

S07 — DOS (Daily Operations Status) — Screen Spec (MVP)

Status: Draft (core dashboard locked)

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Naming: **VOS** = product/platform name (Vessel Operations Suite). **DOS** = this screen (Daily Operations Status).

DOS is the default screen after login and the screen the app returns to when left unattended.

1) Purpose

DOS is the primary “operations dashboard” that turns captured data into **usable, engineer-first performance insight**:

- Counters, status lights, trends/graphs, telemetry-style snapshots
- Defects → WO requests → Open WOs → Closed (report pending) → WOT reports tracking
- Notifications and escalation visibility
- Usage/consumption baselines (daily/weekly/monthly)
- “What’s happening now”, “what’s about to bite you”, and “what needs action today”

DOS must be **busy but not chaotic**: fast glance → drill down → act.

2) Inputs (what the user does on DOS)

DOS is mostly output-only, but must support “fast actions”:

- Acknowledge / snooze notifications (with override rules where required)
- One-tap deep links (open the exact record in the source screen)
- Create-from-here shortcuts:
 - Create Defect (quick)
 - Create WO Request (manual)
 - Create Requisition (quick)
 - Start Daily Log / Submit Daily Log (if not done)

3) Outputs (what DOS updates/creates elsewhere)

- Writes **acknowledgements** and **mute overrides** to audit logs (for accountability).
- Creates new records only through explicit quick actions (defect, WO request, requisition).
- Does not “silently change” operational records; it is a dashboard + router.

4) Layout (sections / cards / widgets)

A) Top bar (always visible)

- Vessel status: Underway / Anchor / Dock / Shipyard (from Daily Log)
- Charter/private + crew/guests snapshot (from Daily Log)
- Critical counters (compact):
 - Unreviewed defects
 - WO requests awaiting classification
 - Open WOs
 - Closed WOs — report pending
 - Overdue routine checklist(s)
 - Parts on order / awaiting delivery
 - Tagged-out equipment count

B) “Action Required” lane (top priority)

A short stack of cards that must be cleared daily:

- Unreviewed defects (S01)
- WO requests awaiting classification (S02)
- Closed WO report pending (S03)
- Overdue PM instances / overdue tasks (S05/S02)
- Inventory approvals / requisitions awaiting action (S04)
- Any critical tagged-out items (S06/S02)

C) System status overview (lights)

Engineer-first “green/yellow/red” blocks:

- AHUs down (count) + tagged-out (count) (from Daily Log status maps)

- Pumps running (count) (from Daily Log)
- Tagged-out equipment (count + list top 5)
- Shore power / generators running state
- Bilge status warnings (wet zones)
- Sea strainer “days since cleaned” warnings

D) Performance & usage panel (graphs)

Small, readable trendlines (rolling windows):

- Fuel usage (daily/weekly/monthly)
- Freshwater usage/production (if watermakers enabled)
- Generator hours (daily/weekly)
- Main engine hours (daily/weekly)
- Spend (daily/week/month) from Purchases/Accounts (Reports & History)

Note: These are derived from aggregation of Daily Log + Inventory/Purchases and are not edited here.

G) Engineer Sea Service (motivation widget)

A compact widget showing the engineer's **Sea Service time** derived from submitted Daily Logs:

- Days Underway
- Days At Anchor
- Days At Dock
- Days In Yard/Shipyards
- Month-to-date and year-to-date totals

Rule: updates only when Daily Log is submitted (no free ride).

Deep link: open Sea Service Records in Archive for audit and export.

E) Quality-of-data panel (keeps the system honest)

- Missing critical E&M; data count (E&M; records missing key fields)
- Daily Log not submitted / partial submission
- PM Matrix “unclassified triggers” count (needs engineer decision)
- Any stale data warnings (e.g., last meter update older than X days)

F) Notifications tray (integrated)

- Prioritized alerts grouped by category:

- Safety / Critical machinery
- PM overdue
- Defects escalation
- Requisitions / subscriptions
- Data quality

Mute rules:

- Muting high-severity items requires override password + reason and records an audit trail.

5) Rules & behaviors (automations + triggers)

A) Data sources (important)

DOS displays both **live operational state** and **summary history**:

- **Live state** comes from current/open records (Defects, WOs, Inventory, current-day Daily Log).
- **Summary history** (spend, completions, month-to-date KPIs) comes from **Reports & History** aggregates.

B) Time windows and “reset” behavior

DOS uses rolling windows and month-to-date (MTD):

- “Today” and “This week” are rolling windows.
- MTD resets automatically on the 1st of each month, but historical values remain in Reports & History.
- Recently Submitted items can be shown (rolling 30 days) for quick access; full archive is in Reports & History.

C) Default return behavior

- After inactivity, app returns to DOS.
- After completing actions in other screens, user returns to DOS unless they explicitly navigate elsewhere.

D) Escalation visibility

DOS shows escalation “pressure” without spamming:

- Defects not reviewed escalate daily (from S01 rules).
- Routine checklists not submitted escalate daily (from S06 rules).

- Report pending WOs remain visible until report submitted (from S03 rules).

E) Performance data integrity

- DOS never edits raw log records.
- Graphs are generated from stored readings; if readings change, graphs re-compute.

6) Links to other screens (drill-down + actions)

- Daily Log (S06) — open today's log; jump to specific tab (bilges/strainers/plant)
- Faults & Defects (S01) — open unreviewed defect
- Tasks & Work Orders (S02) — open WO request awaiting classification; open active WOs
- WOT Reports (S03) — open report pending submission; view recently submitted
- Inventory & Requisitions (S04) — approvals, parts on order, subscriptions
- PM Matrix (S05) — overdue / due soon; unclassified triggers
- Reports & History — full archive + exports + monthly/annual reports

MVP notes (scope control)

- Keep DOS fast: use cached aggregates where needed (especially graphs and MTD KPIs).
- First release focus: counters + action lane + core system lights + 3–5 key graphs.
- Add advanced telemetry and richer analytics after baseline data is stable.