



Aids to Navigation (AtoN) Management

Aids to Navigation (AtoN) Management provides comprehensive monitoring, configuration, and control of both physical and virtual AtoNs. Real-time alerts enable rapid responses to off-position drift or transmission failures and allow quick deployment of emergency markers. The platform's advanced two-way messaging enhances communication and situational awareness, significantly improving maritime safety.

Integrated with Maritime Domain Monitor, AtoN Management easily scales to meet changing operational needs, making it an essential tool for modern maritime navigation.

Enhanced Maritime Security

Quickly deploy virtual AtoNs to alert vessels of hazards, route changes, or new offshore structures, reducing reliance on immediate physical installations.

Automated Monitoring & Alerts

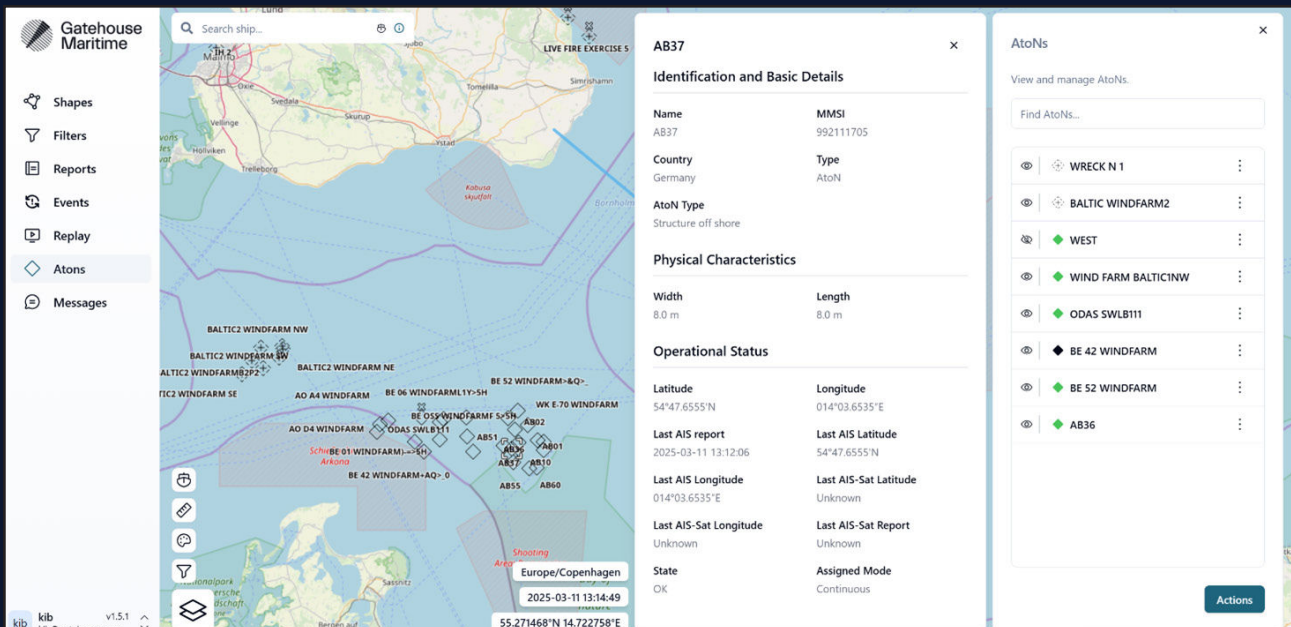
Minimize manual inspections through automated alerts for AtoN failures or drift, ensuring rapid corrective action and minimal downtime

Scalable & Secure

Built to meet the needs of commercial and governmental organizations, our platform delivers scalability and robust security.

Key Functionalities

- Monitor AIS-equipped buoys and other navigational aids.
- Set up new AtoNs quickly with automatically populated data or manual input.
- Create virtual AtoNs to align with an existing physical structure, e.g., a lighthouse.
- Two-way communication support.
- Define warning and failure timeouts, off-position thresholds, and severity levels.
- Assign which user groups receive alerts via email or other notification channels.
- Issue safety or geographic messages in either broadcast or addressed mode.
- Schedule messaging, including start and end time.
- View both sent and received messages and related details.
- Define geofences where messages are relevant.
- Toggle specific AtoNs on/off or zoom to them on a map.



