UNOE TRANSPORTATION MANAGEMENT
END TO END PROCESS

Transportation Planning and Management and Track & Trace (TPTM-T&T project)

Elena Carrasco Comes / UCS Training Team, Valencia / Tuesday, October 15th
<table>
<thead>
<tr>
<th>PROCURE UNOE</th>
<th>PLAN</th>
<th>PROCURE FREIGHT</th>
<th>EXECUTE &amp; MONITOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requisitioner</td>
<td>Create Shopping Cart</td>
<td>Freight Forwarder Stage</td>
<td></td>
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**Procurement Plan**
- Goods Vendor Stage: FOB/FCA/ DAT/DAP
- Freight Forwarder Stage: EXW / FCA/ FOB/ DAT

**Procure Freight**
- Goods Vendor Stage: FCA/ FOB/ DAT/DAP
- Freight Forwarder Stage: EXW / FCA/ FOB/ DAT
• [Shopping Cart]: Contract Catalog will be used as preferred option. If so, same PID will be offered with different Incoterms (hence, different prices).

• [Shopping Cart]: Incoterm terms from contract catalog are not picked up in the Shopping Cart line. If populated, it needs to be inserted manually. Incoterm key shall be selected by using Matchbox. Location is free text

• [Shopping Cart]: Purchasing Group (SRM) will default the Planner Group (TM) that will have visibility on the DTR to be planned. Purchasing group and planner group are plant based.

• [Shopping Cart]: For goods, no freight line should be created. Freight Shopping Cart and Purchase Order will be created separately.

• [Shopping Cart]: PO Delivery Address/ Performance Location (SRM) becomes Destination Location in the Freight Unit (TM). Umoja TM will calculate the last leg according to the destination set as PO Delivery Address/ Performance Location

• Selecting the Supplier in SRM will allow the Supplier to submit the related transportation events in the Carrier Collaboration Portal (CCP)
UNOE – PROCURE PHASE – SHOPPING CART & PURCHASE ORDER

- [Purchase Order]: Buyers shall ensure the correctness of the following fields: Location, Ship-To-Address-, Purchasing Group, delivery date.

- [Purchase Order]: Incoterm/Key Location at header and item level may not be picked correctly; both incoterm key and location shall be selected by using the matchbox.

- [Purchase Order]: Selecting the Supplier in SRM will allow the Supplier to submit the related transportation events in the Carrier Collaboration Portal (CCP).

- [Purchase Order]: The Delivery Date serves as the baseline date for the new Umoja Transportation Module to estimate all the other related dates (departure date, handover date, arrival at destination date, etc.) based on the UN Transportation Network Master Data.

- Certifying Officers and Procurement Officers must review the accuracy of data.
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<td></td>
<td></td>
</tr>
<tr>
<td>S R M</td>
<td>Umoja System</td>
<td>Create Inb. Delivery</td>
<td>Stage</td>
</tr>
<tr>
<td>ECC</td>
<td>Inbound Cord.</td>
<td>Pack</td>
<td>Stage</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EXW / FCA/FOB/DAT</td>
</tr>
</tbody>
</table>
UNOE – PROCURE PHASE – INBOUND DELIVERY

- Inbound Delivery is created via batch job in ECC and can also be manually created.
- Product weight & volume is not maintained in the material master. Inbound coordinator shall update weight and volume in the inbound delivery document manually, based on supplier’s packing list.
- Several Packaging materials (material type “ZPAM”) are available in the system
- Packaging materials and packing shall be manually inserted in the inbound delivery document as per vendor packing list.
- Weight, volume and packaging information duly updated in the “Inbound Delivery” will reflect the correct dimensions of the materials being shipped by creating “Handling Units”.
- Batch managed materials (e.g. vaccines and medical, rations, ammunition) are around 1100PIDs. They need to be assigned in batches by editing the Inbound Delivery document, prior to packing.
- At the moment vendors are onboarded on EDI, the packing details will come automatically with the Advanced Shipping Notice (ASN).
INBOUND DELIVERY – Packing & Multilevel Packing

• The Transportation Planning in TM provides the planner with the SOW as a basis for solicitation. In some cases, it is important to reflect detailed packaging and shipment content on the SOW so that the Freight Forwarder can provide a better freight cost estimate. This can be the case for outbound deliveries belonging to STOs or inbound deliveries belonging to goods purchases.

