

# Functional Requirements Document- Logistics

Prepared for  
**Technica**

Version: **2.0**

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# Introduction

## 1.1 Purpose

The Functional Requirements Document (FRD) describes in common terms:

- An overview of the processes comprising each Work stream
- An overview of each sub-process comprising the Work stream
- Major gaps between the business requirements and the functionality supported by the standard Microsoft Dynamics 365 solution
- The problem summary including current business/environment issues
- Proposed technology to support the new or altered business processes
- How implementation of the proposed solution will benefit the users/stakeholders

The FRD is the starting point of the solution and system development and is a collaborative effort between all business and technology stakeholders. The purpose of the Functional Requirements Document (FRD) is to document requirements for the requested system solution.

The objective of the Functional Requirements Document is to provide enhanced documentation for requirements that are a gap or will require a workaround or process change in order to fit the system solution of the client. The need for any modifications is clarified through the FRD. The FRD forms the basis of the subsequent task concerning the system design.

This document focuses on Production requirements.

## 1.2 Acronyms

Abbreviation	Explanation
FRD	Functional Requirement Document
System	Dynamics 365 Finance & Operation
D365	Dynamics 365 Finance & Operation
Backoffice	D365 F&O

## 1.1 Business Processes List

### 1.2 Processes List

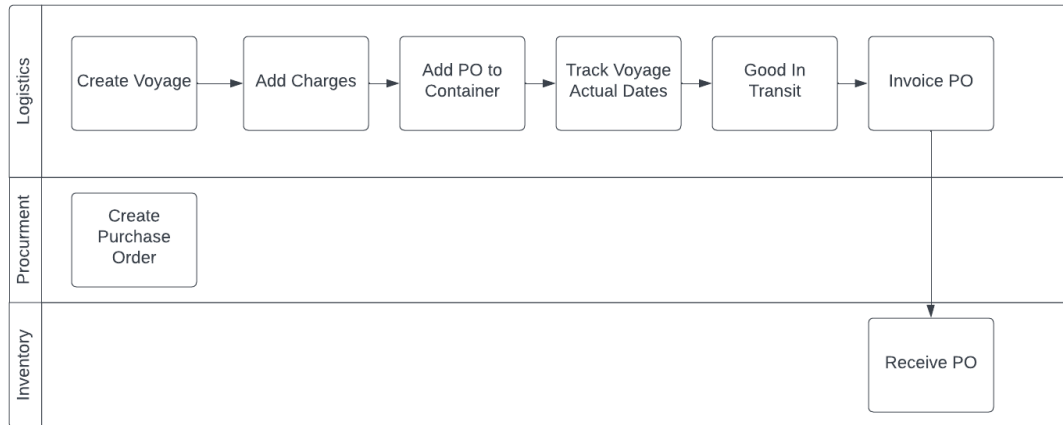
To elaborate and define the functionality, the following processes have been presented in the subsequent sections:

Process ID	Name
LOG001	Inbound Shipments Overview
LOG002	Direct Delivery Overview
LOG003	Outbound Shipments Overview

## 1.3 Logistics Processes

### 1.3.1 LOG001 – Inbound Shipments Overview

#### Process Overview



Once the vendor confirms the delivery date, the procurement informs the logistics that the goods will be ready for shipment by email.

1. The Procurement will then create a voyage to track the shipment (update process flow);

+ New Delete Voyage costs Shipping containers Folios Voyage Manage General Options									
Voyage update		Purchase order		Transfer order		Goods in transit		Functions	
Documents received	Ready for costing	Post receipts list	Ship transfer order	Receive goods in transit	Find auto costs	Aggregate costs	Create arrival journal	Change journey template	Accrue costs
In transit	Costed	Post product receipt	Receive transfer order						
		Post invoice							

Operation completed

All voyages

Standard view

Filter

Voyage	Description	Booking reference	Voyage status	Purchase order stat...	Vessel	External voyage ID	Journey template	Document...
000000013	Goods From Germany		10-Created	Open order	V665533		GER-LEB-Ocean	
000000014	AAA		10-Created	Open order	V665533		GER-LEB-Ocean	
000000015	AAAA		10-Created	Open order	V665533		GER-LEB-Ocean	
000000016	Very long Voyage		20-GIT	Open order	V665533		GER-LEB-Ocean	
000000017	short voyage		20-GIT	Open order	V665533		GER-LEB-Ocean	
000000018	good from Poland		10-Created	Open order	V665533		GER-LEB-Ocean	
000000019	goods from England		10-Created	Open order	V665533		GER-LEB-Ocean	
000000020	good from Romania		10-Created	Invoiced	V665533		GER-LEB-Ocean	
000000021	Direct Delivery		20-GIT	Received	V665533		GER-LEB-Ocean	
000000022	Direct Delivery 2		10-Created	Received	V665533		GER-LEB-Ocean	

2. The logistics then select the Journey Template on the voyage (discussed in section 0)

Finance and Operations

Search for a page

New Delete Voyage costs Shipping containers Folios Voyage Manage General Options

Journals Receipts list Tracking Product receipt Costs inquiry Goods in transit orders Item arrival