Easily view all AtoNs in a single list, with color-coded indicators for quick identification of malfunctioning or at-risk AtoNs.

Feature Highlights & Technical Details

Technical Overview

Gatehouse Maritime's AtoN Management solution facilitates TCP connections to Physical Shore Stations (PSS), networked AtoN devices, and non-AIS communication devices that receive data broadcast by the AtoNs.

IT monitors and decodes AIS AtoN messages (types 6, 8, and 21) as well as proprietary messages through user-defined configurations in the AIS Service Management tool (WebASM).

Alerts can be configured to notify the user when decoded messages indicate values (e.g. battery voltage) that fall outside operational thresholds. Additionally, the AtoN Management solution supports the centralized creation and transmission of various messages, including virtual AtoNs, Safety Related Messages, Geographic Notices, and Application Specific Messages.

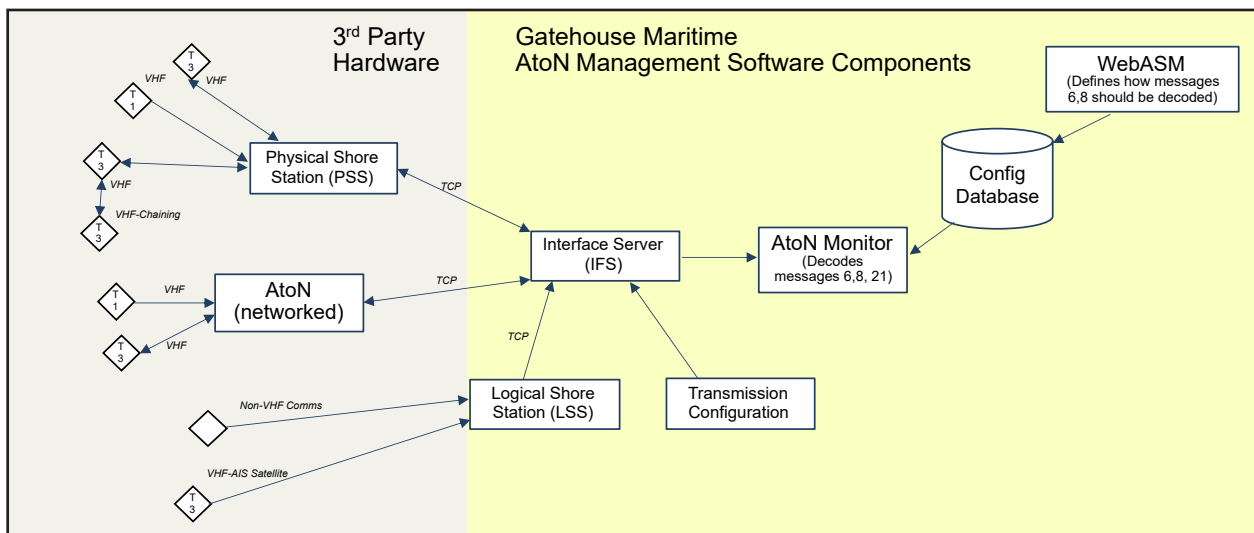
Dependencies

Can be used as a standalone cloud-based application or as an API integrating into your own system. For full functionality, including map-based visualization and integrated management features, Maritime Domain Monitor is required.

Implementation & Support

Gatehouse Maritime collaborates closely with clients to ensure seamless deployment and integration into existing workflows. Our comprehensive support includes:

- Customized sessions for operators and administrators to maximize efficiency.
- Options ranging from email troubleshooting to 24/7 assistance.
- Regular improvements to keep systems optimized and up to date.



Ready to explore? Learn more, watch the demo, or try it out today.

Visit our website or reach out to dive further into our products or to have us set up a demo or trial.

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