



TMS for Logistics Service Providers

A Business Central-native platform for multi-stage forwarding, carrier execution, settlement, and customer invoicing.

LSP-only scope

Carrier execution

Financial control

Why logistics providers choose LSP TMS

Operational execution and financial control in one Business Central workflow.

01

Run the full forwarding job

Capture customer requests, parties, cargo, dates, stages, and commercial terms in one Forwarding Order.

02

Control carrier execution

Assign each leg to the right carrier, pay-to vendor, vehicle, driver, route, timing, and required documents.

03

Protect margin

Track billable services, carrier charges, cost allocation, uninvoiced work, and expected profit by order.

Forwarding Order (TMS) 100009 · INTERMODAL · Adatum Corporation

Home Logistic Units Print/Send Invoicing Navigate More options

Shipper & Consignee

Shipper	Consignee
Shipper Type Customer	Consignee Type Customer
Shipper No. 30000	Consignee No. C00020
Shipper Name School of Fine Art	Consignee Name Adatum Corporation
Load Address Code	Unload Address Code
Load Address 10 High Tower Green	Unload Address Station Road, 21
Load Address, City Miami	Unload Address, City Cambridge
Shipper Notes	Consignee Notes

[Show on Map](#) [Show on Map](#)

Plan

Start	End
Requested Pick-up Datetime	Requested Delivery Datetime
Planned Start Datetime	Planned End Datetime
Actual Start Date	Actual End Date

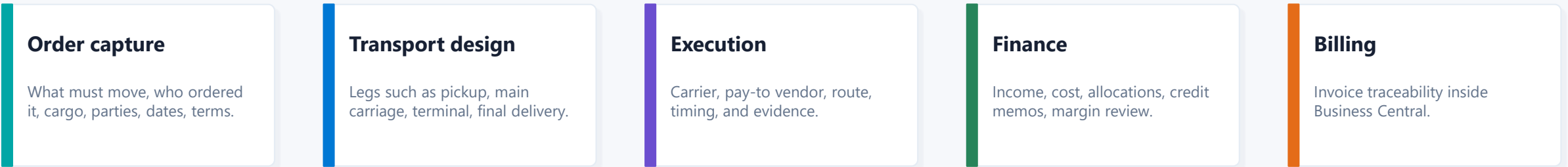
The value is not only dispatch visibility — it is invoice readiness, cost transparency, and margin control.

End-to-end LSP workflow

From customer request to posted history, every step remains traceable.



A customer job starts as a Forwarding Order, is split into planned stages, executed with Freight Orders, reconciled in Settlement, invoiced to the customer, and archived as posted history.



Core operating model

Clear separation between what is transported and how it is executed.

Forwarding Order (TMS)
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General

Type: INTERMODAL Status Code: 1.NEW

References

External Tracking Number: Master Waybill: House Waybill: Consol Number: Reference No.

Dates

Document Date: 1/10/2024 Posting Date: 1/10/2024 Comment: Route No.

Ordering Party

Order Party Type: Customer Currency Code: Order Party No.: C00020 Salesperson Code: JO Order Party Name: Adatum Corporation Incoterm: Order Party Address: Station Road, 21



Logistic Units define the cargo structure: pallets, boxes, containers, SSCC, weight, volume, and handling units.

Freight Order (TMS)
 FO-00026

Home Print/Send Navigate More options

Route Line Process

Transfer Lines Detach Forwarding Order Stage Entries

Priority/Dr... No. ↑	Sim... Load	Forwarding Order No. ↑	Source Document No.	Mode of Transport	Start Date Time	Duration
→ 10	☑	OD.00040	101020	ROAD	5/24/2022 12:00 ...	23 minutes 3 seconds
20	☑	OD.00038	101018	ROAD	5/24/2022 12:00 ...	1 hour 2 minutes 42 s...
30	☑	OD.00039	101019	ROAD	5/24/2022 12:00 ...	1 hour 29 minutes 37 ...
40	☑	OD.00041	101021	ROAD	5/24/2022 12:00 ...	2 hours 5 minutes 33 ...
100	☐	OD.00040	101020	ROAD	5/24/2022 12:23 ...	

Logistic Units Delete Line

Type ↑	No. ↑	Description	No. of Packages	Forwarding Order No. ↑
(There is nothing to show in this view)				

Forwarding Order management

The main LSP document for customer-facing transportation work.

