysis)**

Routes analysis

Report-specific selections

Departure country (countr	RU	to		↕
Departure zone		to		↕
Shipping conditions		to		↕
Transportation group	NPV	to		↕
Destination country	RU	to		↕
Transportation zone to or		to		↕
Actual delivery route		to		↕

Display Route Determination: Enter the selection criteria and execute The list of proposed Routes is displayed

Routes analysis

Ctry	DepartZone	DstC	TranspZone	SC	TGroup	Act.Rte	Actual delivery route	Transit dur.	Tr.lead tm...	Cal	TR	Distance	ST	ServAgent	Number of forwarding agent
RU	Z-KV	RU	KOS-201055	24	NPV	20VB08	RU/KV-BY/337711-NP/NE-PVC-C40-RZHD	5,00		Z0	X		2B	302401644	ROSSIYSKIE ZHELEZNYE DOROGI OAO
RU	Z-KV	RU	SAR-120105	24	NPV	20VB09	RU/KV-RU/1201051-NE/NP-PVC-C40-RZHD	3,00		Z0	X		2B	302401644	ROSSIYSKIE ZHELEZNYE DOROGI OAO
RU	Z-KV	RU	SAR-201053	24	NPV	20VB07	RU/KV-RU/1201055-NE/NP-PVC-C40-RZHD	5,00		Z0	X		2B	302401644	ROSSIYSKIE ZHELEZNYE DOROGI OAO
RU	Z-KV	RU	SAR-201053	34	NPV	30VB07	KV-NE-PVC-ITEK-C40 1T/5L	1,00		Z0	X		3B	302401478	ITEK LOGISTIK ZAO
RU	Z-KV	RU	TVE	34	NPV	30VB03	KV-NE-PVC-ITEK-C40 3T/3L	3,00		Z0	X		3B	302401478	ITEK LOGISTIK ZAO
RU	Z-KV	RU	SAR-201053	C4	NPV	30VB07	KV-NE-PVC-ITEK-C40 1T/5L	1,00		Z0	X		3B	302401478	ITEK LOGISTIK ZAO
RU	Z-KV	RU	TVE	C4	NPV	30VB03	KV-NE-PVC-ITEK-C40 3T/3L	3,00		Z0	X		3B	302401478	ITEK LOGISTIK ZAO
RU	Z-KV	RU	KOS-201055	CV	NPV	20VB08	RU/KV-BY/337711-NP/NE-PVC-C40-RZHD	5,00		Z0	X		2B	302401644	ROSSIYSKIE ZHELEZNYE DOROGI OAO
RU	Z-KV	RU	SAR-201053	CV	NPV	20VB07	RU/KV-RU/1201055-NP/NE-PVC-C40-RZHD	5,00		Z0	X		2B	302401644	ROSSIYSKIE ZHELEZNYE DOROGI OAO



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Single creation of Route

Single creation of Route Determination
Transaction Z1T_ROUTE - Change Mode Mass upload for creation of Route
 Mass upload for creation of Route Determination
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- Using transaction Z1T_ROUTE
 1. You can access the transaction in **Change Mode**

Display Mode

✎ | 🗑️ Clear | 🔗 Connection Points | 🖨️ Dis. Route Determ.

Route

Identification

Description

Route ID

To switch to **Change Mode**

Change Mode

Route

Identification

Description

Single creation of a Route To switch to the maintenance of **Route Determination**To upload multiple objects with the Excel fileTo switch back to **Display Mode**

- Using transaction Z1T_ROUTE

Change Mode

Route

Identification

Description

Route ID

Dangerous goods

Consider transit country table

Processing

Service agent

ModeOfTr-Border

Shipping type

ShTypePreLeg

ShTypeSubLeg Rel.transport

Scheduling

Transit durat.

TransLdTm.

Factory cal.

Itin.	Cat.	Tpe	Dep.point	Description	DestinationPoint	Description	Distance	Unit
	<input checked="" type="checkbox"/>							

To create a new Route: Enter the **Code** of the Route Enter its **Description** Enter the code of the **Service Agent** who will execute the shipment Enter the **Mode of Transport at the Border 1 2 3** Enter here:- the **Transit Duration** (in days)- the **Transportation Lead Time** (in days)- the **Calendar** of the Shipping Point Flag the field **Relevant for Transport** so that the Route can be included in a Shipment **5 6 4**

- Using transaction Z1T_ROUTE **To create a new Route:**

Change Mode

Route

Identification

Description

Route ID

Dangerous goods

Consider transit country table

Processing

Service agent

ModeOfTr-Border

Shipping type

ShTypePreLeg

ShTypeSubLeg Rel.transport

Scheduling

Transit durat.

TransLdTm.

Factory cal.

Single creation of a Route When all required data are inserted, **press Enter**, and check your data
Warning: Data are NOT saved yet!