• Reflecting in ECC how a shipment is packed is necessary for the FFW and/or other purposes.

➢ For details on how to pack in ECC please refer to the Logistics Execution Job aid ‘Outbound Delivery processing for Stock Transfers Orders’, especially the section -perform packing on an Outbound delivery, which can be found here: https://umoja.un.org/sites/umoja.un.org/files/umoja_job_aid_outbound_delivery_processing_for_stos_v1.1.pdf;

➢ and for Inbound deliveries please refer to the TM job aid “Perform Packaging on Inbound Delivery”, which can be found here: https://umoja.un.org/sites/umoja.un.org/files/umoja_job_aid_tm_planning_perform_packing_december_2019_v2.pdf
INBOUND DELIVERY – Packing & Multilevel Packing

- After planning is done in TM, the SOW will reflect the packaging level in ECC. A new column “Pack. Seq.” now shows the packaging hierarchy. The column “Packaging” shows the packaging description as maintained in ECC. *Please note* all packaging will show “Dimensions, Volume, and Weight” on the TM SOW if these fields are maintained in ECC. Many of the frequently used packaging materials in ECC have been maintained with dimension, volume, and tare weight in the material master.

<table>
<thead>
<tr>
<th>Origin</th>
<th>Destination</th>
<th>DAP, UNGSC Brindisi, Italy</th>
<th>DOOR UNMISS, Aweil, South Sudan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pack. Seq.</td>
<td>Packing &amp; Multilevel Packing</td>
<td>Container, Sea, 20ft, Packing Reference</td>
<td>100000 1330, 100000 1334</td>
</tr>
<tr>
<td>1</td>
<td>Container, Sea, 20ft, Packing Reference</td>
<td>100000 1330, 100000 1334</td>
<td>6.100 * 2.440 * 2.590, 98.00</td>
</tr>
<tr>
<td>1.1</td>
<td>Pallet</td>
<td>MatDesc: Barner: Defence, 1.2 mWx0.6mH x0.6m D. Gym MatNo. 1100000203</td>
<td>100000 1334, 100000 1334</td>
</tr>
<tr>
<td>1.1.1</td>
<td>Cooler: Box</td>
<td>MatDesc: Barner: Defence, 1.2 mWx0.6mH x0.6m D. Gym MatNo. 1100000203</td>
<td>100000 1334</td>
</tr>
</tbody>
</table>

*Note: Dimensions, Volume, Weight are maintained in ECC.*
The TM SOW shows dimensions in meters, volume in cubic meters, and weight in kg. If packaging information is received in different UoM, please note that most UoMs (please see Exceptions for further details) are automatically converted into meter, m³ and kg, but please verify to make sure that they are shown correctly on the SOW.

If the packaging in ECC has to be done in a detailed level but the TM SOW should not show such detail, the information on the SOW have to be deleted while opened in Word.

For shipments that do not originate in ECC such as COE shipments the **multi-packing option does not exist**.

Currently the following UoM are not converting automatically into meter, m³ and kg, hence please convert manually during packing process in ECC into meter, m³ and kg.
Once the **Inbound Delivery** (IBD) is created in **ECC**, the system automatically creates the following documents in **TM**: a **Delivery-based Transportation Requirement** (DTR) and a **Freight Unit** (FU).

Both the DTR and the FU are visible in the Inbound Delivery (ECC) by using the “**TM Status**” tab.

With the current system configuration, there is a **“1 to 1 relationship”** between IBD, DTR & FU: 1 Inbound Delivery – 1 Delivery-based Transportation Requirement – 1 Freight Unit.

The **Delivery-based Transportation Requirement** (DTR) document is the representation in **TM** of the **ECC** Inbound Delivery document.