← Forwarding Order (TMS)
✎ 📄 + 🗑️

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Home | Logistic Units | Print/Send | Invoicing | Navigate | More options

Shipper & Consignee Show more

<p>Shipper</p> <p>Shipper Type <input type="text" value="Customer"/></p> <p>Shipper No. <input type="text" value="30000"/> ...</p> <p>Shipper Name <input type="text" value="School of Fine Art"/></p> <p>Load Address Code <input type="text"/></p> <p>Load Address <input type="text" value="10 High Tower Green"/></p> <p>Load Address, City <input type="text" value="Miami"/></p> <p>Shipper Notes <input type="text"/></p> <p>Show on Map</p>	<p>Consignee</p> <p>Consignee Type <input type="text" value="Customer"/></p> <p>Consignee No. <input type="text" value="C00020"/> ...</p> <p>Consignee Name <input type="text" value="Adatum Corporation"/></p> <p>Unload Address Code <input type="text"/></p> <p>Unload Address <input type="text" value="Station Road, 21"/></p> <p>Unload Address, City <input type="text" value="Cambridge"/></p> <p>Consignee Notes <input type="text"/></p> <p>Show on Map</p>
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Plan

<p>Start</p> <p>Requested Pick-up Datetime ... <input type="text" value=""/> 📅</p> <p>Planned Start Datetime <input type="text" value=""/> 📅</p> <p>Actual Start Date <input type="text" value=""/> 📅</p>	<p>End</p> <p>Requested Delivery Datetime ... <input type="text" value=""/> 📅</p> <p>Planned End Datetime <input type="text" value=""/> 📅</p> <p>Actual End Date <input type="text" value=""/> 📅</p>
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Forwarding Orders centralize

Ordering party and customer invoicing context

Shipper, consignee, contacts, and map locations

Cargo, products, logistic units, weight and volume

Requested and promised pickup / delivery dates

Stages, statuses, documents, and settlement lines

One order record gives operations, customer service, and finance the same version of the job.

Multi-stage and multimodal forwarding

Plan complex transportation as linked stages, not disconnected jobs.

Type	No.	Description	Freight Class	Quantity	Unit of Measure Code	Gross Weight per Unit of Measure	Weight Unit of Measure	Gross Weight
→ Unit Type	C20RC	20' Reefer container	060	3.00		30,000	KG	90,000
Total Gross Weight (kg) 90,000.00 Total Volume (m³)								
Total Chargeable Weight (kg) 90,000.00 Number of Packages								

Stage Code	Stage Description	Mode of Transport	Para...	Start Date Time	Duration	Wait Duration	End Date Time	Actual Date Time
→ 100	Precarriage	ROAD	<input type="checkbox"/>	07/02/2024 00:00	1 day		08/02/2024 00:00	
200	Main carriage	OCEAN	<input type="checkbox"/>	08/02/2024 00:00	10 days		18/02/2024 00:00	
300	Delivery	ROAD	<input type="checkbox"/>	18/02/2024 00:00	2 days		20/02/2024 00:00	



Pickup



Main carriage



Terminal / port



Final delivery

Reusable stage profiles

Stage profiles define reusable transportation patterns. Each leg can have its own dates, carrier execution, documents, status controls, and financial impact.

Separate planning per leg

Dependencies between loading and unloading windows

Visibility into the whole customer job

Carrier execution without losing margin

Freight Order execution

Turn planned stages into controlled carrier work.

Freight Orders answer “how will this leg be transported?”

Carrier and pay-to vendor separation

Vehicle, driver, route, priority, and timing

Route content with linked Forwarding Orders and stages

Freight charges and allocation to transported jobs

Documents and execution details tied to the carrier movement

Supports subcontracted carriers, own fleet resources, or mixed execution models.

← Freight Order (TMS)

FO-00004

Home
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General Show more

Document Date	<input type="text" value="4/8/2024"/>		Route No.	<input type="text"/>
Posting Date	<input type="text"/>		Loading Details	
External Tracking Nu...	<input type="text"/>		Loading Bay	<input type="text"/>
Vehicle Dimensions			Load Priority	<input type="text" value="0"/>
Vehicle Unit Type Code	<input type="text" value="TRUCK"/>		Load Date And Time	<input type="text" value="4/7/2024 9:00 PM"/>
Vehicle Unit Type Des...	<input type="text" value="truck and trailer combination"/>		Comment	<input type="text"/>
Status Code	<input type="text" value="1.PLAN"/>			

Carrier Show more

Actual Carrier		Carrier Agent / Pay-to	
Carrier Name	<input type="text" value="Own Logistics"/>	Pay-to Vendor Name	<input type="text" value="Aerospace Vendor Solutio ..."/>
Master Waybill	<input type="text"/>	House Waybill	<input type="text"/>
Consol Number	<input type="text"/>	Cost Amount (Expect...	<input type="text" value="0.00"/>

Vehicle and Driver >

Iveco Eurocargo
EHENDERSON

Summary Preview

Details Preview

Attachments ▼

File

(There is nothing)

Pay-to Detail

Vendor No.