- Using transaction Z1T_ROUTE
 1. Single creation of a Route **For Rail Routes, it is necessary to create a transportation stage :**

Enter here the:

1. a.
 - i. **Departure point** (= station of departure)
 - ii. **Destination point** (= station of destination)
 - iii. **Shipping type**
 - iv. **Service agent**
 - v. **Transit duration**
 - vi. **Calendar**
 - vii. **Leg ID** (2 for main leg)
 - viii. **Special Processing Indicator**

Itin.	Cat.	Tpe	Dep.point	Description	DestinationPoint	Description	ST	ServAgent	Agent Name
1	1		RUS026960	ZELETSINO	RUS061040	VOLZHSKIY	20	2401644	ROSSIYSKIE ZHELEZ

Tot.durat.	Cal	LegId	SpPI	ShCRel
5,00	Z0	2	ZVRU	<input checked="" type="checkbox"/>

Distance	Unit
1.043,000	KM

1. **Single creation of a Route** 12345678910 **Shipment cost relevance** box needs to be flagged 10. **Distance** in km

- Using transaction Z1T_ROUTE
 1. **For Sea Routes, it is necessary to create transportation stages relevant for each leg** Preliminary Leg:

Itin.	C...	Tpe	Dep.point	Descript...	Destinatio...	Description	ST	ServAgent	Agent Name	Tot...	Cal	L...	SpPI	SProcedu...
1	1		64PIT60A	GENOA	64PIT60A	GENOA	3A	702701488	PANALPINA WORLD TRA...			1	<input checked="" type="checkbox"/>	
2	1		64PIT60A	GENOA	32PUSNYC	NEW YORK	1A	702701488	PANALPINA WORLD TRA...			2	<input checked="" type="checkbox"/>	
3	2		64PIT60A	GENOA	32PUSNYC	NEW YORK		702701488	PANALPINA WORLD TRA...	...		2	ZVIT	ZH1LCT
4	2		32PUSNYC	NEW YORK				2108700	BRUZZONE SHIPPING, ...			3	ZVUS	ZH1UCT
5	1		32PUSNYC	NEW YORK	USDKTNJ	KATOEN NATIE ...	3A	2108700	BRUZZONE SHIPPING, ...			3	ZVUS	ZT3CR0
6	3		32PUSNYC	NEW YORK				2108700	BRUZZONE SHIPPING, ...			3	ZVUS	ZD3000

Single creation of a Route

Main Leg:

Itin.	C...	Tpe	Dep.point	Descript...	Destinatio...	Description	ST	ServAgent	Agent Name	Tot...	Cal	L...	SpPI	SProcedu...
1	1		64PIT60A	GENOA	64PIT60A	GENOA	3A	702701488	PANALPINA WORLD TRA...			1	<input checked="" type="checkbox"/>	
2	1		64PIT60A	GENOA	32PUSNYC	NEW YORK	1A	702701488	PANALPINA WORLD TRA...			2	<input checked="" type="checkbox"/>	
3	2		64PIT60A	GENOA	32PUSNYC	NEW YORK		702701488	PANALPINA WORLD TRA...	...		2	ZVIT	ZH1LCT
4	2		32PUSNYC	NEW YORK				2108700	BRUZZONE SHIPPING, ...			3	ZVUS	ZH1UCT
5	1		32PUSNYC	NEW YORK	USDKTNJ	KATOEN NATIE ...	3A	2108700	BRUZZONE SHIPPING, ...			3	ZVUS	ZT3CR0
6	3		32PUSNYC	NEW YORK				2108700	BRUZZONE SHIPPING, ...			3	ZVUS	ZD3000

- Using transaction Z1T_ROUTE
 1. **For Sea Routes, it is necessary to create transportation stages relevant for each leg**

Single creation of a Route Subsequent Leg:

Itin.	C...	Tpe	Dep.point	Descript...	Destinatio...	Description	ST	ServcAgent	Agent Name	Tot...	Cal	L...	SpPI	S	Procedu...
1	1		64PIT60A	GENDA	64PIT60A	GENDA	3A	702701488	PANALPINA WORLD TRA...			1			<input checked="" type="checkbox"/>
2	1		64PIT60A	GENDA	32PUSNYC	NEW YORK	1A	702701488	PANALPINA WORLD TRA...			2			<input checked="" type="checkbox"/>
3	2		64PIT60A	GENDA	32PUSNYC	NEW YORK		702701488	PANALPINA WORLD TRA...	...		2	ZVIT		ZH1LCT
4	2		32PUSNYC	NEW YORK				2108700	BRUZZONE SHIPPING, ...			3	ZVUS	<input checked="" type="checkbox"/>	ZH1UCT
5	1		32PUSNYC	NEW YORK	USDKTNNJ	KATOEN NATIE ...	3A	2108700	BRUZZONE SHIPPING, ...			3	ZVUS	<input checked="" type="checkbox"/>	ZT3CR0
6	3		32PUSNYC	NEW YORK				2108700	BRUZZONE SHIPPING, ...			3	ZVUS		ZD3000

- Using transaction Z1T_ROUTE To create a new Route:

System Help

Change Mode

Route:

Identification

Description:

Route ID:

Dangerous goods

Consider transit country table

Processing

Service agent: VESTA LOGISTICHEKAYA KOMPANIYA OOO

ModeOfTr-Border:

Shipping type: Lorry Standard pac

ShTypePreLeg:

ShTypeSubLeg: Rel.transport

Scheduling

Transit durat.:

TransLdTm.:

Factory cal.:

To save your data, click on The following message appears: Route 3H0002 successfully uploaded

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Agenda Single creation of Route

