



NACOS Connect

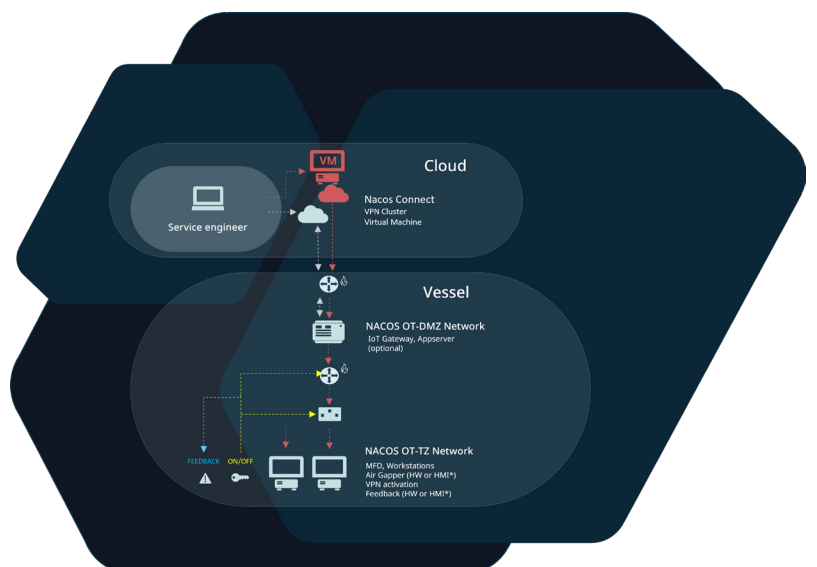
Remote Maintenance

Reduce system downtime by integrating our Remote Maintenance Application on board of your vessel.

In maritime operations, ensuring the safety and efficient functioning of your on board system is paramount. However, problems may pose significant risks and loss. That's why it's crucial to provide immediate assistance to resolves issues quickly. Remote maintenance application enable on board system to be remotely maintainable by our experts wherever the vessel is and as long that internet connection is available.

Key benefits

- Reduce potential risks and loss as consequence of long system downtime.
- Cut out travel time by enable us accessing remotely.
- Improve on site visit outcome thanks to the background preparation work.





How does it work?

Our easy to install NACOS Connect IoT Gateway seamlessly bridges onboard managed OT-NACOS Systems with the IT Ship Network. It enables the establishment of a VPN tunnel upon on board user activation via NACOS Platinum system HMI* or via Manual Key Switch. Onshore engineers access dedicated cloud stations to connect with various onboard components, including Workstations (MFD) and more.

The NACOS Connect IoT Gateway has been designed following:

- IEC 61162-460*
- IEC 62433-3-3* standards*.

** some of the listed items will be available during 2024 as a software update or as an additional option.*

Features

- NACOS Platinum build-in feature for monitoring and control over the remote sessions.
- Resilient design principle.
- Encrypted communication.
- Physical device to segregate OT zone when not needed (AIR-GAPPER).
- OT dataexchange on separate outbound line.
- IoT device and applications remotely patchable.
- Session backup.

Inside the box

IoT Gateway including:

- Router Firewall
- Set of accessory

Optional:

- Application Server

Direct Access:

- AirGapper
- Key Switch

Cyber Security

As vessels become more digital, smarter, and connected, it is vital to equip seafarers and the marine industry with reliable and cyber-resilient solutions. We have experience with implementing cyber security capabilities for marine automation and navigation systems.

Working with our customers, we can together implement the best way to minimize risks through layered security activities. We continuously improve the cyber security posture of our systems and services, following the standards for NACOS Platinum: ISA/ IEC 61162-460 for navigation and communication and ISA/ IEC 62443 for marine automation.

To safeguard your assets, we have implemented stringent measures, such as granting view-only access for remote users and implementing a dedicated User Rights Management system. This ensures that access is segregated based on the vessels in your organization, minimizing potential risks.

At NACOS Marine, we are redefining control at sea. Born from decades of maritime expertise, NACOS Marine delivers fully integrated automation, navigation, and dynamic positioning solutions, built on one intuitive platform. We empower vessel operators with precision, situational awareness, and confidence in the most demanding marine environments.



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