TMC SEA/AIR

TRAINING SEA FREIGHT: LSP MAIN FCL/FCL - TMS
## Agenda

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**Introduction**

**BOSCH TMC and TMS**

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**TMC**

= Transport Management Center

The TMC is a cross-divisional unit that is pre-planning, optimizing and coordinating transports as well as handling transport exceptions.

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**TMS**

= Transport Management System

- The TMS is an IT system with a web-based user interface.
- The TMS consists of a transport management module (TM) and a freight cost management module (FM).
- BOSCH plants, suppliers, carriers work with the TMS.

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[Diagram showing TMC and TMS connections with BOSCH Plants, Carriers, Suppliers, and Customers]
Introduction

Modules of the TMS

Transport Management (TM)
- Creation of transport orders
- Release of loads to carrier
- Documentation of transport status

Freight Cost Management (FM)
- Calculation of transport costs based on transported volumes and tariffs
- Automated credit note preparation
- Handling of carrier cost claims

→ Used by plants, TMC, suppliers/customers and carriers

→ Used by TMC and carriers
Introduction
Benefits of TMS

- Standardization of transport ordering by using new TMS.
  - Includes all relevant functionalities for transport ordering
  - One solution for all transports going to BOSCH
  - Easy to use

- Standardization of transports by using defined routes that all parties agreed upon.
  - Increased reliability

- Transparency of transport orders (TOs) / loads for BOSCH plants, suppliers and carriers.
  - Overview of all transport orders / loads
  - Search, filter functions, order history

- Exception management coordinated and reported by the TMC.
  - Single point of contact
  - Solution oriented
# Agenda

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</table>
Setup
Transport order (TO) vs. load

Transport Order 1 (TO1)
Load1 = TO1
Load2 = TO2
Supplier A
Supplier B

Transport Order 2 (TO2)
Load3 = TO1 + TO2

Handover point (e.g. POD, warehouse)
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Daily business

Just three steps to ensure a reliable transport process

- Fill load details after receiving a load assignment
- Transport goods with documentation & set status in system
- Hand over & upload documents
1. Open your internet browser and go to: http://solutions.inet-logistics.com/ls/Login?Lang=EN&Branding=BOSCH

2. Type in your username and password

3. Press “Start” to log into the TMS.
   You have to change your password the first time you log in

   The password has to contain characters, digits and at least one special character (e.g. !@#$%^&*()_+|~-=`\;'{}[]:";<>?,./). The minimum password length is 8 characters.
In the TMS the following masks are available:

1. **Freight costs**
   Freight cost claims can be placed here.

2. **Quote request** (not relevant)
   Shows overview of all quote requests for additional transports.

3. **Loading List**
   Shows overview of all loads. The “Goods collected/delivered” status is set here.

4. **Menu**
   Configuration of default values
System demo

Loading list

The loading list provides an overview on all loads assigned to a specific carrier. It is the starting point for the:

- Filling of load details
- Status setting
- Document up-/download
System demo
Load details (1/3)

Load header with the details of the transport:

- Assigned carrier
- Load status
- Transport start date and time
- Transport end date and time
- Service (e.g. Sea FCL; Air etc.)
- Service level (e.g. LCL-FCL)
- Route description
Sea/ Air freight specific details of current load:

- Equipment
- Shipping line
- Air carrier
- POL, POD
- Airport of departure/destination
- ETD, ETA
- B/L, AWB
- Etc.
In the section “Transport list” you see an overview of all transport orders that are part of this load. A load can contain one or more transport orders.

- Pick-up and delivery sequence
- Transport order status
- Pick-up and delivery address
- Pick-up and delivery date time
- Volume/ weight

For more transport details click on transport order number.
System demo
Transport order details

By clicking on the transport order number the transport order details will be shown.

The mask for transport order details is divided into four main parts:

- Order header with main transport order details
- Address information of consignor and recipient
- Transport details and times
- Package information and quantity and article information and quantity
Daily business
Just three steps to ensure a reliable transport process

1. Fill load details after receiving a load assignment
2. Transport goods with documentation & set status in system
3. Hand over & upload documents
Tasks of carriers in the TMS

Receive container forecast

A container forecast on OD level will be provided by email on a weekly base:

- **Horizon**: 2 weeks
- **Week n+1**: Forecast of containers to be picked-up on daily base
- **Week n+2**: Forecast of containers to be picked-up on weekly base

In case additional recipient are required for the container forecast, feel free to contact the TMC

<table>
<thead>
<tr>
<th>Loading Location of Container</th>
<th>Delivery Location of Container</th>
<th>Mode</th>
<th>Equipment Code</th>
<th>Equipment Description</th>
<th>Carrier</th>
<th>CWn+1 (Mon)</th>
<th>CWn+1 (Tue)</th>
<th>CWn+1 (Wed)</th>
<th>CWn+1 (Thu)</th>
<th>CWn+1 (Fri)</th>
<th>CW n+2 (Sum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplier 1</td>
<td>Werk 1</td>
<td>FCL</td>
<td>45G0</td>
<td>40' High Cube</td>
<td>Carrier 1</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Supplier 2</td>
<td>Werk 1</td>
<td>FCL</td>
<td>45G0</td>
<td>40' High Cube</td>
<td>Carrier 1</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>
Tasks of carriers in the TMS

Load assignment

An email will be sent as a load is assigned containing the load’s assignment list.