Single creation of Route Determination

Mass upload for creation of Route
Single creation of a Route Determination Mass upload for creation of Route Determination
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- Using transaction Z1T_ROUTE To create a new Route Determination:

Change Mode

| UPLOAD ROAD | UPLOAD MULTI LEG | DETERMINATION | Clear | Connection Points

Route

Identification

Description

To switch to the maintenance of **Route Determination**

Dep.country/Zone	RU / Z-KV	Russian Feder.Kstovo,RU	Valid from:	<input type="text"/>
Dest.country/Zone	RU / TVE	Russian Feder.Tverskaya oblast		

SC	Description	TGroup	Description	Proposed ro...	Description
30	Road	NPV	Non dg pul.blk Vinyl	30VB03	

- **Single creation of a Route Determination** Enter the following data (use the matchcode):- **Departure Country / Departure Zone- Destination Country / Destination Zone**It is possible to enter a **Valid From** date hereEnter the **Shipping Condition**: Road (only one 30:used in Egypt)Enter the **Transportation Group**: check in the Material Master, view Sales/PlantInsert the **Route** that should be proposed according to the selection criteria entered
- To **save** your data, click on **Line 30 : Determination NES 3H0002 successfully uploaded** Using transaction **Z1T_ROUTE** To **create a new Route Determination**:

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Single creation of Route
 Single creation of Route Determination

Mass upload for Routes creationMass upload for creation of Route

Mass upload for creation of Route Determination
 © 2011, SOLVAY S.A.

- **Using transaction Z1T_ROUTE**
 1. To upload the Excel file for mass creation of **Routes**:

The Excel **templates** can be found at the following URL: [New Excel template 20120201](#)
 Fulfill the Excel file as required:

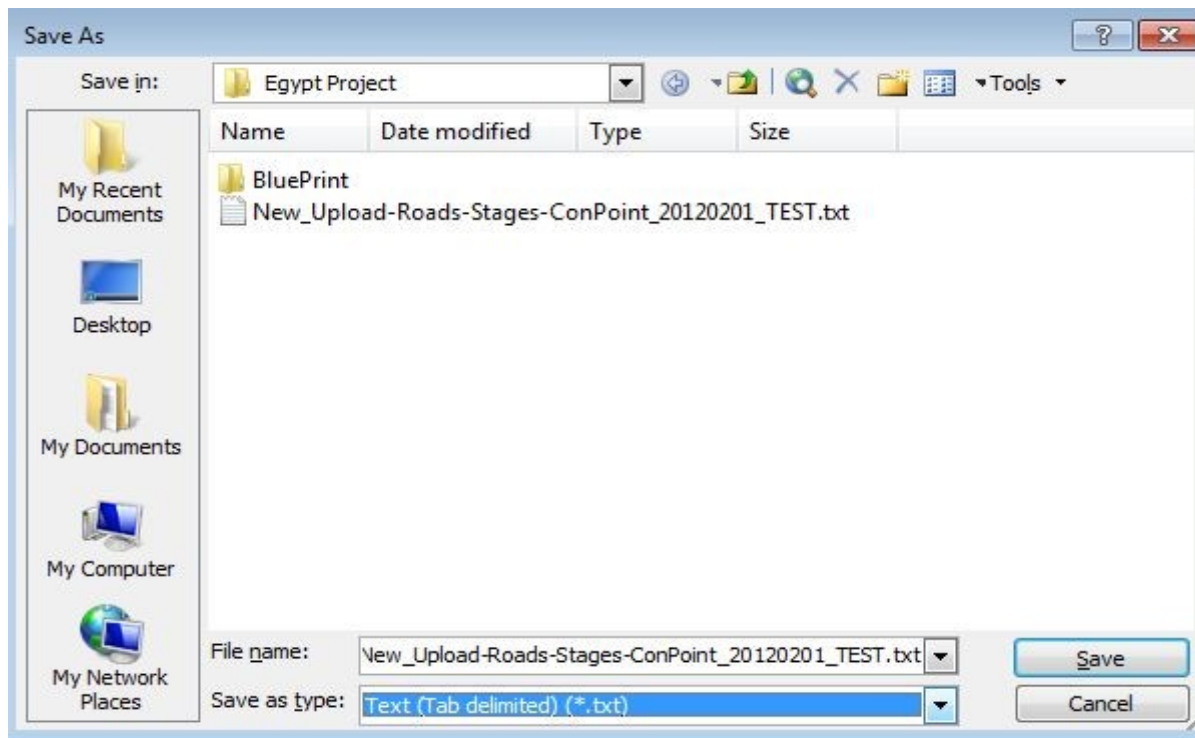
PLEASE TYPE IN UPPER CASE														
OBLIGATORY ZONES				ROUTE			DESCRIPTION							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
N° Service agent	Shipping Type	Transit duration	Transportation lead time	Mode of transport	Intrastat country code	Sequential number	Site Code	Dangerous/ No Dangerous	Physical Code	Product Code	Forwarding agent	Free description	Calendar	
302308709														
302308709							AXA1	N	E	SODA	TAYMOUR	1 DAY	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-1DAY
302308709							AXA2	N	E	SODA	TAYMOUR	3 DAYS	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-3DAYS
302308709							AXA3	N	E	SODA	TAYMOUR	4 DAYS	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-4DAYS
302308709							AXA4	N	E	SODA	TAYMOUR	5 DAYS	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-5DAYS
302308709							AXA5	N	E	SODA	TAYMOUR	6 DAYS	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-6DAYS
302308709							AXA6	N	E	SODA	TAYMOUR	7 DAYS	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-7DAYS
302308709							AXA7	N	E	SODA	TAYMOUR	8 DAYS	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-8DAYS
302308709							AXA8	N	E	SODA	TAYMOUR	9 DAYS	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-9DAYS
302308709							AXA9	N	E	SODA	TAYMOUR	10 DAYS	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-10DAYS