Balance (LCY)

Balance (LCY) As Cust

Outstanding Orders (L

Amt. Rcd. Not Invd. (L

Outstanding Invoices

Total (LCY)

Outstanding Amounts (L

Freight Load Management

An LSP planning view for Freight Orders and carrier workload.

The screenshot displays the 'Freight Load Management' interface. At the top, there are navigation icons (back, edit, share, add, delete) and a title bar. Below the title, there are controls for 'Show/Hide Date Filters', 'Previous Period', 'Next Period', and 'Update'. A 'View by' dropdown is set to 'Day' and a 'Date Filter' is set to '04/08/24'. The main section is titled 'Freight Orders' and includes a 'Manage' link and a 'Print' button. Below this, there are three action buttons: 'New Freight Order', 'Create Warehouse Shipment', and 'Open Warehouse Shipment'. A table lists freight orders with the following data:

No.	Loading Bay	Load Priority ↑	Load Date And Time	Document Date ↑	Carrier No.	Carrier Name	Vehicle Unit Type Code
→ FO-00004		0	4/7/2024 9:00 PM	4/8/2024	OWN LOG.	Own Logistics	TRUCK

Below the table, there is a 'Freight Order Details' section with buttons for 'Create Warehouse Shipment', 'Transfer', and 'Detach Forwarding Order'. A table below this section is currently empty, displaying the message '(There is nothing to show in this view)'. The table headers are: 'Priority/Dr... No. ↑', 'Forwarding Order No. ↑', 'Stage Description', 'Source Document No.', 'Comment', and 'Consi... Comm...'.

What planners use it for

Filter active Freight Orders by date, route, carrier, status, or workload

Review planned execution windows and capacity indicators

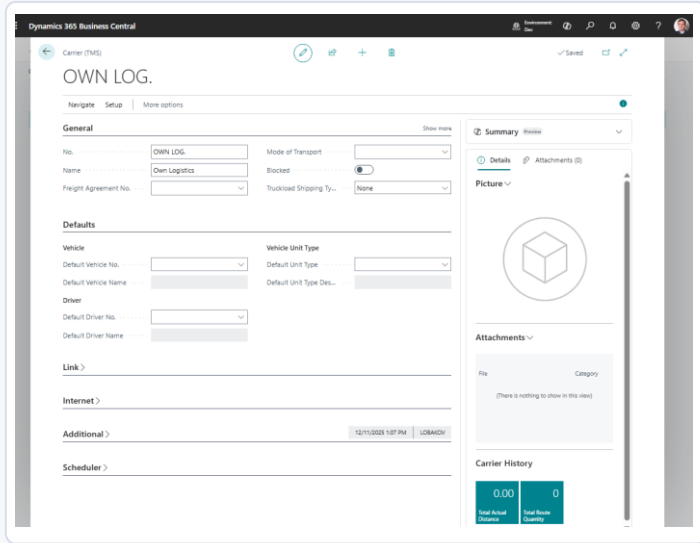
Assign carrier, vehicle, and driver where status rules allow it

Open Freight Orders for detailed stages, charges, documents, and settlement

Updated positioning: this is no longer presented as a Sales Order / Delivery Order shipper scenario.

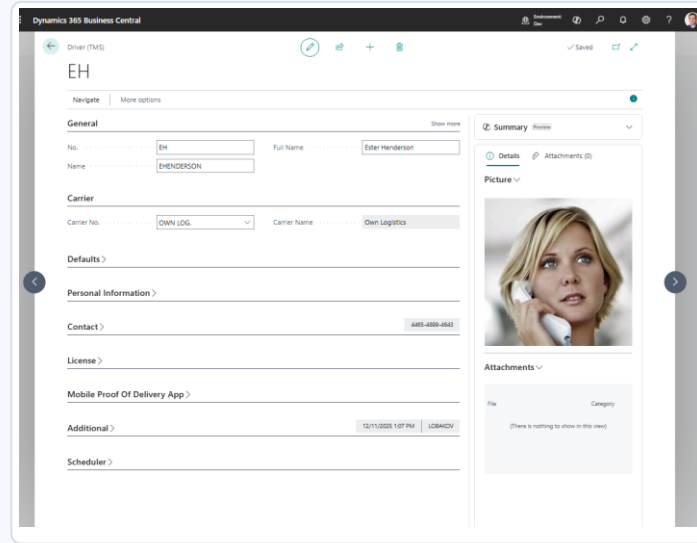
Carrier, fleet, and driver master data

Control third-party carriers and operational resources with Business Central records.