A **Freight Unit** (FU) represent a set of goods that are transported together across the entire transportation chain. The following data is available in the FU document:

- Items
- Transportation stages
- Document flow
- Status information
UNOE – PLAN PHASE – Goods vendor vs Freight Forwarder

- **Create DTR**
- **Create Freight Unit**
- **Assign Vendor to FO(s)**
- **Manage FO(s)**

**Arrow Diagram:***
- **Point of Origin**
- **Port**
- **Onboard Vessel**
- **Port**
- **UN Location**

**Virtual Receipt:***
- **EXW**
- **FCA**
- **FOB**
- **DAT**

**FCA/FOB/DAT/DAP**

**UNOE – PLAN PHASE**: Goods vendor vs Freight Forwarder
UNOE – PLAN PHASE – Goods vendor vs Freight Forwarder

Who manages the legs?

<table>
<thead>
<tr>
<th>Pre (HoL -&gt; Port)</th>
<th>Main (Port -&gt; Port)</th>
<th>On (Port -&gt; Destination)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiving Plant</td>
<td>Receiving Plant</td>
<td>Receiving Plant</td>
</tr>
</tbody>
</table>

Freight Order
Used for execution
UNOE – PLAN PHASE – Goods vendor vs Freight Forwarder

Who manages the legs?

<table>
<thead>
<tr>
<th>Freight Order</th>
<th>Pre (Source -&gt; HoL)</th>
<th>Main (HoL -&gt; Port)</th>
<th>On (Port -&gt; Destination)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Used for execution</td>
<td>FCA: Vendor as carrier</td>
<td>FCA: Receiving Plant</td>
<td>FCA: Receiving Plant</td>
</tr>
</tbody>
</table>
UNOE – PLAN PHASE – Goods vendor vs Freight Forwarder

Who manages the legs?

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<tbody>
<tr>
<td>FOB: Vendor as carrier</td>
<td>FOB: Receiving Plant</td>
<td>FOB: Receiving Plant</td>
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Freight Order
Used for execution
## UNOE – PLAN PHASE – Goods vendor vs Freight Forwarder

**Who manages the legs?**

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<th>Main (Port -&gt; HoL)</th>
<th>On (HoL -&gt; Destination)</th>
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</thead>
<tbody>
<tr>
<td>DAT: Vendor as carrier</td>
<td>DAT: Vendor as carrier</td>
<td>DAT: Receiving Plant</td>
</tr>
</tbody>
</table>

**Freight Order**

Used for execution
UNOE – PLAN PHASE – Goods vendor vs Freight Forwarder

Who manages the legs?

Freight Order
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<table>
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<th>Pre (Source -&gt; Port)</th>
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<td>Vendor as carrier</td>
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UNOE – PLAN PHASE – GOODS VENDOR STAGE

- In a UNOE scenario, the Goods Vendor stage applies to **FCA**, **FOB**, **DAT**, & **DAP** Incoterms. In this stage, the Goods Vendor is responsible for delivering the items to the agreed location.

- Based on the **TM Transportation Network** (Master Data), the system selects the default route between the vendor location and the delivery location and creates as many **Freight Orders** as legs in the route.

- The system automatically assigns the Goods Vendor (*e.g.* Toyota) as **Carrier** to these newly created Freight Orders.

- These automatically created Freight Orders are in "**Ready for Execution**" status allowing the Goods Vendor to connect to the Carrier Collaboration Portal (**CCP**) to submit the events related to each FO (*i.e.* leg).

- Should the automatically created Freight Orders differ from the **vendor’s actual route**, the TM Planner can delete and re-create them to reflect the real route and to facilitate the insertion of events at a later stage.
UNOE – PLAN PHASE – FREIGHT FORWARDER STAGE – 1/4

• In a UNOE scenario, the Freight Forwarder stage applies to EXW & FCA/FOB/DAT Incoterms. In this stage the Freight Forwarder is responsible for delivering the items to the final destination.

• Freight Units appear in the Transportation Cockpit filtered by Profile (EXW vs non-DAP/EXW):

<table>
<thead>
<tr>
<th>Profile and Layout Sets (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
</tr>
<tr>
<td>UNOE DAP 2</td>
</tr>
<tr>
<td>UNOE non-DAP/EXW Supplier Stage</td>
</tr>
<tr>
<td>UNOE EXW</td>
</tr>
<tr>
<td>UNOE non-DAP/EXW - FW Stage</td>
</tr>
</tbody>
</table>

• Several Freight Units (FUs) with the same pick-up and destination locations can be consolidated to be transported together. There is a time window (currently 7 days) that allows multiple FUs to be consolidated.

