

MarineStock v5.3 User Manual

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MarineStock v5.3 — User Manual

Maritime Fleet Inventory Management System

Complete Reference Guide

Version: 5.3.0 **Release date:** April 2026 **Prepared for:** MV Armada 8606 and fleet

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1. Welcome

What is MarineStock?

MarineStock is a maritime inventory management system designed for vessels. It replaces paper stock books and spreadsheet-based tracking with a reliable, multi-device synchronized database that works online and offline.

The app is built for the real conditions aboard commercial vessels — unreliable satellite connectivity, crew with varying technical skills, port inspections requiring specific documentation formats, and the need to track hundreds of consumables across multiple storerooms with different people handling different sections.

Who uses it

Engineers use it to track lube oils, chemicals, greases, and engine room consumables. Log every transaction (usage, receipt from port) so monthly reports are generated automatically instead of manually compiled.

Deck officers use it to declare ship's stores to port authorities (IMO FAL Form 3), generate ROB (Remaining On Board) reports, and prepare for flag state and port state inspections.

Chief Mate and Master use it for oversight — seeing what's low, what's expiring, where everything is located across the vessel.

Super Admin (vessel operator or fleet manager) uses the admin app to onboard new vessels, manage device activations, reply to crew chat, and generate access codes.

Core concepts

Vessel. One ship is one database. MV Armada 8606 has its own completely separate inventory from any other vessel in the fleet. Crew on 8606 cannot see 8602's data and vice versa.

Items. Everything you track is an "item" — a product, a chemical, a spare, a tool. Each item has a name, section (Lube Oil, Chemicals, Paint, etc.), and at least one location with a quantity.

Locations. Where the physical item lives on the ship. Engine Room, Workshop, Paint Store, Chemical Store. In v5.3, a single item can live in multiple locations with different quantities — a 200 L drum of coolant might have 80 L in the ER and 120 L in the Workshop.

Transactions. Every change to stock is logged. When crew takes 10 L of coolant, it's a "deduct" transaction. When the ship receives a new drum, it's an "add" transaction. Moving stock between locations is a "move." History is permanent.

Sections. Categories you group items into — Lube Oil, Chemicals, Paint, Office, Galley, PPE, Medicine, Deck. Custom sections can be added.

Devices. Each phone or tablet that uses MarineStock is its own activated device. A vessel typically has 3-5 devices (one per department or officer).

What's new in v5.3

This manual covers v5.3, a significant update from v5.2. Major new features:

- **Multi-location stock tracking** — one item can now be split across multiple storage locations with independent quantities
- **List and Dense view modes** — toggle between card view, list view, and dense list view for different use cases
- **Item Detail modal** — tap any item to see its complete details, with action buttons embedded for quick operations
- **FAL Form 3 PDF declaration** — a properly formatted IMO declaration with item picker (by section, individual, or custom free-text items)
- **Bulk Update and Bulk Actions** — modify or move many items at once

- **Move Stock between locations** — proper audit-tracked transfers with remarks
- **Label Generator** — print labels for single items or bulk, with Dymo and A4 format support
- **Quantity of copies** — print multiple copies of the same label in one job
- **Auto-hide action buttons** — floating buttons get out of the way while reading inventory

How to read this manual

- **Sections 2-9** cover daily-use features. Most crew should read these.
- **Section 10** is for Super Admin only. Ignore if you are not the fleet manager.
- **Section 11** is a troubleshooting reference. Jump here when something isn't working.
- **Appendix A** is for prospective customers considering MarineStock. Skip if you already use it.

[SCREENSHOT: MarineStock inventory home screen showing vessel name, section tiles, and recent transactions]

2. Setup & Activation

Getting the app

MarineStock is a Progressive Web App (PWA). There is no app store download. Access it through a web browser at:

- **Primary URL:** marinestock.app

Supported browsers: Chrome, Safari, Edge, Firefox. Chrome on Android and Safari on iOS are the most tested. For tablets, landscape orientation is recommended but portrait works.

Installing as an app (recommended): - **iOS (Safari):** tap the Share button → “Add to Home Screen” - **Android (Chrome):** tap the three-dot menu → “Install app” or “Add to Home screen” - **Desktop (Chrome/Edge):** look for the install icon in the address bar

When installed as a PWA, MarineStock behaves like a native app — it opens without a browser address bar, works offline (once activated), and has its own icon on the home screen.

First-time activation

When crew opens MarineStock for the first time, the app shows a locked screen asking for an **access code**. This is intentional. MarineStock is not a public signup service — each device must be explicitly authorized by the Super Admin before it can access vessel data.

[SCREENSHOT: Device activation screen showing “Enter your 6-digit access code” field]

The activation flow

1. **Crew opens the app on their device.** They see an activation screen.
2. **Crew contacts Super Admin** (Maynard by default) to request a code.
3. **Super Admin generates a one-time code** from the admin panel (see Section 10).
4. **Crew enters the code** on the activation screen.
5. **Crew sets a device name** — e.g. “ER Tablet”, “2nd Engineer Phone”, “Bridge iPad”.
6. **Crew generates a 4-digit PIN.** This is the recovery PIN, used if the device is revoked and needs to be reactivated. Write it down somewhere safe.
7. **Activation complete.** The device is now linked to the vessel and can access inventory.

Important: Access codes are **one-time use**. After activation, the code is spent. Super Admin must generate a new one for each new device.

Why this is secure

- No public signup — you can’t activate a device without an explicit code from Super Admin
- Super Admin can revoke any device at any time from the admin panel
- Revoked devices lose access immediately on next connection
- The access code is different from the recovery PIN (access code activates a new device, recovery PIN recovers a revoked one)

Your device’s name

When you activated, you gave your device a name. This name appears in:

- **Transaction history** — every transaction records which device made the change
- **Chat messages** — other crew see your device name as the sender
- **Reports** — the “Prepared By” field on PDFs defaults to the device name, though you can override it in Settings

Choose a name that tells the rest of the crew who you are. “2/E iPhone” is better than “iPhone” because when the Chief Mate sees a deduct transaction from “iPhone” vs “2/E iPhone”, the second is immediately recognizable.