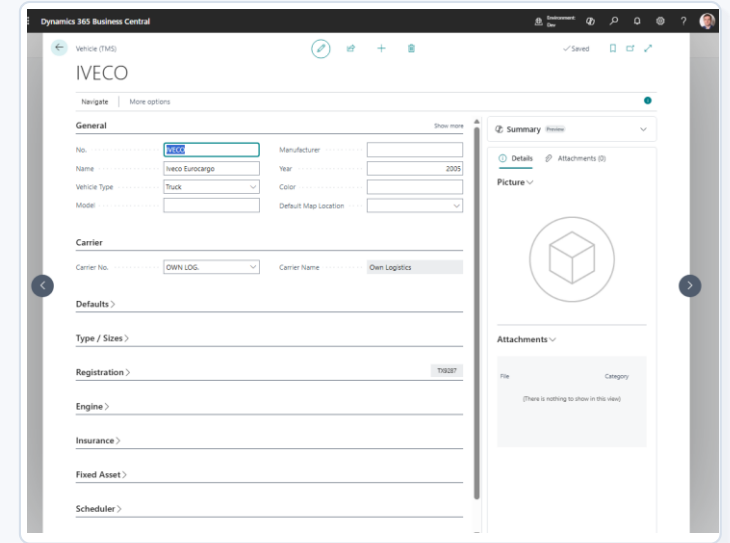
Carrier

Agreement, mode of transport, default resources, and source vendor/resource.



Driver

License, ADR, medical card, contact data, default vehicle, and POD user references.



Vehicle

Vehicle details, equipment context, engine type, blocked status, and assignment visibility.

Settlement: income, cost, margin

A financial workspace built into the transportation workflow.

Forwarding Order (TMS) ✎ ↻ + 🗑

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Home | Logistic Units | Print/Send | Invoicing | Navigate | More options

Stages | Manage | Process ↗ E

🔍 New Line | 🗑 Delete Line

Stage Code	Stage Description	Mode of Transport	Parallel	Start Date Time	Duration	Wait Duration
→ 100	Precarriage	ROAD	<input type="checkbox"/>			
200	Main carriage	OCEAN	<input type="checkbox"/>			
300	Delivery	ROAD	<input type="checkbox"/>			

Settlement | Manage | Calculation | Functions | Prices | Charge Allocation ↗ E

🔍 New Line | 🗑 Delete Line

Type	Code	Description	Quantity	Unit of Measure Code	Price	Currency Code
→ Income	FR	Freight	1.00		5,000.00	-
Cost	FREIGHT	Freight	1.00		-648.82	-
Cost	FREIGHT	Freight	1.00		-2,000.00	-