All voyages

Standard view

Voyage	Description	Booking reference	Voyage status	Purchase order stat...	Vessel	External voyage ID	Journey template	Document...
000000013	Goods From Germany		10-Created	Open order	V665533		GER-LEB-Ocean	
000000014	AAA		10-Created	Open order	V665533		GER-LEB-Ocean	
000000015	AAAA		10-Created	Open order	V665533		GER-LEB-Ocean	
000000016	Very long Voyage		20-GIT	Open order	V665533		GER-LEB-Ocean	
000000017	short voyage		20-GIT	Open order	V665533		GER-LEB-Ocean	
000000018	good from Poland		10-Created	Open order	V665533		GER-LEB-Ocean	
000000019	goods from England		10-Created	Open order	V665533		GER-LEB-Ocean	
000000020	good from Romania		10-Created	Invoced	V665533		GER-LEB-Ocean	
000000021	Direct Delivery		20-GIT	Received	V665533		GER-LEB-Ocean	
000000022	Direct Delivery 2		10-Created	Received	V665533		GER-LEB-Ocean	

Standard view

Create voyage

Voyage 000000023

Description Good from Australia

Booking reference

Vessel V665533

External voyage ID

Journey template GER-LEB-Ocean

Mode of delivery Ocean

Shipping company

Master air waybill/Bill of lading

OK Cancel

- The logistics then add the expected charges on this particular voyage noting that these will be added on top of the item cost

Save + New Delete Reverse costs Inquiries Options

Filter

Cost type code	Category	Cost
Charges	Fixed	90.000
Customs	Fixed	110.000
Freight	Fixed	230.000

000000024 : GOOD FROM NEW ZELAND | Standard view

### Voyage costs

Cost type code	Apportionment method	Category	Cost value	Currency
Freight	Amount	Fixed	230.0000	USD

General

IDENTIFICATION		COSTS	
Cost area	Voyage	Estimated cost currency	Estimated cost 0.00
Company	tech	Currency	USD
		Actual cost	0.00

*The Logistics want to be able to generate a report for each charge code separately for reporting purposes.*

- The Procurement agent can assign a single or multiple Purchase order and even transfer order to this voyage; *the agent can mix and match lines from multiple purchase order.*

Save Edit voyage header Setup Display dimensions Options

Standard view  
Voyage editor : 000000024

Filters

Days forward: 100 Days back: 0 Setup name: Options used Vendor account: Warehouses: Purchase order: Transfer order: Item number: Mode of delivery:

Inbound orders

Select	Expected date	Reference	Number	Lines	Quantity	Volume	Weight	Company
<input type="checkbox"/>	7/19/2023	Transfer order receive	TECH-000034	1	4.00	0.0000	0.00	tech
<input type="checkbox"/>	7/19/2023	Transfer order receive	TECH-000035	1	4.00	0.0000	0.00	tech
<input type="checkbox"/>	7/19/2023	Transfer order receive	TECH-000036	1	4.00	0.0000	0.00	tech
<input type="checkbox"/>	7/19/2023	Transfer order receive	TECH-000037	1	4.00	0.0000	0.00	tech
<input type="checkbox"/>	7/20/2023	Transfer order receive	TECH-000051	1	2.00	0.0000	0.00	tech
<input checked="" type="checkbox"/>	7/26/2023	Purchase order	PO-000055	1	2.00	0.0000	0.00	tech

Lines to select

Add to staging list View staging list

Select	Transfer q...	Reference	Number	Expected date	Item number	Quantity	Unit	Inventory ...	Volume	Weight	Company	Close
<input checked="" type="checkbox"/>	2.00	Purchase order	PO-000055	7/26/2023	SAL1245-21CCRC...	2.00	ea	2.00	0.0000	0.00	tech	<input type="checkbox"/>

- Once the Purchase order(s) is selected on the Voyage the whole load is added to a container or multiple container

Finance and Operations Search for a page

Standard view  
Add staging list to shipping container

Lines in staging list

Remove line Add to new shipping container Add to existing shipping container

Select	Transfer q...	Reference	Number	Expected date	Item number	Quantity	Unit	Inventory ...	Volume	Weight	Company	Close
<input checked="" type="checkbox"/>	2.00	Purchase order	PO-000055	7/26/2023	SAL1245-21CCRC...	2.00	ea	2.00	0.0000	0.00	tech	<input type="checkbox"/>

Existing shipping container in voyage 000000024

View line in shipping container View shipping container folios

Shipping container Voyage Shipping container ... Voyage status Purchase order stat... Vessel Journey template

Standard view  
Create shipping container

Voyage: 000000024

Shipping container: CONT103754

Shipping container type: 20'Foot

Journey template: GER-LEB-Ocean

Ship date: 8/27/2023

House air waybill/Bill of lading

Measurement: 0.0000

Measurement unit:

If the logistics want to track all their containers they can refer to the **All Shipping Containers** which allows them if needed to track all their containers and their status

Delete Voyage costs Manage General Options

Journals: Receipts list, Product receipt, Item arrival

Activities: Legs, Tracking

Inquiries: Costs inquiry, Over/under transactions, Goods in transit orders

All shipping containers

Standard view

Filter

Shipping container	Voyage	Shipping container type	Voyage status	Purchase order stat...	Vessel	Journey template
ContAA11	000000013	20'Foot	1-TransferGoods	Open order	V665533	GER-LEB-Ocean
ContAB998	000000014	20'Foot	1-TransferGoods	Open order	V665533	GER-LEB-Ocean
ContAC874	000000015	20'Foot	1-TransferGoods	Open order	V665533	GER-LEB-Ocean
ContBB1542	000000016	20'Foot	1-TransferGoods	Open order	V665533	GER-LEB-Ocean
ContAX1122	000000017	20'Foot	1-TransferGoods	Open order	V665533	GER-LEB-Ocean
ContOP7854	000000018	20'Foot	1-TransferGoods	Open order	V665533	GER-LEB-Ocean
ContAU0025	000000019	20'Foot	1-TransferGoods	Open order	V665533	GER-LEB-Ocean
ContAY7854	000000020	20'Foot	1-TransferGoods	Invoiced	V665533	GER-LEB-Ocean
ContDR7856	000000021	20'Foot	1-TransferGoods	Received	V665533	GER-LEB-Ocean
ContTE6541	000000022	20'Foot	1-TransferGoods	Received	V665533	GER-LEB-Ocean
Cont-18754	000000024	20'Foot	1-TransferGoods	Open order	V665533	GER-LEB-Ocean

- Once the shipping documents are received the Procurement will need to update the voyage by clicking on "Documents Received", this will update the voyage status and

will notify the logistics by email that the documents on a specific voyage is received, then the Documents are provided to the accounting department.