<table>
<thead>
<tr>
<th>Freight Unit Stages (10/12)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freight Unit</td>
</tr>
<tr>
<td>41000003601</td>
</tr>
<tr>
<td>4100000353</td>
</tr>
<tr>
<td>4100000409</td>
</tr>
<tr>
<td>4100000491</td>
</tr>
</tbody>
</table>

Several FUs can be consolidated for transportation purposes.
UNOE – PLAN PHASE – FREIGHT FORWARDER STAGE – 2/4

- The system displays a list of transportation proposals for the set of FUs selected based on the existing Transportation Network Master Data.

- Transportation Proposals are organized in the following way:
  - Transportation Proposal Number
  - Freight Unit Number
    - Legs of Goods Vendor Stage (pre, main, on)
    - Legs of Freight Forwarder Stage (pre, main, on)

* TM Planner will select the best proposal based on distance, duration, etc.
UNOE – PLAN PHASE – FREIGHT FORWARDER STAGE (EXW-FCA) - 3/4

- The system creates the new **Freight Orders** for the FFW stage based on the proposal selected *(one for each leg).*

- **Freight Orders/Freight Bookings (2)**
  - **TM Planner**
  - **Select FU(s) in TM Cockpit**
  - **Umoja System**
  - **Generate TM Proposals**
  - **TM Planner**
  - **Select Best TM Proposal**
  - **Umoja System**
  - **Calculate Charge Estimate**
  - **Umoja System**
  - **Create FO(s) FFW Stage**

- **The Carrier is defaulted to ZDUMMY_CAR until the freight is awarded and the real carrier is assigned.**

- The system automatically calculates the estimated Charges based on the “Charges Master Data”.

- **Display UNOE Planned Ft Order (FF Deliv) 6100010624**
  - Invoicing Status: 01 Not Invoiced
  - Charge Calc. Status: 92 Calculated
  - Calculation Date: 26.11.2018 17:32:14
  - Total Amount in Local Currency: 9,854.70 USD
  - Manual-Changed Calc. Date: 26.11.2018
  - Total Amount in Document Currency: 9,854.70 USD
  - Manual-Changed Exchange Rate Date: 26.11.2018
  - Rounded Total Amount in Document: 9,854.70 USD
  - Late Charges: 0.00 USD
UNOE – PLAN PHASE – FREIGHT FORWARDER STAGE (EXW-FCA) - 4/4

- A “Statement Of Work” document (SOW) can be downloaded from each Freight Order. The SOW can be printed and edited. The SOW serves as an input for the Freight Procurement phase.

- The SOW includes all the Freight Orders related to the same Shipment.

- Specific templates are available for UNOE, COE & Troops.

- Only the UNOE/STO short form SOW in TM shows the multi-level packaging.

- The logic/layout for UNOE and STO short form SOW are the same, the form might look different due to content of the shipment.
UNOE – Statement of Work

• Shipments that are (partly) carried out by UN owned carriers are reflected on TM SOWs Short Form.

• This functionality should work for all types of UN responsible shipments (except DAP or DAP-like shipments).

• The SOW serves as a base document for solicitation. In some cases, part of the shipment or the whole shipment are carried out with UN owned assets:
  ➢ When the whole shipment is carried out with UN owned carriers, no SOW for solicitation would be provided in TM.
  ➢ For partly delivered shipments with UN owned carrier, the parts that are transported by UN owned carrier will be excluded from the SOW. This is only for the first FO(s) or last FO(s).

NOTE: After planning in TM is done, the UN owned carrier needs to be assigned to the Freight Order(s) (FOs) that will be carried out with UN assets. Only afterwards the SOW can be generated and will show the requirements minus the parts assigned to UN owned carrier.
UNOE – Statement of Work

Only the UNOE/STO short form SOW in TM currently:

➢ Adjusts to exclude UN owned carrier portions.

➢ Shows the FOs, locations, and dates adjusted according to UN owned carrier assignment for STO and UNOE shipments.

