

# SAP TM 8.1

## ERP TM Integration of logistical processes



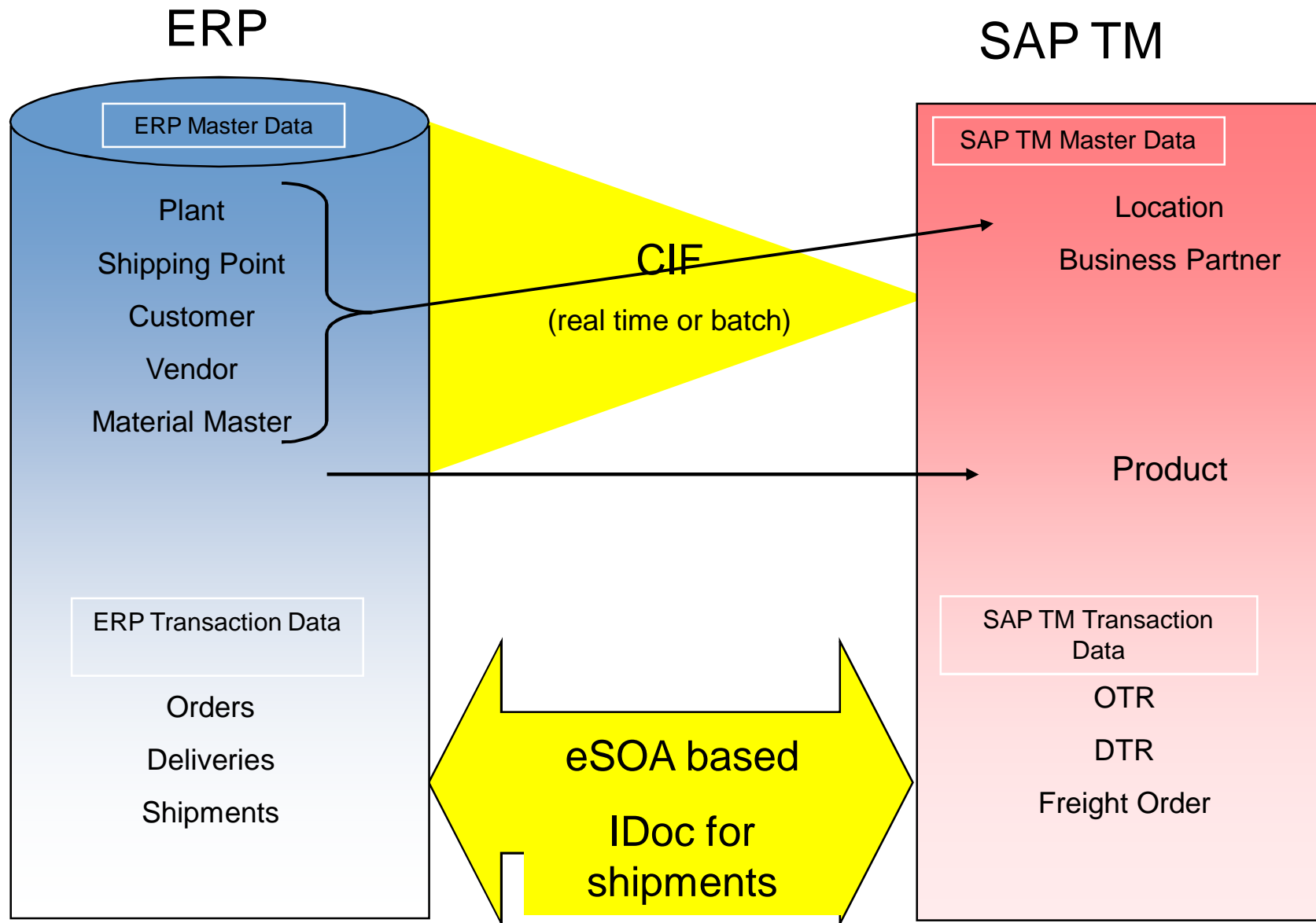
Uwe Schweig, TM Development  
06.12.2011

# Agenda



1. **Basics : CIF**
2. Order Integration
  - 2.1. Possible Integration Scenarios
  - 2.2. Message choreography
  - 2.3. Change Management
  - 2.4. Error Handling
  - 2.5. Details of delivery creation
  - 2.6. Scheduling
  - 2.7. System demo
3. Inbound shipment integration
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5. eWM integration (planned for TM9.0)
  - 5.1. Possible Integration Scenarios

# SAP TM and ERP Integration - Master Data and Transaction Data Transfer to SAP TM



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# Order Integration

## Added Value in SAP TM 8.0 / 8.1



- Integration of ERP Sales Orders, Customer Returns, Purchase Orders, Returns Purchase Order, Stock Transport Orders and Returns Stock Transport Orders into Transportation Management.
- Collective transportation planning of all (inbound and outbound) orders reveals full optimization potential
- Transportation planning in TM already based on ERP orders, prior to delivery creation, resulting in an earlier forecast on future transportation and resource demands.
- Enable tendering, subcontracting and execution in TM already based on ERP orders prior to delivery creation.
- Continuously allow and react to order changes in ERP.
- Delivery creation based on dates and quantities according to transportation planning results, taking into account transportation constraints like resource availability and transportation durations.



- Customizing in ERP to define relevancy of orders for TM integration
- Storage in TM as Order-Based Transportation Requirements (OTR) and Delivery-Based Transportation Requirements (DTR)
- Customizing in TM to define different OTR and DTR types
  - Planning on requested or confirmed quantities
  - Automatic Freight Unit creation, default Freight Unit building rule
  - ...
- Integration via asynchronous enterprise service communication (SOA)
  - Via SAP Process Integration (SAP PI, formerly SAP XI)
  - Via point-to-point communication (WS-RM)
- Integration is available with ECC6.04
- Like transportation planning, delivery creation from TM is supported both interactively and by batch processing







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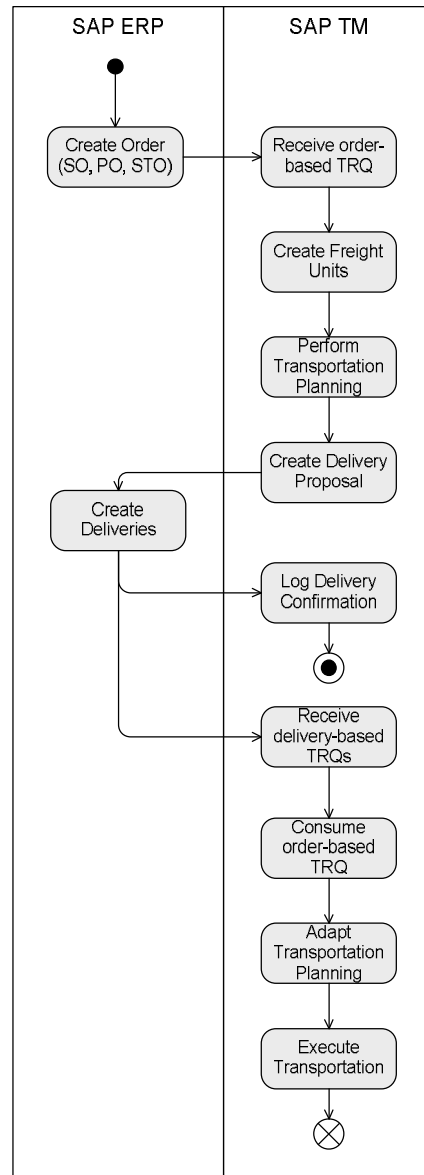
# Possible Integration Scenarios



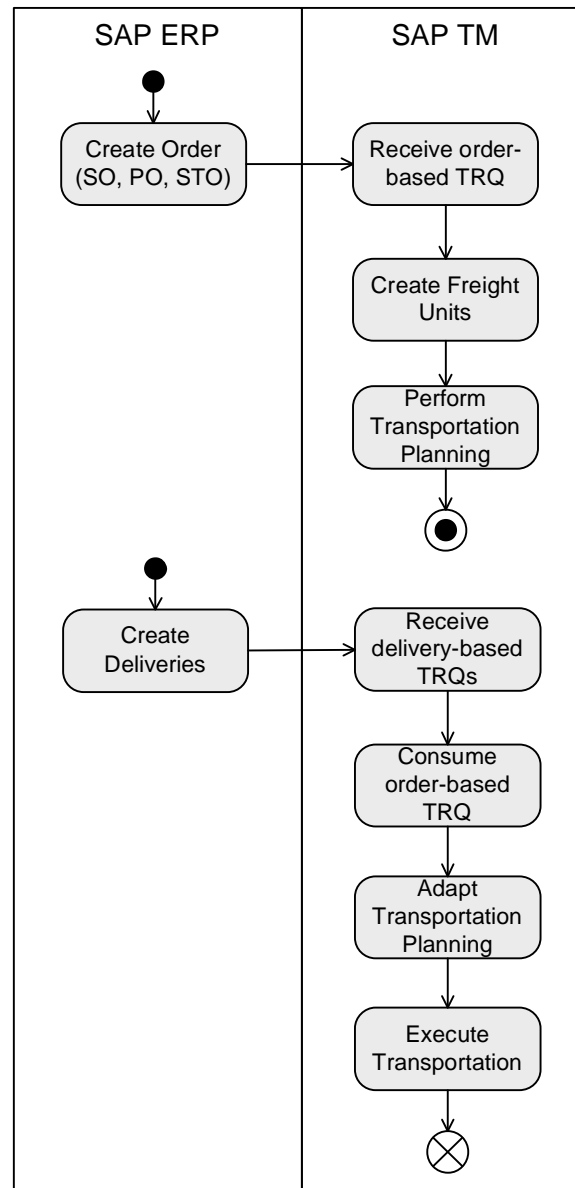
Order integration (Transfer orders from ERP to TM)	Delivery creation triggered by	Delivery integration
	ERP	
	TM	
	ERP	
	ERP	



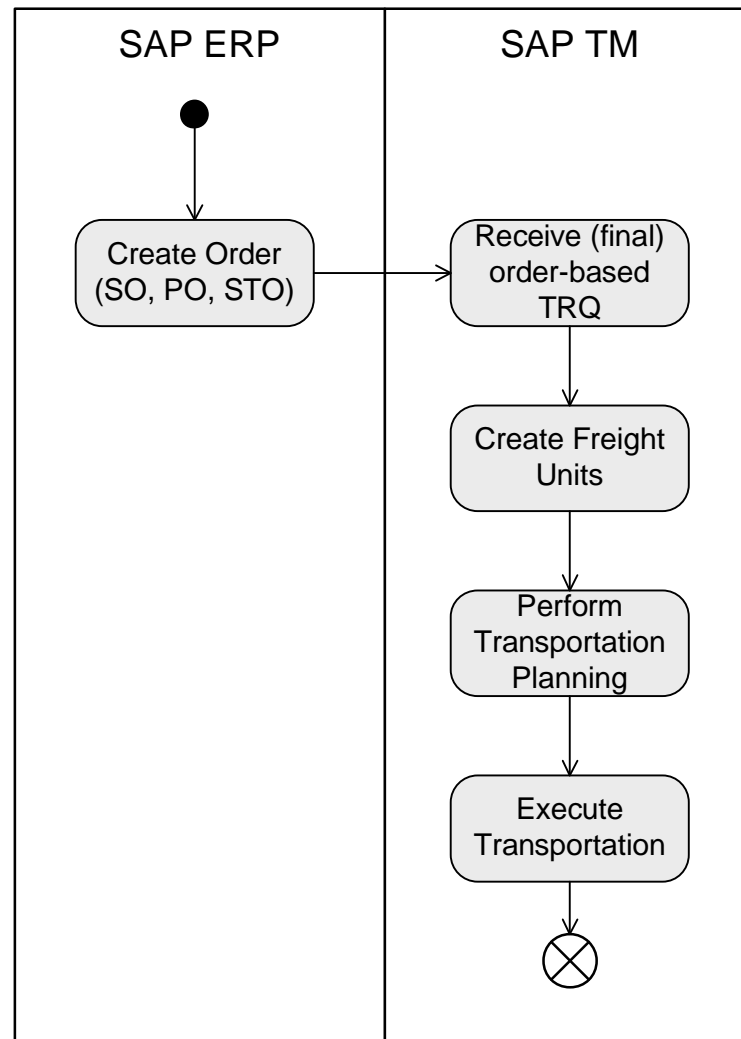
# Basic Process, delivery creation triggered by TM



