

IMO 2021 COMPLIANCE

CYBER GUIDELINES

As of January 1, 2021, the International Safety Management (ISM) Code for cyber-security will come into effect and your vessel's Safety Management Systems will be required to align with the measures outlined to address cyber-risk. Time is of the essence and an efficient planning process is the need of the hour to ensure compliance and to stay competitive.

IEC Telecom offers a comprehensive portfolio of cyber security solutions that are specifically engineered for the maritime environment to reduce the exposure to risk as well as protect vessels and their crew from all manner of external threats. Prioritise your company's readiness for cyber security measures and ensure compliance with the IMO 2021 regulations with our state-of-the-art security solutions.

1. Identify	Define personnel roles and responsibilities for cyber risk management and identify the systems, assets, data and capabilities that, when disrupted, pose risks to ship operations.
2. Protect	Implement risk control processes and measures, and contingency planning to protect against a cyber-event and ensure continuity of shipping operations. IEC Telecom OneGate Advanced UTM Protection IEC Telecom OneGate Advanced Usage Monitoring OneMail - Free Phishing Penetration Test
3. Detect	Develop and implement activities necessary to detect a cyber-event in a timely manner. OneMail-Antivirus, ATP, Spam Management, Anti-Phishing, OneCover, End Points AntiVirus Solution IEC Telecom OneGate UTM Protection Reports, OptiView
4. Respond	Develop and implement activities and plans to provide resilience and to restore systems necessary for shipping operations or services impaired due to a cyber-event. OneGate Advanced UTM OneCover OneMail-Archiving
5. Recover	Identify measures to back-up and restore cyber systems necessary for shipping operations impacted by a cyber-event. OneShare, OneMail - Archiving, OptiView Backup



HOW WE ASSIST WITH CYBER SECURITY

PROTECT:

By default, all IEC Telecom advanced solutions such as OneGate come with critical and welfare traffic segregation, advanced unified threat protection, intrusion prevention as well as gateway antivirus protection. Our solutions ensure that critical systems such as bridge navigation, main propulsion systems, or the vessel sensors that provide mission-critical data are not compromised. We work with our customers to carefully determine who may be given access to the vessel's technology in order to avoid creating system vulnerabilities via a third network for certified third parties or one-time access options.

As part of our service to OneMail customers, we provide a free Phishing Penetration Test. The test allows customers to evaluate the ability of their personnel to identify phishing attacks, encourage vigilance and an appropriate level of awareness of cyber risk management regardless of the software solutions, and identify any requirements for further training. Following the penetration tests, customers are supplied with educational materials for both staff and IT personnel.

DETECT:

IEC Telecom OneGate, OneMail, and OneMailPro include cyber security features such as advanced threat protection, antivirus scanning, continuity, anti-phishing, and provision of reports on the threats detected. The enhanced features are delivered as standard, ensuring vessels are provided with protection from an ever-changing range of cyber threats. Our advanced threat protection adds an additional layer of protection, providing advanced malware detection, utilising its Global Threat Intelligence Network whilst the antivirus guards against all known virus signatures through multi-layered detection engines. Anti-phishing offers comprehensive protection against the latest type of email social engineering attacks.

A network is only as secure as its most vulnerable device. These cyber security weaknesses at sea could arise from the inadequate operation, integration, maintenance, and design of systems as well as from intentional and unintentional cyber threats. As such, ensuring all critical software and security patches are delivered to vessels is of paramount importance to keep them operationally resilient. OneShare helps minimise your risk by allowing you to simply deploy software update patches to remote locations in a cost effective and timely manner. Designed specifically for the demands of satellite connectivity, OneShare harnesses the power of the leading data transfer platform in the market to optimise data streams between ship and shore.

Any deficiencies in anti-viral software and security systems could render a vessel 'unseaworthy'. Hacking or the introduction of malware could be a result of failures in software maintenance or user permissions. Therefore, in addition to protecting communications, IEC Telecom also provides end-point protection. OneCover is a comprehensive antivirus solution, optimised for the maritime market and designed to protect the vessel whilst minimising the impact on communication networks. Archiving, our integrated cloud-based email archiving platform, allows fast, safe, and secure access and retrieval of all emails to reduce business risks and ensures legal compliance. Accessible from anywhere, continuity allows authorised users to send and retrieve email during any interruption in the shipboard email capability.



HOW WE ASSIST WITH CYBER SECURITY

RESPOND:

IEC Telecom Solutions enhanced security features are in place to not only help you detect and stop threats, but to allow you to react to any breach of your network. When it comes to cyber security in the maritime sector, one size certainly doesn't fit all. As such, our range of cyber security solutions offer vessel owners with options which relate directly to their ship and the way it operates. OneGate's advanced threat protection is based on a user-friendly portal from which IT managers can easily adjust and cope with any suspicious threat onboard. OneMailPro includes features such as quarantine, archiving, and continuity to ensure vessels are protected and can respond to any threats. Archiving, our integrated cloud-based email archiving platform, allows fast, safe, and secure access and retrieval of all emails to reduce business risks and ensures legal compliance. Accessible from anywhere, continuity allows authorised users to send and retrieve email during any interruption in the shipboard email capability.

OneCover provides the option to choose update frequency based on requirements. Live updates allow for zero-day protection, receiving the updates as soon as they are released to allow users to respond to new threats automatically.

OneShare (coming soon) allows IT managers to configure, monitor, and execute simultaneous file transfer tasks from a central location. OneShare provides a solution for the replication of data between ship and shore, reducing time and administration required by IT.

RECOVER:

With hackers constantly trying to outwit software-based protections, companies must be prepared if one of the threats is able to breach their defenses. Moreover, as ships become more digitalised and dependent on data analysis, it is vital to ensure the verifiable authenticity of that data. An effective recovery plan includes, foremost, a carefully thought-out cyber security policy that must be rigorously implemented and regularly updated, constant vigilance about the health of any equipment brought onboard before it is allowed to access any vessel systems, and an emergency response plan that should, if necessary, involve assistance from IT experts, lawyers, and specialist companies like ours.

To ensure business can continue if a threat is successful, IEC Telecom products include features such as archiving, back-up, restore, and continuity. OneShare ensures software patches can be updated.

For more information on how IEC Telecom can help you meet the new regulations, speak to your regional head of sales.

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