The assignment list contains:

- Pickup address and time window
- Delivery address and time window
- Pickup volume
System demo
How to enter load details?

The carrier is responsible for entering load details, e.g. vessel name, in the TMS.
For entering load details you have to follow these steps:

- Step 1: Select the relevant load
- Step 2: Enter load details
How to enter load details?

Step 1: Select the relevant load

1. Go to loading list
2. Click on button "Selection of assigned load": Overview of all assigned, collected and delivered loads
3. Click on button "Selection": Function for the searching by e.g. loading number, status of load or self-defined time periods
4. Click on the number of the relevant load. A new mask with the load details will open.
How to enter load details?

Step 2: Enter load details (1/III)

1. Enter “Shipping line”
2. Enter Places and ports of loading/delivery
3. Enter ETD/ATD/ETA/ATD
4. Enter M B/L number
5. Enter Ocean vessel name and Voyage no. and booking number
6. Save your changes by clicking on the “Save changes” button.
How to enter load details?
Step 2: Enter load details (2/III)

1. Select function “Save House AWB / B/L on transport order(s)

2. Select one or more TOs by marking the checkbox ✔

* HINT: In case all TOs belong to the same H B/L, you can mark the checkbox above to mark all TOs in one step

3. Enter H B/L of respective TO(s)

4. Store H B/L no. by clicking the button “Apply function on selected transport order(s)”

5. Entered H B/L no. is shown below Transport order no.
How to enter load details?

Step 2: Enter load details (3/III)

1. Enter Container ID
2. Enter seal no.
3. Enter VGM [kg] and Tare weight of container [kg]
4. Save your changes by clicking on the “Save changes” button.
System demo

Just three steps to ensure a reliable transport process

1. Fill load details after receiving a load assignment
2. Transport goods with documentation & set status in system
3. Hand over & upload documents
# How to set a status?

## Status of a load

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assigned</td>
<td>Load has been assigned to the carrier</td>
</tr>
<tr>
<td>Collected</td>
<td>Load/TO has been collected</td>
</tr>
<tr>
<td>Gate In</td>
<td>Load has arrived at container terminal at POL</td>
</tr>
<tr>
<td>Loaded on Vessel</td>
<td>Load has been loaded on ocean vessel at POL</td>
</tr>
<tr>
<td>Unloaded from Vessel</td>
<td>Load has been unloaded from ocean vessel at POD</td>
</tr>
<tr>
<td>Gate Out</td>
<td>Load has departed from container terminal at POD</td>
</tr>
<tr>
<td>Delivered</td>
<td>Load/TO has been delivered (arrival at plant gate)</td>
</tr>
<tr>
<td>Billing case created</td>
<td>Load/TO is now available in the FM module</td>
</tr>
<tr>
<td>Goods received</td>
<td>Load/TO has been received by the recipient</td>
</tr>
<tr>
<td>Attached</td>
<td>Load/TO is now available in the FM module</td>
</tr>
<tr>
<td>Priced</td>
<td>The price of the load/TO has been calculated</td>
</tr>
<tr>
<td>Clearable</td>
<td>The load/TO can be cleared in the next billing run</td>
</tr>
<tr>
<td>Cleared</td>
<td>A billing run has been conducted and credit note data has been transferred to BOSCH SAP for freight cost clearance</td>
</tr>
</tbody>
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### Status Codes
- **TM status**
- **FM status**
- **Leg status (T&T only)**
How to set a status?
Required TM status and triggering events

The status has to be set immediately after the triggering event:

- **Pickup at CC**
  - Same day EOB: Collected

- **Handover to sea freight carrier at POL**
  - Same day EOB: Gate In

- **Loading on ocean vessel at POL**
  - Next day EOB: Loaded on Vessel

- **Unloading from ocean vessel at POD**
  - Next day EOB: Unloaded from Vessel

- **Handover to sea freight carrier at POD**
  - Same day EOB: Gate Out

- **Delivery to handover location**
  - Same day EOB: Delivered
System demo

How to set the “Goods collected” status?

The carrier is responsible for entering the “Goods collected” status shortly after pick-up.