# Delivery Creation triggered by ERP



# Direct Order Execution, no delivery integration between ERP and TM

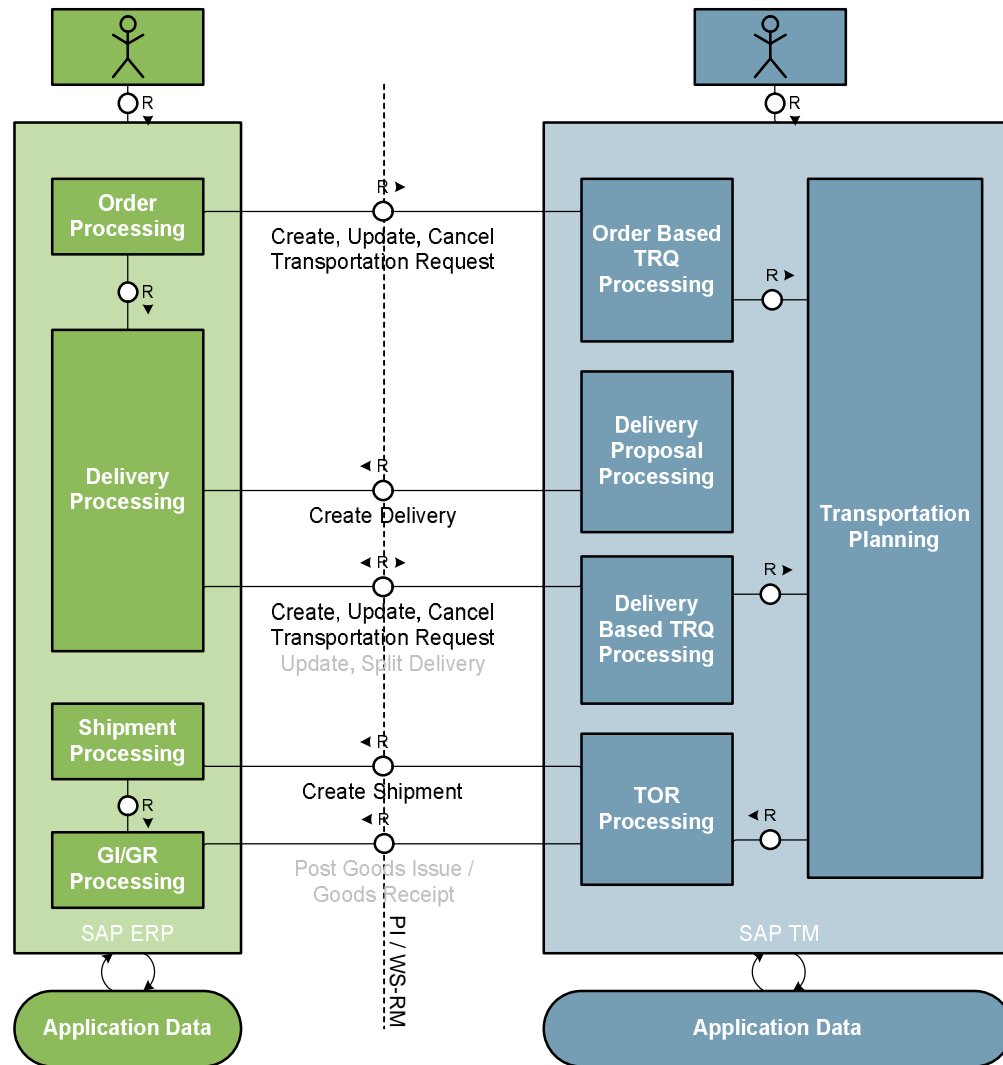


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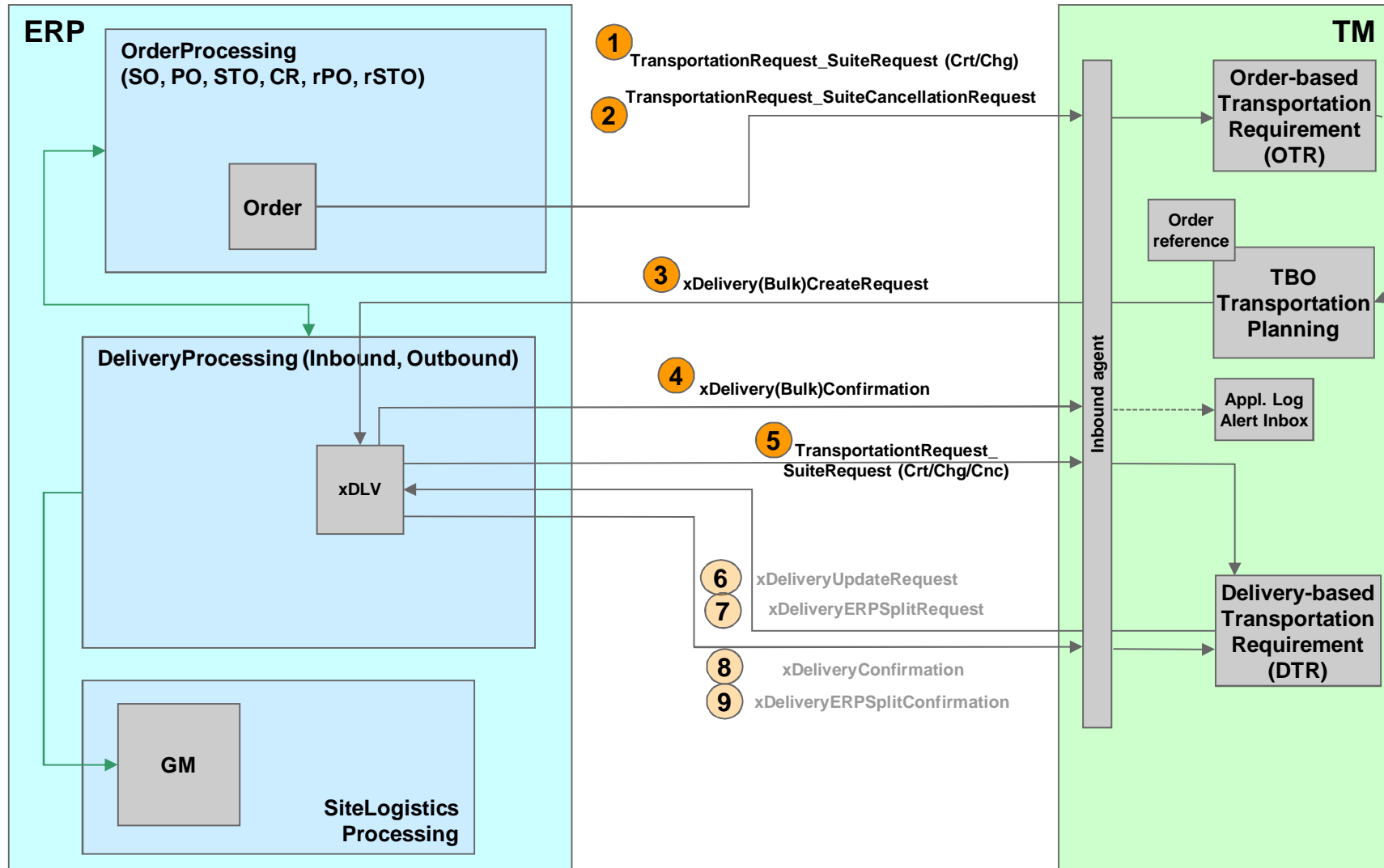


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# Main components



# Message Choreography



# Triggering of Outbound Messages in ERP



## Sales Order, Customer Returns, Deliveries

- Usage of output control
  - TRS0 Sales Order, Customer Returns
  - TRD0 Deliveries

## (Returns) Purchase Order, (Returns) Stock Transport Order

- Usage of workflow technique
  - Event linkages (transaction SWETYPV)

Event Type Linkages					
	Object Category	ObjectType	Event	Receiver Type	Type linkag...
	ABAP Class	CL_SE_PUR_PO_WF_OUT	CHANGED	WS53800008	<input checked="" type="checkbox"/>
	ABAP Class	CL_SE_PUR_PO_WF_OUT	CREATED	WS53800008	<input checked="" type="checkbox"/>

# ERP Customizing for TM Relevancy



- Integration with an External Transportation Management System
  - Order Integration
    - Define Control Keys for Document Transfer
    - Activate Transfer of Sales Documents
    - Activate Transfer of Purchase Orders
    - Activate Transfer of Delivery Documents
    - Business Add-Ins (BAdIs)

## Display View "Sales Document Transfer": Overview

Sales Document Transfer							
SOrg.	DChl	Dv	SaTy	S...	Ctrl Key	TM No.	Control Key Description
0001	01	01	PLTA	01	0004	001	Transfer Sales Order; Order Scheduling active
0001	01	01	PLTA	01	0004	0001	Transfer Sales Order; Order Scheduling active
0001	01	01	PLTA	02	0004	0001	Transfer Sales Order; Order Scheduling active
0001	01	01	OR		0001	0001	Transfer Sales Order, O. Delivery; Order Scheduling inactive
0001	01	01	OR	01	0001	0001	Transfer Sales Order, O. Delivery; Order Scheduling inactive
0001	01	01	OR	02	0004	0001	Transfer Sales Order; Order Scheduling active
3000	10	00	RE	01	0019	0001	Transfer Returns Order, I. Delivery; no Scheduling available
3000	10	00	OR	01	0001	0001	Transfer Sales Order, O. Delivery; Order Scheduling inactive
3000	10	00	ZOR1	01	0001	0001	Transfer Sales Order, O. Delivery; Order Scheduling inactive
SIT1	Z1	Z1	D6OR		0001	0001	Transfer Sales Order, O. Delivery; Order Scheduling inactive
SIT1	Z1	Z1	D6OR	01	0001	0001	Transfer Sales Order, O. Delivery; Order Scheduling inactive
SIT1	Z1	Z1	D6OR	02	0001	0001	Transfer Sales Order, O. Delivery; Order Scheduling inactive
SIT1	Z1	Z1	RE		0019	0001	Transfer Returns Order, I. Delivery; no Scheduling available
SIT1	Z1	Z1	RE	01	0019	0001	Transfer Returns Order, I. Delivery; no Scheduling available
SIT1	Z1	Z1	RE	02	0019	0001	Transfer Returns Order, I. Delivery; no Scheduling available
SIT1	Z1	Z1	OR		0004	0001	Transfer Sales Order; Order Scheduling active
SIT1	Z1	Z1	OR	01	0004	0001	Transfer Sales Order; Order Scheduling active
SIT1	Z1	Z1	OR	02	0004	0001	Transfer Sales Order; Order Scheduling active
SIT1	Z1	Z1	TMOR		0001	0002	Transfer Sales Order, O. Delivery; Order Scheduling inactive