Mass upload for Routes creation

- Using transaction Z1T_ROUTE

1. [To upload the Excel file for mass creation of Routes \(continued\):](#)

Save the Excel file in txt format (text file):



Mass upload for Routes creation

- Using transaction Z1T_ROUTE

1. [To upload the Excel file for mass creation of Routes \(continued\):](#)

Mass upload for Routes creation Edit your txt file to remove undesired data (only data for Routes to be uploaded should remain):

File	Edit	Format	View	Help										
302308709	30	1	1	3	H	0012	AXA1	N	E	SODA	TAYMOUR	1 DAY	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-1DAY
302308709	30	1	1	3	H	0013	AXA2	N	E	SODA	TAYMOUR	3 DAYS	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-3DAYS
302308709	30	1	1	3	H	0014	AXA3	N	E	SODA	TAYMOUR	4 DAYS	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-4DAYS
302308709	30	1	1	3	H	0015	AXA4	N	E	SODA	TAYMOUR	5 DAYS	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-5DAYS
302308709	30	1	1	3	H	0016	AXA5	N	E	SODA	TAYMOUR	6 DAYS	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-6DAYS
302308709	30	1	1	3	H	0017	AXA6	N	E	SODA	TAYMOUR	7 DAYS	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-7DAYS
302308709	30	1	1	3	H	0018	AXA7	N	E	SODA	TAYMOUR	8 DAYS	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-8DAYS
302308709	30	1	1	3	H	0019	AXA8	N	E	SODA	TAYMOUR	9 DAYS	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-9DAYS
302308709	30	1	1	3	H	0020	AXA9	N	E	SODA	TAYMOUR	10 DAYS	EG	AXA1-NE-SODA-ELREEDY-ASSOUAN-10DAYS

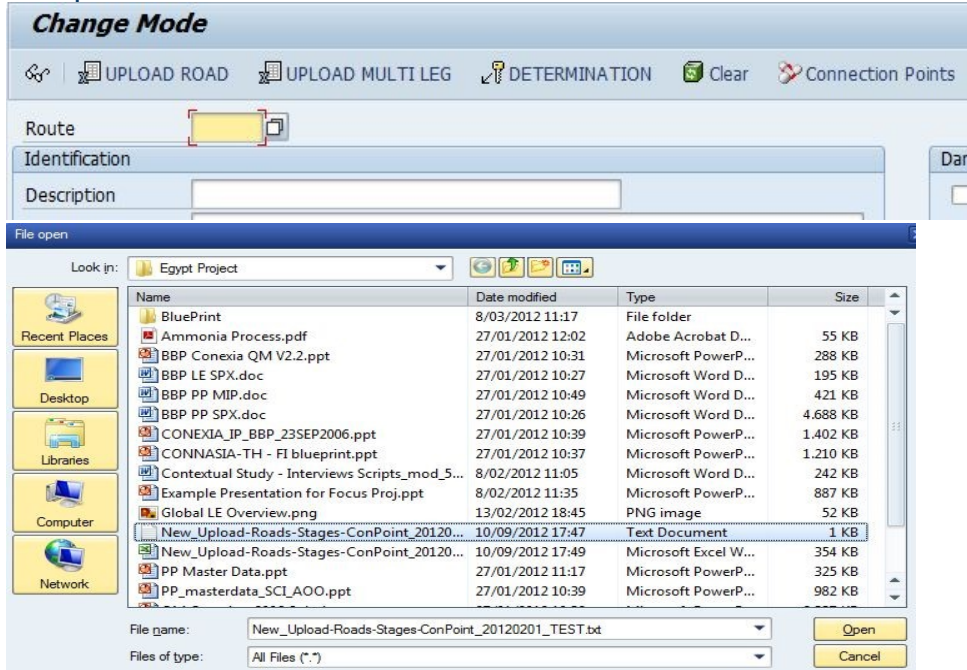
The first line of the file correspond to the first Route to be created. There is no other entry after the last entry of the Route to be created.