←

+ New

🗑 Delete

Voyage costs

Shipping containers

Folios

Voyage

Manage

General

Options

🔍

Voyage update

Documents received

In transit

Ready for costing

Costed

Purchase order

Post receipts list

Post product receipt

Post invoice

Transfer order

Ship transfer order

Receive transfer order

Goods in transit

Receive goods in transit

Functions

Find auto costs

Create arrival journal

Accrue costs

Aggregate costs

Change journey template

All voyages

Standard view

🔍 Filter

<input type="radio"/> Voyage	↑ Description	Booking reference	Voyage status	Purchase order stat...	Vessel	External voyage ID	Journey template	Document...
<input type="radio"/> 000000013	Goods From Germany		10-Created	Open order	V665533		GER-LEB-Ocean	
<input type="radio"/> 000000014	AAA		10-Created	Open order	V665533		GER-LEB-Ocean	
<input type="radio"/> 000000015	AAAA		10-Created	Open order	V665533		GER-LEB-Ocean	
<input type="radio"/> 000000016	Very long Voyage		20-GIT	Open order	V665533		GER-LEB-Ocean	
<input type="radio"/> 000000017	short voyage		20-GIT	Open order	V665533		GER-LEB-Ocean	
<input type="radio"/> 000000018	good from Poland		10-Created	Open order	V665533		GER-LEB-Ocean	
<input type="radio"/> 000000019	goods from England		10-Created	Open order	V665533		GER-LEB-Ocean	
<input type="radio"/> 000000020	good from Romania		10-Created	Invoiced	V665533		GER-LEB-Ocean	
<input type="radio"/> 000000021	Direct Delivery		20-GIT	Received	V665533		GER-LEB-Ocean	
<input type="radio"/> 000000022	Direct Delivery 2		10-Created	Received	V665533		GER-LEB-Ocean	
<input type="radio"/> 000000024	Good From New Zeland		10-Created	Open order	V665533		GER-LEB-Ocean	



- Once the goods take off from a port, the logistics can set the Voyage to IN TRANSIT; which will transfer the goods to a special GOODS IN-TRANSIT warehouse, since they are in Technica's custody.

Navigation: + New, Delete, Voyage costs, Shipping containers, Folios, Voyage, **Manage**, General, Options

Functions: Voyage update, Purchase order, Transfer order, Goods in transit, Functions

Documents received, Ready for costing, Costed, Post receipts list, Ship transfer order, Receive transfer order, Receive goods in transit, Find auto costs, Aggregate costs, Create arrival journal, Change journey template, Accrue costs

**In transit**

All voyages

Standard view

Filter

Voyage	Description	Booking reference	Voyage status	Purchase order stat...	Vessel	External voyage ID	Journey template	Document...
000000013	Goods From Germany		10-Created	Open order	V665533		GER-LEB-Ocean	
000000014	AAA		10-Created	Open order	V665533		GER-LEB-Ocean	
000000015	AAAA		10-Created	Open order	V665533		GER-LEB-Ocean	
000000016	Very long Voyage		20-GIT	Open order	V665533		GER-LEB-Ocean	
000000017	short voyage		20-GIT	Open order	V665533		GER-LEB-Ocean	
000000018	good from Poland		10-Created	Open order	V665533		GER-LEB-Ocean	
000000019	goods from England		10-Created	Open order	V665533		GER-LEB-Ocean	
000000020	good from Romania		10-Created	Invoiced	V665533		GER-LEB-Ocean	
000000021	Direct Delivery		20-GIT	Received	V665533		GER-LEB-Ocean	
000000022	Direct Delivery 2		10-Created	Received	V665533		GER-LEB-Ocean	
000000024	Good From New Zealand		10-Created	Open order	V665533		GER-LEB-Ocean	

- Once done, the logistics can provide the accounting department with the all documents related to the shipment,
- From here on the logistics will track the actual dates for each voyage leg

000000024: GOOD FROM NEW ZELAND | Standard view

**Inbound tracking**

Shipping container

Overview General Notes

Up Down

Leg	Mode of delivery	Activity	Description	Start date	Estimated end date	Actual end date	Estimated days	Actual days	Note
GER-PORT	Ocean	Loading	Loading	6/20/2023	6/23/2023	6/24/2023	3	4	
MACGM	Ocean	Ship	Ship	6/24/2023	7/6/2023	7/7/2023	12	13	
BEY-PORT	Ocean	OffLoading	OffLoading	7/7/2023	7/9/2023		2	0	

Which automatically updates the **Confirmed delivery date** on the purchase order line

