**Cybersecurity in Maritime Industry**

Introduction:

In the maritime sector, cybersecurity has become a critical concern alongside the digital transformation of the industry. As ships are equipped with technological innovations such as automation and remote access, fortifying defense mechanisms against cyber threats is imperative.

Automation Systems and Critical Functions:

Automation systems on ships manage crucial functions like navigation control, cargo handling, and communication. Securing these systems against cyber attacks is vital for both vessel safety and the integrity of maritime operations.

Best Practices for Maritime Cybersecurity:

To ensure the cybersecurity of a vessel, ship operators and companies should adopt best practices, including robust encryption methods, security software implementation, and regular security updates. Additionally, enhancing the cybersecurity awareness and training of the crew plays a pivotal role.

Remote Access Considerations:

While remote access enables the management of ship systems from.