Offline first-use

After activation, MarineStock **caches** the app’s code and the vessel’s inventory data on your device. This means after your first successful online use, you can open the app offline and still see your inventory, edit quantities, and log transactions.

Transactions made offline are **queued** on the device and sync to the cloud automatically when connectivity returns. You don’t need to do anything — when the device sees the internet again, it uploads pending changes.

What works offline vs online

Feature	Offline	Online
View inventory	✓	✓
Edit item qty	✓	✓
Log transactions	✓	✓
Add new items	✗	✓
Attach photos / MSDS	✗	✓
Use chat	✗	✓
Generate reports	✓ (PDFs)	✓

When offline, you see a yellow “OFFLINE” indicator in the header. When back online, the indicator changes to green “SYNCED” briefly after pending transactions upload.

[SCREENSHOT: Header showing OFFLINE and SYNCED states side by side]

3. Main Inventory Workflows

This section covers the daily-use workflows most crew will use constantly.

3.1 Viewing inventory

The inventory home page is where you spend most of your time. It shows:

- **Summary cards** at the top — Total Items, Low Stock count, Small Oils (total liters across all lube oils), Month Transactions
- **Section overview tiles** — Lube Oil, Chemicals, Paint, etc., each showing item count
- **Low Stock Alerts** banner — items currently below their minimum threshold
- **Recent Transactions** list — last several transactions across all items

Scroll down to see all items in the current section (or all sections if “All” is selected).

Three view modes — Card, List, Dense

Version 5.3 introduces a view mode toggle in the inventory toolbar. You can switch between three modes depending on what you need:

Card view (default) — Large cards with photos, full details, action buttons visible on each card. Best for detailed browsing and when you need to act on items directly from the list.

[SCREENSHOT: Card view showing 3-4 items with photos, section badges, qty, and action buttons]

List view — Compact rows showing item name, section, location, and quantity. More items per screen. Best for scanning through many items quickly.

[SCREENSHOT: List view with 10+ items visible]

Dense view — Even more compact. Small rows, minimum information. Best for finding a specific item by name when you know what you’re looking for.

[SCREENSHOT: Dense view with 15+ items visible]

How to switch: Tap the view toggle icon in the toolbar at the top of the inventory. The app remembers your preference per device, so each crew member can use their preferred view.

Column picker (List and Dense view)

In List or Dense view, you can choose which columns to show. Tap the column picker icon to toggle visibility of:

- Location (on by default)
- Part Number (on by default)
- Supplier
- Section
- Category

Keep only what you use. Fewer columns = more room for item names on small screens.

The **:** button (v5.3 new)

In List and Dense view, each row has a **three-dot button on the far right**. Tap it to open the More Menu with options:

- View History
- Duplicate Item
- Print Label

- View MSDS (if available)
- Ask AI About This (if AI is enabled)
- Delete Item

In Card view, the same menu is available via the ⋮ button on each card.

Tap anywhere ELSE on the row to open the Item Detail modal (not the More Menu).

3.2 Item Detail modal

v5.3 introduces a unified Item Detail view. Tap any item (card, list row, or dense row) and a modal opens showing everything about that item:

- Photo (if uploaded)
- Item name, section badge, part number, category
- Quantity breakdown — if multi-location, each location shown separately
- Min stock threshold with low-stock warning if applicable
- Expiry date (if set) with expiring/expired badge
- Supplier, category, remarks
- MSDS link (if attached)
- Created/updated timestamps

At the bottom, four action buttons:

- **ADD** — log an add transaction
- **USE** — log a deduct transaction
- **Edit** — open the full edit form
- **Label** — print label for this item
- **History** — view transaction history for this item
- **Move** — move stock between locations (multi-location items only)

The Item Detail modal is the central hub for everything you do with a specific item.

[SCREENSHOT: Item Detail modal showing multi-location breakdown, expiry badge, and action buttons]

3.3 Adding a new item

Requires internet connection. Offline devices cannot create new items.

1. On the inventory home, tap the blue + floating button at the bottom right
2. The Add Item form opens
3. Fill in:
 - **Name** (required) — e.g. “Castrol Alphasyn PG 220”
 - **Section** (required) — pick from Lube Oil, Chemicals, etc.
 - **Part Number** — optional, useful for supplier ordering
 - **Supplier** — optional, but useful for re-ordering
 - **Category** — optional sub-grouping within a section
 - **Unit** (required) — L, kg, pcs, cans, drums, etc.
 - **Min Stock** — threshold for low-stock warnings
 - **Expiry Date** — optional, triggers expiring/expired alerts
 - **Remarks** — free text
4. Under **Stock Locations**, add at least one location with a quantity
5. Optionally attach a photo or MSDS PDF
6. Tap **Save**

The item is now in the inventory. A creation transaction is automatically logged.

AI Auto-Fill (experimental)

If enabled by Super Admin, the Add Item form has an AI Auto-Fill option. Take a photo of a product label and the AI attempts to extract:

- Item name
- Part number / product code
- Supplier / manufacturer
- Unit

This speeds up adding items from physical labels. Results are approximate — review before saving.

[SCREENSHOT: AI Auto-Fill button in Add Item form]

3.4 Multi-location stock (v5.3 new)

Before v5.3, one item had one location. If you had 200 L of coolant split between the ER and the Workshop, you had to either pick one location (inaccurate) or create two items with the same name (confusing).

v5.3 fixes this. One item, multiple locations, independent quantities.

