

Container depot management, from the gate to the **monthly bill**.

Gate operations, repairs and estimates, spares and purchasing, billing, and a portal for every shipping line, with AI where it saves time and a person always confirming.

One record per box

Gate-in to invoice, with photos, receipts and history

Lines self-serve

Stock, estimates, bills and truck bookings in their own portal

Optional AI

Reads photos, drafts estimates, flags odd costs

OVERVIEW

How a box moves through Modity

Every container has one record that follows it through the depot. Each step adds to that record, so the bill at the end of the month is built from what actually happened.

1 Pre-advice

Line announces a box or a count of boxes

2 Appointment

Truck slot booked, QR pass issued

3 Gate-in

Scan pass, check, photos, EIR signed

4 Yard and repair

Estimate, line approval, work done

5 Release and gate-out

Matched to the release, EIR issued

6 Bill

Handling, storage, repairs, services

Gate and yard

Gate-in and gate-out with ISO 6346 check, condition, seal, driver and truck. Receipts, photos, event history.

Stores and purchasing

Requisition, vendor quotes, order, goods receipt, issue and transfer.

Shipping-line portal

Each line sees only its own boxes, estimates, bills and appointments.

Repairs

Priced estimate lines, coded damage, line approval, spares issued to the repair.

Billing

Tariffs per line or customer, chargeable services, credit notes, PDF bills.

Reports and KPIs

Dwell, turnaround, utilisation, revenue per TEU, plus operational reports.

WHERE THE AI SITS

- Gate-in: reads container number, size and seal from a photo.
- Repairs: proposes estimate lines from past repairs and flags unusual costs.
- Dashboard: writes a short plain-language summary of the day.
- Everything it suggests is checked or confirmed by a person before it is saved.

GATE AND YARD

Gate operations and yard

Gate-in and gate-out

Container number validated by the ISO 6346 check digit; size, type, condition, seal, driver and truck recorded.

Receipts (EIR) as PDF

Every gate-in and gate-out produces a receipt. The driver signs on the screen and up to six photos print on it.

Truck appointments and QR pass

The driver or the line books a slot. The pass link shows a QR code. The gate scans it and the form fills itself.

Container transfers

Move boxes between depots with the movement recorded.

Pre-advice and releases

The gate form shows whether the box is expected or released. Administrators can require a match, or the clerk must give a reason that is saved on the receipt.

Photos and history

Phone-camera photos attach to the container. Full event history per box.

Inventory import

Load the boxes in the yard today from a spreadsheet. Rows with problems are listed; good rows load.

Works on a phone

The same web screens run on a phone or tablet at the gate.


Modity Container depot management
 AD Administrator JEDDAH - Demo Depot [Sign out](#)

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Truck appointments

Who is coming to the gate today, for which box, and at what time. A driver shows the QR pass; the clerk scans it and the gate form fills itself.

10/21/2026
 All depots
 Every status
 [Book a truck](#)

Time	For	Shipping line	Container	Driver / truck	Status	
08:00 Jeddah Depot A	Delivering in	MSC	MSCU7654321	Saeed Al-Harbi TRK - 221 - +966 50 123 4567	DONE	Copy pass link Pass
09:00 Jeddah Depot A	Collecting	MSC	MSCU1234566	Saeed Al-Harbi TRK - 222 - +966 50 123 4567	ARRIVED	Copy pass link Pass Cancel
10:00 Jeddah Depot A	Delivering in	MSC	Any 40HC	Saeed Al-Harbi TRK - 223 - +966 50 123 4567	BOOKED	Copy pass link Pass No-show Cancel
11:00 Jeddah Depot A	Collecting	MSC	MSCU5555551	Saeed Al-Harbi TRK - 224 - +966 50 123 4567	BOOKED	Copy pass link Pass No-show Cancel

Truck appointments: booked, arrived, completed, no-show

AI AT THE GATE

- Read the box from a photo: suggests number, size and seal. The number is checked with the check digit and the clerk confirms before anything is saved.

REPAIRS

Repairs, estimates and damage codes

Estimate lines

Parts and labour with quantity, rate and amount.
Estimates at or under a set limit can approve automatically.

Line approval

The line approves or rejects with its own reference.
Work can be held until it does, or the depot records an approval given by phone or email.

Spares tied to repairs

Parts issued from stores show on the repair they were used for.

Coded lines (CEDEX-style)

Component, damage and repair codes plus location and size. The code lists are editable under Masters.

Re-approval on change

Changing an estimate asks the line again.

Email when waiting

The line gets an email when an estimate is waiting for its approval.


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Container depot management

AD

Administrator

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Repairs

Estimates with parts and labour, approval, and finishing the work. Spares issued from stores show on each repair.