Purchase order | My view

**PO-000055 : 1002 - Special Supplies**

Open order Approved

Purchase order header

Purchase order lines

T...	Budget check results	Line number	Item number	Product name	Arabic Name	Procurement category	Qty In Cart...	Variant number	CW quantity	CW unit	Quantity	Unit	Unit price	Adjusted
		1	SAL1245-21CCRC36	Leg Horizontal Beam			0.00				2.00	ea	0.00000	

Line details

General Setup Address Product Delivery Picking Price and discount Project Product packages Variants Foreign trade Fixed assets Financial dimensions Loads Landed cost

**DELIVERY DATE**

Delivery date: 7/26/2023

Confirmed delivery date: 7/9/2023

**DELIVERY**

Overdelivery: 0.00

**Underdelivery**

Underdelivery: 0.00

**Delivery type**

Stock

**DIRECT DELIVERY**

Direct delivery status

Direct delivery: No

And on a related note, which was previously discussed, whoever has an interest in tracking inbound shipments, they can check the **open purchase order lines**, where they

can track the estimated and confirmed delivery date, which as just demonstrated is updated live while the logistics are tracking their voyage

Technica ▼

Open purchase order lines

Overview Purchase order

Inventory ▼

<input type="radio"/> Vendor account	Purchase order	Line number	Item number	Procurement category	Delivery date	Confirmed delivery date	Deliver re...	Quantity	Voyage status	Project ID
<input checked="" type="radio"/> 1003	TECH-000021	1	PRNCCRA25-b		7/19/2023		4.00	4.00		
1003	TECH-000021	2	PRNCCRA25-b		7/19/2023		4.00	4.00		
1003	TECH-000021	3	PRNCCRA25-b		7/19/2023		4.00	4.00		
1003	TECH-000021	4	PRNCCRA25-b		7/19/2023		4.00	4.00		
1003	TECH-000021	5	PRNCCRA25-b		7/19/2023		4.00	4.00		
1003	TECH-000021	6	PRNCCRA25-b		7/19/2023		4.00	4.00		
1003	TECH-000021	7	PRNCCRA25-b		7/19/2023		4.00	4.00		
1003	TECH-000021	8	PRNCCRA25-b		7/19/2023		4.00	4.00		
1003	TECH-000021	9	PRNCCRA25-b		7/19/2023		4.00	4.00		
1003	TECH-000021	10	PRNCCRA25-b		7/19/2023		4.00	4.00		
1002	TECH-000022	1	SAL1245-21CCRC...		7/20/2023	7/2/2023	2.00	2.00		
1002	TECH-000022	2	SAL1245-21CCRC...		7/20/2023	7/2/2023	2.00	2.00		
1002	TECH-000032	1	PRNCCRA25-a		6/5/2023		1.00	1.00		TECH-000053
1003	TECH-000035	1	FA.BQ.HH.106		6/19/2023		20.00	20.00		
1003	TECH-000035	2	FA.NU.HX.1		6/13/2023		30.00	30.00		
1003	TECH-000035	3	PRNCCRA25		6/1/2023		100.00	100.00		
1002	TECH-000051	1	SAL1245-21CCRC...		7/10/2023		12.00	12.00	1-Test	
1002	TECH-000052	1	SAL1245-21CCRC...		7/10/2023		12.00	12.00	1-Test	
1002	TECH-000053	1	SAL1245-21CCRC...		7/6/2023	6/22/2023	6.00	6.00	1-Test	
1002	PO-000054	1	SAL1245-21CCRC...		7/6/2023	6/29/2023	6.00	6.00	1-Test	
1002	PO-000055	1	SAL1245-21CCRC...		7/26/2023	7/9/2023	2.00	2.00	1-Test	
1005	PO-000057	1	ISO 4032 - M20		6/15/2023		10.00	10.00	1-Test	