How to add multiple locations to an item

When creating a new item: 1. In the Add Item form, the Stock Locations section starts with one row 2. Tap **+ Add Location** to add more rows 3. Each row: Location name, Sublocation (optional), Quantity 4. Example: - Location 1: "ER", Sublocation "LO Pump Room", Qty "80" - Location 2: "Workshop", Sublocation "", Qty "120"

For an existing item: 1. Open the item (tap to open Item Detail) 2. Tap **Edit** 3. In the Stock Locations section, tap **+ Add Location** 4. Fill in the new location and qty 5. Save

How multi-location displays in the app

- **Card view:** items with multiple locations show a "N locations" badge
- **Item Detail modal:** each location is listed with its individual quantity
- **Transactions:** when logging a transaction on a multi-location item, a dropdown appears asking which location the stock comes from or goes to

Low stock on multi-location items

Min Stock is compared against the **total** across all locations, not per-location. An item with 10 L in ER and 5 L in Workshop has total 15 L. If min stock is 20 L, the item triggers low-stock warning.

Individual locations can be zero without triggering a warning, as long as the total is above min.

3.5 Logging transactions (ADD and USE)

A transaction is any change to stock. MarineStock tracks every change so monthly reports are automatic.

Quick transactions from Card view

In Card view, each item card has **+** and **-** quick-tap buttons. These open a simple transaction modal:

- **Quantity** (required)
- **Remarks** (optional, but strongly recommended)
- **Crew name / rank** (for the log)
- **Date** (defaults to today)

Tap Save. The transaction is logged, item qty updated, history permanent.

[SCREENSHOT: Quick transaction modal for a card]

Transactions from Item Detail

Open an item, tap **ADD** or **USE** in the action row. Same transaction form.

Which location (multi-location items)

If the item has multiple locations, the transaction modal adds a **Location picker** dropdown. Pick which location the stock is being added to (for ADD) or taken from (for USE).

What gets logged

Every transaction records: - Item ID and name - Transaction type (add, deduct, move, discard, create) - Quantity delta - Before and after quantities - Location (if multi-location) - Remarks - Crew name and rank (optional) - Device that made the change - Timestamp

You cannot edit or delete transactions. History is permanent. If you made a mistake, log a correcting transaction.

3.6 Moving stock between locations (v5.3 new)

If you move 10 L of coolant from the Workshop to the ER, that's a **move** transaction. Different from deducting from Workshop and adding to ER as two separate transactions.

How to move stock

1. Open the item (Item Detail modal)
2. Tap **Move** (only visible if item has 2+ locations)
3. Select **From** location — the source
4. Select **To** location — the destination
5. Enter quantity
6. Add remarks (required) — describe why you're moving
7. Review the preview showing before/after quantities for both locations
8. Tap Save

The transaction log records this as a **move** type with a teal ↔ icon, showing both from and to locations. The overall item qty doesn't change (same total), just the distribution.

Auto-cleanup

If you move all stock out of a location (making it 0), and the item has other locations with stock, the emptied location is automatically removed. If you want to keep the empty location as a placeholder for future stock, leave some quantity there.

[SCREENSHOT: Move Stock modal showing from/to picker and preview]

3.7 Discarding stock

Sometimes stock is discarded — expired, damaged, spilled, emptied for maintenance. This is different from “using” stock because the quantity is gone but not consumed productively.

v5.3 has a discard option in the edit form. When editing an item and changing qty at a location to zero (or less than before with “discard” reason), a discard transaction is created. Discard shows as grey 🗑️ in the transaction log.

Use discard (not deduct) when: - Expired oil dumped - Damaged chemical discarded - Emptied cylinder for recharge - Stock lost or written off

This keeps your “USE” transactions reflecting actual productive consumption for reporting accuracy.

3.8 Editing an item

Two ways to reach the edit form:

- From Card view: tap the pencil/edit icon on the card
- From Item Detail: tap **Edit** button
- From More Menu: not directly — use one of the above

The edit form is the same layout as Add Item, pre-filled with current values. You can change:

- Name, section, part number, supplier, category, unit
- Min stock
- Expiry date
- Remarks
- Stock locations — add, remove, or modify quantities
- Photo, MSDS

Changing quantity fields in the edit form is treated as a **qty change** or a **move**, depending on what you changed:

- Changed qty in one location: logged as add or deduct
- Changed location names on existing stock (no qty change): logged as move
- Both: v5.3 detects this and logs moves per location accurately

A confirmation modal appears before save, showing what will be logged and asking you to confirm. This prevents accidental edits from creating misleading transaction records.

3.9 Duplicating an item

Creating similar items is common — “Paint Primer Grey 5L” and “Paint Primer White 5L” share most fields.

1. Open the source item’s More Menu (⋮ or long-press)
2. Tap **Duplicate Item**
3. A new Add Item form opens, pre-filled with the source item’s values
4. The name shows “Copy of [original]” — change it
5. Quantities in all locations start at 0 (deliberate — duplicating item structure, not stock)
6. Adjust other fields as needed
7. Save

The duplicated item is a new item. Source item is unchanged.

3.10 Deleting an item

Items can be deleted only by devices with Super Admin privileges or by authenticated crew with the device Delete PIN.

1. Open More Menu
2. Tap **Delete Item**
3. Confirmation modal asks for the 4-digit Delete PIN (set in Settings)
4. Enter PIN
5. Confirm deletion

Deletion is **permanent**. All transaction history for that item is also deleted. Be certain before confirming.

If a crew member doesn’t know the PIN, they cannot delete. This prevents accidental deletions.

4. Search, Filter & Sort

The inventory home has powerful search and filter tools. Use them instead of scrolling through 300+ items.

4.1 Search

The search bar at the top of the inventory page searches by:

- Item name (primary)
- Supplier
- Part number
- Location

Type a few characters. The list filters live as you type. Results are case-insensitive.

