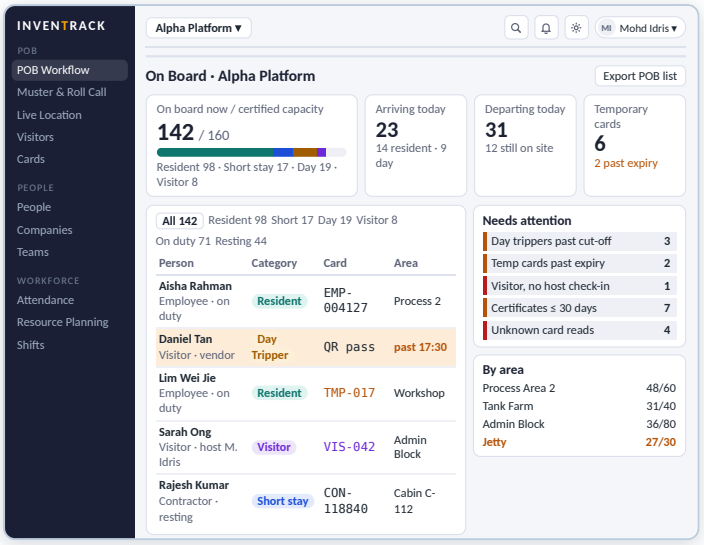
Inventrack POB

Personnel on Board for offshore installations and onshore sites. Requests, clearance, arrivals, beds, transport, departures and muster run on one platform, and every person carries three labels: who they are, why they are on site, and which card they are using.

Offshore · platforms · rigs · FPSOs · flotels · offshore wind

Onshore · plants · terminals · remote camps



PERSONNEL › ON BOARD

How many on board, against what limit, and who needs attention

The landing page for site managers. The capacity bar is split by category, so a site filling up with day trippers looks different from one filling up with residents.

- Live count against certified maximum POB per site
- Filter by category, card, on duty or resting
- Flags day trippers past cut-off, overdue cards and unknown card reads
- Headcount by area against each area's capacity

HOW THE WORK FLOWS

Four areas, each with its workflow in the order it happens

Personnel — Requests → Approvals → Clearance → Arrivals → **On Board** → Departures → Exceptions

Accommodation — Bookings → Allocation → Tonight → Check-out → Housekeeping, with a generated floor plan view

Transport — Demand → Schedule → Manifests → Check-in → In transit → Arrived

Reports — Daily POB · Forecast POB · Manhours · Overstays · Certificates expiring · Cards and visitors · Bed nights · Transport KPIs · Roll call history

Muster — A red button on every page, solid red while a roll call is active. The muster list comes straight from who is on board.

Three labels on every person

Person type, POB category and card type are kept apart, so a forgotten badge never puts someone in the wrong headcount.

Rules, not just labels

Each category sets the bed, muster, gate checks, escort and departure rules, configurable per site.

Shifts, teams and doors built in

POB knows who is on duty, who leads each crew, and which doors each person can open today.

THE CORE IDEA

Three labels on every person, everywhere

An employee who forgot their badge is still a Resident; they are just using a temporary card today. A vendor can be a Day Tripper on Monday and stay overnight on Tuesday. Keeping the three facts apart keeps the headcount right.

1 · Who are they?

Person type

Employee · on the organisation's payroll

Contractor · access ends with the contract

Visitor · has a host and no login

2 · Why are they on site? (per stay)

POB category

Resident on rotation, bed and muster

Short stay fixed nights, temporary bed

Day Tripper same day, off by cut-off

Visitor escorted, named host

3 · How do they badge in?

Card type

Employee card · permanent photo card

Contractor card · expires with the contract

Temporary card · pool, ends at shift end

Visitor card · pool, handed back on exit

Mobile pass · app check-in and QR

Rules each category applies (set per site)

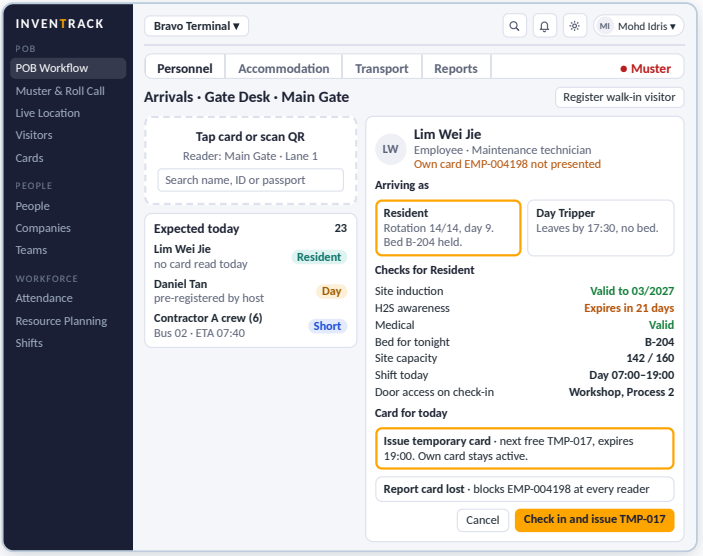
Rule	Resident	Short stay	Day Tripper	Visitor
Bed	Permanent or back-to-back	Temporary, checked before arrival	None	Only if overnight
Muster station	From their cabin	From their temporary bed	Default for the area	With their host
Gate checks	Full role matrix	Full role matrix	Site induction plus area	Visitor induction video
Escort	No	No	No	Required
Departure	Crew-change date	Last booked night	Same-day cut-off, then alert	Host signs them out
Past departure	Overstay against bed and POB limit	Overstay, extend booking	Convert to short stay or escort off	Host and security alerted