# Trigger the sending of ERP outbound messages



## Sales Order, Customer Returns, Deliveries

- Definition in outbound control within maintenance transaction
  - Menu *Extras* → *Output* → *Header* → *Edit*
  - Button *Further data* for condition type
- Direct sending
  - Dispatch time = *Send immediately*
  - Message will be sent in update process
- Sending with delay
  - Dispatch time = *Send with periodically scheduled job*
  - Start report RSNAST00
  - Message will be sent in separate task

## (Returns) Purchase Order, (Returns) Stock Transport Order

- Update task creates event → Workflow task will be started afterwards
- Always sending via separate process

# -System Connections

## -Monitoring & Error Handling for eSOA messages



### eSOA-Techniques

- Sending of messages via PI
- Sending of messages via Point-to-point communication (WS-RM)

### Transactions for configuration

- SXMB\_IFR Configuration for communication via PI
- SOAMANAGER Configuration for point-to-point communication

### Monitoring

- SXMB\_MONI Integration Engine: Monitoring
- SXI\_MONITOR Monitor for processed XML messages

### Postprocessing desktop

- /SAPPO/PPO2 Edit Postprocessing Order
- /SAPPO/PPO3
- ECH\_MONI\_SEL

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# Error handling for delivery creation from TM



## Worklists for delivery creation with errors

- All OTRs for which a delivery creation has been triggered but no response arrived until now from ERP
- All OTRs for which a delivery creation has been triggered, the confirmation has arrived from ERP but there was a error during delivery creation and the delivery creation must be triggered again.

**Worklists**

Active Queries

Freight Units (for ERP Orders) [All Order based with ERP response missing \(500\)](#)  
[All Order-Based FUs: Missing ERP Resp.- Resendable \(106\)](#)

Freight Units (for ERP Orders) - All Order-Based FUs: Missing ERP Resp.- Resendable

Show Quick Criteria Maintenance

View: [STANDARDVIEW] **Recreate Deliveries in ERP** Refresh

Document	Document Type	Source Location	Destination Location	Earliest Requested ...	Earliest Requested Da...	Shipper
300000030	0001	A01_CONS1@QV5...	A01_SHIP1@QV5500		05.05.2010 07:00:00	
300000085	FGU	SPGUI3@QV5500	CUGUI_SHIP2@QV...		15.05.2010 06:00:00	
300000086	FGU	SPGUI3@QV5500	CUGUI_SHIP2@QV...		15.05.2010 06:00:00	
300000104	FGU	SPGUI3@QV5500	CUGUI_SHIP2@QV...		07.05.2010 21:46:28	
300000105	FGU	SPGUI3@QV5500	CUGUI_SHIP2@QV...		07.05.2010 21:46:28	
300000106	FGU	SPGUI3@QV5500	CUGUI_SHIP2@QV...		16.05.2010 06:00:00	
300000107	FGU	SPGUI3@QV5500	CUGUI_SHIP2@QV...		16.05.2010 06:00:00	
300000124	FGU	SPGUI3@QV5500	CUGUI_SHIP2@QV...		10.05.2010 17:05:49	
300000125	FGU	SPGUI3@QV5500	CUGUI_SHIP2@QV...		10.05.2010 17:05:49	
300000126	FGU	SPGUI3@QV5500	CUGUI_SHIP2@QV...		17.05.2010 06:00:00	

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# Delivery profile



- Delivery profile to control delivery creation process
- You assign the profile in a planning set which you use for delivery creation

The screenshot shows the SAP Business Client interface. The breadcrumb navigation is: ERP Logistics Integration > Delivery Creation > Create Deliveries in ERP. The main area is titled 'Profile and Layout Sets' and contains a table with the following data:

Requ. Selection Profile	Freight Order Selection Profile	Delivery Profile	Trans...	Description	De...
TMS-DELIVERY-BUILT-01	TMS_SELECT_OWN	DLVP1_ST	S3...	GUI3, ALEREMOTE	<input type="checkbox"/>
TMS-SELECT-OTR-FUS	TMS_SELECT_OWN		Sta...	Shipper von GUI2 bis GUI3	<input checked="" type="checkbox"/>

- The profile controls whether
  - Planning results are fixed when you send delivery proposals to ERP
  - A delivery is created per FU or per OTR if you deliver prior to transportation planning
  - Which attributes of items lead to creation new deliveries in the delivery proposal creation (Incompatibility settings)

The screenshot shows the 'New Delivery Profile DLVP1\_ST' configuration window. It has a toolbar with 'Save', 'Cancel', 'Edit', 'Delete', 'Refresh', and 'Check' buttons. The window is divided into two sections: 'General Data' and 'Control'.

**General Data**

Delivery Profile: DLVP1\_ST  
Description: No fixation / per FU /

**Control**

Fix Planning Results:   
Delivery Creation: Per Freight Unit  
Incompatibility Settings:  [Display](#)

# Delivery creation via UI



- Delivery creation via UI by new transaction Selection controlled by planning set
  - A new function called 'Start Creating Deliveries' allows to use planning sets for selection and basis for delivery creation
  - You choose 'Create deliveries' and you get a new screen where you can create delivery proposals / see details of delivery proposals and send them to ERP. Here you create and send the delivery proposal

**Create Deliveries in ERP**

Refresh Create Delivery Proposals Send Delivery Proposals to ERP Change Profile Selection Page Layout

	Selection	Freight Unit	Pla...	Delivery Pr...	Order-Based TR	Source Locati...	City (Source)	Loading Date	Unload...	City (Destination)
Freight Unit	<input type="checkbox"/>	300305546			3100000445	SPGUI4@QV5...	Walldorf		30.08.2...	BREMEN
Freight Unit	<input type="checkbox"/>	300308424			3100000533	SPGUI4@QV5...	Walldorf		30.08.2...	BREMEN
Freight Unit	<input type="checkbox"/>	300308685			3100000574	SPGUI4@QV5...	Walldorf		30.08.2...	BREMEN
Freight Unit	<input type="checkbox"/>	300308704			3100000568	SPGUI4@QV5...	Walldorf		30.08.2...	BREMEN
Freight Unit	<input type="checkbox"/>	300308705			3100000546	SPGUI4@QV5...	Walldorf		30.08.2...	BREMEN
Freight Unit	<input type="checkbox"/>	300308728			3100000578	SPGUI4@QV5...	Walldorf		30.08.2...	BREMEN
Freight Order	<input checked="" type="checkbox"/>					CUUS-TM80-0...	US-TM80-01 City		22.07.2...	Walldorf
Freight Unit	<input checked="" type="checkbox"/>	300308514		Priority 1	3100000555	CUUS-TM80-0...	US-TM80-01 City	22.07.2010	22.07.2...	Walldorf
Freight Unit	<input checked="" type="checkbox"/>	300308515		Priority 1	3100000555	CUUS-TM80-0...	US-TM80-01 City	22.07.2010	22.07.2...	Walldorf
Freight Unit	<input checked="" type="checkbox"/>	300308516		Priority 1	3100000555	CUUS-TM80-0...	US-TM80-01 City	22.07.2010	22.07.2...	Walldorf
Freight Unit	<input checked="" type="checkbox"/>	300308517		Priority 1	3100000555	CUUS-TM80-0...	US-TM80-01 City	22.07.2010	22.07.2...	Walldorf
Freight Unit	<input checked="" type="checkbox"/>	300308519		Priority 1	3100000556	CUUS-TM80-0...	US-TM80-01 City	22.07.2010	22.07.2...	Walldorf

**Delivery Proposals**

Deliv...	Freight Order (First Stop)	Source Location	City (Source)	Pick-Up Date	Pick-Up TI...	Delivery Date	Delivery TI...	Freight Order (Last Stop)	Destination Location
1	100005141	CUUS-TM80-01@Q...	US-TM80-01 City	22.07.2010	06:00:00	22.07.2010	06:00:00	100005141	SPGUI3@QV5500
2	100005141	CUUS-TM80-01@Q...	US-TM80-01 City	22.07.2010	06:00:00	22.07.2010	06:00:00	100005141	SPGUI3@QV5500

**Delivery Proposal Details**

Item	Freight Unit	FU It...	Order-Based TR	Item Description	Pieces	Piec...	Original Order	Order Type	Orde...	Material Availabilt...
10	300308516		3100000555	US-TM-MAT-01	2	EA	60000098	Customer Return	0000...	22.07.2010
20	300308517		3100000555	US-TM-MAT-01	3	EA	60000098	Customer Return	0000...	22.07.2010
30	300308514		3100000555	US-TM-MAT-02	4	EA	60000098	Customer Return	0000...	22.07.2010
40	300308515		3100000555	US-TM-MAT-02	4	EA	60000098	Customer Return	0000...	22.07.2010

Selected Freight Units, Freight Order, Bookings ...

Delivery proposal is displayed

Details of Proposal are displayed

## Handling of scheduled dates in the interface



- The sales order in ERP can carry out delivery and transportation scheduling.
- The scheduling can be carried out in ERP or in TM (Sales order Scheduling)
- The system calculates the following standard dates when scheduling takes place
  - Delivery date
  - Goods issue date
  - Loading date
  - Material availability date
  - Transportation planning date
- You can find these dates in the sales order in the delivery schedule line view of the item data on the *Shipping* tab.
- These dates are the basis for transportation planning. The optimizer will respect the dates according to the settings or it will violate them if costs are acceptable.
- If the delivery date can not be met by TM, TM is able to recalculate the material availability date to communicate a reasonable material availability date to ERP when deliveries are created. Delivery creation in ERP must be set up to not do a recalculation of dates. (Customizing delivery type)
- When delivery creation is triggered from TM and the basis for delivery creation is a planned freight unit the delivery creation will use the planning result of TM and thus the deliveries are scheduled based on a feasible transportation plan. The transportation planning date is set to be equal to loading date as TM does not deliver a transportation planning date.