Search tips: - Search “castrol” to find all Castrol products - Search “ER” to find all items located in the Engine Room - Search “expiry” is not supported — use the Expiry Alerts section instead

4.2 Section filters

The Section Overview tiles act as filters. Tap “Chemicals” to show only items in the Chemicals section. Tap “All” (or re-tap the active tile) to show everything again.

4.3 Low Stock and Expiry alerts

Two special sections appear when relevant:

Low Stock Alerts — items where total qty < min stock threshold. Shows the section, name, and quantity. Tap an item to open it.

Expiry Alerts — items with expiry date within the warning window (default: 3 months). Expired items show red; expiring items show orange.

Tap an alert to jump to the item. Or use them as a to-do list: “resolve all low stock before next port.”

4.4 By Location view

Sometimes you need to see “everything in the Workshop” regardless of section.

From the sidebar menu: **Records → By Location**

This view groups items by their primary location and shows a list. Multi-location items appear once under their first location (not duplicated).

Useful for: - Physical inventory audits by storeroom - Planning storeroom reorganization - Checking what’s in a specific area

4.5 Custom sections

Beyond the built-in sections (Lube, Chemicals, Paint, Office, Galley, PPE, Medicine, Deck), you can add custom sections.

From sidebar: scroll to “Inventory Sections” and tap **+ Add Section** (if enabled). Give it a name, icon, and color.

Custom sections appear in the section picker when creating items and in the sidebar navigation. Use them for vessel-specific needs like Power, Refrigerant, Consumables, Payload — sections not covered by the built-in categories.

5. Reports & Exports

MarineStock generates multiple report formats for different audiences.

Access reports from the sidebar menu: **Records** → **Generate Report**, or from the ☰ sidebar → “Exports”.

[SCREENSHOT: Export modal with format dropdown showing all options]

5.1 Simple PDF report

A straightforward inventory list in PDF format. Pick which sections to include.

Use for: general reference, keeping a printed copy in the office, emailing to the fleet manager.

Contains: item name, section, location, quantity, unit, min stock, part number.

5.2 Monthly PDF report

Detailed report showing the month’s transactions by section, grouped with opening balance, receipts, consumption, and closing balance.

Use for: end-of-month engine logs, monthly reports to company, flag state requirements.

Contains: - Opening balance at start of month - All add transactions (receipts) - All deduct transactions (consumption) - Discards and moves - Closing balance - Per-section subtotals

Pick: sections to include, month to report on.

5.3 ROB Report (Remaining On Board)

Shortened report listing current quantities. Used for bunker port calls and arrivals/departures to declare what the vessel has aboard.

PDF export — clean formatted document for port authorities.

Excel export — same data as spreadsheet if the recipient prefers.

Multi-location items show a parent row with a “N LOCATIONS” badge, plus indented sub-rows per location showing individual quantities. Total qty is at the parent level.

Low-stock items are highlighted with a warning color for easy spotting.

5.4 FAL Form 3 declaration (IMO Ship’s Stores)

The big one — every port call requires a FAL Form 3 declaration of ship’s stores. MarineStock generates this in the proper IMO format as a PDF.

v5.3 introduced a **three-tab item picker** that replaces the old section-only picker.

Opening the FAL3 flow

From the sidebar or export modal, pick “PDF — FAL Form 3 Declaration (Ship’s Stores)”.

A modal opens with three tabs:

Tab 1 — By Section Whole sections. Check Lube Oil, and all 13 items in that section are included.

Tab 2 — Individual Items Pick specific items regardless of section. Searchable, filterable by section and category. Useful when you want, say, all dangerous chemicals across all sections (not the whole Chemicals section).

Tab 3 — Custom Items (v5.3 new) Items NOT in MarineStock’s inventory — fuel oils (HFO, MGO), fresh water, gas cylinders, sludge, provisions. Type name, qty, unit, location directly. Will appear in the PDF under “Additional Stores”.



Combining sources

All three tabs contribute to the same PDF. The running total at the bottom shows “46 items total (40 from sections + 5 individual + 1 custom).”

Items picked via Section AND Individual tabs are deduplicated — no double-listing.

Saving a default selection

If you always declare the same items (your vessel’s standard declaration), save the selection as your device’s default.

- In the Individual Items tab, tap  **Save current as default** after configuring your selections
- Next time you open the FAL3 picker, tap  **Load my default** to restore
- One saved default per device per vessel. If an item in your saved default has been deleted from inventory, it’s silently skipped on load.

The form screen

After picking items, the **FAL3 Form** appears to fill in the declaration-level fields:

- Arrival / Departure (checkbox)
- Vessel IMO number
- Call sign
- Voyage number
- Port of arrival/departure
- Date
- Flag State
- Last/Next port of call
- Persons on board
- Period of stay
- Officer name (prepopulated from device settings)
- Rank (defaults to “Master” in v5.3 — the FAL3 is declared by the Master)

Long-lived fields (IMO, Call Sign, Flag, Officer Name, Rank) are saved on your device for next time. Per-voyage fields (Port, Date, Voyage No., Persons, Period) are blank each time — they always change.

The PDF output

A properly formatted IMO FAL Form 3 declaration with:

- Title block with Arrival/Departure checkboxes
- 5 rows of ship info (IMO, Call Sign, Port, Flag, etc.)
- 4-column table (Name, Quantity, Location, Official Use)
- Sections grouped by heading
- Page numbers
- Signature block on the last page

Continuation pages (page 2+) show a compact header with the vessel name inline and “Page N of M”, so even if pages get separated after printing, each identifies its ship.

[SCREENSHOT: FAL Form 3 PDF output, page 1]

5.5 Excel export (Eco-Online format)

For integration with Eco-Online or similar chemical management systems.

- First sheet: items with SPS / MSDS attached
- Second sheet: items without SPS (Safety Product Sheet)
- Additional sheets per selected section

Used for fleet-wide chemical consolidation reporting.