- Using transaction Z1T_ROUTE

1. [To upload the Excel file for mass creation of Routes \(continued\):](#)

Click on **Upload Road**

Mass upload for Routes creation

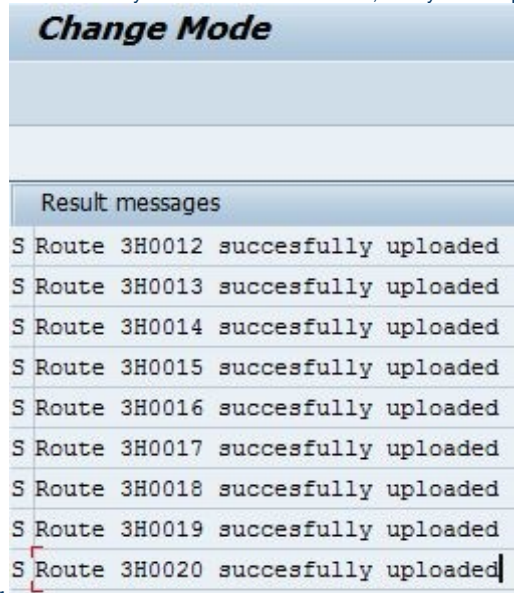


2. Select your txt file Click on Open, the upload starts

- Using transaction Z1T_ROUTE

1. To upload the Excel file for mass creation of Routes (continued):

SIS / CMR / Dec-12In case a Route already created in the system is included in the file, the system displays the following message. Press Yes or No. When the



upload is completed, the following log appear



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 Single creation of Route Determination
 Mass upload for creation of Route

Mass upload for Route Determination

Mass upload for creation of Route Determination

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- Using transaction Z1T_ROUTE
 1. To upload the Excel file for mass creation of Route Determination:

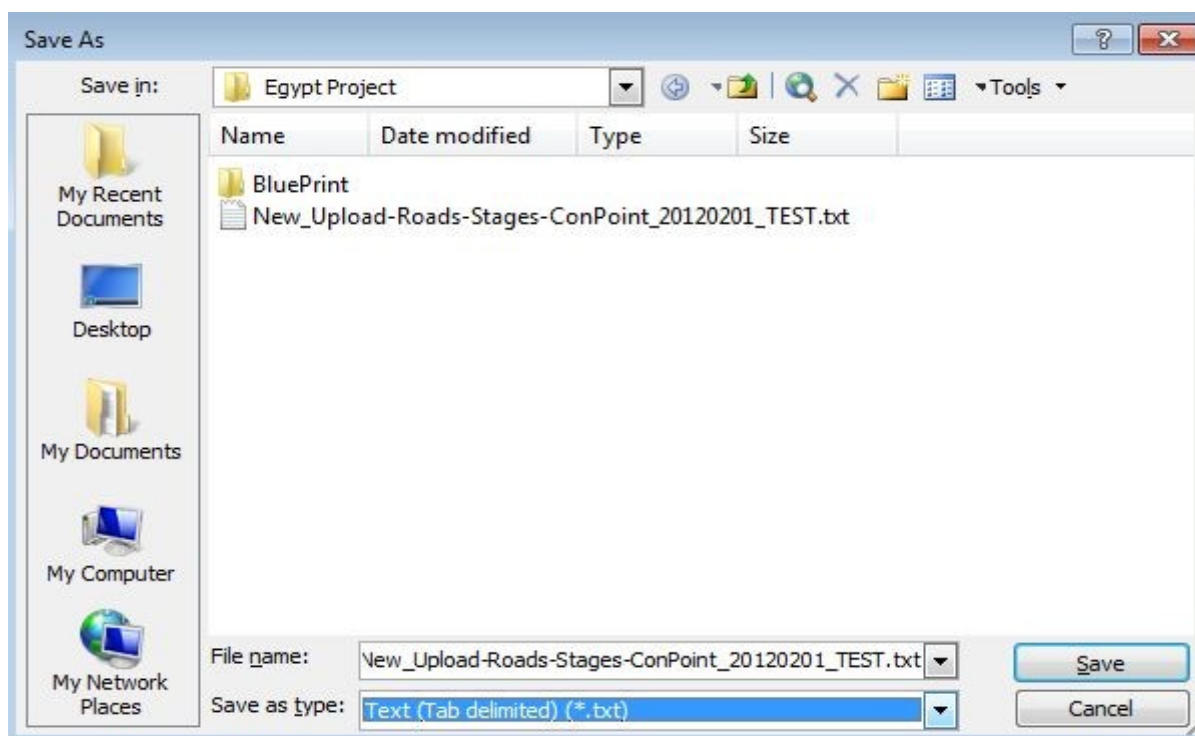
The Excel templates can be found at the following URL: [New Excel template 20120201](#)
 Fulfill the Excel file as required: go to the tab "Determination"

Mass upload for Route Determination

- Using transaction Z1T_ROUTE
 1. To upload the Excel file for mass creation of Route Determination:

