



## A loss-prevention tool for P&I: early fatigue/distraction detection without crew surveillance

- Reduces human-factor risk
- Minimised, on-board data
- BNWAS-compatible escalation
- Audit-friendly reporting



### Why P&I should care

- A large share of high-severity casualties still traces back to human factors (fatigue, distraction, watchkeeping overload).
- When incidents happen, claims are getting more expensive (repairs, delays, yard capacity constraints).
- Clubs and underwriters are looking for practical, documentable controls - not just policy statements.

### What Aware Mate is (and is not)

- An on-board, human-in-the-loop vigilance layer that complements BNWAS.
- It does not automate navigational decisions; it only provides proportionate alerts and logs.
- Designed for crew acceptance: no identification, no emotion inference, and no raw video stored by default.

### How it reduces exposure

- Earlier detection than acknowledgement-only BNWAS: graded alert ladder for sustained drowsiness/distraction.
- Standard integration path: dry-contact relay can trigger the vessel's existing BNWAS alarm chain (bridge -> Master -> crew).
- Trend reporting supports fatigue-risk management, BRM training, and safety management audits.

### Data minimisation & governance

- Minimal Tier reporting contains day-level counts by alert tier (no times, no identities).
- Only derived metrics leave the vessel, with role-based access and audit logs.
- Operational controls: bridge override/mute; documented review and appeals path for any alert.



Example: Minimal Tier calendar heat map (no identities)

### How a club can engage

- Loss-prevention pilot program with selected members (1-2 vessels, 8-12 weeks).
- Define simple KPIs: critical alerts per underway hour, night-watch risk index, and system-enabled %.
- Deliverables: weekly anonymised report + close-out memo with operational recommendations.
- Option: incorporate into a club guidance note / recommended control for high-risk trades and congested corridors.

### Evidence (available on request)

Operational bridge test (RO-PAX 'Marko Polo', Dec 2025): 98.7% uptime; P95 alert latency 2.4s; false critical alerts 0.08/h; 93% coverage; crew acceptance 4.6/5 (n=5).

► **35-sec demo:** <https://shorturl.at/4jtuT>

### Contact / demo

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