5.6 Transaction log (export)

From the Transaction page, you can export the transaction log as PDF or Excel. Filter by date range, item, or section first.

Use for: audit trails, monthly reports, resolving disputes about who did what when.

6. Labels & QR Codes

MarineStock generates printable labels for physical items. Stick them on drums, bottles, boxes — especially useful when labels are fading or non-existent.

6.1 Printing a label for one item

From any view (card, list, dense, or item detail):

1. Open More Menu → **Print Label**
2. Or: Open Item Detail → tap **Label** button

The Print Label modal opens.

[SCREENSHOT: Single-item Print Label modal showing size picker, content checkboxes, copies field, and preview]

Options

Label Size: - **36 × 89 mm** — Dymo 30336 / compatible. Medium size, room for moderate content. - **28 × 89 mm** — Smaller Dymo tape. Less content fits.

Include on Label: - Item Name (always included) - Location - Sublocation - Quantity - Unit - Min Stock - Part Number - Supplier - Section - Expiry Date - Remarks - QR Code

Check what you want. A preview updates live.

Copies (v5.3 new): Number of copies to print, 1-50. Useful when: - You want multiple labels for the same item (e.g. one on the drum, one on the shelf, one on the storeroom door) - Label printer runs out mid-batch and you need to redo a specific label - Multi-unit items (e.g. 10 cans of paint, each gets its own label)

Tap **Print Label**. The browser's print dialog opens. Select your Dymo printer (or save as PDF).

6.2 Bulk Label Generator (v5.3 new)

When you need labels for many items at once — after a delivery, re-labeling a storeroom, setting up a new vessel.

Access from the ☰ sidebar menu → **Tools** → **Label Generator**.

[SCREENSHOT: Bulk Label Generator modal — item picker tab]

Step 1 — Select items

Two tabs:

- **By Section** — pick whole sections, all items in them print
- **Individual Items** — search/filter and pick specific items

Running total shows how many items are selected.

Step 2 — Layout and content

Tap **Next** → **Layout & Print**. A second modal shows layout options.

Label Format: - **Dymo 36 × 89 mm** — single-roll label printer, one label per page - **Dymo 28 × 89 mm** — smaller Dymo tape - **A4 Sheet (21 per page)** — Avery L7160 / 38.1 × 63.5 mm. For regular laser/inkjet printers with adhesive label sheets.

Include on Each Label: - Same checkboxes as single-label (minus Item Name which is always on) - Set once, applies to all labels in this batch

Copies per Item (v5.3 new): Number of copies of each picked item (1-50). If you pick 23 items with 2 copies, you get 46 labels. The summary shows “46 labels ready to print (23 items × 2 copies).”

Step 3 — Print

Tap **Print**. Browser print dialog opens. Choose printer.

Which format to use when

- **Dymo printer with tape** → 36×89 or 28×89 depending on tape size
- **Regular office printer + label sheets** → A4 Sheet (Avery L7160 sheets)
- **Quick test / no label printer** → any format, save as PDF, print later

6.3 QR codes on labels

When a label includes a QR code, the code encodes `MS: {vesselId} : {itemId}` . When scanned with the MarineStock QR scanner (on any activated device for the same vessel), the app jumps directly to that item's detail page.

Scanning a label:

1. On the inventory page, tap the **camera (QR)** floating button
2. Camera opens
3. Point at the QR code
4. App opens the matching item

Useful for: - Quickly checking an item without searching - Verifying an item is still the same one the label says (comparing physical with database) - Teaching new crew where items are — scan → see details

6.4 Label printing gotchas

Label size matches paper: If your label is 36×89mm but your printer is set to A4, you'll get one tiny label on a giant page. Make sure the browser print dialog's paper size matches your label stock.

Long item names can truncate on small labels. The QR code takes up 28mm of the 89mm width on Dymo labels, leaving about 60mm for text. If item names are very long, disable QR to free up space.

Previewing before a big batch: print one label first. Make sure alignment is right before wasting a roll.

7. Chat & Communication

MarineStock has built-in chat between crew devices and Super Admin. It's not a replacement for ship's WhatsApp but it keeps inventory-related communication in context.

7.1 Where chat lives

- Sidebar → **Chat**
- Messages tab on the home page shows recent chat activity

7.2 Who can chat with whom

Crew device ↔ Super Admin: crew can send messages to the Super Admin (Maynard / fleet manager). Super Admin sees them in the admin panel's Chat tab per vessel and can reply.

Crew ↔ Crew: each crew device can message other devices on the same vessel. Use for "hey, where did you put the new coolant?"

7.3 Features

- Text messages
- Attach a photo (online only)
- Reply threads
- Unread badges
- Messages persist — scroll back to see history

7.4 When to use chat vs. other channels

Use MarineStock chat when the context is inventory-related: "Are we out of Enviroclean?", "The 5L drum of paint in Workshop — what's the product code?", "Adding new medicine to the inventory, what section should it go in?"

For general ship comms, use whatever else you already use (WhatsApp, ship email, radio). MarineStock chat is focused.

8. Settings

The Settings page has per-device and vessel-wide preferences. Access from the ☰ sidebar → Settings.

[SCREENSHOT: Settings page showing sections]

8.1 Vessel Information (shared)

Vessel Name — appears on all reports and in the header. Set once during vessel onboarding; rarely changes.

8.2 This Device (per-device)

Device Name — what other crew see. Change if you transfer this device to another role.

Prepared By — name that appears on PDF exports as the signer/preparer. Defaults to device name; override if different.

8.3 Display preferences

Theme: Dark / Light / Auto Night Mode. Auto Night Mode switches to dark after sunset based on device clock.

Expiry warning window: number of months before expiry to flag items as “expiring”. Default 3.

