DEPARTMENT OF OPERATIONAL SUPPORT

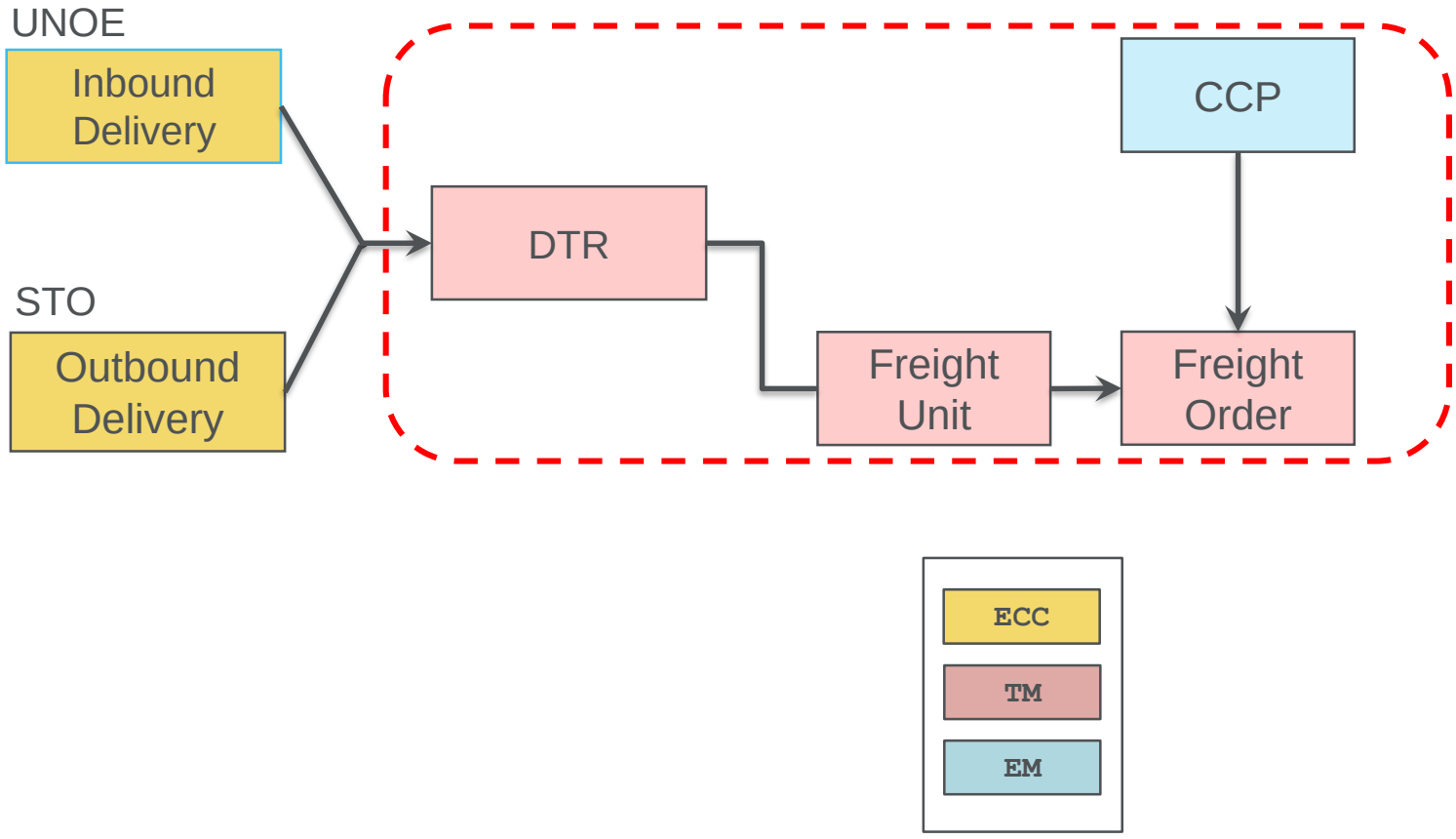
TRANSPORTATION MANAGEMENT
- Introduction to TM
Conceptual Session -

Transportation Planning and Management and Track & Trace (TPTM – T&T project –Phase II)

Bryan Barrachina
UCS Training Team

Monday, October 14th 2019

STR/STO – UNOE VS STR/STO DOCUMENT PROCESS FLOW



TM RELATED CONCEPTS

CONCEPT	DESCRIPTION	CONCEPT	DESCRIPTION
TM	Transportation Management	**CCP**	Carrier Collaboration Portal
DTR	Delivery-based Transportation Requirement	**FU**	Freight Unit
PLANNING & EXECUTION GROUP	Refers to the Planning and Execution Group in TM in charge or Planning Transportation and Executing and Monitoring Events	**SOW**	Statement of Work
FO	Freight Order	**PLANNING PROFILE**	Allows TM Planners to access a range FUs for planning
TRANSPORTATION COCKPIT	Allows TM Planners to select and manage transportation for a range FUs	**EXPECTED EVENTS**	List of Expected events to be monitored and submitted through CCP and TM
UNEXPECTED EVENTS	Events submitted manually through CCP and TM which are not part of the list of expected events	**ROUTES**	Freight Unit Legs/FOs that can be planned individually and connected to other routes

TM RELATED CONCEPTS

CONCEPT	DESCRIPTION	CONCEPT	DESCRIPTION
STR	Stock Transport Request	**STO**	Stock Transport Order
PO	Purchase Order	**FPO**	Freight Purchase Order
UNOE	UN Owned Equipment	**EM**	Event Management
PG	Purchasing Group	**HU**	Handling Unit
EDI	Electronic Data Interchange	**ASN**	Advanced Shipping Notice
OBD	Outbound Delivery Number	**IBD**	Inbound Delivery Number
RFx	Request For Quotation/Proposal	**SC**	Shopping Cart

TM RELATED CONCEPTS

CONCEPT	DESCRIPTION	CONCEPT	DESCRIPTION
DAP	Deliver at Place	**EXW**	Ex Works (Named Place of Delivery)
FCA	Free Carrier	**DAT**	Delivery at Terminal
FOB	Free on Board		

TRANSPORTATION MANAGEMENT ENTERPRISE ROLES

UNOE

TS.01 TM TRANSPORTATION PLANNER

TS.02 TM MANAGE FREIGHT ORDER

TS.03 TM DISPLAY ALL

INTER & INTRA Mission Transfers

TS.07 TM STO TRANSPORTATION PLANNER

TS.08 TM STO FREIGHT PROCUREMENT

TS.09 TM STO DISPLAY ALL

TS.04 TM MASTER DATA MAINTAINER

TS.05 COLLABORATION PORTAL

TS.06 TM EM PRODUCTION SUPPORT

TRANSPORTATION MANAGEMENT ENTERPRISE ROLES

TS.01 TM TRANSPORTATION PLANNER

Transportation Planner for UNOE is responsible for planning the movement of goods purchased and delivered by vendors (e.g. under Incoterms such as EXW, FCA, etc. for virtual delivery) from the delivery location to the destination.

- Display / Query DTR (UNOE). Change / Display / Query Freight Unit (FU). Plan / Change / Display / Query Freight Orders (FO)
- Allows the user to estimate the charges, download and print preview the statement of work (SOW)
- Allows the user to submit expected and unexpected events against the freight order in TM system.