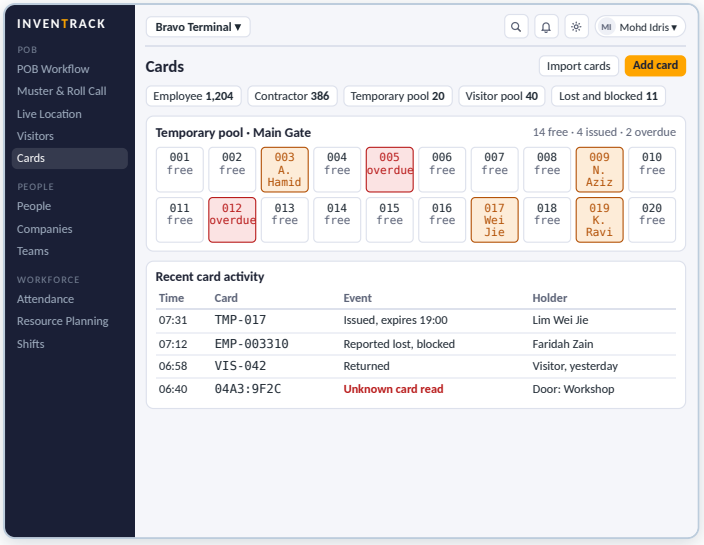
PERSONNEL › ARRIVALS

Gate desk: scan, check, issue a card

Security or the heliport desk scans any card or searches a name. The system works out the likely category from the person's bookings, runs the checks for that category and grants door access on check-in.

- Expected arrivals from rotations and bookings, including whole crews
- Checks change with the category: role matrix, induction or visitor video
- A forgotten badge becomes a temporary card, not an unknown user
- Report a lost card and it is blocked at every reader





CARDS

Every card is a record with a holder and an expiry

Employee, contractor, temporary and visitor cards each have their own lifecycle. Every read at a door resolves card to holder, so a temporary card is attributed to the right person in access logs, attendance and muster.

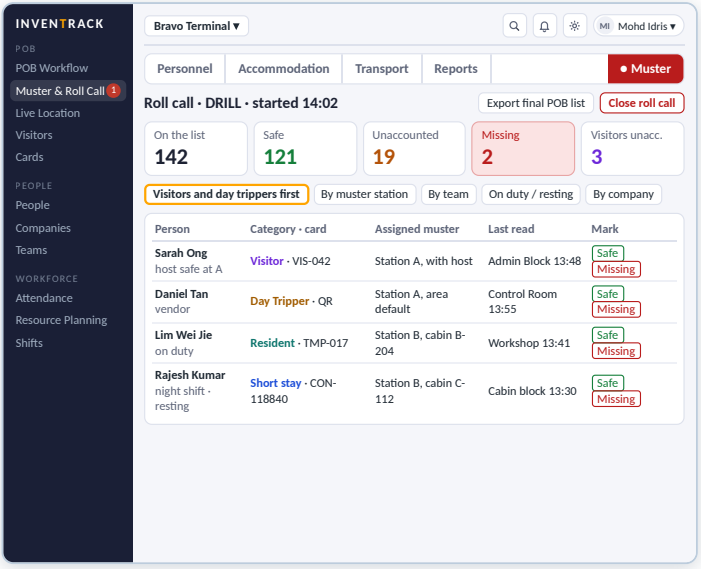
- Temporary and visitor pools shown as a board: free, issued, overdue, lost
- Mobile pass and QR for staff and pre-registered day trippers
- Unknown card reads flagged for follow-up