8.4 Snapshots

A snapshot is a point-in-time capture of the entire inventory. Useful for:

- Month-end reconciliation
- Before a major port call
- Historical records for audit

Save Snapshot — pick sections to include, give a label. The snapshot is stored in the History.

View History — sidebar → Records → History. Lists all snapshots with dates, item counts, and diff against the previous snapshot (what changed).

Snapshots do not block the inventory — you can keep working while one is saved.

8.5 Announcements banner

Super Admin can push an announcement to all crew devices. It appears as a banner at the top of the inventory home until dismissed.

Use for: - “All devices must be activated by 2026-05-01” - “New Chemical Store added — see notes” - Safety alerts

8.6 Paint specs

A dedicated feature for the Paint section. Upload the paint system spec PDF (typically provided by the paint manufacturer) and reference it inline with your paint items. Useful for surveyors.

8.7 Data section

Download Template — pre-filled Excel spreadsheet of all your items, with a Qty column for you to update. Upload back (Excel Import) to apply changes in bulk.

Download Blank — empty Excel template for a new vessel.

8.8 Device management

Your Recovery PIN — the 4-digit code generated during activation. Used when your device is revoked and needs to be reactivated without waiting for a new access code from Super Admin.

Delete PIN — separate 4-digit PIN required to delete items. Set this to prevent accidental deletions. If you forget it, Super Admin can reset it from the admin panel.

8.9 AI settings

If AI features are enabled for your vessel:

- **AI Item Photo ID** — photograph product label → Claude extracts name, supplier, part number
- **AI Item Assistant** — ask questions about a specific item (e.g. “how long does this typically last on our vessel?”)
- **AI Inventory Insights** — ask about the whole inventory (e.g. “what should I reorder before next port?”)

AI features require an API key and cost per request. Enabled per vessel by Super Admin.

9. Bulk Actions

When you need to modify many items at once, use Bulk Actions instead of editing each item individually.

Access from the ☰ sidebar → **Bulk Actions**.

9.1 Update Multiple Items

Change quantities on many items at once. Useful after a port delivery updates many stocks, or for monthly inventory reconciliation.

[SCREENSHOT: Update Multiple Items modal showing item rows with qty inputs]

1. Pick items (by section or individually)
2. A list appears with each item's current qty and a new qty input
3. Type new qty values where they differ
4. Multi-location items show one row per location (so you can update per-location)
5. Add remarks (required — what was the delivery / adjustment reason)
6. Save — a transaction is logged for each changed item

Items with no qty change are skipped — no redundant transactions.

9.2 Move / Delete Items (Bulk)

Move many items to a new location, or bulk-delete.

Bulk Move: 1. Pick items 2. Enter new Location and optional Sublocation 3. Items are updated — their primary location changes 4. A move transaction is logged per item 5. Multi-location items are skipped with a warning (their stock is split — use per-item Move Stock for precise control)

Bulk Delete: 1. Pick items 2. Confirm with Delete PIN 3. Selected items are deleted permanently

Dangerous — use with care. Only Super Admin should typically do bulk delete.

9.3 Excel Import

Upload a filled-out Excel template to update many items at once.

1. Download Template (Settings → Data) — a spreadsheet pre-filled with all items
2. Update quantities, locations, remarks in the spreadsheet
3. Save and upload via Settings → Import
4. A preview shows what will change
5. Pick the update mode:
 - **Qty only** — only quantities are updated
 - **Qty + Location** — quantities and locations
 - **All fields** — everything in the spreadsheet
6. Confirm — transactions are logged for each change

Multi-location items are skipped for import safety (Excel can only represent single-location). Use Excel for single-location items; use the app for multi-location.

9.4 Reorder Sections

Drag and drop sections in the sidebar to match your mental model. The order is per-vessel.

10. Admin & Super Admin

Skip this section if you are not the Super Admin.

The Admin App is a separate interface from the crew Inventory app. It's where the fleet manager or vessel operator oversees all vessels, manages access, and handles support.

10.1 Accessing the admin app

- URL: `marinestock.app/admin/`
- Login: Google Sign-In with the configured Super Admin Google account (typically `maynardtimoteo19@gmail.com` for the Armada fleet)
- Only the Super Admin email can access — other Google accounts are rejected

10.2 Fleet overview

The landing page shows all vessels in the fleet. Each row shows:

- Vessel ID and name
- Active device count
- Recent activity indicator
- Unread chat badge (if crew has sent unanswered messages)

Tap a vessel to open its detail page.

10.3 Vessel detail — 6 tabs

Inventory — all items for that vessel. Read-mostly view for Super Admin oversight. Can delete items here if needed.

Transactions — full transaction log across all items. Filter by date, section, type, device.

History — snapshots of the vessel's inventory over time.

Devices — list of activated devices. Revoke any that should no longer have access (departed crew, lost phones).

Codes — access codes for new devices. Generate, cancel, or view used codes.

Chat — support chat with this vessel's crew. Unread badge shows when replies are needed.

10.4 Generating access codes

1. Open the vessel's detail page
2. Tap **Codes** tab
3. Tap **+ Generate Code**
4. A 6-digit code appears. Share it with the crew member who needs it.
5. The code is **one-time use** and expires after activation.

10.5 Revoking a device

1. Open the vessel's detail page
2. Tap **Devices** tab
3. Find the device to revoke
4. Tap **Revoke**
5. Confirm

The device loses access on next connection. The crew member can reactivate with a new code (or their Recovery PIN if it's a trusted reactivation).

10.6 Adding a new vessel

1. From the fleet overview, tap **+ Add Vessel**
2. Enter vessel ID (e.g. "8606") and name (e.g. "MV Armada 8606")
3. Confirm — the vessel is created with empty sections
4. Generate an access code for the first crew device
5. Crew activates, starts adding items (or imports from Excel template)

10.7 Announcements

Send an announcement that appears as a banner on all crew devices for the vessel.