The SOW Short Form needs to be refreshed (or re-generated) after UN owned carrier was assigned to TM FO(s) to show adjustment of location(s)/date(s). Like this it will show the requirements minus the FOs for the parts where the UN owned carrier will be used.

NOTE: In case that the SOW does not show the requirement excluding the UN owned carrier assigned parts, delete the SOW Short Form and then create a new SOW Short Form. This functionality does not work if FO(s)/legs is in the middle of a shipment and the responsibility of one entity was assigned to an UN owned carrier. Only if the first FO(s) or last FO(s) is assigned to a UN owned carrier.
• The Freight Procurement steps in the system remain very similar as they currently are.

• Below some items to be considered with the TM implementation:
  ✓ Freight Services are requested in a separate Shopping Cart *(no more $1 line for freight in the goods shopping cart).*
  ✓ The SOW to be attached in the Freight Shopping Cart can be downloaded directly from Umoja TM.
  ✓ TM is now the single source of information for the transportation requirements.
Once the freight services have been awarded, the Freight Order in TM has to be updated with the selected carrier and the related purchase order number.

Once the carrier is assigned in the FO, the FO execution status changes to “Ready for Execution” allowing the freight forwarders to submit the related events.

Moreover the Freight Order needs to be updated with:

- **Actual Route:** If the route selected by the carrier is different to the planned route, the FO has to be updated with the new route as it is used to report events.

- **Actual Dates:** The planned dates need to be updated in the Freight Order based on the information provided by the Freight Forwarder.

- **Actual Charges:** The Freight Order charges have to be updated with the actual ones appearing in the Freight Purchase Order. The system allows comparing the estimated charges and the actual charges for reporting purposes.
The Transportation Planning in TM is done at a time before the exact route is known. Hence, after the solicitation process has ended, it might be required that one or more locations of the shipment route in TM need to be updated.

The standard process is to update the locations on the main carriage of the FOs. In rare cases this FO update can lead to a planning removal, in such a case the User should leave the FO without saving and use the below described process.

The change of locations on the FU should be only used if the location change on the Freight Order (FO) would lead to a planning removal.
These updates are usually done by PD or other colleagues responsible and should be done at the same time when the carrier and SRM freight PO are updated. The timely update is important as after the carrier has been assigned the FOs get send to the CCP and are visible to the Freight Forwarders for further action.

- FCA shipments with “Any_Port” location, need to be updated after the solicitation process has ended.
- Locations on FO or FU cannot be updated anymore if status of FO is “in execution”.
- FOs with dummy carrier (unassigned) or with any_port as source or destination location cannot be sent through EDI.
- SAP standard does not allow location changes on shipments with >1 AIR or SEA leg. In such cases if the (air)ports need to be changed, the existing FOs and FU need to be deleted and planning need to be executed with the correct (air)ports route.
- In cases of STO FCA, the ports from Handover location to Final destination cannot be updated on FU.
- Only the destination location of a stage can be changed.
UNOE – EXECUTE & MONITOR PHASE - GOODS VENDOR STAGE