Container	Line	Depot	Damage	Estimate	Line's approval	Status
MSCU1234566 48HC	MSC	Jeddah Depot A	Door gasket torn	454	PENDING	ESTIMATED

Estimate lines Record line's approval Approve estimate Reject

Estimate lines: MSCU1234566: Door gasket torn

Type	Spare part	Description	Component	Damage	Repair	Where / size	Qty	Rate	Amount
Part	Not from stores	Door gasket se	GK Door gas	TN Torn	RP Replace	Door end 30 x 20 cm	1	90	90.00
Labour		Fitter, hours				Left side 30 x 20 cm	4	28	112.00
Estimate									202.00

Add a part Add labour Check against past repairs Suggest lines (AI) Save estimate

Estimate editor: code columns, cost check and AI suggestion buttons

AI ESTIMATE ASSISTANT

- Suggest lines: proposes parts and labour lines from the depot's own past repairs; codes and parts are validated against the lists.
- Check against past repairs: flags rates against the last purchase price, rates and quantities against similar repairs, duplicates, and totals far from the usual. This check needs no AI and no key.

STORES AND PURCHASING

Stores, spares and purchasing

Purchase requisition

Raised by stores; approved or rejected, with a reason, by a person who has the purchase permission.

Purchase order

Awarding a quote raises the order. Status: open, part-received, closed, short-closed.

Goods issue

Refuses to go below zero. Can be tied to a repair.

Minimum stock

Warnings when stock falls below the minimum; stock count for opening balances.

Vendor quotes

Several vendors are asked; each gets its own link to type prices, with no sign-in. Side-by-side comparison with the lowest shaded and each vendor's previous price.

Goods receipt

Received against ordered. Damaged goods are returned to the vendor and not stocked.

Stock transfer

Spares between depots with a full movement log.

Value at last rate

Stock valued at the last purchase rate; used by the estimate cost check.

Masters hold vendors, spare parts and taxes. Access is by role: stores, purchasing and billing permissions are separate.

BILLING

Billing, services and credit notes

Monthly bills

Handling in and out, storage after the free days, repairs plus markup, and tax, per shipping line or customer with a DEFAULT tariff for the rest.

Credit notes

Raised against issued bills. Tax is taken pro-rata and the amount is limited to what remains. They reduce the line's balance and net sales.

PDF documents

Bill and credit note PDFs for the depot and for the line portal.

Chargeable services

Washing, PTI, lifting and cleaning, each with its own tariff per line, falling back to the default. Added from the unit screen.

Automatic run

Bills can be generated automatically on the 1st of each month, or run by hand. Draft, issued, paid.

Net figures

Dashboard and reports show sales net of credit notes.


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Billing

Tariffs, monthly bills for shipping lines and customers, and the depot settings.

Monthly bills
Credit notes
Tariffs
Services
Depot settings

Extra services you charge for on a box: wash, PTI, extra lifts, cleaning. Record each one from Yard stock with the Service button; it goes on that month's bill at the line's or customer's rate, otherwise the standard rate.

Code	Service	Unit	Standard rate	Status	
WASH	Container wash	EACH	35.00	Active	Edit
PTI	Pre-trip inspection (reefer)	EACH	60.00	Active	Edit

Add a service

Rates for a line or customer

Service	Line, customer or DEFAULT	Rate	
Container wash	MSC	30.00	Remove

Service	Line code, customer name or DEFAULT	Rate
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Billing, Services: rates for each chargeable service

Tariffs, free days and tax rates are the depot's own settings; Modity applies whatever is configured.

PORTAL AND ALERTS

Shipping-line portal and alerts

Own boxes only

Each line signs in and sees only its own units, with days against free days and a spreadsheet export.

Repair estimates

Parts and labour lines with codes; approve or reject in the portal.

Bills and credit notes

Issued bills with PDF, credits and balance.

CODECO gate messages

Baseline UN/EDIFACT D.95B gate-in and gate-out files. The layout should be checked against each line's own guide.

History and receipts

Each box's history and gate receipts.

Pre-advice and releases

The line sends new pre-advice and releases and sees their status.

Truck appointments

Book or cancel slots; the driver gets a pass link with a QR code.

Email alerts

Estimate waiting for approval, free days ending or over, and a daily stock report, sent through the depot's own mail server.


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Staff view of truck appointments; screens show sample data

Line sign-ins are created by the depot administrator; a temporary password is shown once and must be changed at first sign-in.

REPORTS AND KPIS

Reports and key figures

Dwell time

How long boxes stay in the yard.

Depot utilisation

Boxes in the yard against each depot's capacity in TEU.

Gate throughput and damage rate

Movements and the share of boxes arriving damaged.