1. Vessel detail → **Announce** tab
2. Type the message
3. Set expiry date (optional — otherwise persists until dismissed)
4. Publish

Announcements are useful for coordinating fleet-wide changes.

11. Troubleshooting & FAQ

11.1 Login and activation issues

“Invalid access code” error: - Code may have been used already (one-time only). Get a new one from Super Admin. - Check for typos — codes are case-sensitive - Confirm code hasn't expired (codes older than 30 days are invalid)

Super Admin Google Sign-In popup flashes and disappears: - Your browser is blocking popups — allow popups for marinestock.app - The domain is not in Firebase authorized domains — contact the developer - Third-party cookies may be blocked

Device activated but nothing appears: - Check you're online — initial sync needs internet - Close and reopen the app - Wait 10 seconds on the inventory screen for Firebase sync to complete

11.2 Sync and offline issues

Badge says “OFFLINE” but I'm online: - Firebase may take 5-10 seconds to establish connection on first load - Pull down to refresh - Restart the app (close tab, reopen)

Transactions aren't syncing: - Check for errors in the yellow sync indicator - Offline pending transactions sync automatically when back online — give it a few minutes - If still stuck, the Delete PIN + revoke + reactivate flow preserves the data in cloud but resets local state

Two devices show different item counts: - Usually a sync delay — wait 30 seconds and refresh both - If persistent, one device may be stale cache — hard refresh (close and reopen)

11.3 Labels and printing

Label prints blank or tiny: - Browser's print paper size doesn't match label size - In print dialog, set paper size to “Custom” matching your label dimensions - Disable “Fit to page” if it's on

QR code not scanning: - Label may be damaged or low-contrast - Print quality too low — use higher DPI setting - Ensure camera has good lighting when scanning

11.4 Data issues

Item appears twice: - Likely a sync conflict — most recent write wins, but occasionally duplicates occur - Delete the older one (check the “Updated” timestamp)

Transaction log is out of order: - Log sorts by timestamp. If devices have drifted clocks, order may look odd. - Check each device's clock against NTP time

Low Stock alert for item that isn't actually low: - Min Stock is 0 or unset — alerts disabled unless min is > 0 - Item has qty in another location you haven't noticed - Check Item Detail to see all locations

11.5 FAL3 and reports

FAL3 PDF is missing items I selected: - Items with qty 0 may be filtered — check export settings - Multi-location items show as one row with combined location text

Rank field shows “2/E” instead of “Master”: - Old saved preference. Override in the form and save again — new default is Master.

Page numbering says “Page 1 of 0”: - Layout simulation didn't complete — usually means no items in selection - Cancel and try again with sections/items selected

11.6 Commonly asked questions

Q: Can I undo a transaction? A: No — transactions are permanent. Log a correcting transaction (deduct what was wrongly added, or vice versa) with a remarks note explaining.

Q: Can two people edit the same item at the same time? A: Technically yes, but the last write wins. For shared editing, coordinate via chat. For bulk edits, use Bulk Update (one device at a time).

Q: How many items can MarineStock handle? A: Tested with 500+ items per vessel with no performance issues. 1000+ should work but scrolling may be slower on older devices.

Q: How much data does it use? A: Initial sync: ~1-5 MB. Daily use: <100 KB. Images and MSDS add to this — a 5 MB photo is a 5 MB upload.

Q: Can I use MarineStock on multiple vessels? A: One device is activated to one vessel. For a second vessel, use a separate device or reactivate with a code for the other vessel.

Q: What happens if I forget my Delete PIN? A: Super Admin can reset it from the admin panel (Vessel → Settings → Reset Delete PIN).

Q: Is my data backed up? A: Yes — Firestore (Google Cloud) automatically replicates data. Super Admin also takes periodic manual exports as additional backups.

Q: Can I export everything and use another system? A: Yes — Excel export gives you all current data. JSON backup (console-only in v5.3) gives a full structured dump.

12. Glossary

- Activation** — the process of linking a new device to a vessel using an access code.
- Access code** — a 6-digit one-time code generated by Super Admin to activate a new device.
- Admin app** — the separate interface at marinestock.app/admin/ used by Super Admin to oversee all vessels.
- Card view** — the default inventory display mode with large item cards.
- Category** — an optional sub-grouping within a section (e.g. Section “Chemicals”, Category “Cleaners”).
- Dense view** — compact inventory display mode for scanning many items quickly.
- Deduct** — a transaction type where stock is consumed or used.
- Discard** — a transaction type where stock is removed but not consumed (expired, damaged).
- Expiry window** — the number of months before an item’s expiry date to flag it as “expiring”.
- FAL Form 3** — IMO’s standard Ship’s Stores Declaration form used at port arrival/departure.
- Firebase / Firestore** — the cloud database backing MarineStock.
- List view** — inventory display mode showing items as compact rows.
- Low stock** — an item whose total quantity is below its minimum stock threshold.
- Min stock** — the minimum acceptable quantity of an item. Below this triggers a low-stock alert.
- More Menu** — the ⋮ or ⋮ menu on each item with extended actions (History, Duplicate, Label, Delete).
- Move (transaction)** — a transaction type where stock moves between locations within the same item.
- MSDS** — Material Safety Data Sheet, a PDF document describing chemical safety info.
- PIN (Delete)** — 4-digit code required to delete items from the inventory.
- PIN (Recovery)** — 4-digit code set at activation, used to reactivate a revoked device.
- PWA** — Progressive Web App. MarineStock runs in a web browser but behaves like a native app.
- QR code** — a scannable 2D barcode. MarineStock labels can include QR codes that deep-link to the item.
- Recovery PIN** — see PIN (Recovery).
- ROB** — Remaining On Board. A report showing current quantities of all items.
- Section** — the top-level category of an item (Lube Oil, Chemicals, Paint, etc.).
- Snapshot** — a point-in-time capture of all current quantities, saved to History.
- Stock Location** — a place where an item is stored. In v5.3, one item can have multiple stock locations.
- Sublocation** — an optional more-specific location within a primary location (e.g. Location: “ER”, Sublocation: “LO Pump Room”).
- Super Admin** — the top-level user who manages vessels, access codes, and oversight. One per fleet.
- Transaction** — any recorded change to stock (add, deduct, move, discard, create, update).
- Vessel ID** — short numeric identifier for a vessel (e.g. “8606”).
-

Appendix A — For Prospective Customers

This appendix is for vessel operators, fleet managers, and procurement staff evaluating MarineStock.