- Goods Vendors will be provided with login credentials for the Umoja Carrier Collaboration Portal (CCP).
- In CCP, Goods Vendors will see the Freight Orders they are responsible for the transportation. They will be able to submit events and upload attachments:
  - Examples of **Events**:
    - **Planned**: Loading Start/End, Departure, Arrival, etc.
    - **Unexpected**: Delay, Damage, etc.
  - Examples of **Attachments**: Packing List, Bill of Lading, Proof of Delivery, etc.
- All Events/Attachments submitted via CCP are displayed in TM.
- In case the vendor cannot connect to CCP, Umoja role “**TS.01 TM Planner and TS.02 Manage Freight Orders**” can update the related events/attachments directly in the TM module. These Events/Attachments are also displayed in CCP.
- Once the first event is submitted, the FO execution status changes to “**In Execution**”. No changes in the route are further allowed.
- Other Umoja follow on documents:
  - **DAP**: Physical Goods Receipt
  - **FCA**: Virtual Goods Receipt & Stock Transport Order
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<td><strong>Create Shopping Cart</strong></td>
<td><strong>Create SC Freight (funded)</strong></td>
</tr>
<tr>
<td><strong>Approver</strong></td>
<td><strong>Approve Shopping Cart</strong></td>
<td><strong>Approve SC Freight (funded)</strong></td>
</tr>
<tr>
<td><strong>Buyer</strong></td>
<td><strong>Approve PO for Goods</strong></td>
<td><strong>Select SC from Source Cockpit</strong></td>
</tr>
<tr>
<td><strong>Approver Proc.</strong></td>
<td><strong>Review &amp; Submit PO</strong></td>
<td><strong>Select FU(s) in TM Cockpit</strong></td>
</tr>
<tr>
<td><strong>Umoja System</strong></td>
<td><strong>Assign Carrier to FO(s)</strong></td>
<td><strong>Buyer</strong></td>
</tr>
<tr>
<td><strong>EXECUTE &amp; MONITOR</strong></td>
<td><strong>Manage FO(s)</strong></td>
<td><strong>Umoja System</strong></td>
</tr>
<tr>
<td><strong>Umoja System</strong></td>
<td><strong>Generate TM Proposals</strong></td>
<td><strong>Create DTR</strong></td>
</tr>
<tr>
<td><strong>TM Planner</strong></td>
<td><strong>Select FU(s) in TM Cockpit</strong></td>
<td><strong>TM FO Manager</strong></td>
</tr>
<tr>
<td><strong>TM Planner</strong></td>
<td><strong>Select Best TM Proposal</strong></td>
<td><strong>Assign Carrier &amp; PO to FO</strong></td>
</tr>
<tr>
<td><strong>TM Planner</strong></td>
<td><strong>Generate SOW</strong></td>
<td><strong>Generate SOW</strong></td>
</tr>
<tr>
<td><strong>TM Planner</strong></td>
<td><strong>Calculate Charge Estimate</strong></td>
<td><strong>Edit FO(s) with Routes, Dates, Charges</strong></td>
</tr>
<tr>
<td><strong>TM Planner</strong></td>
<td><strong>Create FO(s) FFW Stage</strong></td>
<td><strong>TM Planner</strong></td>
</tr>
<tr>
<td><strong>TM Planner</strong></td>
<td><strong>Select FU(s) in TM Cockpit</strong></td>
<td><strong>Update Events</strong></td>
</tr>
<tr>
<td><strong>TM Planner</strong></td>
<td><strong>Assign Carrier &amp; PO to FO</strong></td>
<td><strong>Upload Attachments</strong></td>
</tr>
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<td><strong>Generate SOW</strong></td>
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<td><strong>TM FO Manager</strong></td>
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<td><strong>TM FO Manager</strong></td>
<td><strong>Assign Carrier &amp; PO to FO</strong></td>
<td><strong>Upload Attachments</strong></td>
</tr>
<tr>
<td><strong>TM FO Manager</strong></td>
<td><strong>Generate SOW</strong></td>
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<td><strong>TM FO Manager</strong></td>
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<td><strong>TM FO Manager</strong></td>
<td><strong>Edit FO(s) with Routes, Dates, Charges</strong></td>
<td><strong>Update Events</strong></td>
</tr>
</tbody>
</table>

**EXW / FCA / FOB / DAT**
UNOE – EXECUTE & MONITOR PHASE – FREIGHT FORWARDER STAGE

- Freight Forwarders will be provided with login credentials for the Umoja Carrier Collaboration Portal (CCP).

- In CCP, Freight Forwarders will see the Freight Orders they are responsible for the transportation. They will be able to submit events and upload attachments.

- All Events/Attachments submitted via CCP are displayed in TM.

- In case the vendor cannot connect to CCP, Umoja role “TS.01 TM Planner and TS.02 Manage Freight Order” can update the related events/attachments directly in the TM module. These Events/Attachments are also displayed in CCP.

- Once the first event is submitted, the FO execution status changes to “In Execution”. No changes in the route are further allowed.