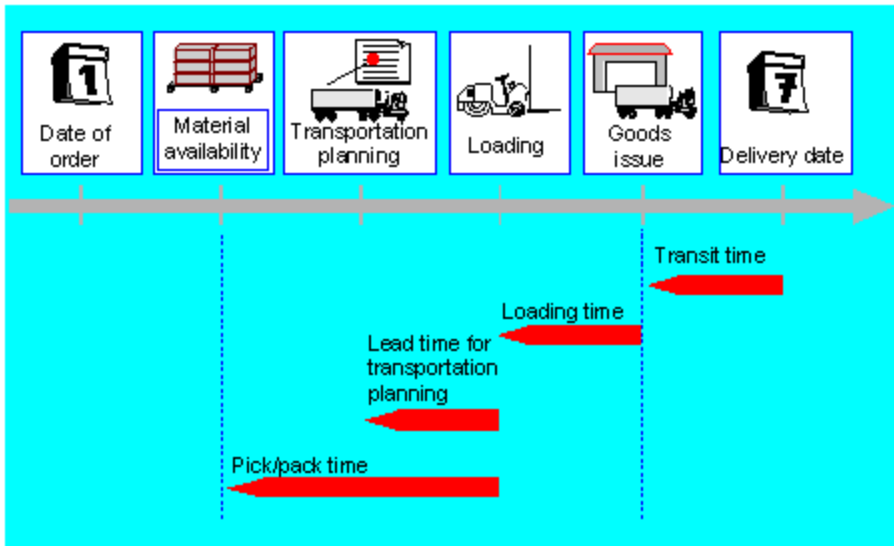


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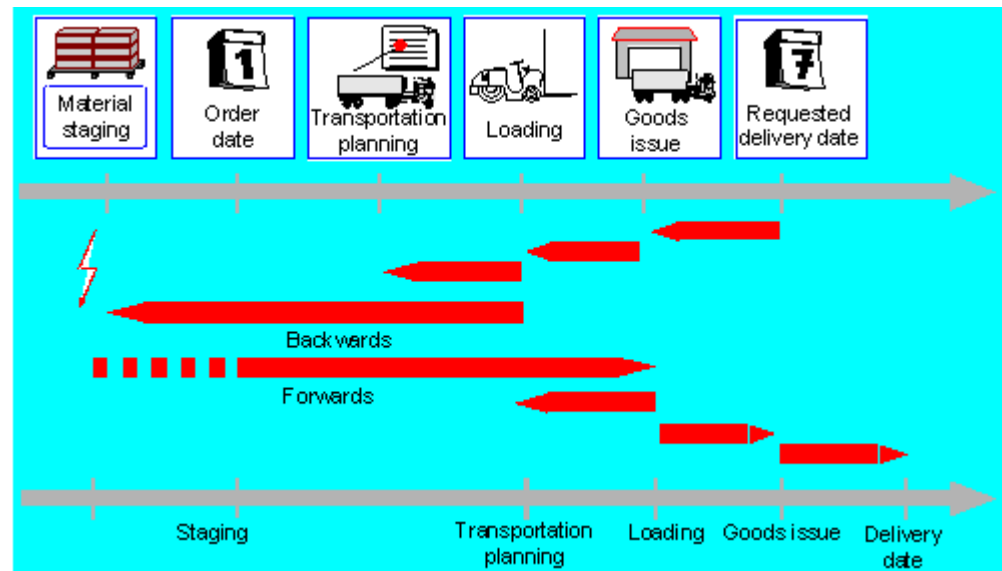
# Delivery and transportation scheduling in ERP



Shipping point, route, and weight and/or loading group determine the times in ERP.

TM also can be use for scheduling -> Sales order scheduling.

Staging date in the past -> Forward scheduling is carried out.



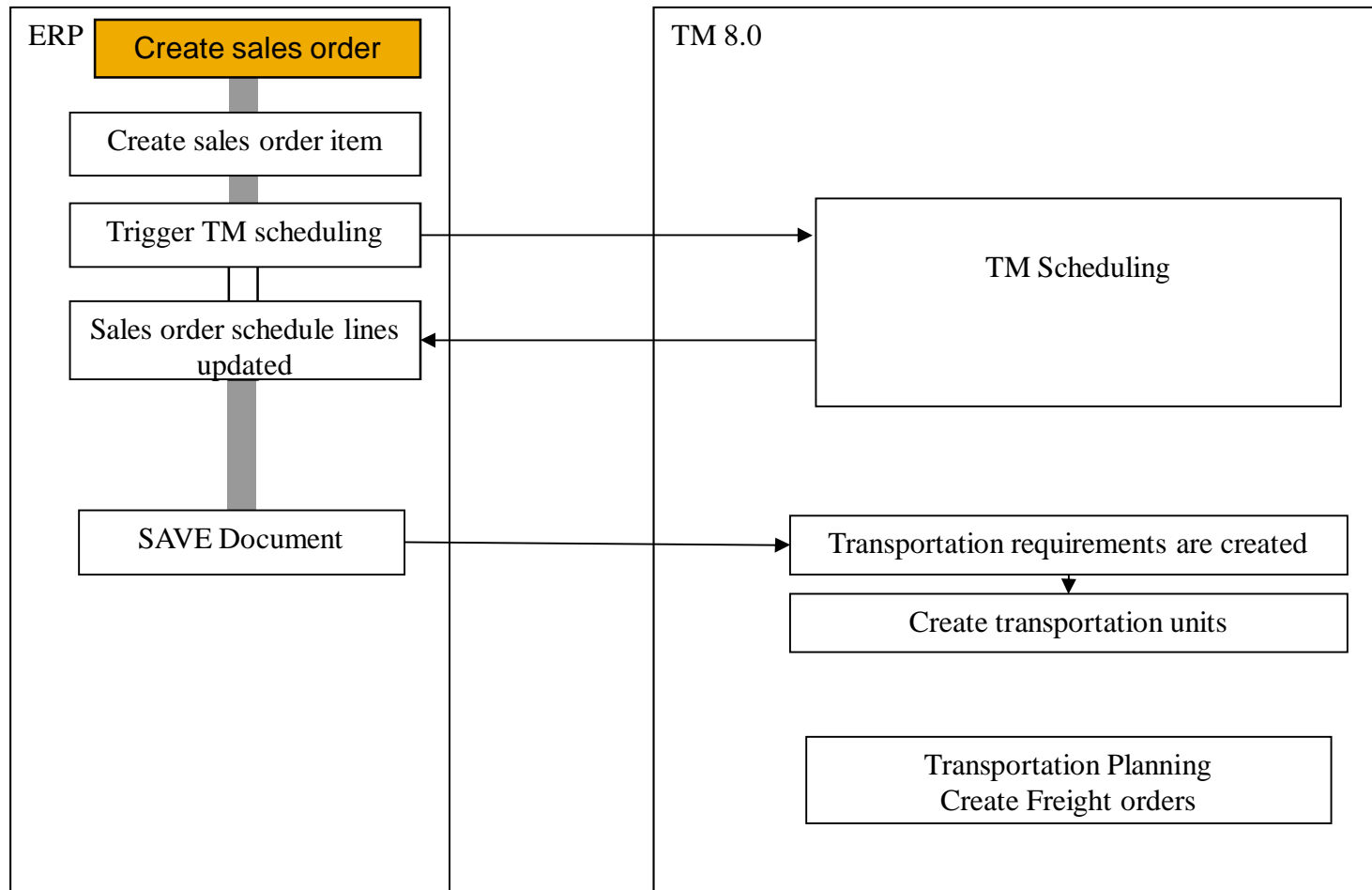
## Determination of times for scheduling in ERP



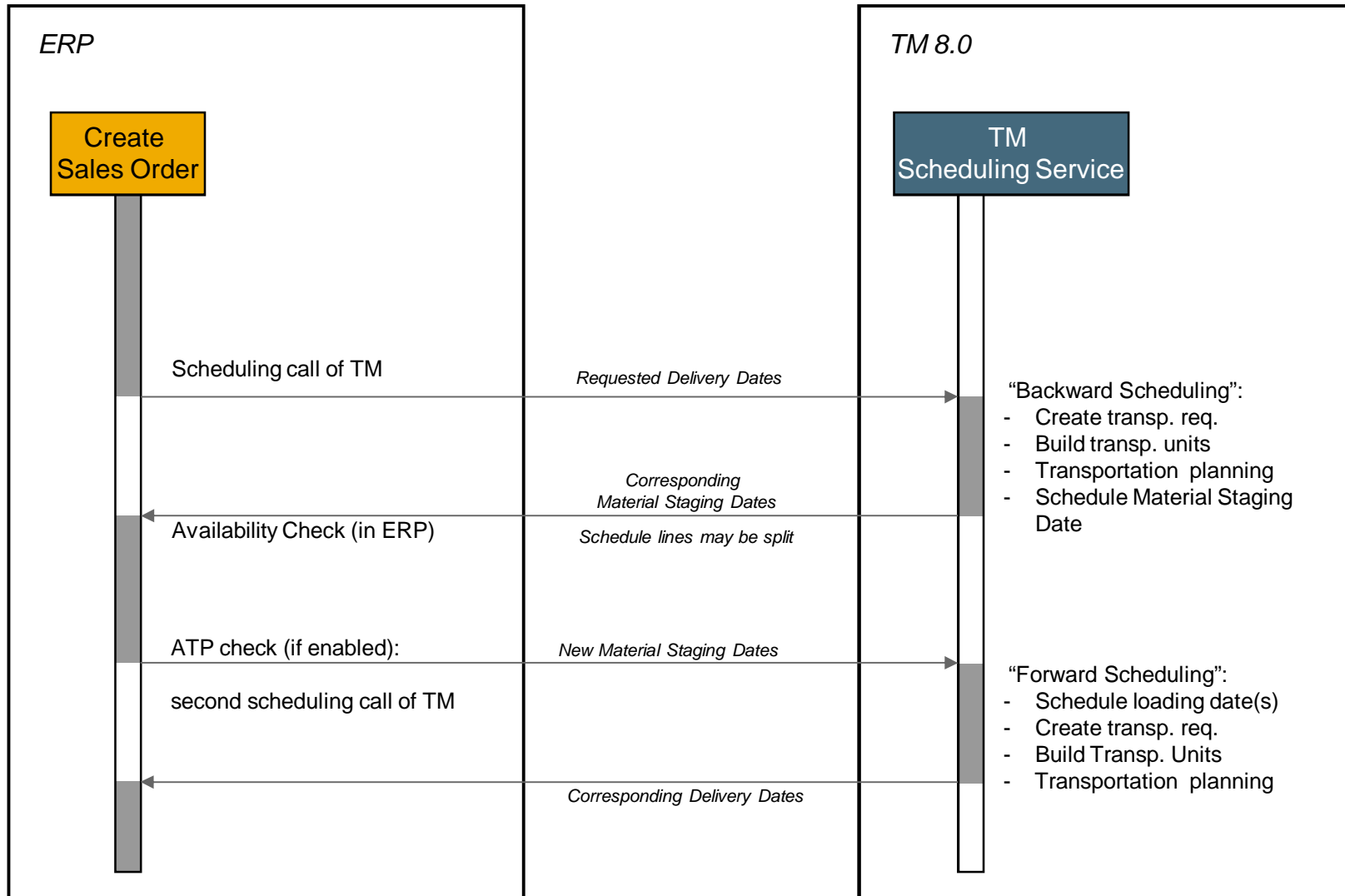
Values based on past experience of the shipping department are entered in the system in the form of transit times, loading times, pick/pack times, and transportation lead times:

- The transit time is the time in days that is required to deliver goods from your premises to the customer location. It is defined for a route.
- The loading time is the time in days that is required for loading a delivery item. It is determined from the shipping point, the route, and the loading group of the material.
- The pick/pack time is the time in days that is required for allocating goods to a delivery as well as the time in days that is required for picking and packing. It is calculated using the shipping point, the route, and the weight group of the order item.
- The transportation lead-time is the time in days that is needed to organize the shipping of the goods. This might include booking a ship and reserving a truck from a forwarding agent. It is defined for a route.