Repair turnaround

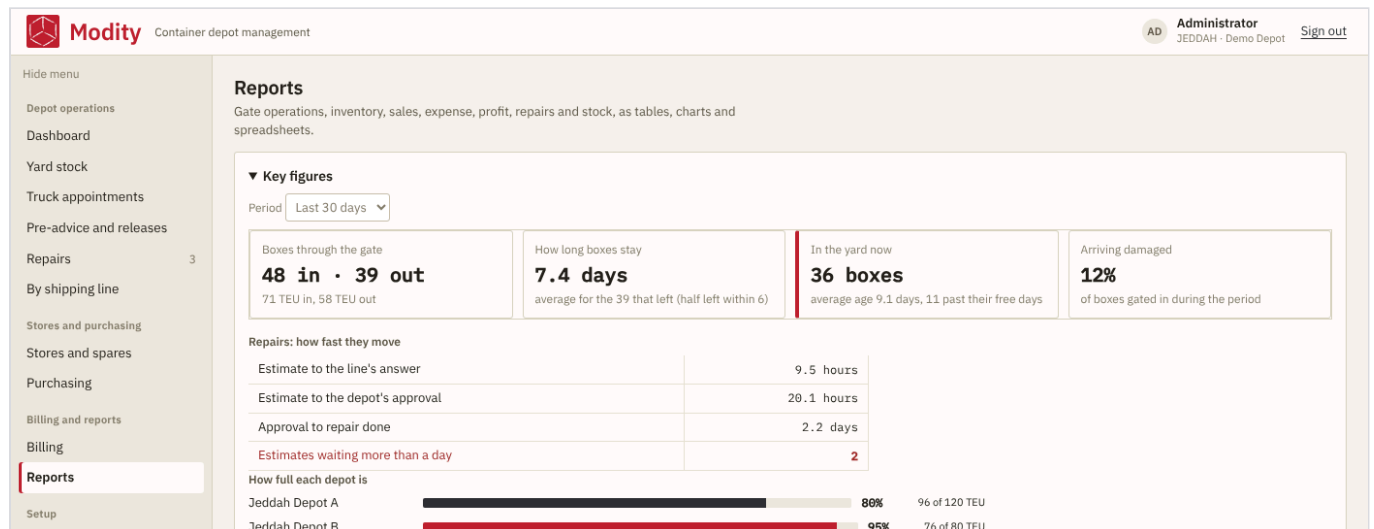
Hours from estimate to finished repair.

Revenue per TEU

Net sales divided by TEU handled, for the last three months.

Operational reports

Gate, inventory by line, customer, depot and size; sales, expense, profit, repairs and stock. Table, chart, CSV and print.



Key figures at the top of Reports

TODAY, IN BRIEF

- The dashboard opens with plain sentences on what to do first, always built from the numbers. With AI on, the model words them from counts only; no names or documents are sent.

AI IN MODITY

AI, data and safeguards

AI in Modity is optional and off until an administrator switches it on and stores a key. It suggests; people decide.

Read the box from a photo

Suggests number, size and seal. Checked with the ISO 6346 check digit, then confirmed by the clerk.

Estimate assistant

Drafts estimate lines from the depot's own past repairs.

Unusual-cost flags

Deterministic checks against past repairs and stock prices; no AI needed.

Today, in brief

Day summary written from counts only.

What leaves the server

- Photos sent for reading, and the counts or repair lines needed for a suggestion, go to Google's Gemini service.
- The day summary sends counts only, with no names or documents.
- The API key is stored encrypted.
- Only models that have a Gemini free tier are used. A key from a project with billing switched on is charged by Google.
- When the free quota is used up, Modity says so and the data is entered by hand.
- Nothing the AI returns is saved without a person confirming it.

SETUP

Setup, access and roadmap

Access and roles

- Separate permissions for depot operations, stores, purchasing and billing.
- Shipping lines use a separate sign-in and can never see another line's boxes.
- Depot details hold the name, address and bank details that print on receipts and bills, plus the mail server and AI settings.

Technology

- Web application: runs in any current browser, on a PC, tablet or phone.
- Laravel API with an Angular front end; MySQL database.
- Scheduled jobs for monthly billing and the morning alerts.
- Hosted on its own address, with its own database.

Getting started

- Load the depot's masters: depots with capacity, shipping lines, spares, vendors, tariffs.
- Import the boxes in the yard today from a spreadsheet.
- Set the mail server and switch on the alerts.
- Create the lines' portal sign-ins.

On the roadmap

- A visual yard map.
- Official IICL / ISO 9897 damage tables loaded as the code lists.
- CODECO layouts agreed with each line.

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Book a demo: mahadhi.com/products/modity
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