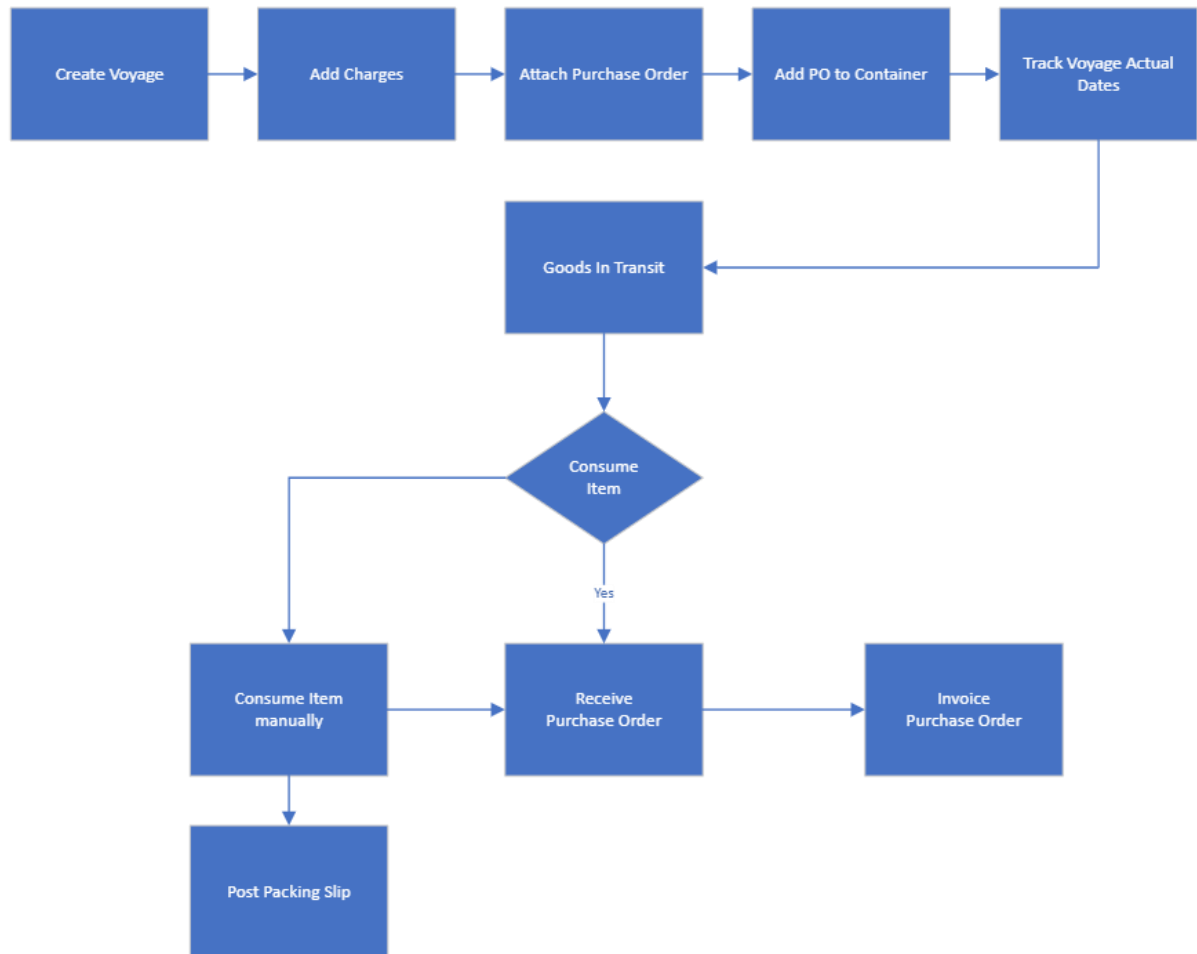
- At this stage, the finance can Invoice the Purchase order since the goods are already in Technica's ownership (but still NOT received yet);
- Once the goods are physically received the voyage can be received by the warehouse department.

## Requirements

ID	Description	Fit/Gap
LOG001-01	Ability to create a Voyage	FIT
LOG001-02	Ability to Add Charges on the Voyage	FIT
LOG001-03	Ability to add single or multiple PO line to Voyage	FIT
LOG001-04	Ability to track goods in Container	FIT
LOG001-05	Ability to split goods across multiple containers	FIT
LOG001-06	Ability to track Expected and Actual Shipment Dates	FIT
LOG001-07	Ability to Invoice Purchase order & Receive PO	FIT
LOG001-08	Email Notification to logistics	GAP

### 1.3.2 LOG002 – Direct Delivery Overview

#### Process Overview



In case of direct delivery, Technica wishes to purchase goods and directly deliver them onsite in this case:

1. a sales order is created of type "Item Requirement", the **Project department** sets the sales order to direct delivery; *the item that needs to be directly delivered to the customer needs to be removed from the BOM lines, so the factory needs to locate this specific production order and remove the item/part that needs to be delivered directly to the customer from the BOM because it is only be used during assembly.*

Request

[Edit](#) [New](#) [Delete](#) [Sales order](#) [Sell](#) [Manage](#) [Pick and pack](#) [Invoice](#) [Commerce](#) [General](#) [Warehouse](#) [Transportation](#) [Credit management](#) [Options](#)

[New](#) [Maintain](#) [Payments](#) [Copy](#) [View](#) [Functions](#) [Attachments](#) [Email notification](#) [Clean up](#) [Engineering change management](#)  
[Service order](#) [Cancel](#) [Payments](#) [From all](#) [Totals](#) [Order credit](#) [Notes](#) [Email notification log](#) [Clean up sales update history](#) [New engineering change request](#)  
[Purchase order](#) [Direct delivery](#) [From journal](#) [Order events](#) [Sales order recap](#) [Order holds](#) [View engineering change request](#) [View engineering change requests](#)

Sales order | My view

TECH-000071 : Nestle

He... Invoiced

Sales order header

Sales order lines

Variant number	Item number	Product name	Product Arabic Name	Sales category	CW quantity	CW unit	Quantity	Unit	Delivery type	CW deliver...	Adjusted u...	Unit price	Discount	Discount p...	Net a
		PRNCCRA25-b	zzz				222.00	ea	Stock		0.00000				

Line details

General Setup Address Product Packing Delivery Sourcing Price and discount Project Foreign trade Financial dimensions Loads

**DELIVERY DATE**  
 Delivery alternatives  
 Requested ship date: 6/15/2023  
 Requested receipt date: 6/15/2023

**MISC. DELIVERY INFO**  
 Delivery terms  
 Overdelivery: 0.00  
 Underdelivery: 0.00

**Mode of delivery**  
 Ocean  
 Delivery type: Stock  
**DIRECT DELIVERY**  
 Direct delivery: ☒ Yes

**CARRIER INFORMATION**  
 Shipping carrier  
 Carrier service

**SHIPPING LOCATION TIME ZONE**  
 Time zone: (GMT+02:00) Beirut  
**PICKUP TIME SLOT**  
 Pickup Time Range

- and the purchase order is firmed by the **procurement department** from master planning;

Save New Delete Purchase order Purchase Manage Receive Invoice Retail Warehouse Transportation General Options

Generate Receipts list Product receipt Intercompany picking list Journals Receipts list Product receipt