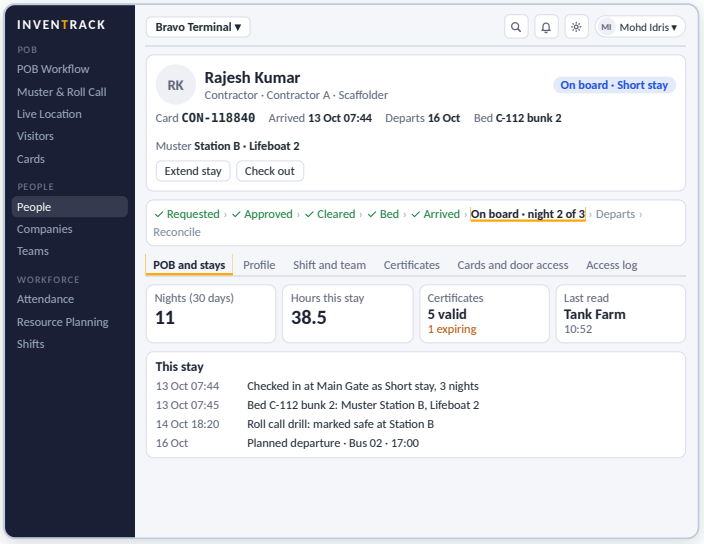
MUSTER AND ROLL CALL

The people most likely to be lost, at the top

Visitors and day trippers come straight from check-ins, and every entry carries its category and card. While a roll call is active, the Muster button turns solid red on every page.

- Muster-point readers mark people safe automatically
- Team leaders account for their own crew
- On-duty and resting split tells a night search where to look
- Last door, checkpoint or mobile read, with time



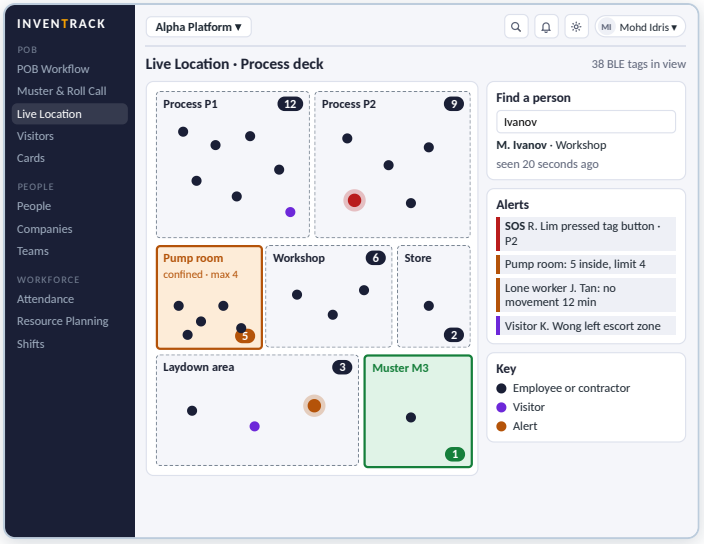


PERSON PROFILE AND PEOPLE

POB status first, for every person

Each profile leads with whether the person is on board, as what, with which card, and where they sleep and muster, followed by the full stay history.

- Progress through every stage, from request to reconcile
- Certificates, cards, door access and shift in tabs
- People list by type: employees, contractors and visitors
- A repeat visitor is one record with a visit history



LIVE LOCATION (BLE RTLS)

Every BLE tag on the map, live

BLE tags worn as badges or wristbands are picked up by gateways across decks, buildings and work areas, so the control room sees where people are, zone by zone, as it happens.

- Live headcount per zone, deck and building
- Geofences with limits for confined spaces and hazardous areas
- SOS, lone-worker and man-down alerts, where the tag supports them
- Last known location feeds muster and search

BUILT INTO POB

Scheduling, teams and door control in the same system

Scheduling

- Rotations such as 14/14 create expected arrivals and departures
- Everyone on board shown as on duty or resting
- Planned manning against certified capacity and free beds
- Approved leave frees the bed
- Alert when someone expected on board has not checked in
- Shift length and hours feed fatigue and overstay alerts

Teams

- Mobilise, book beds and check in a whole crew at once
- Team leaders account for their own crew at muster
- Teams kept in neighbouring cabins and one muster station
- Filter any step, report or muster list by team
- Location teams set default site, areas and door access

Door control

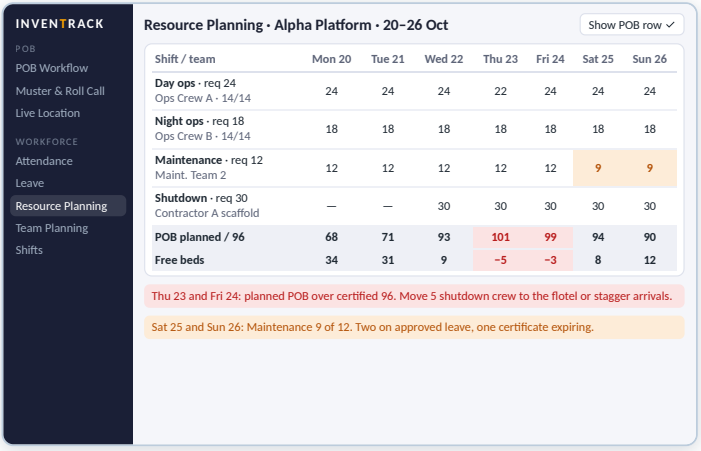
- Check-in grants door groups for the site, areas and category
- Check-out, card expiry or an expired certificate removes access
- Temporary and visitor cards work only while issued
- Door roles: gate in, gate out, area, muster point
- Gate reads update the On Board count without a desk
- Optional lockout when a site reaches certified POB

