



SETTING THE STANDARD FOR THE NEXT GENERATION OF MARITIME SECURITY

# SeaSafe: Why Now?

*The gold standard in DAAD. Drone-Augmented Autonomous Deterrence.*

**LTI**  
LORICA TECHNOLOGIES INC.

## SeaSafe

DAAD: Drone-Augmented Autonomous Deterrence

- PERSISTENT AWARENESS**  
Continuous 360° monitoring above and around the vessel.
- SECURE CONNECTIVITY**  
Resilient mesh network for seamless communication.
- RAPID RESPONSE**  
Autonomous support for distress detection and response.
- NON-LETHAL BY DESIGN**  
Focused on deterrence, protection, and peace of mind.

Labels in diagram: BARRELMAN, COMMS DRONE, MESH NETWORK, SENTRY DRONE, RESCUE DRONE, DETECTION PERIMETER 30 nm RADIUS.

*The bubble in action. Cargo carrier, Barrelman, sentries, and the comms drone closing.*



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PANEL 02 · THE DEPLOYMENT

## What's in a SeaSafe deployment.

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SeaSafe is end-to-end autonomous maritime defense. A system of drones and a control plane that protects your vessel without an armed crew on deck.

- **Barrelman**, the vessel-mounted overhead command unit.

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- **Communications drones**, for dialogue and intelligence gathering.

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- **Sentry drones**, for non-lethal deterrence.

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- **Rescue drones**, for SAR and recovery.

This is **Drone-Augmented Autonomous Deterrence**, or **DAAD**. Lorica named the category.



PANEL 03 · HOW IT WORKS

## The response sequence.

When the system identifies a threat, the response sequence is consistent and auditable.

**(a) BUBBLE**  
A 30 nm (nautical mile) detection perimeter around the vessel, with a 25 nm engagement perimeter inside it. Barrelman keeps watch beyond the radar horizon. Always powered. Always watching. The sequence starts the moment the bubble is pierced.  
Detection at 30 nm, engagement at 25 nm. The bubble is the system's posture at rest. Every other step is a response to it being broken.



**(b) COMMUNICATIONS**  
A communications drone approaches the intruder, speaks the intruder's language, and gathers intelligence through dialogue. Most encounters end here.  
Dialogue is the first deterrent. Operators get full audit-grade context before any escalation is considered.



**(c) NON-LETHAL DETERRENCE**  
If the encounter is judged a threat, sentry drones deploy non-lethal countermeasures to disable the intruder vessel. No armed crew. No human in the line of fire. No liability exposure.  
Non-lethal by design. The objective is to disable the threat, not the people aboard it.



**(d) RESCUE**  
If recovery is required, a rescue drone deploys with a rescue package. SeaSafe also operates in rescue-only mode.  
The same fleet that deters a threat can recover a person overboard. Rescue-only deployments are an option for operators who want the recovery capability without the deterrence layer.



PANEL 04 · THE FULL STACK

# SeaSafe is a system.

A complete SeaSafe deployment is more than the drones. The drones are hardware. The Lorica Control Plane that runs them is hardware-agnostic, which means SeaSafe deployments integrate with multiple drone manufacturers. The system extends to new drone types as the technology evolves.



### DRONES ARE HARDWARE

Drones get replaced, retired, and reissued. The hardware layer is expected to turn over. Treating drones as commodities is a feature, not a compromise.

### THE CONTROL PLANE IS THE MOAT

The Lorica Control Plane is hardware-agnostic. It integrates with multiple drone manufacturers and extends to new drone types as the technology evolves. The operator keeps a single audit chain across vendor changes.



PANEL 05 · INSURANCE ECONOMICS

## Built to earn premium credit.

SeaSafe is designed to be credit-eligible the same way BMP Maritime Security hardening is credit-eligible today: a documented security measure that underwriters can evaluate and price. As the SeaSafe Standard matures and SeaSafe-Certified operations earn underwriter recognition, the install economics compound.

### THREE FORMS OF VESSEL PROTECTION COMPARED

<p>TIER 01 · RECURRING</p> <p><b>Armed Guards</b></p> <p>PER VOYAGE</p> <p>Recurring operating expense.</p> <p>Cost continues for the life of the vessel.</p> <p>Human deterrent.</p>	<p>TIER 02 · PASSIVE INSTALL</p> <p><b>BMP Maritime Security</b></p> <p>ONE-TIME INSTALL</p> <p>The consolidated maritime hardening standard.</p> <p>Passive physical countermeasures: razor wire, citadels, water cannons, defensive lighting, hull hardening, defensive maneuvering protocols.</p> <p>Covered by IMO and IACS frameworks. Already priced by underwriters.</p>	<p>TIER 03 · ACTIVE AUTONOMOUS</p> <p><b>SeaSafe</b></p> <p>INSTALL + SUBSCRIPTION</p> <p>One-time capital install plus a monthly subscription.</p> <p>Continuous autonomous defense, voyage after voyage.</p> <p>Designed to earn underwriter credit as the SeaSafe Standard matures.</p> <p>Operates with no armed crew on deck.</p>
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*The pattern across the three tiers is recognizable. Each new tier of mitigation that becomes documented, evaluable, and standardized enters the underwriter pricing conversation. SeaSafe is the third tier, designed for that conversation from day one.*