All purchase orders | My view

PO-000058 : 1003 - General Supplies

He... Received Confirmed

Purchase order header

Purchase order lines

Budget check results	Line number	Item number	Product name	Arabic Name	Procurement category	Qty In Cert...	Variant number	CW quantity	CW unit	Quantity	Unit	Unit price	Ad
	1	PRNCCRA25-b	zzz			0.00				222.00	ea	15.00	0

Line details

General Setup Address Product Delivery Picking Price and discount Project Product packages Variants Foreign trade Fixed assets Financial dimensions Loads Landed cost

**DELIVERY DATE**  
 Delivery date: 6/28/2023  
 Confirmed delivery date:

**DELIVERY**  
 Overdelivery: 0.00  
 Delivery type: Stock

**UNDERDELIVERY**  
 Underdelivery: 0.00

**DIRECT DELIVERY**  
 Direct delivery status  
 Direct delivery: ☒ No

Comments

- Once the Purchase Order is confirmed by the procurement
- The Procurement can then create a voyage; at which point charges are added,
- The Commercial Invoice is then printed for the shipment documents.
- Once the goods are shipped the voyage is set to **"In-Transit"** by the logistics

Edit
New
Delete
Voyage editor
Voyage costs
Voyage
Manage
General
Options

Voyage update
Purchase order
Transfer order
Goods in transit
Functions

Documents received
Ready for costing
Post receipts list
Post product receipt
Post invoice
Ship transfer order
Receive transfer order
Receive goods in transit
Find auto costs
Aggregate costs
Create arrival journal
Change journey template
Accrue costs

Voyages
Standard view
000000021 : Direct Delivery

STATUS
Voyage status
20-GT
Purchase order status
Received
Documents received
No

IDENTIFICATION
Master air waybill/Bill of lading
House air waybill/Bill of lading

Customs entry identifier
Vessel
V665533
Tally in frumber

PORTS
From port
GER-PORT
To port
BEY-PORT

JOURNEY
Journey template
GER-LEB-Ocean
SHIPPER
Shipping company
1004
Name
DHL

MEASUREMENTS
Measurement
0.0000
Measurement unit
Number of pallets
0

Remove
Inventory
Refresh

Shipping container	Folio	Item number	Reference	Number	Status	Quantity	Purchase p...	Net amount
CONT087856	TECH-000009	PRNCCRA25-b	Purchase order	PO-000058	Received	222.00	15.00	3,330.00

General
Reference

IDENTIFICATION	Folio	Item number	Company	Measurement unit	QUANTITY	Position
Voyage	TECH-000009	PRNCCRA25-b	tech		Quantity	0

7. Once the goods are received onsite, the purchase order can be received from the voyage by the site leader.

Edit + New Delete Voyage editor Voyage costs Voyage Manage General Options

Voyage update Documents received In transit Ready for costing Costed

Purchase order Post receipts list Post goods received receipt Post invoice

Transfer order Ship transfer order Receive transfer order

Goods in transit Receive goods in transit Create annual journal Accrue costs

Functions Find auto costs Create annual journal Aggregate costs Change journey template

Voyages | Standard view

000000021 : Direct Delivery

Voyage header

STATUS	IDENTIFICATION	Customs entry identifier	PORTS	JOURNEY	MEASUREMENTS
Voyage status 20-GIT	Master air waybill/Bill of lading		From port GER-PORT	Journey template GER-LEB-Ocean	Measurement 0.0000
Purchase order status Received	House air waybill/Bill of lading	Vessel V665533	To port BEV-PORT	SHIPPER	Measurement unit
Documents received No		Tally in #number		Shipping company 1004	Number of pallets 0
				Name DHL	

Voyage lines

Remove Inventory Refresh

Shipping container	Folio	Item number	Reference	Number	Status	Quantity	Purchase p...	Net amount
CONTR7856	TECH-000009	PRNCCRA25-b	Purchase order	PO-000058	Received	222.00	15.00	3,330.00

Line details

General Reference

IDENTIFICATION	Folio	Item number	Company	Measurement unit	QUANTITY	Position
Voyage	TECH-000009	PRNCCRA25-b	tech		Quantity	0

8. Once the Purchase order is received the , Sales order created in the beginning will be automatically Delivered and the purchase order will be updated to Received

Save + New Delete Purchase order Purchase Manage Receive Invoice Retail Warehouse Transportation General Options

Create Credit note

Charges Maintain charges Allocate charges Voyage costs

Tax Sales tax

Calculate Multiline discount Total discount

Supplementary items Tiered charges

Prepay Prepayment Remove prepayment

Generate Purchase inquiry Confirmation Pro forma confirmation

Actions Confirm Finalize

Accounting Distribute amounts View distributions

Journals Purchase inquiry Purchase order confirmations

Vendor collaboration Send for confirmation Purchase orders sent for confirmation View response on latest sent order Purchase order vendor confirmation history