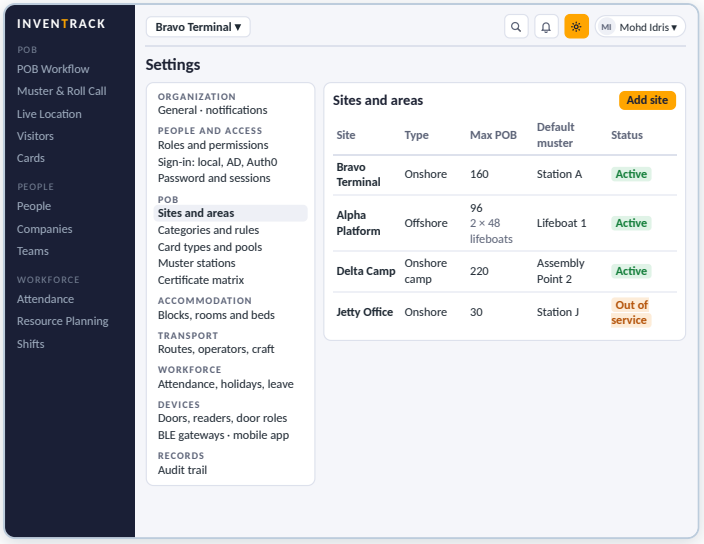
WORKFORCE › RESOURCE PLANNING

Manning and site capacity on one grid

Planned manning per shift sits above a POB row showing planned headcount against certified capacity, and free beds, for every day.

- Days over capacity or short of beds turn red
- Shifts short of required headcount are flagged
- Leave and expiring certificates explain the gaps





SETTINGS AND ADMINISTRATION

All configuration behind one gear icon

Administrators set up sites, categories, cards, muster stations and devices in one grouped Settings area, so the main navigation holds only day-to-day work.

- Sites and areas with type, certified max POB and default muster
- Category rules, card types and pools set per site
- Roles, sign-in (local, Active Directory, Auth0) and sessions
- Doors, readers, door roles and a full audit trail
- Profile menu with two-factor sign-in and organisation switching

SPECIFICATIONS

Platform

Platform	Inventrack 6.0, web-based (.NET 8)	**Readers**	MQTT door controllers and BLE gateways
Database	Microsoft SQL Server 2022	**Location**	BLE RTLS, zone or room level
Server OS	Windows Server 2022; Ubuntu 24.04 LTS	**Sign-in**	Local, Active Directory, Auth0; two-factor
Deployment	Inventrack Cloud, on-premise or hybrid	**Integration**	REST API, webhooks, CSV/SFTP
Offline	Local site server, store-and-forward sync	**Security**	Encrypted in transit and at rest
Cards	Employee, contractor, temporary, visitor; QR pass	**Privacy**	Built for PDPA, UAE PDPL and GDPR

Integrates with HR and ERP · LMS and training providers · helicopter operators · AIS vessel feed · travel agency · permit-to-work · fire and gas · catering · Power BI

HARDWARE REQUIREMENTS

What goes on site

Component	Where	Requirement
Personnel cards	Employees and contractors	Photo card with UHF RFID or BLE tag, one active per person
Card pools	Each gate desk	Numbered temporary and visitor cards
Door controllers	Site gates, area doors, muster points	MQTT controllers; role gate in, gate out, area or muster
BLE gateways	Decks, buildings, work areas	PoE or Wi-Fi, MQTT; density sets zone or room accuracy
Gate desk	Main gate, heliport, jetty	PC or tablet, card reader, QR scanner, badge printer
Rugged handhelds	Remote muster, lifeboats, buses	Android, RFID and barcode, offline app
Scales	Heliport check-in	Passenger and baggage scales with data output
Wall displays	Control room, muster points	Full HD screen with browser, on UPS
Local site server	Each installation or remote camp	Windows Server 2022 VM on Hyper-V, SQL Server 2022, UPS
Network	On site and to shore	LAN and Wi-Fi on site; VSAT, 4G/5G or fibre to shore

Quantities are sized per site in the proposal. ATEX/IECEx-rated readers and handhelds are used in classified zones.