TS.02 TM MANAGE FREIGHT ORDER

Manage Freight Order role in Transportation Management (TM) enables the user to display, amend, update and enter events in a Freight Order The TM Manage Freight Order (TS.02) role provides access to the below functions:

- Display / Query **DTR**. Change / Display / Query **Freight Orders**. Change / Display / Query **Freight Units**

TS.03 TM DISPLAY ALL

The TS.03 TM Display All provides display and query functions only. In Umoja, the TM Display All Enterprise role in TM provides access to the below Functions:

- Display / Query DTR. Display / Query **Freight Unit**: Display / Query **Freight Orders**: Display events against the freight order:

TRANSPORTATION MANAGEMENT ENTERPRISE ROLES

TS.07 TM STO TRANSPORTATION PLANNER

The TS.07 STO Transportation Planner enterprise role in Transportation Management (TM) enables the user to plan, organize and optimize the movement of freight and personnel to be undertaken by freight forwarders, third party logistics providers, or other resources contracted by the UN in execution of a Stock Transportation Order (STO). The STO may be for movements inter-mission i.e. between different missions or for intra-mission movements between different locations.

Display / Query Delivery-based Transportation Requirement-DTR. Create / Change / Display / Query Forwarding Order-FWO (COE/Troops). Change / Display / Query Freight Unit (FU). / Change / Display / Query Freight Orders (FO). Submit events against the freight order

TS.08 TM STO FREIGHT PROCUREMENT

The TS.08 TM STO Freight Procurement enterprise role in Transportation Management (TM) enables the user to display, amend, update and enter events in a Freight Order for a STO freight movement undertaken by freight forwarders, third party logistics providers, or other resources contracted by the UN.

Display / Query DTR. Change / Display / Query Freight Orders. Change / Display / Query Freight Units. Submit events against the freight order

TS.09 TM STO DISPLAY ALL

The TS.09 TM STO Display All provides display and query functions only. In Umoja, the Transportation Management STO Display Enterprise role in TM provides access to the following Functions: Query OBD. Display / Query DTR for Inter and/or Intra-mission movements. Display / Query Forwarding Order (COE/Troops). Display / Query Freight Unit. Display / Query Freight Orders. Display events against the freight order

TRANSPORTATION MANAGEMENT ENTERPRISE ROLES

TS.04 TM MASTER DATA MAINTAINER

TM Master Data Maintainer enterprise role in TM and ECC provides access to the below Functions:
Create, Change and Display Vendor in ECC.
Enable the user to manage Core Interface (CIF) Master Data (Business Partners, Vendors, materials, plants, shipping points etc) from ECC to TM.
Enable the user to Maintain TM Master Data (i.e Locations, Transhipment Points, Handover Locations, Lanes, Zone, Network, Org. Structure, Default Routes, Rates, Rate Tables).

TS.05 COLLABORATION PORTAL

The TS.05 Collaboration Portal enterprise role is provided to enable access to on Carrier Collaboration Portal (CCP) to perform the following:
Query the Freight Order
Submit/ Review and Display events corresponding to the Freight Order
The CCP is web-based. As a technical pre-requisite, the TS.05 Collaboration Portal user requires internet access to be able to login and use the CCP.

TS.06 TM EM PRODUCTION SUPPORT

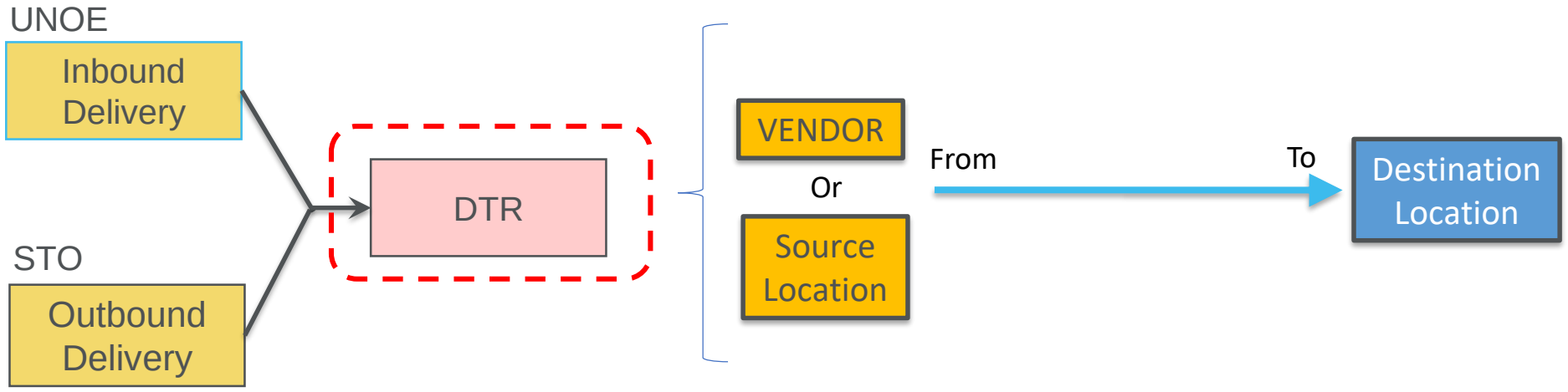
Production Support Enterprise role will provide access to all the functionality in Transportation Management but with only "Display" Access for purpose of troubleshooting and production support. In addition, the role provides access to technical transactions to monitor messages for errors and trigger appropriate subsequent actions

DTR – DELIVERY BASED TRANSPORTATION REQUIREMENT

Once the **Inbound/Outbound Delivery** is created in ECC, the system automatically generates the following document in TM: a **Delivery-based Transportation Requirement** (DTR)

With the current system configuration, there is a "**1 to 1 relationship**" between INB & OBD with DTR :
1 Inbound/Outbound Delivery – 1 Delivery-based Transportation Requirement

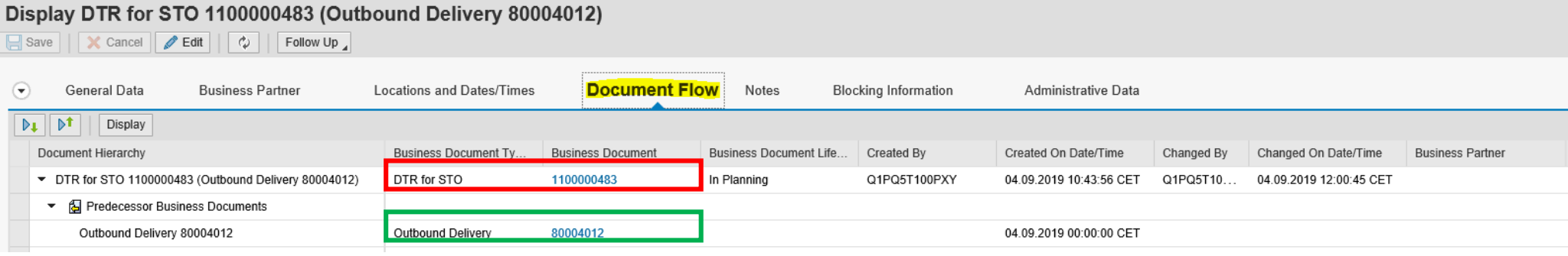
The **Delivery-based Transportation Requirement** (DTR) document represents a transportation demand based on a delivery.



