

BOUNDED EDGE SUBSYSTEM FOR INTEGRATED BRIDGE ENVIRONMENTS

Aware Mate integration evaluation

Bounded on-board vigilance module beside bridge automation.

Aware Mate connects to defined bridge video input, edge compute, local alerting, optional alarm I/O and customer-approved reporting/export. Designed for testable deployment, commissioning discipline and clear interface boundaries.

Integration path

Module view - defined interfaces

```
graph LR; 1((1)) --> 2((2)); 2 --> 3((3)); 3 --> 4((4));
```

1 → **2** → **3** → **4**
Camera Edge Alert Export

Signals support the watch. Human review stays in context.

Interface matrix

IP camera	bridge video input
Edge unit	local inference and logs
Local alert	speaker / buzzer output
Dry contact	optional alarm-chain signal
BNWAS-adjacent	customer/class approval

Integrator role

Mounting, cabling, local network, alert device placement, optional I/O wiring and first-line installation work.

ELNAV.AI role

Software configuration, calibration support, second-line technical review, reporting and close-out input.

Customer role

Vessel access, SOP boundaries, privacy notices, acceptance sign-off and approval for optional integrations.

Integration boundary

No navigation control. No autopilot control. No ECDIS/radar decision-making. No remote CCTV stream by default. Optional I/O only under approved pilot or integration scope.

Operational evidence 72h live bridge run <small>Operational evidence supports technical evaluation and pilot readiness - not certification proof.</small>	98.7% uptime	2.4 s P95 latency	0.08/h false critical	93% coverage	4.6/5 crew acceptance
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Discuss an integration evaluation or demo-kit path

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