- Other Umoja related documents:
  - Predecessor documents: Virtual Goods Receipt & Stock Transport Order
  - Follow-on documents: Physical Goods Receipt
TRANSPORTATION MANAGEMENT ENTERPRISE ROLES

- **TS.01 TRANSPORTATION PLANNER & EXECUTION**
  
  Main function is to create Freight Orders to execute a transportation plan. They can also submit events.
  
  This enterprise role has three flavors: UNOE, COE & Troops.
  
  ✓ Query DTR (UNOE): display transportation requirements
  ✓ Create/edit FO (UNOE): execute the transportation plan in the cockpit on the FU selected
  ✓ Submit events for FO: expected and unexpected
  ✓ Generate Statement of Work (SoW) for freight

- **TS.02 MANAGE FREIGHT ORDER**
  
  Main function is to update Freight Order stages, dates, actual charges, carrier and Freight PO. They can also submit events.

- **TS.03 TM DISPLAY ALL**
  
  ✓ Display access is granted to all TM documents: DTR, FU, and FO and Events against the FO
  ✓ Monitors progress/status of events of shipments through TM Cockpit

- **TS.04 TM MASTER DATA MAINTAINER**
  
  Main function is to maintain the Transportation Network (Locations, Zones, Lanes, etc.) and Transportation Rates.
  
  ✓ Create, Change and Display Vendor in ECC
  ✓ Manages Core Interfaces Master data from ECC to TM (Business Partners, Vendors, materials, plants, shipping points, etc)
  ✓ Maintains TM Master Data (Locations, Transshipment Points, Handover Locations, Lanes, Zone, Network, Org. Structure, Default Routes)
  ✓ Maintains SRM shipping addresses
TRANSPORTATION MANAGEMENT ENTERPRISE ROLES

• TS.05 COLLABORATION PORTAL

  Access the Carrier Collaboration Portal to submit related Events & Attachments.
  ✓ Vendors and Freight Forwarders: View awarded FO and submit events in CCP, including attachments/notes.

• TS.06 TMEM Production Support

  Assigned to Tier 1, Tier 2A, Tier 2B and Tier 3 (Umoja Support Desk, Umoja Service Center, Umoja Global Support)

• TS.07 TM STO Transportation Planner

  [similarly to TS.01],
  ✓ Creates Outbound Delivery after the STO is posted in TM by RD. 06: Logistic Users
  ✓ For non DAP and ExW, liaise with receiving plant TM planner to advise which FO to use for planning from handover location to final destination.

• TS.08 TM STO Freight Procurement

  [similarly to TS.02]

• TS.09 TM STO Display all

  [similarly to TS.03]
TRANSPORTATION MANAGEMENT ENTERPRISE ROLES

• **BI.84_BI: SC_TMEM_Basic User**

TM & EM view access to summarized and formatted reports.

✓ Run, print, schedule, distribute formatted reports as published by Power Users in public folders or shared by Analytic Users

• **BI.85_BI: SC_TMEM_Analytic User**

Access to comprehensive analysis areas which can be challenging to use and misinterpreted.

✓ Create customized reports in Analysis Areas
✓ Share their prepared reports with others by BI inbox.

• **BI.86_BI: SC_TMEM_Power User**

Create customized reports in Analysis Areas reports.

✓ Publish reports: save a report in the public folder that is accessible to all BI users of the module.
<table>
<thead>
<tr>
<th>ACRONYM</th>
<th>FULL FORM</th>
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</tr>
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<tbody>
<tr>
<td>SRM</td>
<td>Supplier Relationship Management</td>
<td>DTR</td>
<td>Delivery-based Transportation Requirement</td>
</tr>
<tr>
<td>ECC</td>
<td>ERP Central Component</td>
<td>FWO</td>
<td>Forwarding Order</td>
</tr>
<tr>
<td>TM</td>
<td>Transportation Management</td>
<td>LOA</td>
<td>Letter of Assist</td>
</tr>
<tr>
<td>CCP</td>
<td>Carrier Collaboration Portal</td>
<td>FU</td>
<td>Freight Unit</td>
</tr>
<tr>
<td>IBD</td>
<td>Inbound Delivery</td>
<td>PO</td>
<td>Purchase Order</td>
</tr>
<tr>
<td>SC</td>
<td>Shopping Cart</td>
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THANK YOU!

Questions?