DTR DOCUMENT IN TM

DTR

The automatically generated DTRs are accessible in TM and appear linked to the Outbound or Inbound documents generated in ECC

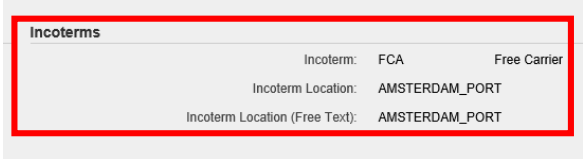


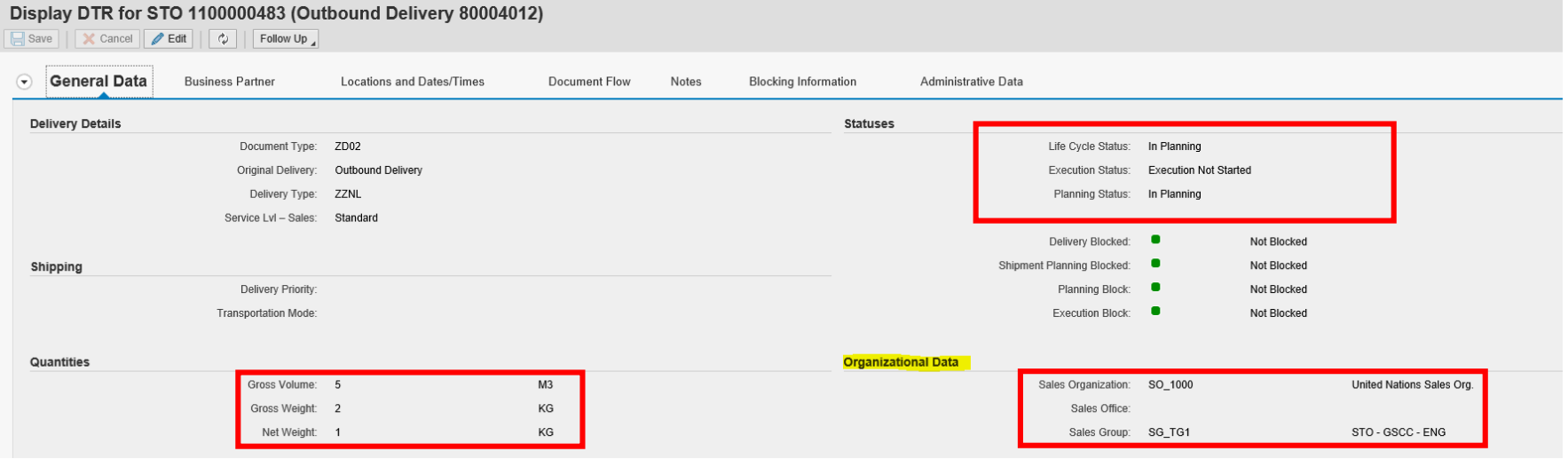
DTR DOCUMENT IN TM

DTR

The DTR document in TM displays:

- Planning & Execution Group in TM in charge of Transportation and Event Management
- Packing details and measuring units defined during Packing in ECC
- The Status of the DTR document
- The Incoterm and location

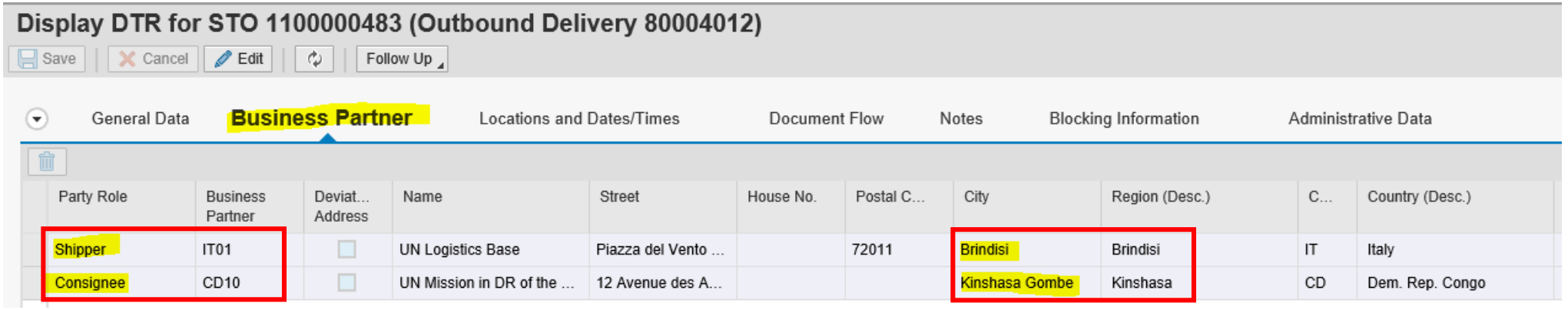




DTR DOCUMENT IN TM

DTR

The **Business Partner** tab in the DTR document displays the Shipper and Consignee details derived from the data added in the STR/STO for INTRA/INTER (Shipping Plant and Receiving Plant) or UNOE (Vendor and Plant)



DTR DOCUMENT IN TM

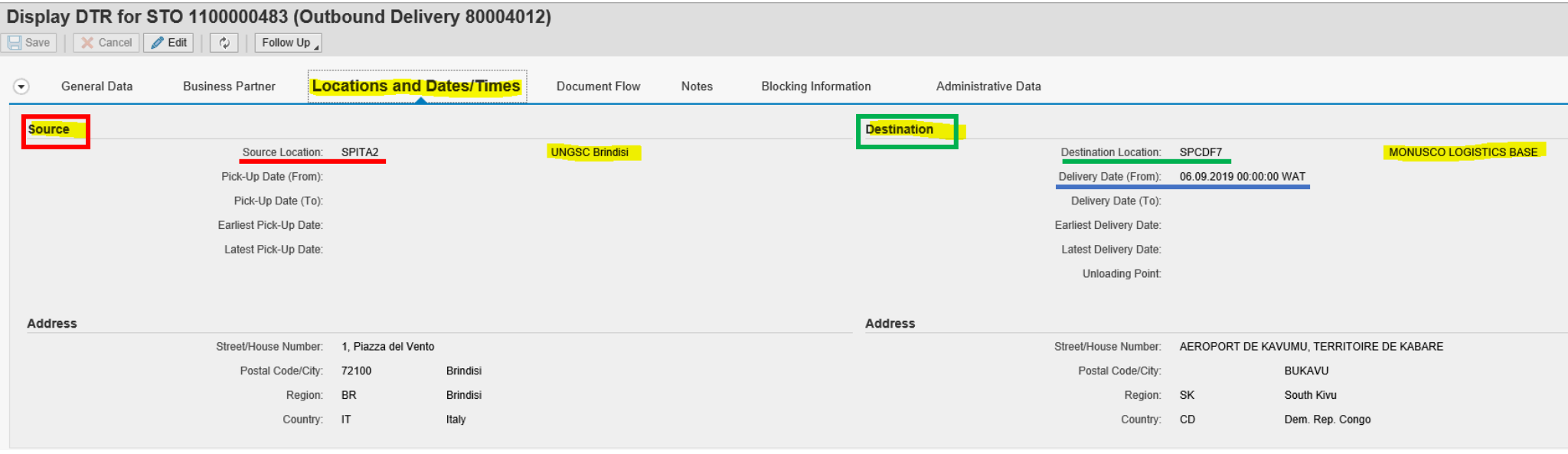
DTR

The Locations and Dates/Times tab displays:

Source and Destination locations

Delivery Dates

Delivery Address

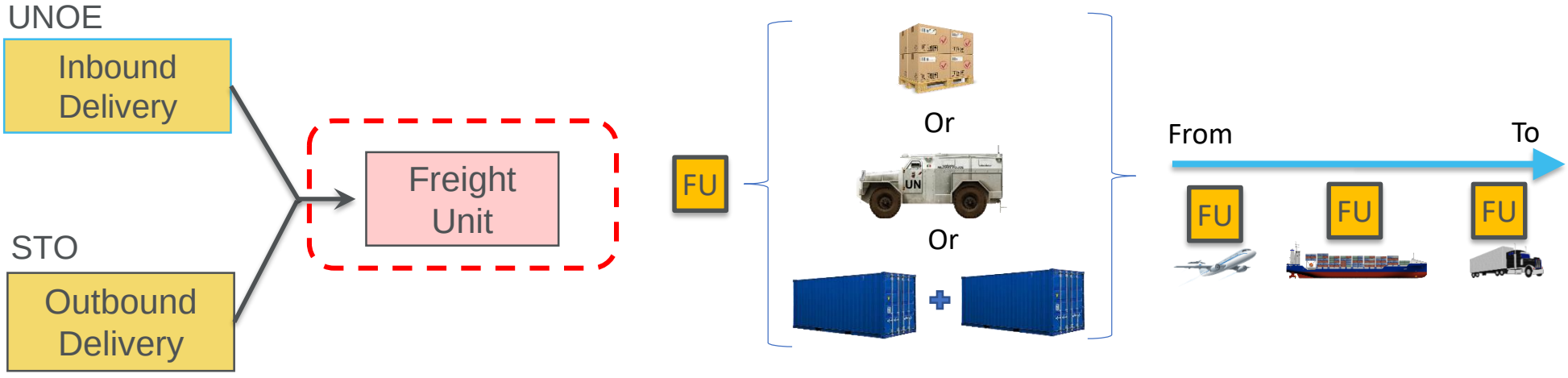


FU – FREIGHT UNIT DOCUMENT

Once the **Inbound Delivery** & **Outbound Delivery** documents are created in ECC, the system automatically creates the following documents in TM: a **Freight Unit** (FU).

With the current system configuration, there is a "**1 to 1 relationship**" between INB & OBD with DTR & FU: 1 Inbound/Outbound Delivery – 1 Freight Unit.

A **Freight Unit** (FU) represent a set of goods that are transported together across the entire transportation chain



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FU DOCUMENT IN TM

Freight Unit

The automatically generated DTRs and Freight Units are accessible in TM and linked to each other

The **Document Flow** tab in TM will display all linked documents

Display DTR for STO 1100000483 (Outbound Delivery 80004012)

Save | Cancel | Edit | Follow Up

General Data | Business Partner | Locations and Dates/Times | **Document Flow** | Notes | Blocking Information | Administrative Data

Display

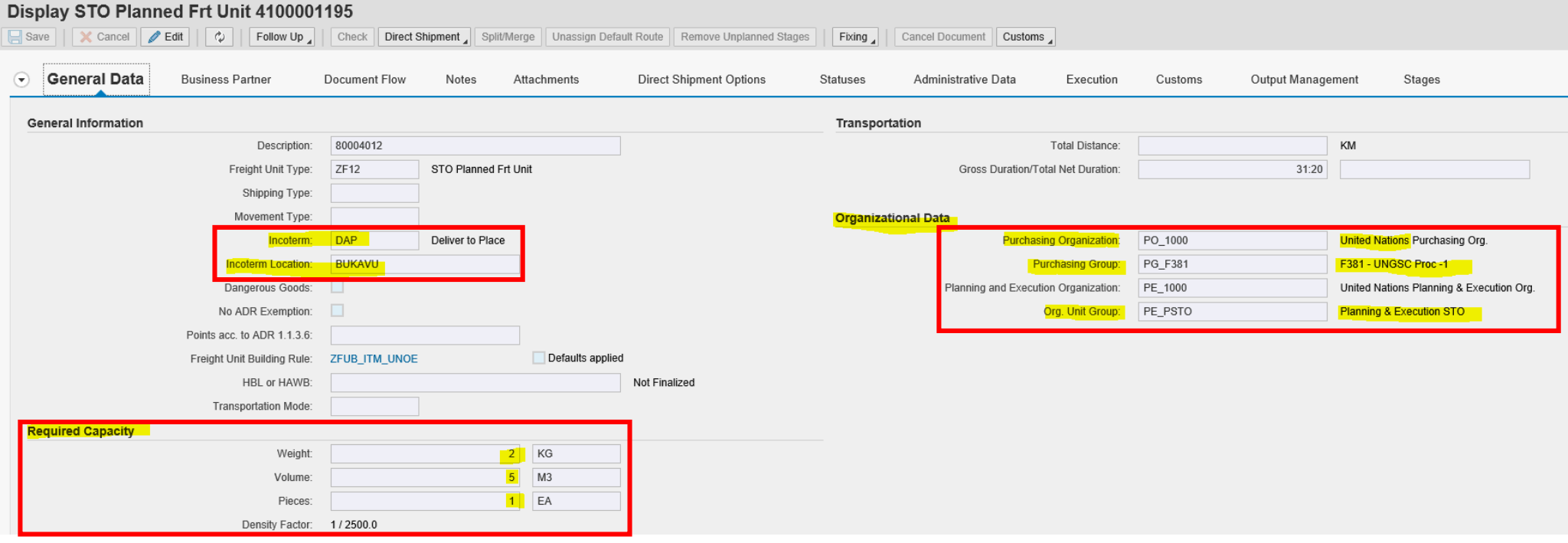
Document Hierarchy	Business Document Ty…	Business Document	Business Document Life…	Created By	Created On Date/Time	Changed By	Changed On Date/Time	Business Partner
DTR for STO 1100000483 (Outbound Delivery 80004012)	DTR for STO	1100000483	In Planning	Q1PQ5T100PXY	04.09.2019 10:43:56 CET	Q1PQ5T10…	04.09.2019 12:00:45 CET	
Predecessor Business Documents								
Outbound Delivery 80004012	Outbound Delivery	80004012			04.09.2019 00:00:00 CET			
Successor Business Documents								
STO Planned Frt Unit 4100001195	STO Planned Frt Unit	4100001195	In Process	Q1PQ5T100PXY	04.09.2019 10:43:56 CET	01PLSTOP…	04.09.2019 12:50:49 CET	
UNOE Planned Frt Order (FF Deliv) 610002…	UNOE Planned Frt Ord…	6100028079	In Process	01PLSTOPSTO	04.09.2019 12:50:49 CET	01PLSTOP…	04.09.2019 13:48:50 CET	J.A.S. Jet Air Service S…
UNOE Planned Frt Order (FF Deliv) 610002…	UNOE Planned Frt Ord…	6100028080	In Process	01PLSTOPSTO	04.09.2019 12:50:49 CET	01PLSTOP…	04.09.2019 13:50:07 CET	J.A.S. Jet Air Service S…
UNOE Planned Frt Order (FF Deliv) 610002…	UNOE Planned Frt Ord…	6100028081	In Process	01PLSTOPSTO	04.09.2019 12:50:49 CET	01PLSTOP…	04.09.2019 13:50:32 CET	J.A.S. Jet Air Service S…

