IRCLASS
Indian Register of Shipping

CYBER RISK MANAGEMENT

Cyber Risks in maritime industry are fast evolving into a major concern due to lack of proper controls and procedures for various onboard systems using high end computers, advanced communication technologies, state of art control and automation systems

Regulatory Requirements

IMO while noting the need and the necessity to address the maritime cyber risk has adopted following resolutions/ circulars:

- Guidelines on Cyber risk management vide MSC- FAL.1 /Circ.3 2017
- Res. MSC.428 (98) on Maritime Cyber Risk Management which requires Cyber risks to be appropriately addressed insafety management systems no later than the first annual verification of thecompany's Document of Compliance after 1st January 2021

IRClass Services

Guidelines for Cyber Risk Management

IRClass has developed Guidelines to address Cyber risks for ships and land installations which are based on

- IMO cyber risk management guidelines
- International standards
- Industry best practices

Key features

- Addresses both information technology and operational technology issues
- Risk based approach
- Identifies specific requirements for procedural controls and technical control tools
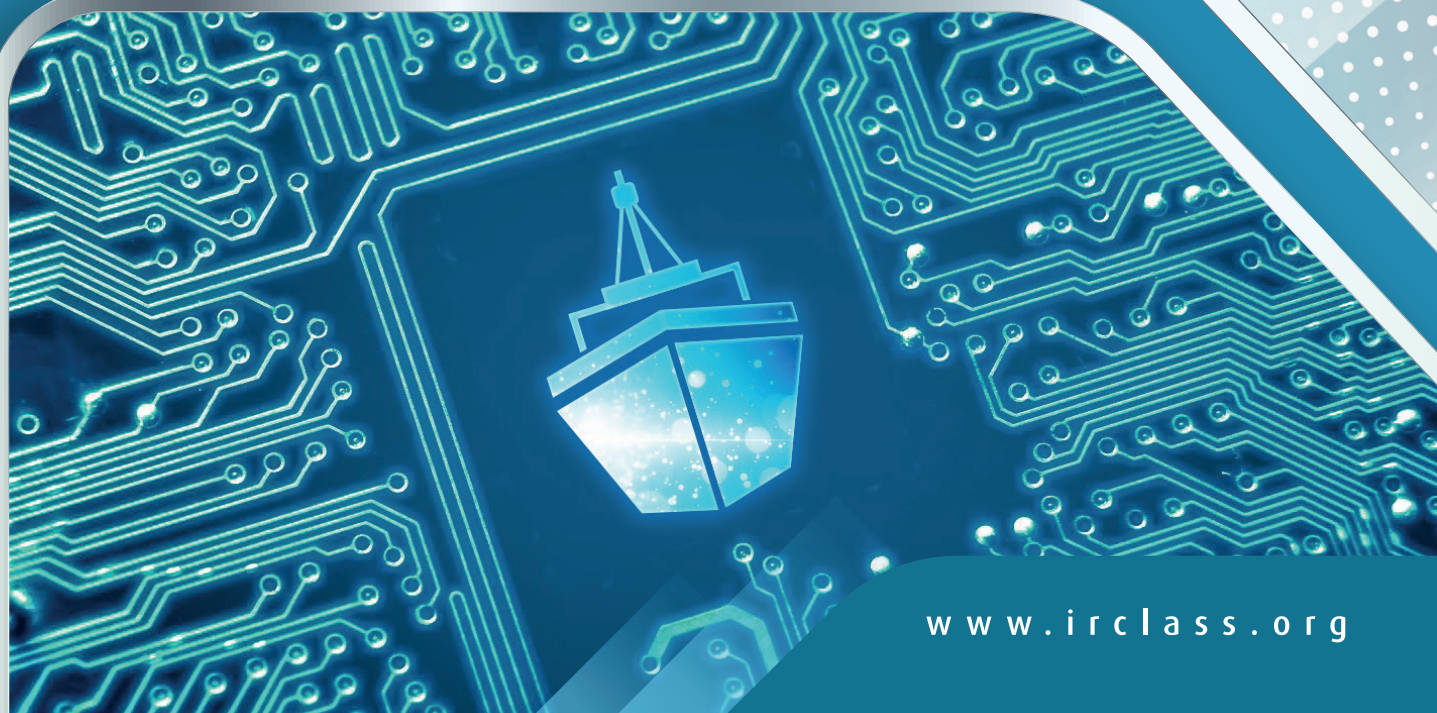
GAP Analysis

- Assessment of relevant system documents
- Assessment of existing OT and IT systems
- Identify Gaps in existing controls and procedures

Certification / Compliance

Using the Gap analysis cyber risks are addressed

- By updating safety management system of the company (ship owners/ship managers) as required by Res. MSC. 428(98)
- By assigning additional Class notation for vessel towards Cyber safety indicating their preparedness to have addressed cyber risks
- By issuance of Cyber safety Compliance certificate to land installations, ship owners, ship managers, shipyards, ports and industries

Training on Cyber Risk Management

With an aim to enable participants

- Enhance their awareness of external and internal threats, risks and vulnerabilities relating to security of data and digitally held information in the organisation
- Understand the significance of cyber safety measures at the organisational as well as individual employee level
- Know about cyber risks specific to maritime industry and their implications