# Sales order scheduling : Create sales order



# Basic TM scheduling within ATP check Creation case



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- ERP is the leading system
- Changes in ERP will be transferred to and processed by TM
  - Order update
  - Order deletion
  - Delivery update
  - Delivery deletion
  - Subsequent delivery split
- Transportation Requirements and Freight Units will be updated in TM
- Configuration will be provided to influence the system behaviour in TM
  - Removal of freight units from transportation plan
  - Invalidation or cancelation / deletion of transportation plan
  - Cancelation or restart of running tendering processes
  - Send update / cancelation to carrier
  - Alert generation
  - ...

- In a first step, the freight units are automatically adapted
  - The system proceeds according to fixed rules
  - No configuration
- In a second step, strategies are applied to the follow-up documents
  - A strategy consists of several methods
  - A default strategy can be assigned to every TOR type
  - Strategies can also be determined based on a configuration
    - Conditions are used to determine the strategies
    - A condition can be assigned to every TOR type
    - Input of the condition may be the type of change and TOR attributes
    - Based on that input, a strategy is determined
  - Default methods and strategies will be delivered by SAP
  - Additional methods and strategies can be created by the customer





- A strategy may consist of several methods.  
The following methods will be delivered by SAP:
  - Remove freight units from transportation plan  
(with or without context determination)
  - Keep freight units in transportation plan if possible:  
no capacity overload etc.  
(with or without context determination)
  - Delete / Cancel follow-up documents
  - Restart the running tendering process
  - Cancel the running tendering process
  - Apply defined actions on follow-up documents, e.g. status change
  - Create alerts

# Item Changes



Type of change	System reaction
New item	Based on the freight unit building rule and other relevant constraints (e.g. incompatibilities), the new item is added to an existing freight unit or a new freight unit is created.
Item structure changes (e.g. packaging into handling units)	The existing freight unit items are deleted and new freight unit items are created, which represent the handling units.
Cancel/delete item	The freight unit items will be deleted (and follow-up documents will be canceled).
Cancel/delete item (Delivery)	The freight units will be reassigned to the order-based transportation requests, generating new open quantities.
Other field changes (e.g. product ID, freight group code, incoterms etc.)	The fields, which are available on the freight unit will also lead to an update of the freight unit. This could also lead to a freight unit split due to constraints like incompatibilities.

# Quantity Changes



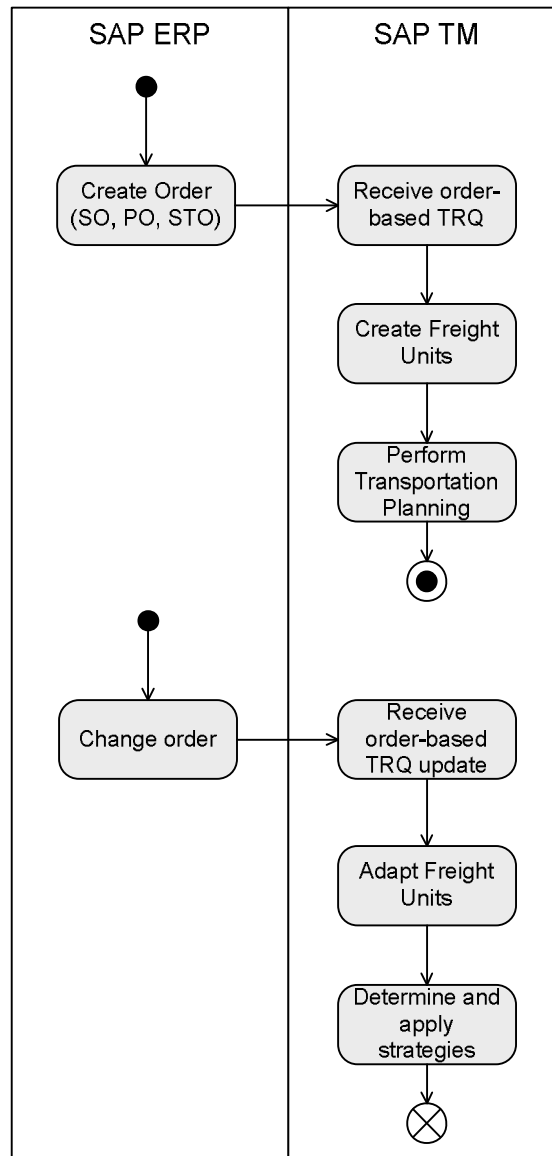
Type of change	System reaction
Quantity increase	Depending on split criteria, the quantities of existing freight units are increased or new freight units are created.
Quantity decrease	The quantities of existing freight units are decreased.
Unit of measure changes	Processed as quantity increase or decrease.
Confirmed vs. requested quantity	Freight units can be created based on requested or confirmed quantities. This can not be changed afterwards.
Item completion	TRQ items are marked as completed when no further delivery is expected in ERP. In case unconsumed freight units still exist (e.g. cancellation/rejection of items in ERP, delivery tolerance reached), they are removed from the plan and deleted. The open quantity is set to 0.

# Changes of Date / Time, Location,

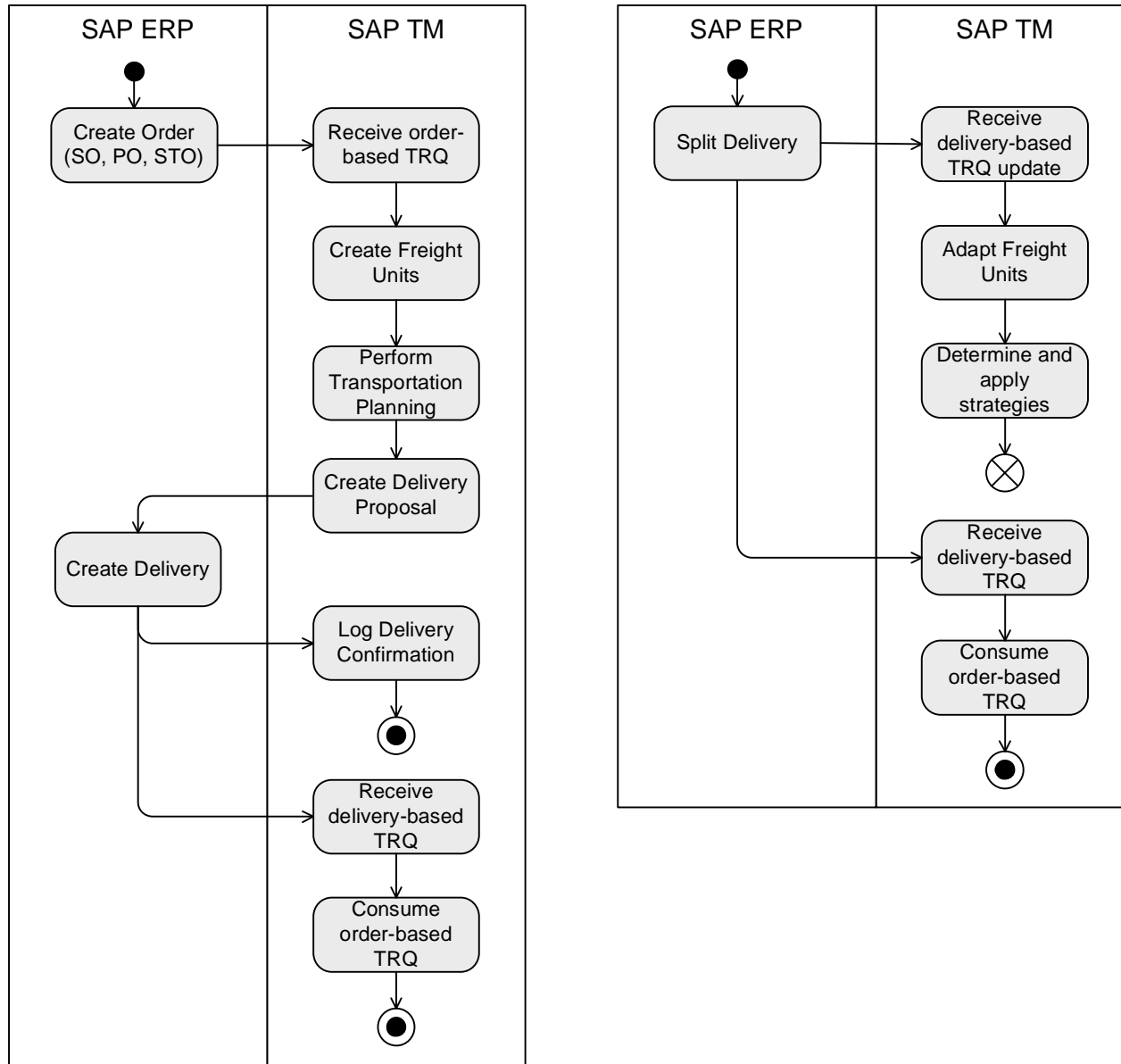


Type of change	System reaction
Date change (pickup date, delivery date)	The date / time changes, which are relevant for the freight units are propagated to the freight units. This could lead to a freight unit split.
Location change (start / destination / intermediate stop) New intermediate stop Changed sequence of intermediate stops	The FU item will be deleted. Based on the freight unit building rule and other relevant constraints (e.g. incompatibilities), a new item is added to an existing freight unit or a new freight unit is created.