FU DOCUMENT IN TM

Freight Unit

The General Data tab in the Freight Unit displays details on:

- Incoterm/Location
- Organizational Data
- Packing Details

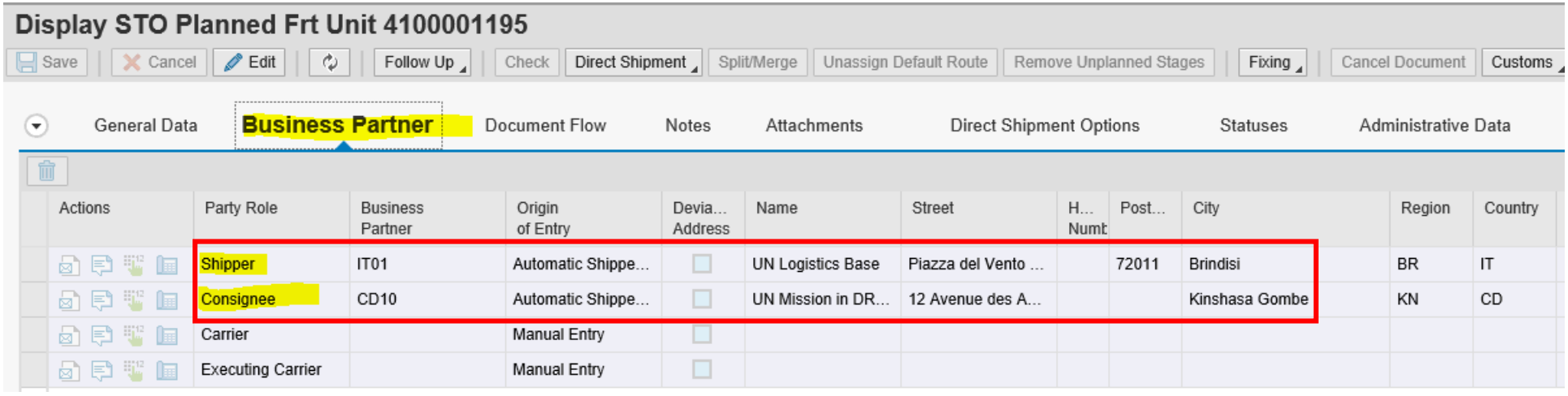


FU DOCUMENT IN TM

Freight Unit

The Business Partner tab displays:

- Shipper and Consignee as the DTR documents does but will also display carrier/s assigned after it/they have been assigned to each/all Freight Orders

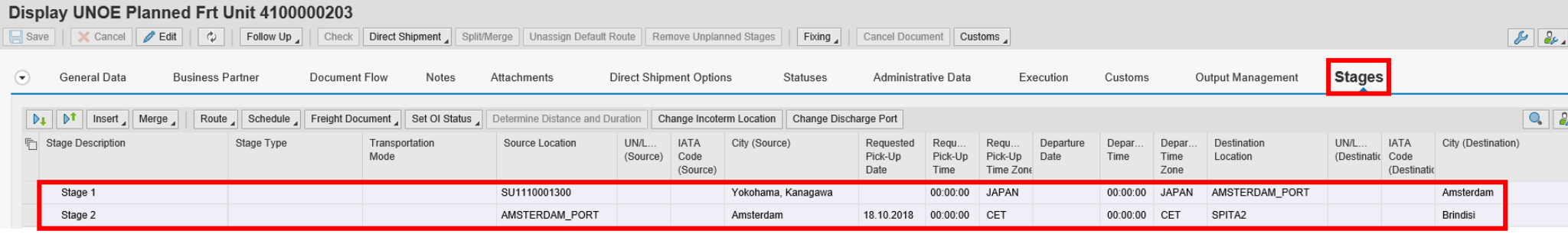


FU DOCUMENT IN TM

Freight Unit

The Stages tab displays:

- All stages in the delivery process once transportation has been planned
- Once all FOs are generated, the Freight Unit shows all stages planned



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TM – TRASNPORTATION COCKPIT – MANAGING FREIGHT UNITS

Freight Unit

The **Transportation Cockpit** allows TS.01 & TS.07 to Manage Transportation for Freight Units and generate Transportation Proposals

Transportation Cockpit:

Freight Unit Stages (25)

Split/Merge | Stages | Create Capacity Document | Create Multiple Capacity Documents | Remove Capacity Document

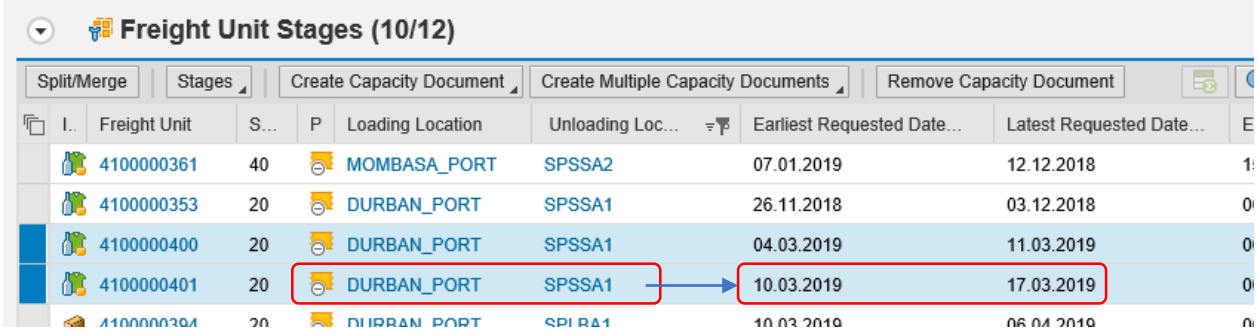
Search for:

Original...	I..	Freight Unit	S	P	Loading...	Unloadin...	Earliest...	Ear...	T..	Latest...	Lat...	T..	Gros...	G...
80004127		4100001325	1..		SPITA2	BRINDISI...		00:0...	C...	06.10.2019	23:5...	C...	8	KG
80004127		4100001325	2..		BRINDI...	SPSOC3	29.09.2019	00:0...	C...	07.10.2019	23:5...	U...	8	KG
80004105		4100001323	1..		SPITA2	BRINDISI...		00:0...	C...	06.10.2019	23:5...	C...	6	KG
80004105		4100001323	2..		BRINDI...	SPAFB2	29.09.2019	00:0...	C...	07.10.2019	23:5...	A...	6	KG
80004121		4100001317	1..		SPITA2	BRINDISI...		00:0...	C...	06.10.2019	23:5...	C...	8	KG
80004121		4100001317	2..		BRINDI...	SPSOC3	29.09.2019	00:0...	C...	07.10.2019	23:5...	U...	8	KG
80004106		4100001302	1..		SPITA2	BRINDISI...		00:0...	C...	06.10.2019	23:5...	C...	3	KG
80004106		4100001302	2..		BRINDI...	SPAFB2	29.09.2019	00:0...	C...	07.10.2019	23:5...	A...	3	KG
80004104		4100001300	1..		SPITA2	BRINDISI...		00:0...	C...	06.10.2019	23:5...	C...	3	KG
80004104		4100001300	2..		BRINDI...	SPAFB2	29.09.2019	00:0...	C...	07.10.2019	23:5...	A...	3	KG
80004103		4100001295	1..		SPITA2	BRINDISI...		00:0...	C...	27.09.2019	23:5...	C...	1	KG
80004103		4100001295	2..		BRINDI...	SPAFB2	19.09.2019	00:0...	C...	27.09.2019	23:5...	A...	1	KG
80004081		4100001270	1..		SPITA2	BRINDISI...		00:0...	C...	06.10.2019	23:5...	C...	141	KG
80004081		4100001270	2..		BRINDI...	SPAFB2	29.09.2019	00:0...	C...	07.10.2019	23:5...	A...	141	KG