Total Income (LCY) 5,000.00 Total Profit (LCY) 2,351.18

Total Cost (LCY) -2,648.82

Settlement helps LSP teams close the financial loop

Determine customer income from billable services

Calculate and allocate actual carrier or supplier costs

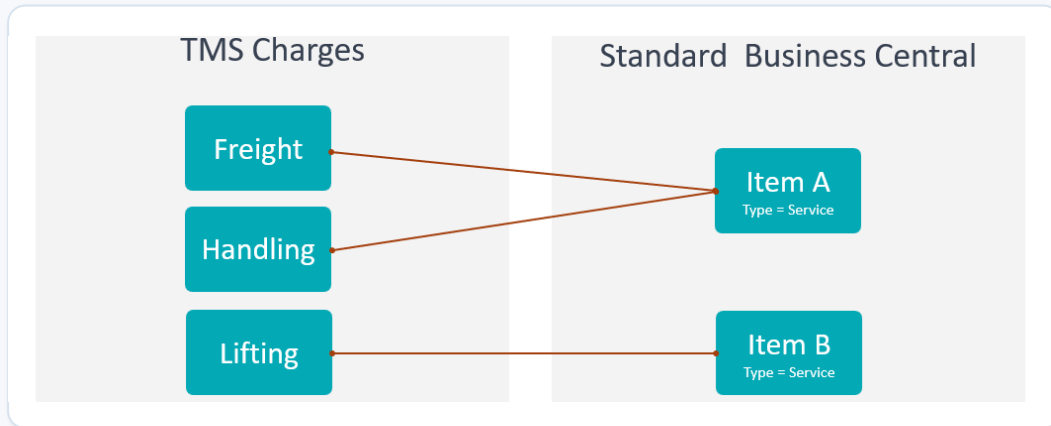
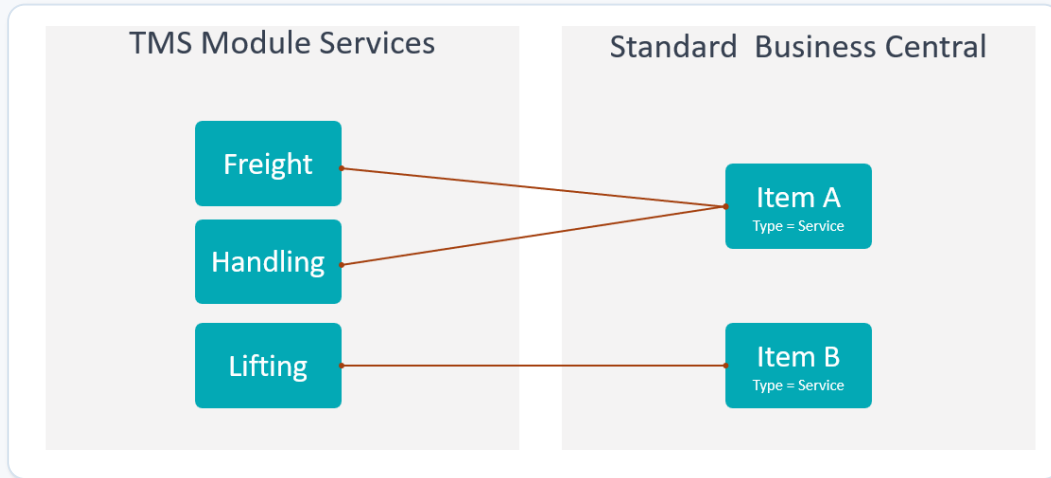
Reconcile planned vs. actual financial result

Create invoices and credit memos from the transportation job

Monitor uninvoiced work and expected profit

Services, charges, agreements, and pricing

Make commercial rules reusable and easier to review.



Revenue side

TMS Services map billable work to service-type items; Forwarding Agreements and Price Lists suggest income lines by customer, route, currency, quantity, weight, or volume.

Cost side

Charges map carrier/supplier costs to purchase items; Freight Agreements define carrier-side rates, currency, validity, and default charge lines.

Reusable commercial structures help teams price faster and keep settlement review consistent.

Purchase assignment and cost allocation

Link actual supplier invoices to the correct transportation work.



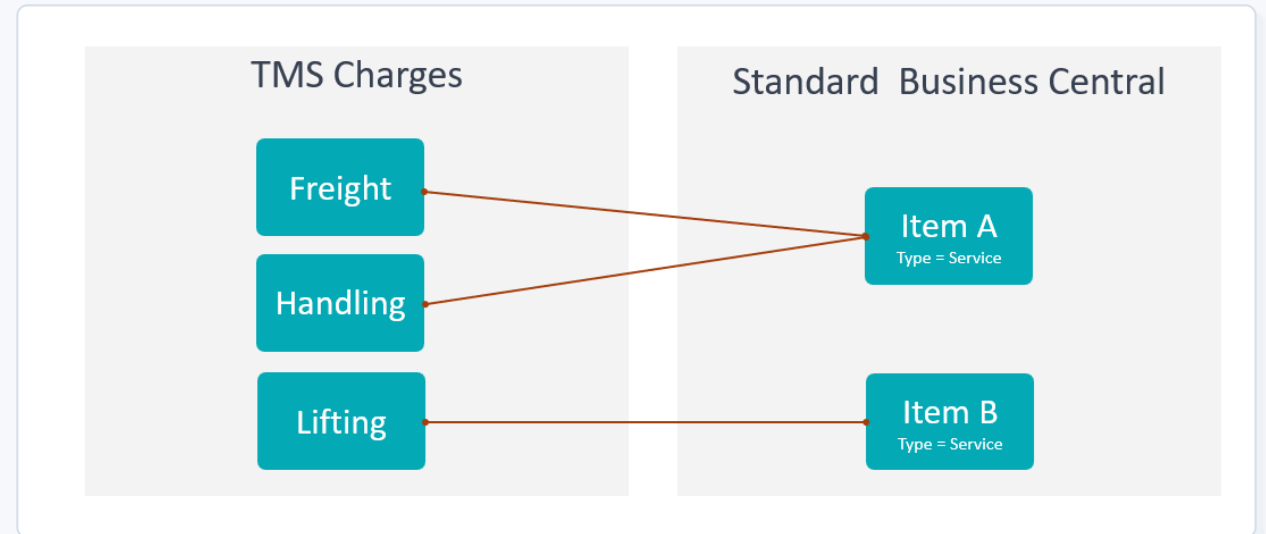
Cost allocation methods supported by the model