# Order Update



# Subsequent Delivery Split in ERP

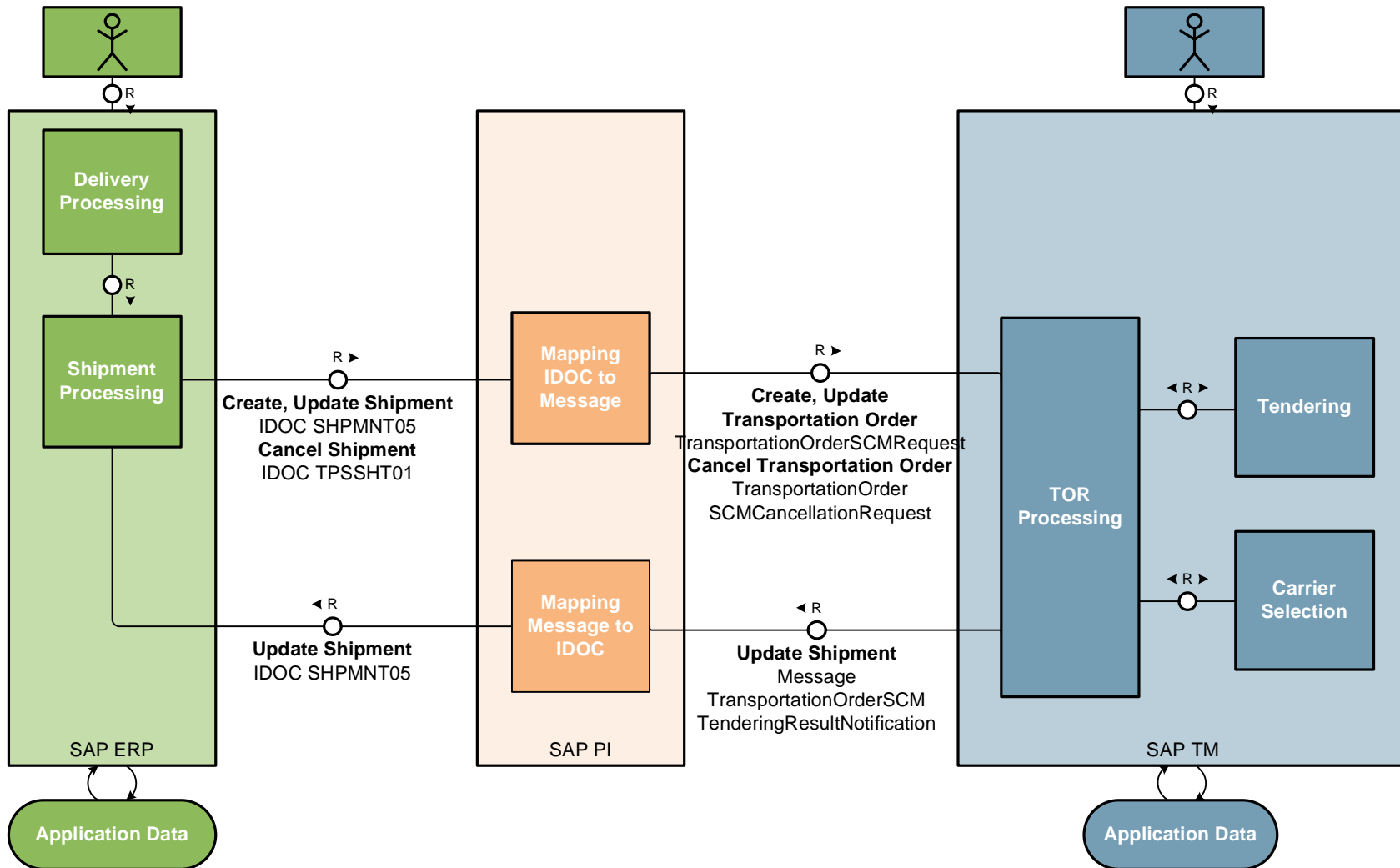


# Agenda



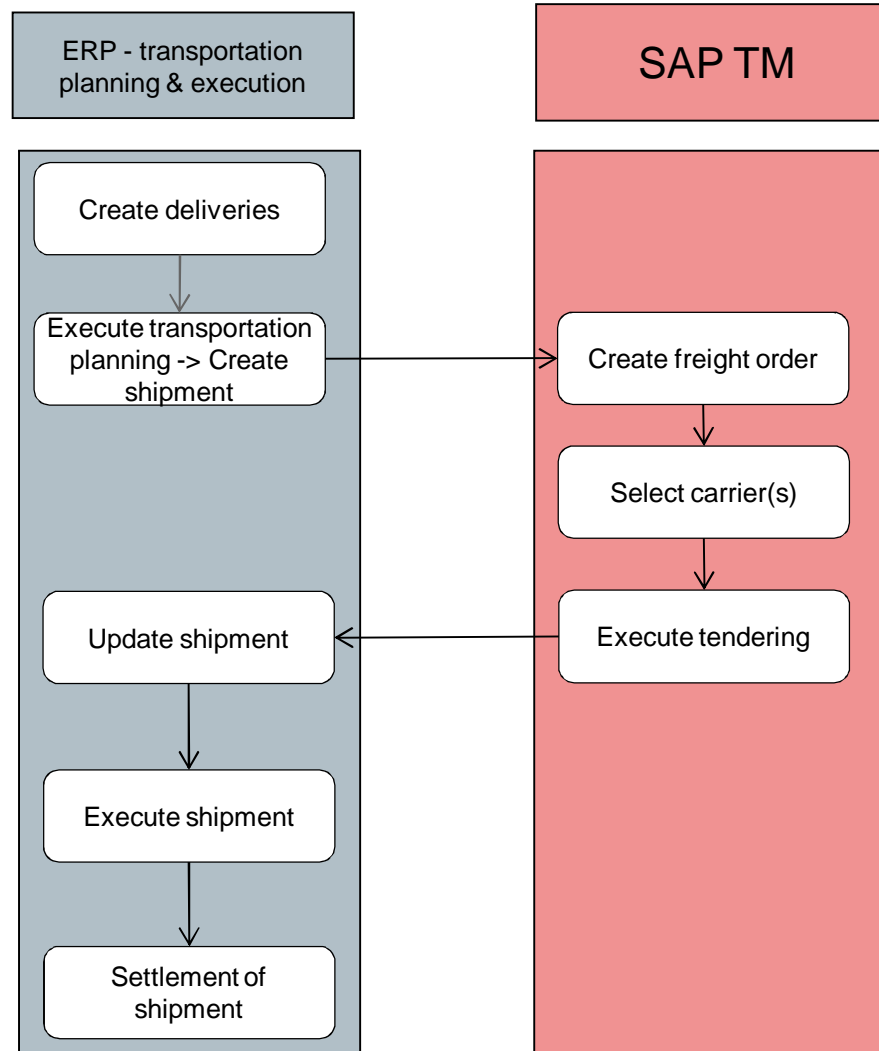
1. Basics : CIF
2. Order Integration
  - 2.1. Possible Integration Scenarios
  - 2.2. Service-based Integration
  - 2.3. Change Management
  - 2.4. Error Handling
  - 2.5. System demo
- 3. Inbound shipment integration**
  - 3.1. Possible Integration Scenarios**
  - 3.2. System demo**
4. Outbound shipment integration
  - 4.1. Possible Integration Scenarios
  - 4.2. System demo
5. eWM integration (planned for TM9.0)
  - 5.1. Possible Integration Scenarios

# Building blocks / message overview inbound shipment integration

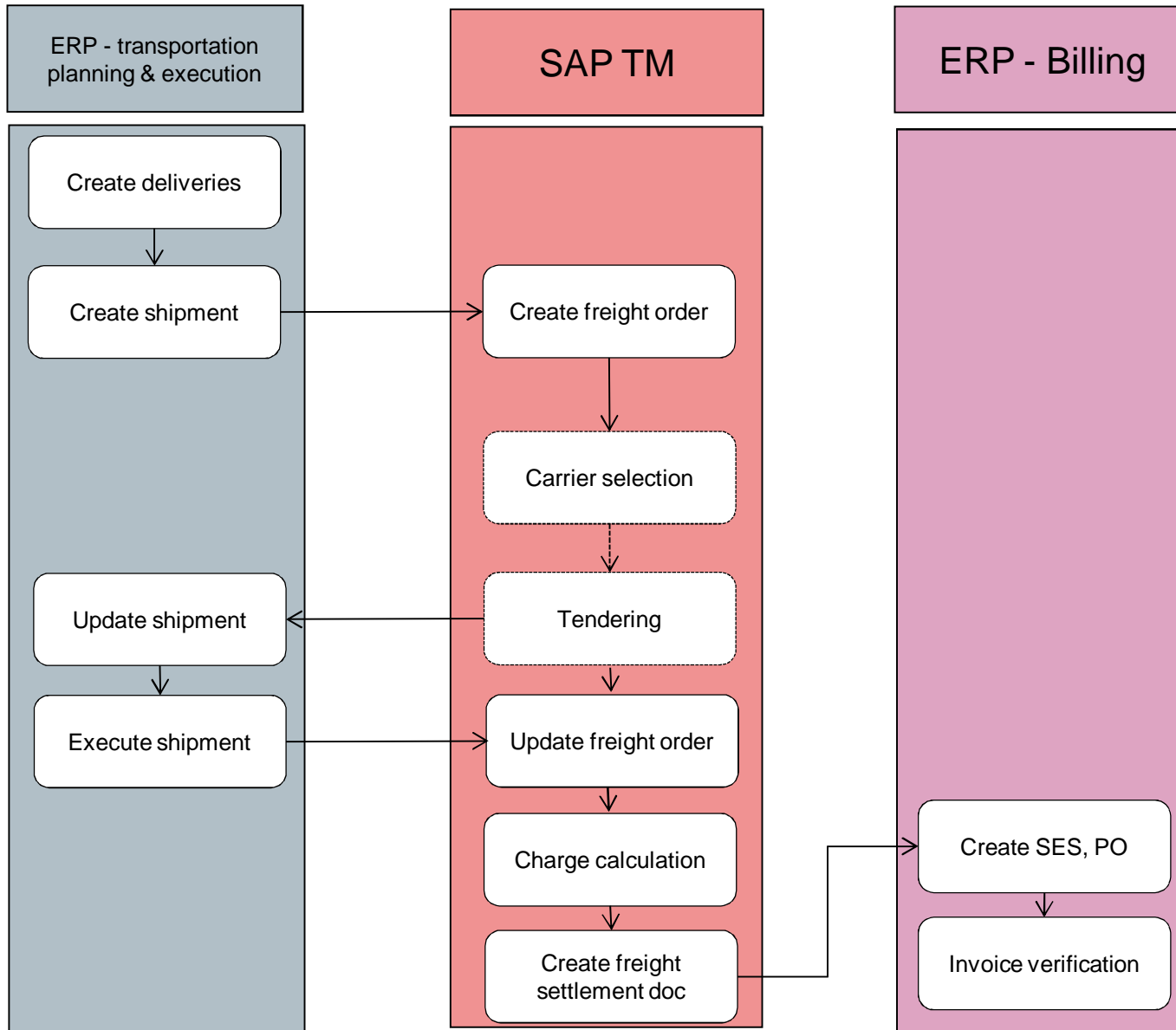




# Inbound shipment integration for tendering purposes



# Inbound shipment integration with charge calculation in TM



# Restrictions and remarks of the inbound shipment integration scenario



## Restrictions of the Shipment Integration with SAP TM

- All stages must have the same carrier
- All stages must have the same shipping type (rail / sea / air / ..)
- Each delivery within the shipment must be assigned to at least one stage