A.1 What problem does MarineStock solve?

Most small-to-mid maritime fleets track inventory using one of two methods, neither of which scales:

Method 1 — Excel spreadsheets. One file per vessel, emailed between ship and office. Version drift, data loss, no audit trail, no multi-device access. The Chief Engineer adds a transaction — the office's copy doesn't know. Monthly reports take hours of manual aggregation.

Method 2 — Enterprise PMS (SpecTec, AMOS, ShipNet). Full planned maintenance systems that include inventory modules. These cost \$20,000–\$80,000 per year per fleet, require training, and are overkill for operators with 3–20 vessels. They're designed for tanker majors and large cruise lines.

MarineStock targets the gap. A focused inventory tool that: - Costs far less than enterprise PMS - Requires no training beyond a short walkthrough - Works offline (essential for ships in poor coverage areas) - Generates proper port documentation (FAL3, ROB) - Syncs in real-time across crew devices - Includes a vessel-ops-friendly admin panel

A.2 Target market

MarineStock is best suited for:

- **Vessel size:** small-to-mid, from offshore support vessels (OSVs) through tugs, workboats, chemical carriers, survey ships, yachts
- **Fleet size:** 5–50 vessels
- **Operator type:** independent operators, OSV fleets, niche specialists — anyone for whom SpecTec is overkill

Not ideal for: - Single-vessel operators who genuinely make do with Excel (free > paid) - Mega-fleets (50+ vessels) that need tight integration with corporate ERP - Cargo tracking (MarineStock is for housekeeping inventory, not cargo manifests)

A.3 Key features

- Multi-device real-time sync (Firebase Firestore backend)
- Offline-capable Progressive Web App
- Multi-location stock tracking (v5.3)
- Transaction history with full audit trail
- FAL Form 3 declaration PDF (IMO standard)
- Monthly / ROB / custom reports in PDF and Excel
- Label printing with QR codes (Dymo and A4)
- AI-powered item photo identification (optional)
- Per-vessel chat with Super Admin
- Expiry tracking for chemicals and medicines
- Minimum stock thresholds with low-stock alerts
- Section / category customization
- Excel bulk import
- Paint section with spec PDFs
- MSDS attachment per item

A.4 Data handling and security

Data is stored in **Google Cloud Firestore** (Google Cloud Platform). Key points:

- Each vessel’s data is isolated — crew on one vessel cannot access another vessel’s inventory
- Data is encrypted in transit (TLS) and at rest
- Backups are automatic (Google Cloud), with additional manual exports taken periodically
- Authentication via Google Sign-In (Super Admin only) and one-time access codes (crew devices)
- No data is sold, analyzed, or shared with third parties
- The developer (Anthropic/Claude) is an AI writing tool and does not have access to live vessel data

What MarineStock tracks (analogous to a “paper notebook”): - Item names, quantities, locations - Transaction history - Supplier and part number info

What MarineStock does NOT track: - Cargo manifests or cargo positions - Vessel GPS position - Commercial freight rates - Crew personal data beyond device names

This “paper notebook” scope is intentional — operational housekeeping, nothing sensitive enough to raise corporate IT concerns.

A.5 Pricing (indicative)

Pricing is per vessel per month, with tiers based on fleet size:

Tier	Vessels	Monthly (per vessel)
Starter	1-5	~\$29
Standard	6-20	~\$79
Fleet	21-50	~\$149
Enterprise	50+	Contact for quote

Final pricing is subject to negotiation. Reference pricing only.

Setup and onboarding included in first month. Chat support included all tiers.

A.6 Pilot program

For prospective customers, a **6-month free pilot** is available on one vessel in exchange for:

- Honest feedback during the pilot period
- Permission to use the operator’s name as a reference customer
- A brief testimonial at pilot end (if happy)

Post-pilot, decide whether to continue on a paid plan. No obligation.

A.7 Comparison: MarineStock vs. Excel vs. SpecTec

	Excel	MarineStock	SpecTec
Cost	Free	~\$29-149/vessel/mo	~\$2,000+/vessel/mo
Multi-device sync	No	Yes	Yes
Offline	Yes (local)	Yes (PWA)	Varies
Real-time updates	No	Yes	Yes
Learning curve	Low	Low	High
FAL3 export	Manual	1-click PDF	Yes
Audit trail	No	Full	Full
Mobile-friendly	Awkward	Native	Varies
Fleet-level oversight	No	Yes	Yes
Required training	None	~30 min	Several days
Integration depth	Low	Low	High (with ERP, PMS)

MarineStock is the **middle ground** — enough structure and sync to replace Excel, without the cost and complexity of SpecTec.

A.8 Contact

For pilot inquiries, pricing discussions, or technical questions:

- **Contact:** Maynard Timoteo, 2nd Engineer (MarineStock creator)
- **Email:** [to be filled in]
- **Fleet:** currently deployed on MV Armada 8606

End of Manual — MarineStock v5.3

This manual covers version 5.3.0, released April 2026. Features and UI may have evolved in later versions. For the current version, check the app header.

Feedback and corrections welcome — message Super Admin via in-app chat.