Find auto cos Costs inquiry Create new v

Operation completed

All purchase orders My view

PO-000059 : 1003 - General Supplies

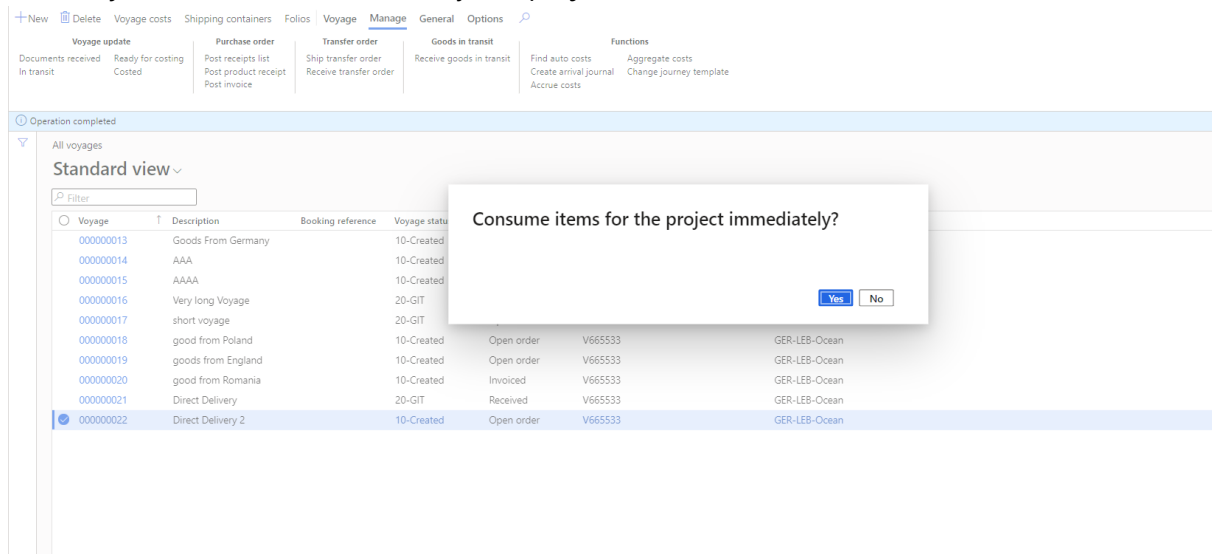
Purchase order header

Purchase order lines

+ Add line + Add products Remove Purchase order line Financials Inventory Product and supply Update line Warehouse Engineering change

Budget check results	Line number	Item number	Product name	Arabic Name	Procurement category	Qty In Cart...	Variant number	CW quantity	CW unit	Quantity	Unit	Unit price	Ad 1
	1	FABO.HH.106	Hexagonal Head M10x20			0.00				44.00	ea		0

9. At this point the system will prompt the user whether the Items received onsite will be consumed or not; *item consumption is when the item is physically deducted from inventory and it's cost consumed by the project.*



*If there are Goods that remain onsite and need to be returned , any shipping charges need to be allocated on the project itself noting that the item cost will not affect the project since it is not consumed and will be consumed later by another project.*

## Option 2:

The customer site can always be created as a separate warehouse,

1. A purchase order can be created with receiving warehouse "Customer Site"
2. The logistics can then create a voyage to manage this trip, to which charges codes will be added
3. Once the goods are shipped and received on the customer site, the Purchase order can be received to the "Customer Site" warehouse;
4. The finance can then invoice the purchase order

## Requirements

ID	Description	Fit/Gap
LOG002-01	Ability to Ship goods as direct shipment	FIT

### 1.3.3 LOG003 – Outbound Shipments Overview

#### Process Overview

The Project manager informs the logistics that a shipment is ready to shipped, this shipment is already an item requirement in the project

1. The Logistics will create a load based on the item requirement, *the Item Requirement will be defined by the project manager on the Project WBS, which is pushed to the Item Requirement automatically.*

The screenshot shows the 'Load planning workbench' interface. At the top, there are tabs for 'Add', 'Related information', and 'Consolidate'. Below these are filters for 'Supply and demand filter', 'Site', 'Warehouse', 'Ship date', and 'Receipt date'. A table of loads is displayed below the filters. The table has columns for 'Load ID', 'Invalid', 'Direction', 'Site', 'Warehouse', 'Load lines', 'Shipments', 'Incomplete reservation', 'Load status', 'Scheduled load shipping da...', 'Load template ID', 'Total freig...', 'Max. allow...', and 'Load ca...'. Two loads are visible: 'LOAD-000002' and 'TECH-000001'.

Load ID	Invalid	Direction	Site	Warehouse	Load lines	Shipments	Incomplete reservation	Load status	Scheduled load shipping da...	Load template ID	Total freig...	Max. allow...	Load ca...
LOAD-000002	<input type="checkbox"/>	Outbound	Technica	2002	1	1	<input type="checkbox"/>	Waved	6/18/2023 9:00:00 ...	20' Foot	1.00	0	0.0
TECH-000001	<input type="checkbox"/>	Outbound	Technica	2002	1	1	<input type="checkbox"/>	Waved	6/16/2023 9:00:00 PM	20' Foot	1.00	0	0.0

2. The logistics will add a route on the load; Zip code is not mandatory, Country/port or airport can be used instead of zip code; Technica might use the ZIP code in both situation

The screenshot shows the 'Routes' interface for 'LOAD-000002 : OUTBOUND'. It has a 'My view' dropdown and a 'Routes' tab. A table of routes is displayed. The table has columns for 'Route', 'Description', 'Route status', 'Site', 'Warehouse', 'Pickup ZIP/postal c...', 'Drop off ZIP/postal...', 'Miles', 'Transit days', 'Route guide', 'Route plan', 'Rate', 'Shipper rate', 'Customer r...', and 'Curr...'. One route is visible: 'TECH-000001'.

Route	Description	Route status	Site	Warehouse	Pickup ZIP/postal c...	Drop off ZIP/postal...	Miles	Transit days	Route guide	Route plan	Rate	Shipper rate	Customer r...	Curr...
TECH-000001		None	Technica	2002	00210		0.00	0.00			0.00	0.00	0.00	LBP

3. The logistics department will get be getting multiple request for quotations for this shipment and will record them in the Transportation Tenders



This will allow the logistics to compare rate

4. Once the best carrier is selected, the logistics can release the load,
5. The finance will then generate the Commercial Invoice & the packing Slip(LOG004) for shipping; *the commercial invoice will have no effect on the accounting, it is just a report used for the shipping process.*
6. Once the goods have reached their destination, the logistics can post the packing slip(otherwise known as Delivery note), The forwarder shipping invoice will be linked to the forwarder account.

