

# 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.

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## 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.

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## 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)

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### 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.

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### 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/Shipyard
- 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.

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## 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.

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## **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

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## **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.