Allocate costs evenly across transported jobs

Distribute by weight or number of logistic units

Assign arbitrary/manual shares when commercial reality requires it

Keep purchase document references visible for audit and reconciliation



Customer billing and profitability

Invoice directly from Forwarding Order settlement lines.



Type	Code	Description	Quantity	Unit of Measu... Code	Price	Currency Code	Amount
→ Income	DL	Delivery	1.00		1,000.00		1,000.00
Income	HNDL	Handling	1.00		200.00		200.00
Cost	FREIGHT	Freight	1.00	PCS	-700.00		-700.00
Income	FR	Freight	1.00	PCS	100.00		100.00
Income	FRE	Packing	2.00	PCS	100.00		200.00
Cost	FREIGHT	Freight Discount B	1.00	PCS	200.00		200.00
Cost	FREIGHT	Freight Discount S	1.00	PCS	100.00		100.00
Cost	FREIGHT	Freight 1	1.00	PCS	-100.00		-100.00
Cost	FREIGHT	Freight 2	2.00	PCS	-200.00		-400.00
Total Income (LCY)		1,500.00		Total Profit (LCY)		600.00	
Total Cost (LCY)		-900.00					

Business impact

- Less manual rekeying between operations and finance
- Visibility into services rendered but not invoiced
- Expected profit converted into local currency
- Invoice and credit memo references linked back to the job

Documents, attachments, and checklists

Make transportation documents visible and enforceable.

The screenshot shows the 'Attachments Control' interface. At the top, there are navigation icons (back, search, refresh, update, settings) and a toolbar with share, filter, and menu icons. The main content is a table with the following columns: No. ↑, Post..., Ordering Party Name, Document Date, Status Code, Posting Date, Type, Attachm..., CMR, AWB, Delivery Note, and H. The table contains several rows of data, with the last row (OD.00004) highlighted in blue. A red box highlights the columns for CMR, AWB, and Delivery Note.

No. ↑	Post...	Ordering Party Name	Document Date	Status Code	Posting Date	Type	Attachm...	CMR	AWB	Delivery Note	H.
DLV.00002	<input type="checkbox"/>		4/8/2026	1.NEW	4/8/2026	DELIV...	-	-	-	-	
FWO.00003	<input type="checkbox"/>		12/11/2025	1.NEW	12/11/2025	FWO	2	1	1	-	
FWO.00004	<input type="checkbox"/>		1/5/2026	1.NEW	1/5/2026	FWO	2	-	-	1	
FWO.00005	<input type="checkbox"/>		1/5/2026	1.NEW	1/5/2026	FWO	2	-	-	1	
FWO.00006	<input type="checkbox"/>	Trey Research	1/7/2026	1.NEW	1/7/2026	FWO	2	-	1	1	
I00003	<input type="checkbox"/>	CRONUS UK Ltd.	3/31/2026	1.NEW	4/15/2026	INTER...	-	-	-	-	
I00004	<input type="checkbox"/>	CRONUS UK Ltd.	3/31/2026	1.NEW	3/31/2026	INTER...	-	-	-	-	
OD.00004	<input checked="" type="checkbox"/>	CRONUS UK Ltd.	4/13/2026	1.NEW	4/8/2024	OUT.D...	-	-	-	-	

Document control covers

Attachment categories such as CMR, AWB, Bill of Lading, POD, and carrier rate sheets

Required documents by status or process step

Operational checklists for tasks that must be completed before the job moves forward

Attachment support for active and posted orders, agreements, carriers, vehicles, and drivers

Azure Blob Storage can move high-volume TMS attachments outside the Business Central database.