TM– Transportation Cockpit – SINGLE PROPOSAL

Freight Unit

GENERATE SINGLE PROPOSAL

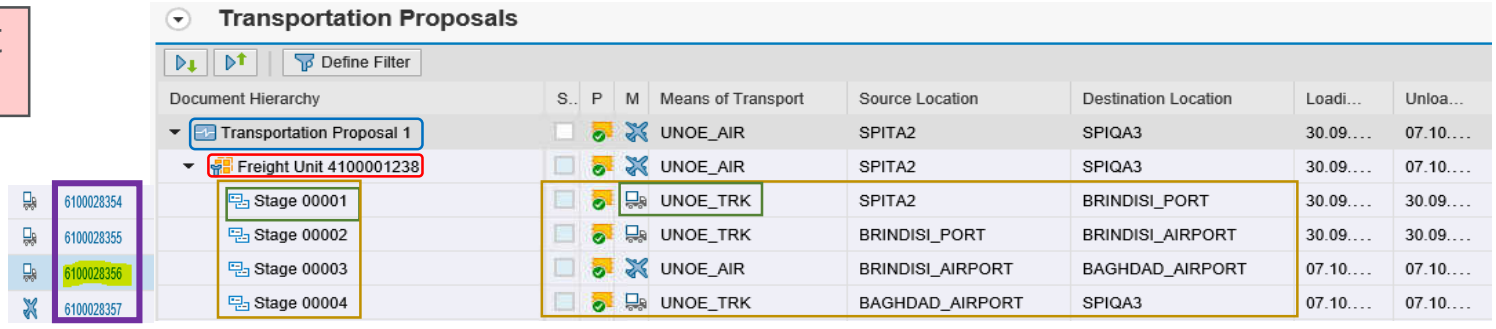


The transportation planning for a single Freight Unit is the simplest way of planning transportation. Selecting a single FU will have Umoja generate Transportation Proposals with Stages/Lanes for the specific Route found between Loading Location and Unloading Location.

TM– PLANNING PHASE – Routes, Lanes, Stages, FOs

Freight Order

Freight Unit



Freight Order/s:
FOs are the Documents in TM that numerically identify each Leg/Stage planned after accepting a Route or a Transportation Proposal in the TM Cockpit

Transportation Proposals are organized in the following way:

Transportation Proposal Number:
- Identifies one of the proposals generated by TM

Freight Unit Number:
- Identifies the Freight Unit being planned

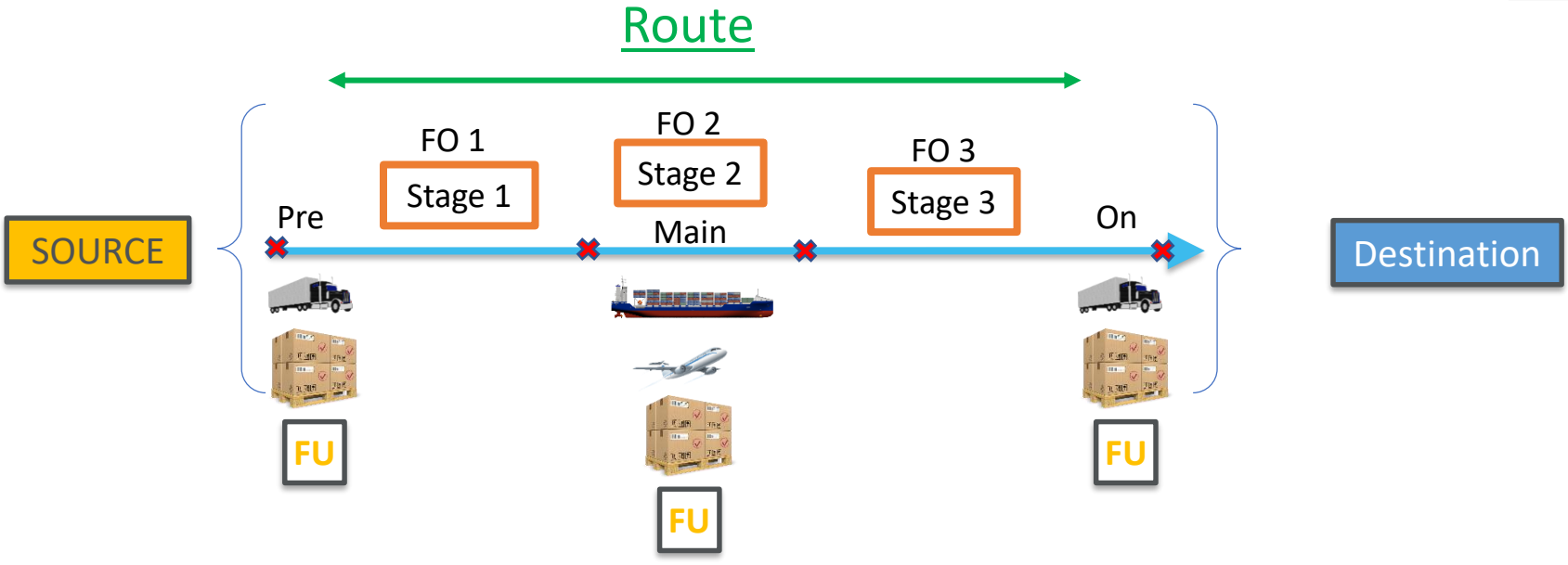
Stages/Lanes + Means of Transport:
- Identifies the number of "connections" between Source and Destination as well as the Means of Transport associated to each connection

Route:
- A route is the combination of Legs/Stages connecting Source & Destination Location
- It is the complete transportation proposal resulting from planning a Freight Unit

TM– PLANNING PHASE – Routes, Lanes, Stages, FOs

Freight Order

Freight Unit

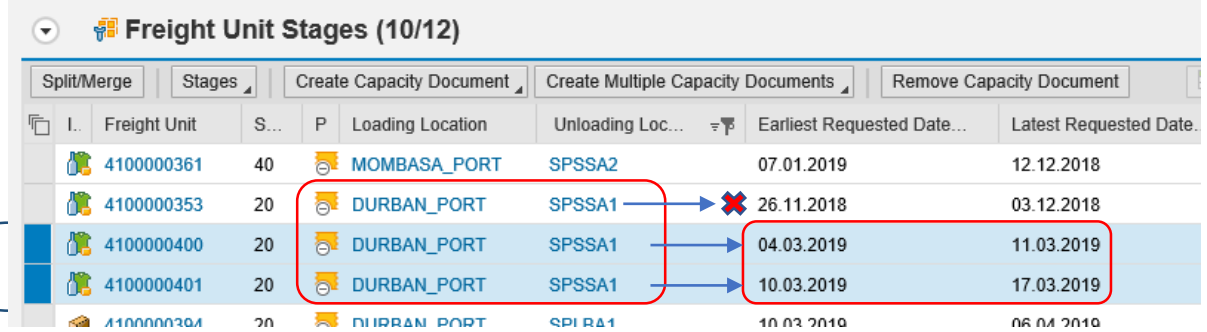


TM– PLANNING PHASE – COMBINED PROPOSAL

Freight Unit

GENERATE COMBINED PROPOSAL

FUs can be consolidated for transportation purposes



To manage the transportation planning for multiple Freight Units at once, Multiple FUs can be combined into one transportation proposal in order to plan transportation for FUs destined to the same Unloading Location.