1	PLEASE TYPE IN UPPER CASE							
2								
3								
4	Departure country	Departure zone	Destination country	Destination zone	Shipping conditions	Transportation group	Proposed route	Start date of validity
5	1	2	3	4	5	6	7	
6	2	10	2	10	2	4	6	Date DD/MM/YYYY
7	CAPS	CAPS	CAPS	CAPS		CAPS		
8	FR	Z-885	GB	CA	30	NPS2	3F5750	1/02/2006
9	EG	Z-AX	EG	ASN	30	NES	3H0002	1/03/2013
10	EG	Z-AX	EG	BA	30	NES	3H0004	1/03/2013
11	EG	Z-AX	EG	BA	31	NES	3H0005	1/03/2013
12	EG	Z-AX	EG	DK	30	NES	3H0006	1/03/2013
13	EG	Z-AX	EG	BH	30	NES	3H0007	1/03/2013
14	EG	Z-AX	EG	BNS	30	NES	3H0008	1/03/2013
15	EG	Z-AX	EG	C	30	NES	3H0009	1/03/2013
16	EG	Z-AX	EG	DK	30	NES	3H0010	1/03/2013
17	EG	Z-AX	EG	DT	31	NES	3H0011	1/03/2013
18	EG	Z-AX	EG	FYM	30	NES	3H0012	1/03/2013
19	EG	Z-AX	EG	GH	30	NES	3H0013	1/03/2013
20	EG	Z-AX	EG	GZ	30	NES	3H0014	1/03/2013
21	EG	Z-AX	EG	IS	30	NES	3H0015	1/03/2013
22	EG	Z-AX	EG	IS	30	NES	3H0016	1/03/2013

Save the Excel file in txt format (text file):



Mass upload for Route Determination

- Using transaction Z1T_ROUTE
 1. To upload the Excel file for mass creation of **Route Determination**:

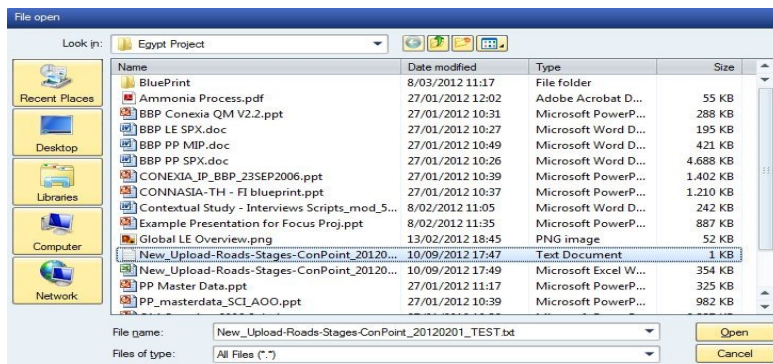
Mass upload for Route Determination Edit your txt file to remove undesired data (only data for Routes Determination to be uploaded should remain):

New_Upload-Roads-Stages-ConPoint_20120201_TEST2.txt - Notepad

File	Edit	Format	View	Help				
FR		Z-885	GB	CA	30	NPS2	3F5750	1/02/2006
EG		Z-AX	EG	ASN	30	NES	3H0002	1/03/2013
EG		Z-AX	EG	BA	30	NES	3H0004	1/03/2013
EG		Z-AX	EG	BA	31	NES	3H0005	1/03/2013
EG		Z-AX	EG	DK	30	NES	3H0006	1/03/2013
EG		Z-AX	EG	BH	30	NES	3H0007	1/03/2013
EG		Z-AX	EG	BNS	30	NES	3H0008	1/03/2013
EG		Z-AX	EG	C	30	NES	3H0009	1/03/2013
EG		Z-AX	EG	DK	30	NES	3H0010	1/03/2013
EG		Z-AX	EG	DT	31	NES	3H0011	1/03/2013

The first line of the file correspond to the first Route to be created. There is no other entry after the last entry of the Route to be created.

- Using transaction Z1T_ROUTE
 1. To upload the Excel file for mass creation of **Route Determination**:



Mass upload for Route Determination Click on **Upload Determination** Select your txt file Click on Open, the upload starts Click on **Upload Determination**

- Using transaction Z1T_ROUTE
 1. To upload the Excel file for mass creation of **Route Determination**:

When the upload is completed, the following log appear

Result messages	
E	Entry 3F5750 does not exist - check your entry (line 1)
E	Line 1 Determination 30 NPS2 3F5750 not succesfully uploaded
W	Line 2 Determination 30 NES 3H0002 already exists
S	Line 3 : Determination 30 NES 3H0004 succesfully uploaded
S	Line 4 : Determination 31 NES 3H0005 succesfully uploaded
S	Line 5 : Determination 30 NES 3H0006 succesfully uploaded
S	Line 6 : Determination 30 NES 3H0007 succesfully uploaded
S	Line 7 : Determination 30 NES 3H0008 succesfully uploaded
S	Line 8 : Determination 30 NES 3H0009 succesfully uploaded
S	Line 9 The route 3H0006 has been remplaced by the route 3H0010
S	Line 9 : Determination 30 NES 3H0010 succesfully uploaded
S	Line 10 : Determination 31 NES 3H0011 succesfully uploaded
S	Line 11 : Determination 30 NES 3H0012 succesfully uploaded
S	Line 12 : Determination 30 NES 3H0013 succesfully uploaded
S	Line 13 : Determination 30 NES 3H0014 succesfully uploaded
S	Line 14 : Determination 30 NES 3H0015 succesfully uploaded
S	Line 15 : Determination 30 NES 3H0016 succesfully uploaded

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Connection Points - Generalities Maintain Connection Points

- © 2011, SOLVAY S.A.
- Connection points are data which identify railway station, airport, port, customer, etc.
- They are used in **route stages** to determine a transportation leg or stage where specific costs are generated (loading & unloading, border crossing etc)
- You can create missing connection point using Z1T_route either in one shot or through a mass maintenance Excel file.
- Following slides will explain you how to create connection points EXCEPT FOR PORT which it is part of Sea routes creation.