Stage Entries and execution history

Record what happened during the movement, not just what was planned.

Start / arrival / completion events

Stage-level evidence captured during the movement and preserved for review.

Images and attachments

Photos, documents, and confirmations can be associated with execution records.

Status and incident updates

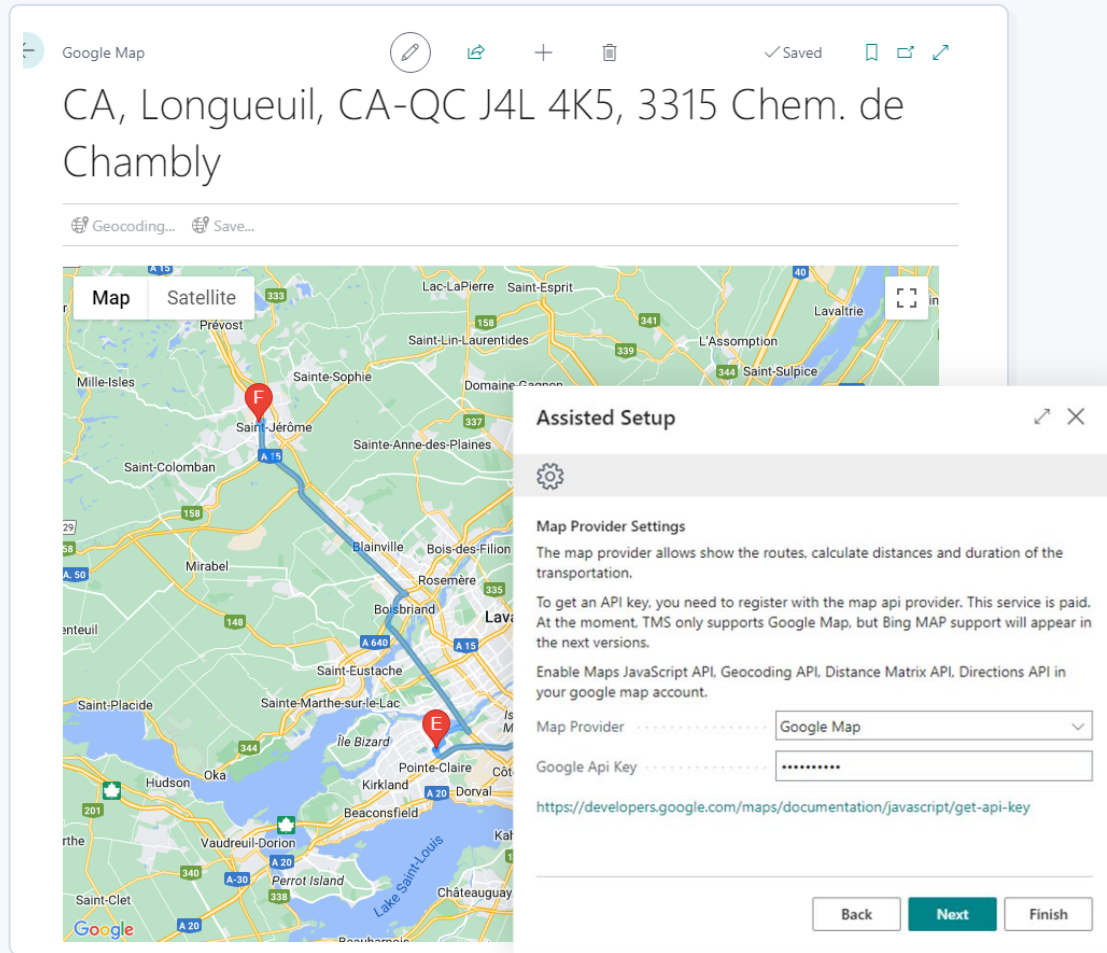
Exceptions and non-standard situations can be visible in the operational trail.

Execution evidence is not isolated from finance: it remains connected to the job, carrier movement, posted history, and customer service trail.



Map locations and route optimization

Use geocoding and routing to make address data operational.



Map functionality supports

TMS Map Locations with coordinates and location types

Google Maps distance and route calculation

Freight Order route sequencing and optimization by distance or duration

Distance matrix records for repeatable location-to-location planning

API, Customer Portal, and Power BI access

Open TMS data to customer-facing and analytics scenarios.