Selecting multiple FUs will have Umoja generate Transportation Proposals with Stages/Lanes for the specific Routes found between various Loading and Unloading Locations. This format of planning transportation, has restrictions.

Consolidation Pre-Requisites:

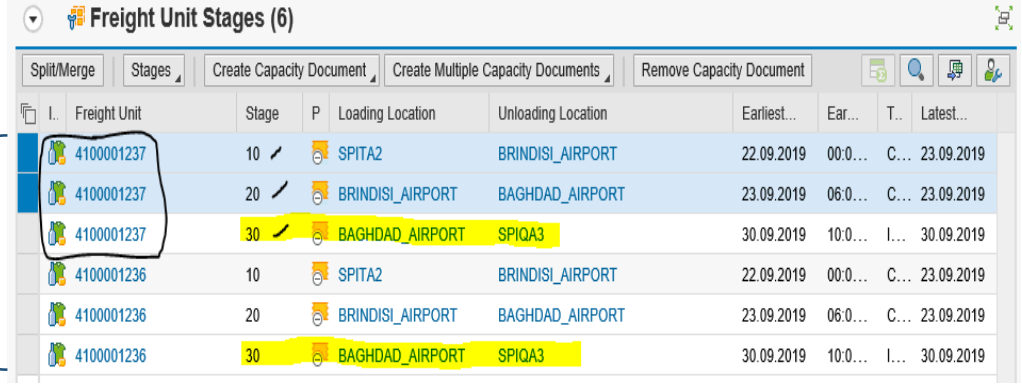
A. Based on Dates = Not more than 7 days apart
B. At least one common leg

TM– PLANNING PHASE – COMBINE FU ROUTES

Freight Unit

SPLIT GENERATED PROPOSAL INTO STAGES

Several Freight Units can be selected in order to combine the Stages/Legs generated in the Transportation Proposal efficiently



I..	Freight Unit	Stage	P	Loading Location	Unloading Location	Earliest...	Ear...	T..	Latest...
	4100001237	10		SPITA2	BRINDISI_AIRPORT	22.09.2019	00:0...	C...	23.09.2019
	4100001237	20		BRINDISI_AIRPORT	BAGHDAD_AIRPORT	23.09.2019	06:0...	C...	23.09.2019
	4100001237	30		BAGHDAD_AIRPORT	SPIQA3	30.09.2019	10:0...	I...	30.09.2019
	4100001236	10		SPITA2	BRINDISI_AIRPORT	22.09.2019	00:0...	C...	23.09.2019
	4100001236	20		BRINDISI_AIRPORT	BAGHDAD_AIRPORT	23.09.2019	06:0...	C...	23.09.2019
	4100001236	30		BAGHDAD_AIRPORT	SPIQA3	30.09.2019	10:0...	I...	30.09.2019

Goods being transported from A to B or C to D can share the same Lanes/Stages and thus be transported together
To do this Accept Routes in order to more efficiently manage transportation by combining Legs/Stages.

This format of planning transportation, has its restrictions.

Consolidation Pre-Requisites:

A. Based on Dates = Not more than 7 days apart

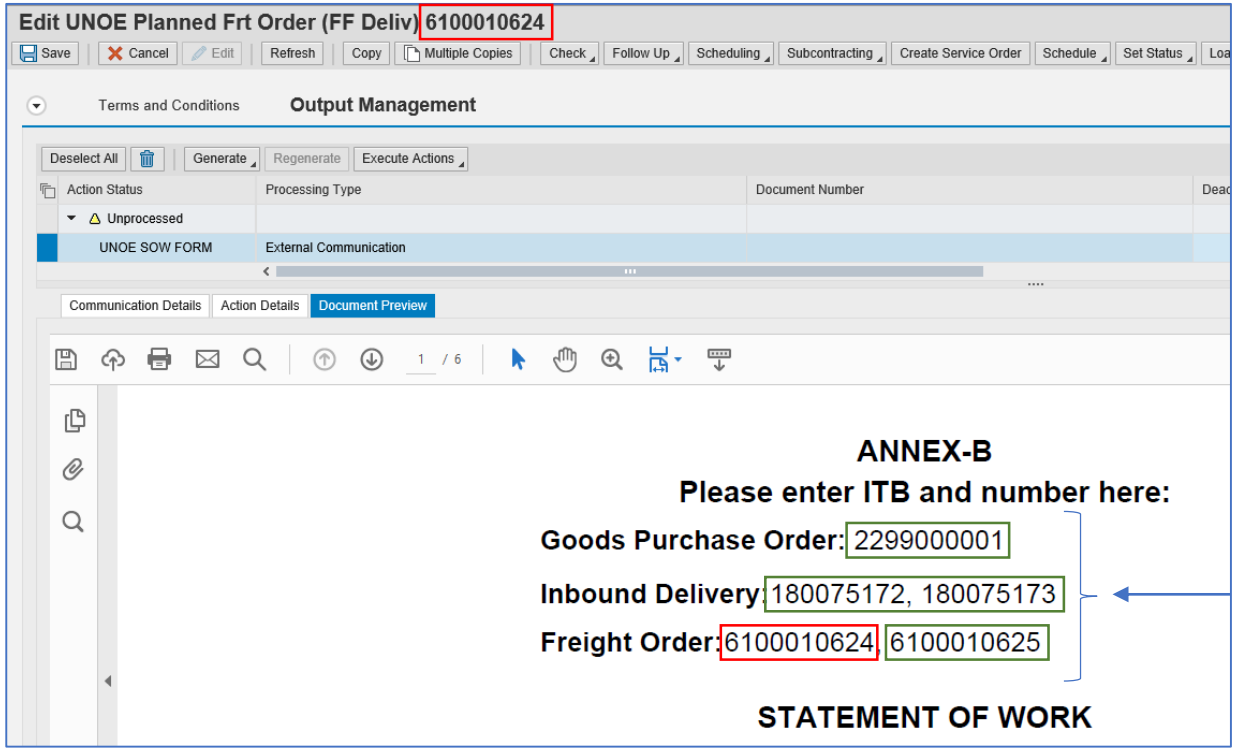
SOW – STATEMENT OF WORK

SOW

Freight Order

A "**Statement Of Work**" document (SOW) can be downloaded from each Freight Order. The SOW serves as an input for the Freight Procurement phase.

- The **SOW** includes all the Freight Orders, Inbounds, Outbounds, Purchase Orders, and Stock Transport Orders related to the same Shipment.



** Specific templates are available for UNOE, STO.*

All linked documents are displayed in the SOW's Header.