SIS-STAFF / INT / Month-07 © 2007, SOLVAY S.A.

- Codification rule for all Connection Points except Ports:
- Country Code on 2 digits
- Letter identifying the type of Connection Point: **A**-Airport, **B**-Border Crossing, **D**-Storage Location, **P**-Sea Port, **W**-Inland Water Port, **C**-Customer, **V**-Vendor, **S**-Train Station
- Official code, if any. Ex: UNO codification for Ports, Solvay Plant code for Storage Locations etc.
- Codification rule for Ports:

Connection Points -

- **Codification**Code "rangée". Specific codification maintained by Solvay Export. On 2 digit.
- Letter identifying the type of connection point, **P** sea port, **W** inland water port.
- Official UNO codification for ports, including country code.

Connection Points - Display (1)SIS-STAFF / INT / Month-07 © 2007, SOLVAY S.A.

- **Transaction to display a connection point: Z1V_DISP_0VTC**

View cluster Enter conditions

Display

Display View "Transportation connection point": Overview

Dialog Structure

- Routes
 - Route Stages
 - Transportation connect**

Transportation connection point	
Points	Description
01PDZAAE	ANNABA
01PDZALG	ALGIERS

EF1(5)/020 Another entry

Points

Position... Entry 1 of 6.864

Connection Points - Display (2) © 2011, SOLVAY S.A.

- Transaction to display a connection point: **Z1V_DISP_0VTC**

Transportation connection point		
Points	Description	Cust.off.descr.
RUS026960	ZELETSINO	
RUS028504	STATION FI/RU	
RUS030460	BYI	

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Double-click on the connection point

Points

Characteristic attribute

Load trnsf.pnt

Airport Sea harbor

Train station Inland port

Border crossing

Customs office

Cust.off.descr.

Scheduling | Reference cust./vendor | Reference shpng pnt / plant | Rail data

Gen.cargo.train Frght trn statn

Express station Load. trn statn

Rail carrier

TrainStnNumber

Leg class

- Connection point creation using **Z1T_ROUTE**

- 2 modes of creation
- online just for urgent connection point
- using an excel file & upload procedure for mass maintenance
- the template displayed indicates the column in the excel for mass maintenance

Upload Connection Points

(1st char of params corresponds to columns name of Mass Load Excel template)

A - Country Code	<input type="text"/>
B - Connection Type	<input type="text"/>
C - Station Number/ ID.point	<input type="text"/>
D - Description	<input type="text"/>

- Selection Screen:

Upload Connection Points

(1st char of params corresponds to columns name of Mass Load Excel template)

A - Country Code	<input type="text"/>
B - Connection Type	<input type="text"/>
C - Station Number/ ID.point	<input type="text"/>
D - Description	<input type="text"/>
<input type="checkbox"/> E - Load transfer point	
<input type="checkbox"/> F - Airport	
<input type="checkbox"/> G - Train station	
<input type="checkbox"/> H - Border crossing	
<input type="checkbox"/> I - Sea harbor	
<input type="checkbox"/> J - Inland port	
K - Customs office	<input type="text"/>
L - TrainStnNumber	<input type="text"/>
M - Shipping point/recving pt	<input type="text"/>
N - Customer	<input type="text"/>
O - Vendor	<input type="text"/>
P - Name	<input type="text"/>
Q - Search term A	<input type="text"/>
R - Postal code	<input type="text"/>
S - City	<input type="text"/>
T - Country key	<input type="text"/>
U - Region	<input type="text"/>
V/W - Street / Number	<input type="text"/>
X - Lang. (ISO 639)	<input type="text"/>
Y - Telephone	<input type="text"/>
Z - Fax	<input type="text"/>
AA - E-mail address	<input type="text"/>

Connection point related to a railway station:

- Line A: the country code is mandatory Line B: connection point type = S.
- Line C: give the Id number of your connection point (alpha num) recommendation = official railway number(without country id).

- Line D: description
- Line G: tick this box, if the railway is a border crossing point tick line H.
- Line L: give the full railway station number including the country id.
- Lines P to Line V must be filled.
- Lines W to Y are optional.

A - Country Code	<input type="text" value="FR"/>
B - Connection Type	<input type="text" value=""/>
C - Station Number/ ID.point	<input type="text" value=""/>
D - Description	<input type="text" value=""/>
<input type="checkbox"/> E - Load transfer point	
<input type="checkbox"/> F - Airport	
<input type="checkbox"/> G - Train station	
<input type="checkbox"/> H - Border crossing	
<input type="checkbox"/> I - Sea harbor	
<input type="checkbox"/> J - Inland port	
K - Customs office	<input type="text" value=""/>
L - TrainStnNumber	<input type="text" value=""/>
M - Shipping point/recving pt	<input type="text" value=""/>
N - Customer	<input type="text" value=""/>
O - Vendor	<input type="text" value=""/>
P - Name	<input type="text" value=""/>
Q - Search term A	<input type="text" value=""/>
R - Postal code	<input type="text" value=""/>
S - City	<input type="text" value=""/>
T - Country key	<input type="text" value=""/>
U - Region	<input type="text" value=""/>
V - Lang. (ISO 639)	<input type="text" value=""/>
W - Telephone	<input type="text" value=""/>
X - Fax	<input type="text" value=""/>
Y - E-mail address	<input type="text" value=""/>

in red box mandatory fields for a railways station in green optional fields the train station number (L) should be the official id.