Master data

Carriers, drivers, vehicles, customers, contacts, map locations

Forwarding workflow

Orders, content, stages, settlement, attachments, status

Freight workflow

Freight Orders, route lines, stage entries, charges, documents

Posted history

Posted orders, posted settlement, posted charges, archived execution

Portal

Portal tickets and customer notifications

Documents

Attachments and generated PDFs for invoices and credit memos

Recommended integration pattern: dedicated integration user, least-privilege permission sets, read-only first, then validated write operations.

AI, wizards, and guided setup

Speed up adoption while keeping users in control.

New Forwarding Order Wizard
↗ ✕

Welcome

The Forwarding Order is the core document in the Transportation Management System (TMS). It's basically a transportation request that can come from an outside client or from within the company. This document details what needs to be moved, the pickup and delivery locations, who is sending (shipper) and receiving (consignee) the items, what's being shipped, key dates, and who pays for what.

Select the order type. The Forwarding Order Type determines the document's structure, the workflow of its processing business process, and the transportation steps.

Forwarding Order Type

Next
Finish

New and advanced productivity features

AI-assisted Forwarding Order draft creation from customer request text

New Forwarding Order Wizard for guided data entry

Freight Order wizards for creating execution from selected stages or content

TMS Setup consolidates number series, status profiles, stages, freight order types, finance, maps, role center filters, reports, and Azure Blob Storage

Posted history and audit trail

Preserve completed transportation work for service, finance, and reporting.



Posted records are read-only history for customer service questions, finance checks, carrier dispute review, and Power BI reporting.

Operational audit

Stages, execution entries, route data, carrier assignment, vehicle and driver context.

Financial audit

Income, cost, purchase assignment, customer invoice references, and margin.

Document audit

Attachments, document categories, posted files, and customer-facing documents.

Built for LSP operations where dispatch visibility and financial control must work together.

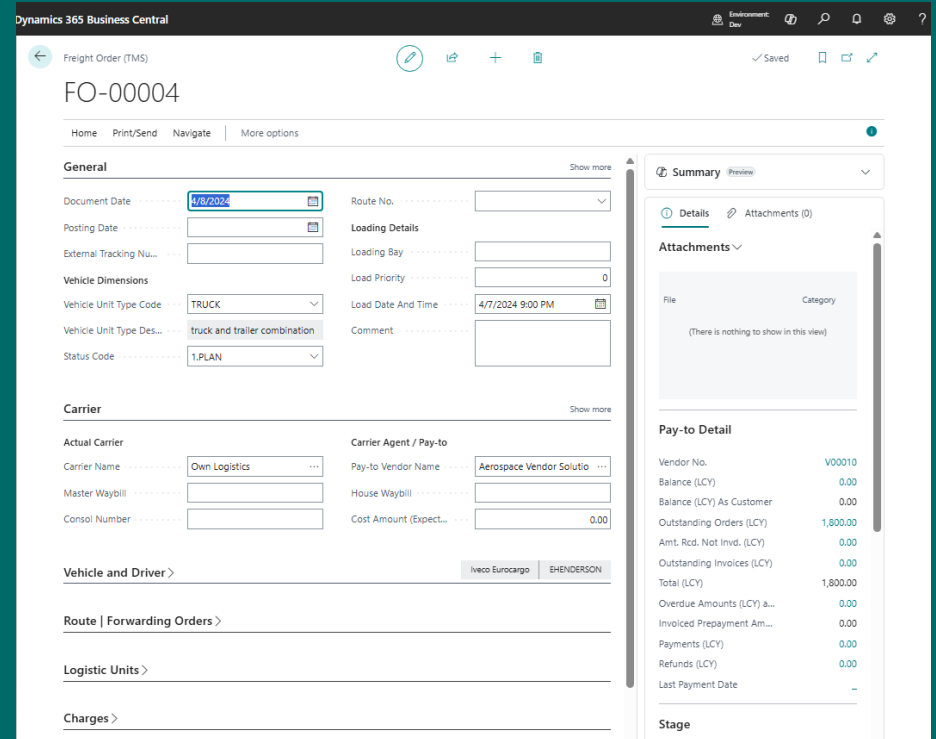
Updated LSP-only scope

Multi-stage forwarding and carrier execution

Settlement, charge allocation, customer invoicing, and profitability

API, portal, maps, AI drafting, wizards, documents, posted history

Shipper-only Delivery Orders and Transport Requests intentionally excluded



Product page: extensions-lab.com/tms | Documentation: tms.extensions-lab.com