CCP – EVENT MANAGEMENT (CARRIERS)

CCP

TS.05
Update Events

TS.05
Upload Attachments/ Add Notes

C C P

CCP is the Carrier Collaboration Portal Carriers will manage the Freight Orders they are responsible for. They will be able to submit events, add notes and upload attachments:

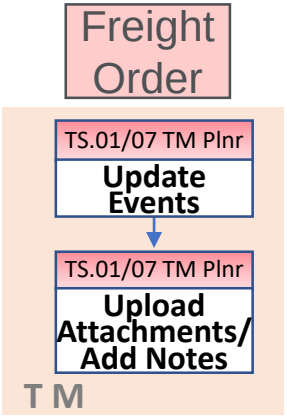
- ✓ Examples of **Events**:
  - ✓ **Planned**: Loading Start/End, Departure, Arrival, etc.
  - ✓ **Unexpected**: Delay, Damage, etc.
- ✓ Examples of **Attachments**: Packing List, Bill of Lading, Proof of Delivery, etc.
- ✓ Examples of **Notes**: Loading Successful

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

UNOE

*Incoterm is a commercial agreement in UNOE Scenarios

TM – EVENT MANAGEMENT (TS.01 / TS.07)



The TS.01 & TS.07 submit Expected and Unexpected Events in TM, Adding Corresponding notes and attachments related to the events submitted.

FCA/FOB/DAT, EXW incoterms for UNOE Scenarios

Determine what Freight Orders are managed by Vendors, Freight Forwarders in CCP or Receiving Plant in TM

FCA/EXW/DAP incoterms for INTER Mission Transfers

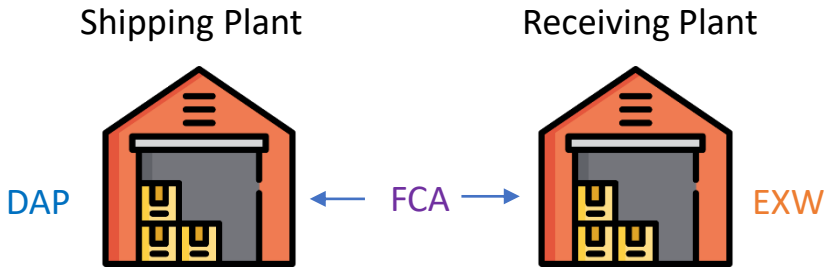
Determine if Receiving Plant and/or Shipping Plant Manage Events and for which Freight Orders

DAP incoterm for INTRA Mission Transfers

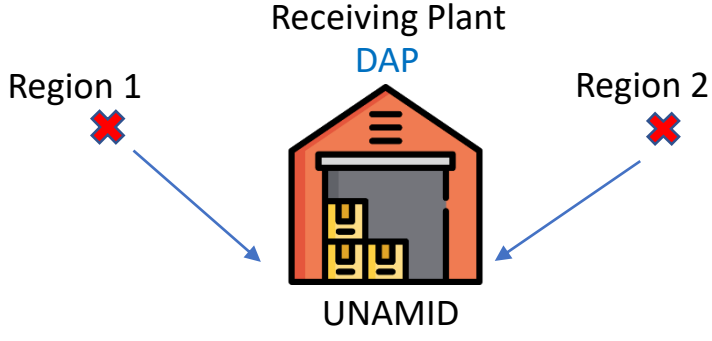
For this case it is always the Receiving Plant that manages Freight Orders

INTER Mission Transfer

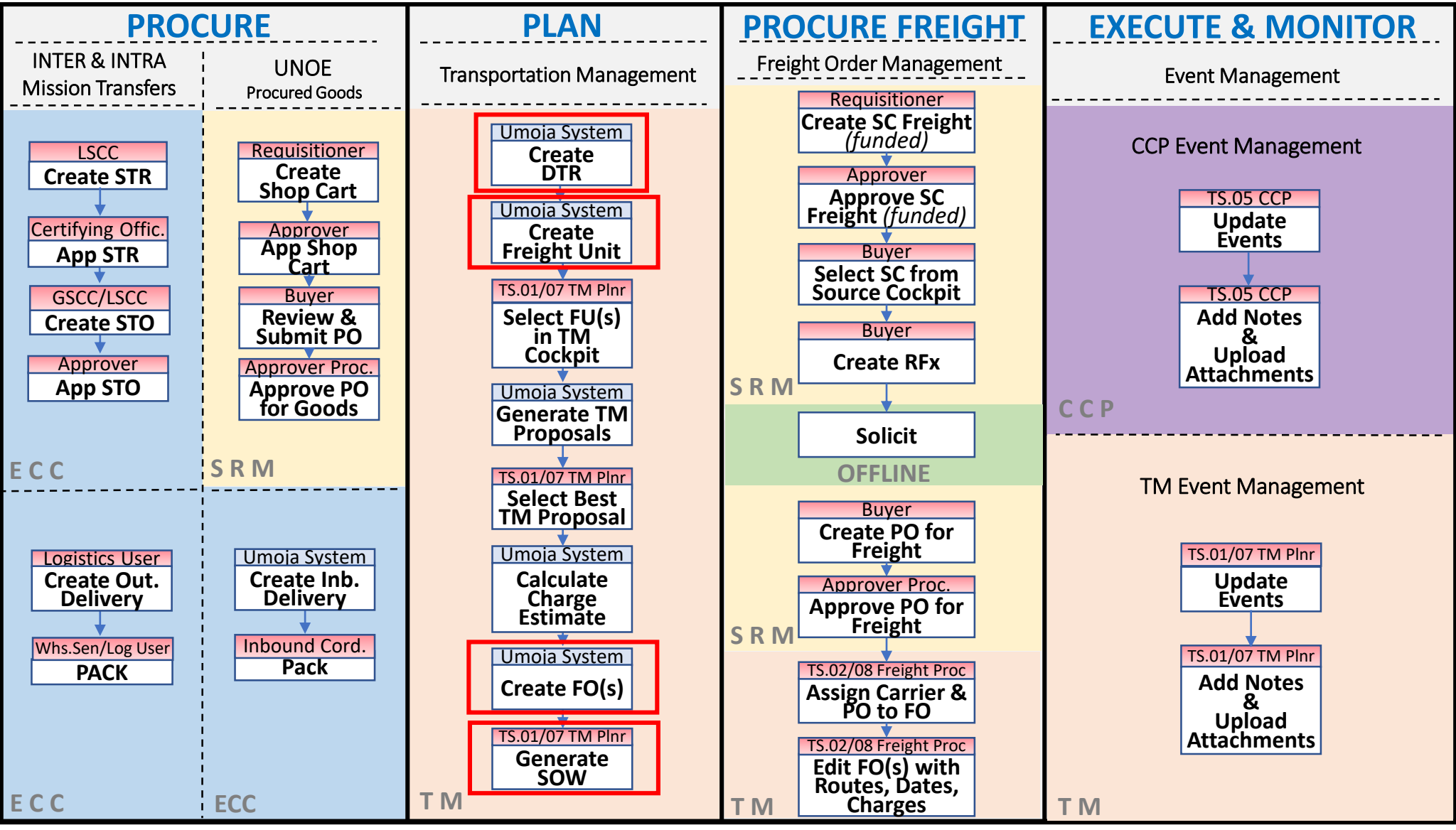
*Incoterm is not a commercial agreement; it indicates which plant will Manage FUs and FOs



INTRA Mission Transfer



DEPARTMENT OF OPERATIONAL SUPPORT



THANK YOU!

Questions?