### **Remark**

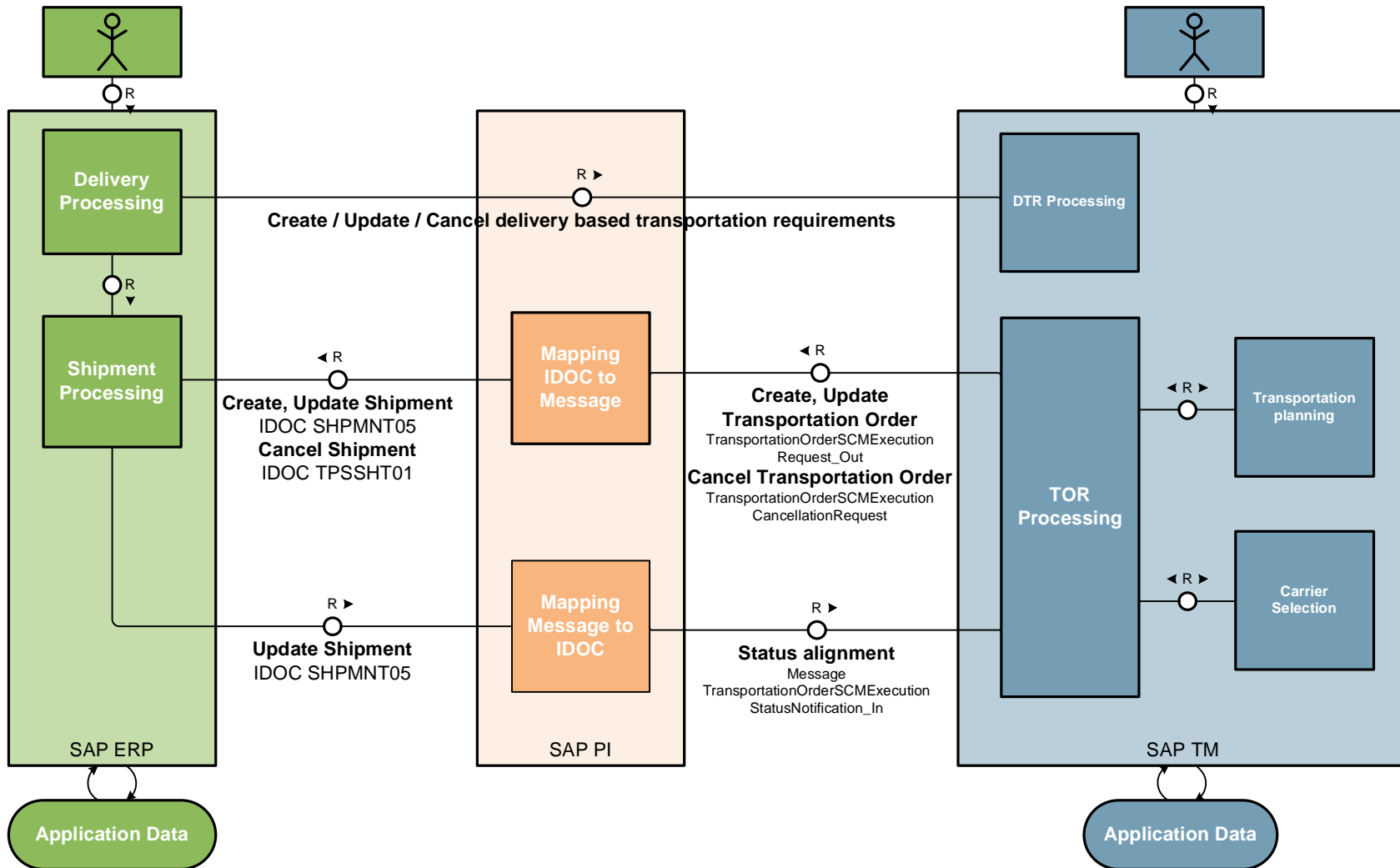
- The shipment integration scenario is available with TM 8.0 SP01 and higher
- External and internal number range supported for freight orders
- Consulting note 1527545 describes how to set up the shipment integration. It also includes necessary coding for BAdI implementations

# Agenda

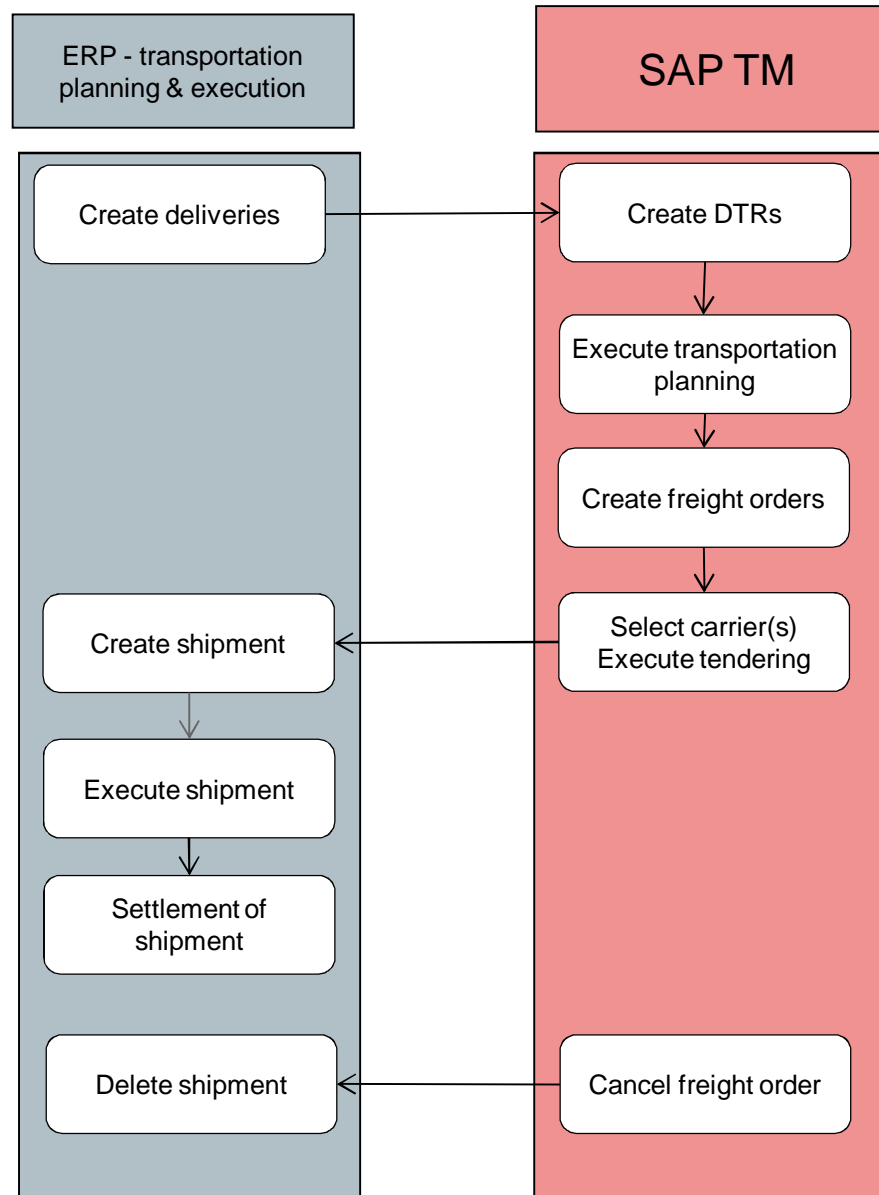


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  - 5.1. Possible Integration Scenarios

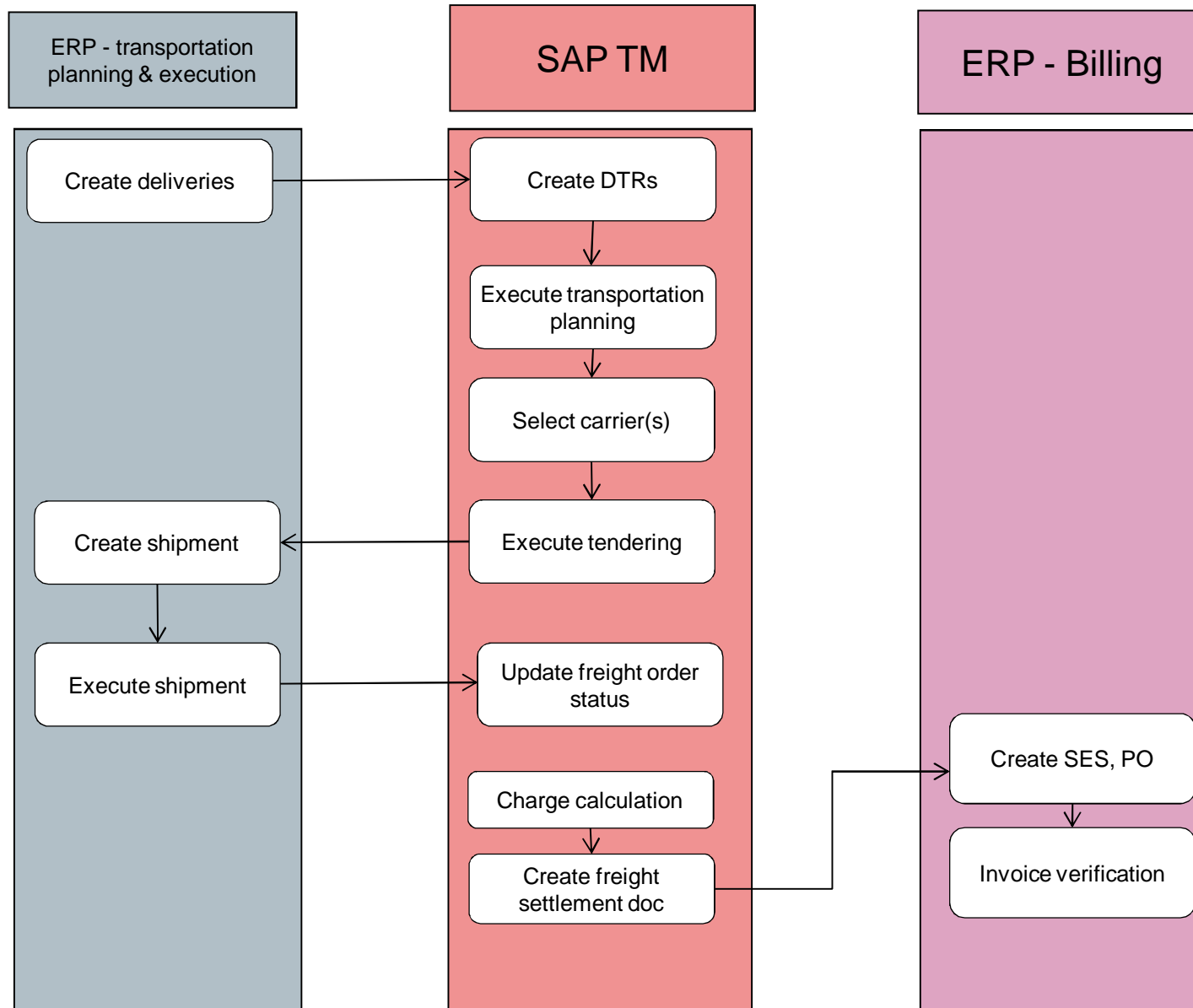
# Building blocks / message overview outbound shipment integration



# Outbound shipment integration for tendering purposes



# Outbound shipment integration for tendering purposes



# Restrictions and remarks of the inbound shipment integration scenario



## Trigger for message creation in TM

- Via freight order-UI (Follow up -> Create ERP shipment)
- Via batch report /SCMTMS/TOR\_FO\_PROC\_BATCH

## Restrictions of the Shipment Integration with SAP TM

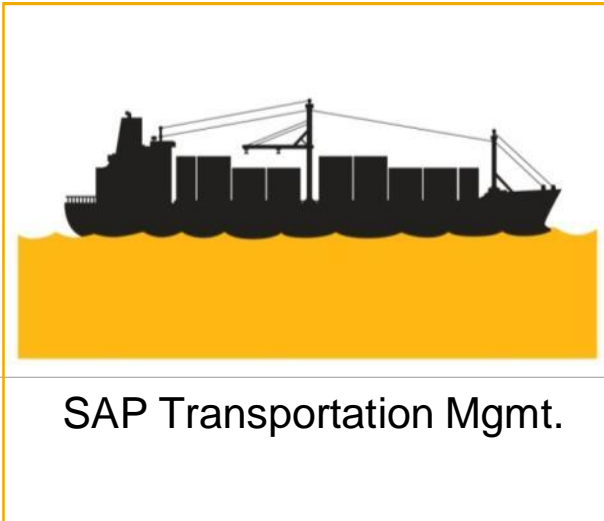
- Static mapping of transportation planning point in PI
- Only external number range in ERP (freight order number equal to ERP shipment number)
- Status update available as of TM9.0



# Agenda



1. Basics : CIF
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  - 4.2. System demo
5. **eWM integration (planned for TM9.0)**
  - 5.1. **Possible Integration Scenarios**