## Requirements

ID	Description	Fit/Gap
LOG003-01	Ability to track outbound shipments	FIT
LOG003-02	Ability to track multiple rate for different carriers	FIT
LOG003-03	Ability to create Load for tracking shipments	FIT
LOG003-04	Ability to Print out a Commercial Invoice	FIT

## 1.3.1 LOG004 –Packing

### Process Overview

In order to do the packing, all parts need to be packed in boxes to be prepared for shipping. To do this, the logistics will open explode BOM screen and start assigning box names to all the BOM Lines

My view

Explode BOM

BOM

Item Configuration Product name

SAL1245-21... PS Conveyor / Painted Steel

QUANTITY

Quantity Unit

1.00 ea

		Item number	Configuration	Size	Color	Style	Site	Warehouse	Quantity	Per series	Unit	T...
		SAL1245-21CCRC00B					Technica		1.0000	1	ea	
		SAL1245-21CCRC00C					Technica		1.0000	1	ea	
		FABO.HH.105					Technica	1000	1.0000	1	ea	
		FA.NU.HXC.1					Technica	1000	1.0000	1	ea	
		SAL1245-21CCRC41					Technica	1002	1.0000	1	ea	
		PUC - R37DRN90L4BE2H					Technica		1.0000	1	ea	
		SAL1245-21CCRC34					Technica		1.0000	1	ea	

On each line the box number will assigned as well as the box name,

Once all lines are done the packing slip can be printed showing what each box has in terms of items

### Requirements

ID	Description	Fit/Gap
LOG004-01	Ability to assign/re-assign Box Numbers to parts being shipped	GAP

## 1.3.2 LOG000 - Setup

### Journey Template

The logistics department can create as many Journey's as they need , each leg will define portion of the journey

Edit New Delete Tracking control center Copy Options

Filter

GER-LEB-Ocean  
GER-LEB

Standard view

Journey templates

Journey template Description

GER-LEB-Ocean GER-LEB

Lines

Add Remove Tracking control center Up Down

	Leg	Description	From port	To port	Mode of delivery	Journey from port	Journey to port	Shipping company
	GER-PORT	GERMANY	GER-PORT	GER-PORT	Ocean	✓		
	MACGM	MACGM	GER-PORT	BEY-PORT	Ocean			1004
	BEY-PORT	Beyrouth PORT	BEY-PORT	BEY-PORT	Ocean		✓	

These will be provided by Technica during the migration phase

## Requirements

ID	Description	Fit/Gap
LOG004-01	Ability to create multiple journey template from origin to destination	FIT

## Journey Legs

The journey leg defines each portion of the journey ,

the most important part of defining a leg in a journey is defining the lead time required for this particular leg in terms of time, which is done from the tracking control center.

This will affect the estimated delivery date of the voyage ; *The Tracking control center is where you define what each of the journey legs require in terms of lead time, each leg lead time will allow calculating the estimated arrival date*

<div> Edit New Delete Update start date Update actual end date Add activities Options </div>									
00000019: GOODS FROM ENGLAND   Standard view									
<h3>Inbound tracking</h3> <div>Shipping container</div> <div>Overview   General   Notes</div> <div> Up Down </div>									
<input type="radio"/> Leg	Mode of delivery	Activity	Description	Start date	Estimated end date	Actual end date	Estimated days	Actual days	Note
<input checked="" type="radio"/> GER-PORT	Ocean	Loading	Loading	6/26/2023	6/29/2023		3	0	
<input type="radio"/> MACGM	Ocean	Ship	Ship	6/29/2023	7/11/2023		12	0	
<input type="radio"/> BEY-PORT	Ocean	OffLoading	OffLoading	7/11/2023	7/13/2023		2	0	

These will be provided by Technica during the migration phase

Technica requested if it is possible to add multiple lead times and as a result get an average lead time to any voyage leg, this is not available out of the box and would require customization if it is necessary.

## Requirements

ID	Description	Fit/Gap
LOG004-02	Ability to create multiple journey legs	FIT
LOG004-03	Ability to tack lead time for each journey leg	FIT
LOG004-04	Calculate Average lead time per leg	GAP

## Mode of Delivery

The mode of delivery can Ocean, Air, Land or anything that the logistics might need

<div> Save New Delete Translations External codes Transport calendar Process delivery mode Options </div>			
<div> <div> Filter </div> <div> LAND LAND AIR AIR Ocean Ocean </div> </div>			
<div> <div>Standard view</div> <h3>Modes of delivery</h3> <div> Mode of delivery Description Charges group Expedite </div> <div> Ocean Ocean </div> <div> Retail channels </div> <div> Add line Remove </div> <div> Name Party ID </div> </div>			

These will be provided by Technica during the migration phase

## Requirements

ID	Description	Fit/Gap
LOG004-03	Ability to maintain mode of delivery	FIT

## DOCUMENT APPROVALS

I have reviewed the information contained in this document and approved it through by sign off below:

Name	Department	Date	Signature

Comments:

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The specifications and conditions are hereby accepted. Info-Sys is authorized to execute the project as outlined in this document. This document is not valid until signed by the customer representative and returned to Info-Sys.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_