For setting the “Goods collected” status you have to follow these steps:

- **Step 1:** Go to “Enter Status”
- **Step 2:** Select date and time of pick-up
- **Step 3:** Confirm the “Goods collected” status
How to set a status?

Step 1: Go to “Enter Status”

1. Go to loading list

2. Click on button "Selection of assigned load".

3. Click on button “Enter status” for the relevant load.
How to set a status?
Step 2: Select date and time of status

1. Select status
2. Select date of pick-up
3. Enter time of status event (Please use the format hh:mm e.g. 08:00)
4. Click on button “copy value” to enter the status for all TOs on this load
How to set a status?
Step 3: Confirm the status setting

1 Confirm status setting by clicking on the “Save” button
System demo

Just three steps to ensure a reliable transport process

1. Fill load details after receiving a load assignment
2. Transport goods with documentation & set status in system
3. Hand over & upload documents
System demo
How to upload documents?

The carrier is responsible for uploading the sea freight relevant documents:
- Sea waybills incl. container manifest
- VGM certificate

For uploading documents you have to follow these steps:

- Step 1: Select the relevant load
- Step 2: Access document management
- Step 3: Upload documents
How to upload documents?
Timeline for document upload

- Pickup at supplier
- Handover to sea freight carrier at POL
- Loading on ocean vessel at POL
- Unloading from ocean vessel at POD
- Handover to sea freight carrier at POD
- Delivery to handover location

Upload sea freight documents (latest acc. to vessel departure)
How to upload documents?

Step 1: Select the relevant load

1. Go to loading list
2. Click on button "Selection of assigned load": Overview of all assigned, collected and delivered loads
3. Click on button "Selection": Function for the searching by e.g. loading number, status of load or self-defined time periods
4. Click on the number of the relevant load. A new mask with the load details will open.
How to upload documents?

Step 2: Access document management

Access document management by clicking on button „Documents“.
How to upload documents?

Step 3: Upload documents

1. Select relevant document type from the dropdown menu
2. Click on “Browse” button to search for the file to be uploaded
3. Click on “Add” to upload the document.
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## Tasks of carriers in exception handling

### Exceptions in transport management

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<tbody>
<tr>
<td>Carrier is late for pick up with notification</td>
</tr>
<tr>
<td>Carrier fails to pick up advised volume</td>
</tr>
<tr>
<td>Carrier has lost the shipment</td>
</tr>
<tr>
<td>Load damage</td>
</tr>
<tr>
<td>Customs issue</td>
</tr>
<tr>
<td>Carrier is late for delivery with notification</td>
</tr>
<tr>
<td>Recipient delays delivery</td>
</tr>
<tr>
<td>Documents (e.g. MRN) are not uploaded into iTMS</td>
</tr>
</tbody>
</table>

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Tasks of carriers in exception handling

What to do in case of an exception?

In case an exception occurs please always contact the TMC via phone or e-mail!

**Carriers are responsible for:**
- Contacting the TMC in case an exception occurs
- Communicating precisely (Load number, issue)
- Supporting the exception solving process

**The TMC is responsible for:**
- Handling of exceptional situations
- Coordinating and controlling the exception solving process
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Support

Internet browsers

Please use the following link to get access to the TMS:

English:

German:
### Glossary

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<th>Abbreviations</th>
<th>Explanations</th>
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<td>AOR</td>
<td>Alternative Operative Route</td>
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<tr>
<td>FM</td>
<td>Freight Cost Management</td>
</tr>
<tr>
<td>FTL</td>
<td>Full truck load</td>
</tr>
<tr>
<td>LSP</td>
<td>Logistics Service Provider</td>
</tr>
<tr>
<td>LTL</td>
<td>Less than truck load</td>
</tr>
<tr>
<td>OD</td>
<td>Origin-Destination</td>
</tr>
<tr>
<td>POD</td>
<td>Proof of delivery</td>
</tr>
<tr>
<td>PU/DL</td>
<td>Pick up/Delivery</td>
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<tr>
<td>RB</td>
<td>Robert Bosch</td>
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<tr>
<td>RT</td>
<td>Round Trip</td>
</tr>
<tr>
<td>SL</td>
<td>Service Level</td>
</tr>
<tr>
<td>SOR</td>
<td>Standard Operative Route</td>
</tr>
<tr>
<td>TM</td>
<td>Transport Management</td>
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<td>TMC</td>
<td>Transport Management Center</td>
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<td>TMS</td>
<td>Transport Management System</td>
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<tr>
<td>TO</td>
<td>Transport Order</td>
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<td>T&amp;T</td>
<td>Track and Trace</td>
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</table>
# Document change history

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Reference</th>
<th>Description of change</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0</td>
<td>24.10.2017</td>
<td>4flow / M. Vogt</td>
<td>Revised version by 4flow and CP/LOT - ready for final approval by CP/LOT-EU5</td>
<td></td>
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