When you need to identify a customer as a connection point, the recommendation is to identify only the town of destination in order to avoid creation of lot of points:

- **Line A: the country code is mandatory** **Line B: F for connection point type** .
- **Line C: give the Id number of your connection point recommendation shorted town name** .
- **Line D: Full town name.**
- **Line E: tick at least load transfer point box.**
- **Line N: link the connection point to the customer number**
- **Line R: give the postal code if known**
- **Line S: town name**
- **Line T: country code (iso 2 position)**
- **Line V: language code** **Line**

A - Country Code	<input type="text"/>
B - Connection Type	<input type="text"/>
C - Station Number/ ID.point	<input type="text"/>
D - Description	<input type="text"/>
<input type="checkbox"/> E - Load transfer point	
<input type="checkbox"/> F - Airport	
<input type="checkbox"/> G - Train station	
<input type="checkbox"/> H - Border crossing	
<input type="checkbox"/> I - Sea harbor	
<input type="checkbox"/> J - Inland port	
K - Customs office	<input type="text"/>
L - TrainStnNumber	<input type="text"/>
M - Shipping point/recving pt	<input type="text"/>
N - Customer	<input type="text"/>
O - Vendor	<input type="text"/>
P - Name	<input type="text"/>
Q - Search term A	<input type="text"/>
R - Postal code	<input type="text"/>
S - City	<input type="text"/>
T - Country key	<input type="text"/>
U - Region	<input type="text"/>
V - Lang. (ISO 639)	<input type="text"/>
W - Telephone	<input type="text"/>
X - Fax	<input type="text"/>
Y - E-mail address	<input type="text"/>

in red box mandatory fields for

a final the connection id = the shorted name town description = full town name.customer of destination

Connection point related to a shipping point:

- Line A: the country code is mandatory Line B: connection point type = D.
- Line C: give the Id number of your connection point (alpha num example of Idnr: FRDTAP: TAVAUX (PVDF), DEDBWF: BadWimpfen(Fluor)
- Line D: description
- Line E: tick at least load transfer point box.
- Line G: tick the box if the shipping point has its own railway station number, and give its number in line L
- Line M: link the connection point to the shipping point.

A - Country Code	<input type="text" value=""/>
B - Connection Type	<input type="text" value=""/>
C - Station Number/ ID.point	<input type="text" value=""/>
D - Description	<input type="text" value=""/>
<input type="checkbox"/> E - Load transfer point	
<input type="checkbox"/> F - Airport	
<input type="checkbox"/> G - Train station	
<input type="checkbox"/> H - Border crossing	
<input type="checkbox"/> I - Sea harbor	
<input type="checkbox"/> J - Inland port	
K - Customs office	<input type="text" value=""/>
L - TrainStnNumber	<input type="text" value=""/>
M - Shipping point/recving pt	<input type="text" value=""/>
N - Customer	<input type="text" value=""/>
O - Vendor	<input type="text" value=""/>
P - Name	<input type="text" value=""/>
Q - Search term A	<input type="text" value=""/>
R - Postal code	<input type="text" value=""/>
S - City	<input type="text" value=""/>
T - Country key	<input type="text" value=""/>
U - Region	<input type="text" value=""/>
V - Lang. (ISO 639)	<input type="text" value=""/>
W - Telephone	<input type="text" value=""/>
X - Fax	<input type="text" value=""/>
Y - E-mail address	<input type="text" value=""/>

in red box mandatory fields for

a shipping point

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Connection point related to a supplier:

- Line A: the country code is mandatory Line B: no connection point type .
- Line C: give the Id number of your connection point (alpha num) recommendation = to the supplier number.
- Line D: description
- Line E: tick at least load transfer point box.
- Line O: link the connection point to the supplier number

A - Country Code	<input type="text"/>
B - Connection Type	<input type="text"/>
C - Station Number/ ID.point	<input type="text"/>
D - Description	<input type="text"/>
<input type="checkbox"/> E - Load transfer point	
<input type="checkbox"/> F - Airport	
<input type="checkbox"/> G - Train station	
<input type="checkbox"/> H - Border crossing	
<input type="checkbox"/> I - Sea harbor	
<input type="checkbox"/> J - Inland port	
K - Customs office	<input type="text"/>
L - TrainStnNumber	<input type="text"/>
M - Shipping point/recving pt	<input type="text"/>
N - Customer	<input type="text"/>
O - Vendor	<input type="text"/>
P - Name	<input type="text"/>
Q - Search term A	<input type="text"/>
R - Postal code	<input type="text"/>
S - City	<input type="text"/>
T - Country key	<input type="text"/>
U - Region	<input type="text"/>
V - Lang. (ISO 639)	<input type="text"/>
W - Telephone	<input type="text"/>
X - Fax	<input type="text"/>
Y - E-mail address	<input type="text"/>

a supplierthe connection id = the supplier numberdescription = supplier short name and (if necessary) town. in red box mandatory fields for
Thank you for your attention!