## Integration of TM and EWM via ERP

ERP Order based

ERP Delivery Based

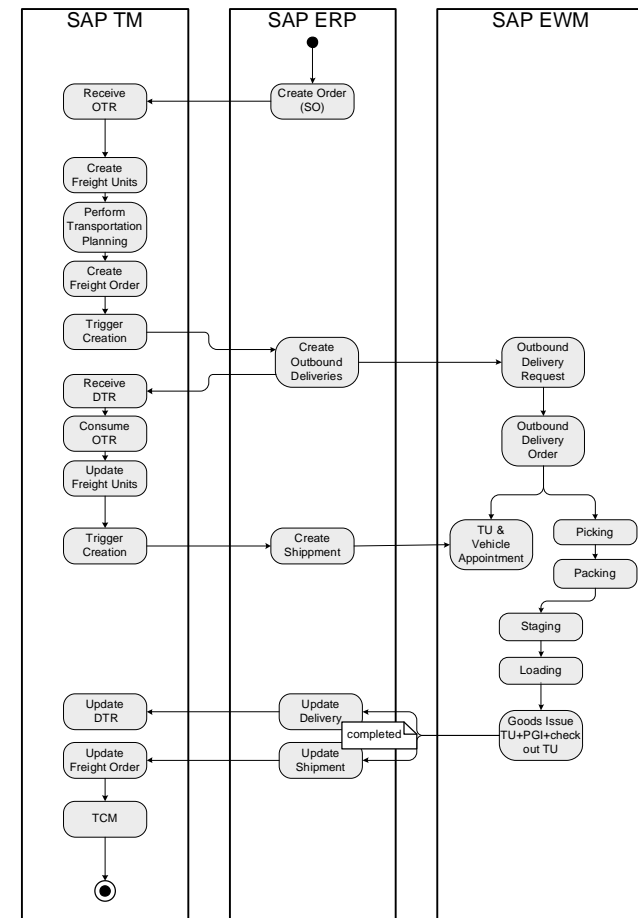
EWM Scenario

Stop-Restart Scenario



## ■ Shipper Outbound Scenario

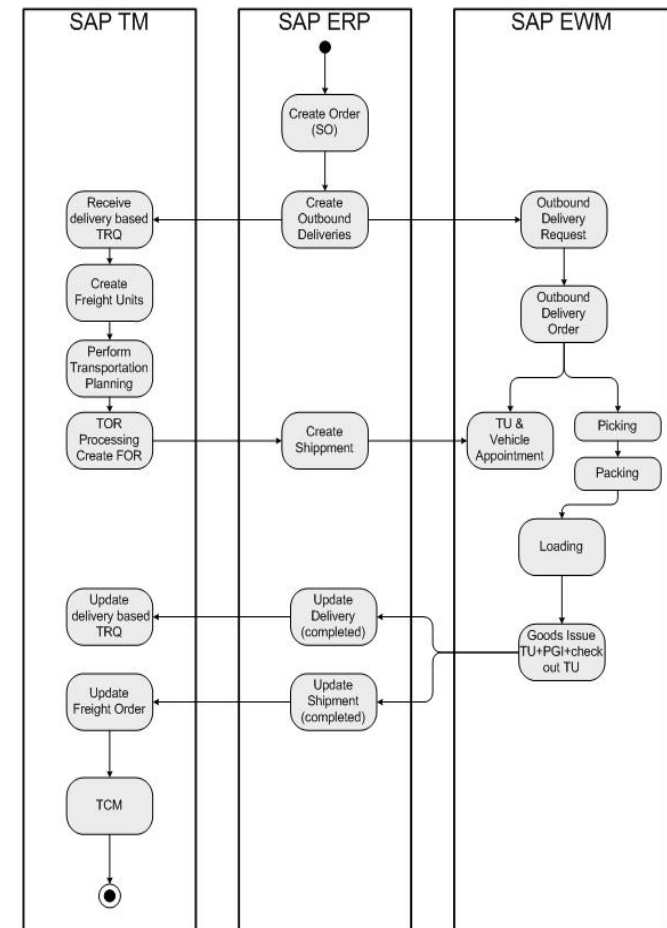
- ERP Sales Order based
- TM triggers creation of delivery
- TM triggers creation of shipment (LE-TRA)
- EWM gets both: delivery and shipment
- Execution of picking, packing, staging and loading in EWM
- Goods issue in EWM triggers update of delivery and shipment in ERP with actual data (weight, dates etc.)
- TM 9.0, EWM 9.0, ERP EhP6





## ■ Shipper Outbound Scenario

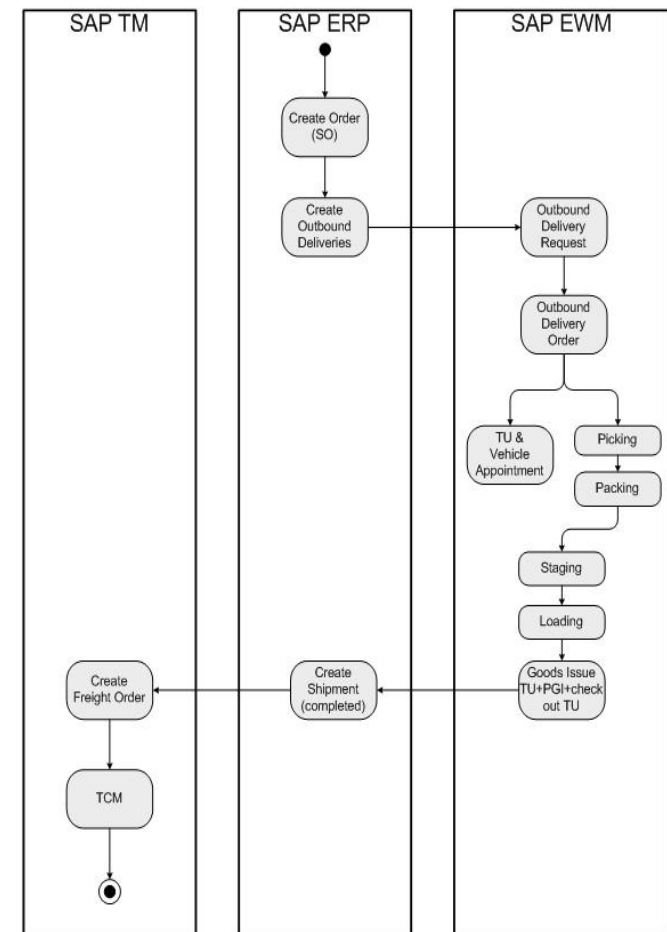
- ERP Delivery based
- ERP creates delivery
- TM triggers creation of shipment (LE-TRA)
- EWM gets both: delivery and shipment
- Execution of picking, packing, staging and loading in EWM
- Goods issue in EWM triggers update of delivery and shipment in ERP with actual data (weight, dates etc.)
- TM 9.0, EWM 9.0, ERP EhP6





## ■ EWM Scenario

- ERP Delivery based
- ERP creates delivery
- ERP sends delivery to EWM
- Execution of picking, packing, staging and loading in EWM
- Goods issue in EWM triggers update of delivery in ERP with actual data (weight, dates etc.)
- shipment created within ERP for involved deliveries
- ERP sends shipment to TM
- Transportation Cost Management in TM
- TM 9.0, EWM 9.0, ERP EhP6

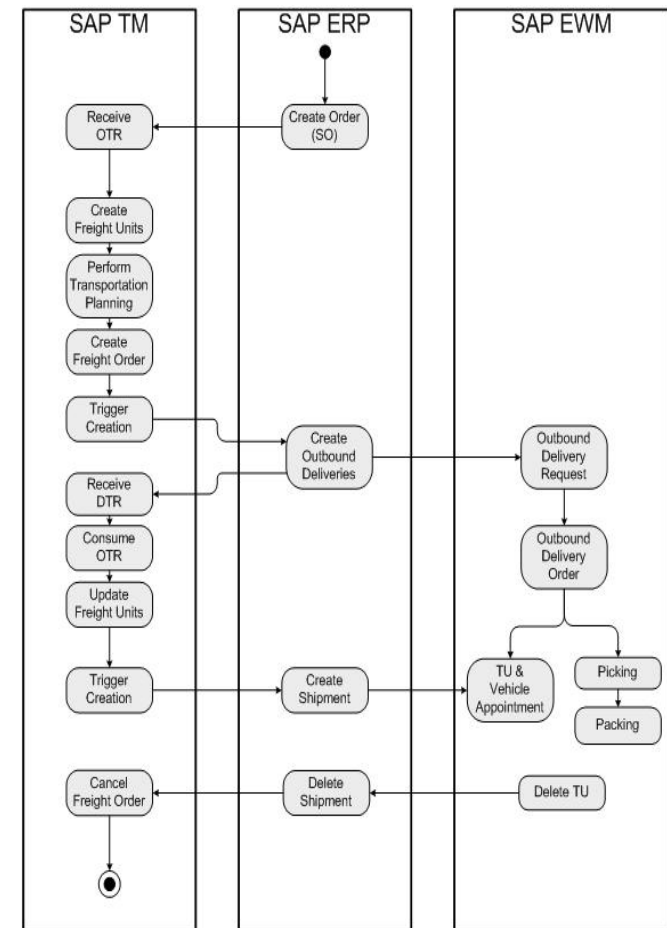


# Stop-Restart Scenario



## ■ Shipper Outbound Scenario

- ERP Sales Order based
- TM triggers creation of delivery
- TM triggers creation of shipment (LE-TRA)
- EWM gets both: delivery and shipment
- Execution of picking, packing in EWM
- Process stopped manually and TU deleted in EWM
- Shipment deleted in ERP
- Freight Order cancelled in TM
- TM 9.0, EWM 9.0, ERP EhP6





# Appendix

General Link [to Solution Manger Documentation](#)

- How to get Solution Manager Content Support Package:  
[service.sap.com/patches](https://service.sap.com/patches) -> Browse our Download Catalog -> SAP Technology Components -> SAP Solution Manager -> SAP Solution Manager 7.0 EhP 1 -> Entry by Component -> SAP Solution Manager ABAP Stack -> ST-ICO 150\_700 -> Support Packages [lution Manger Documentation](#)
- [Description on how to setup implementation projects with Solution Manager](#) (aka how to get hold of the config guides).
- Direct link to [SAP Solution Manager Content](#) -> Solutions/ Applications -> SAP Transportation Management



TM8.1 Documentation <http://help.sap.com/transportationmanagement81>

ERP Logistics integration

[http://help.sap.com/saphelp\\_tm81/helpdata/en/04/474a8485384e3fbfcb346d943b3217/frameset.htm](http://help.sap.com/saphelp_tm81/helpdata/en/04/474a8485384e3fbfcb346d943b3217/frameset.htm)

TM8.1 Documentation <http://help.sap.com/transportationmanagement80>

ERP Logistics integration

[http://help.sap.com/saphelp\\_tm80/helpdata/en/bf/7d10296a854899b545daf4d21d3a5d/frameset.htm](http://help.sap.com/saphelp_tm80/helpdata/en/bf/7d10296a854899b545daf4d21d3a5d/frameset.htm)

- To enable integration of orders and deliveries some business functions need to be activated in the ECC system.
  - Basic functionality : transfer of orders and deliveries
    - LOG\_TN\_ORD\_INT for ECC6.05
    - LOG\_TN\_ORD\_INT\_TRQ for ECC6.04
  - Additional functions which may be used/needed optionally
    - Please refer to OSS note 1530240. The note (under topic 6.) refers to business functions which can optionally be needed and explains the context and reason to use them.



Thank You!



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**Questions?**





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