

## Risk Assessment - Key to Maritime Cyber risk management



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Mr. Srinivas has more than 35 years Maritime experience. He spent 13 years in shipbuilding and was in charge of installation, commissioning and testing of electrical, control, automation, navigational and communications systems on board. He spent another 12 years in ship design and was involved in the preparation of class drawings, production drawings and also headed various consultancy projects for shipyards and ports in automation, networking & VTMS.

He is with IRS for more than 10 years and presently is heading the electrical and control systems department in IRS plan approval division . He is an IRS member in IACS Cyber Systems Panel and in Joint Industry Working Group on cyber systems.

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**Abstract**

Maritime Industry keeping in line with the recent technology is moving from stand alone computer based systems to integrated computer systems. The new technologies are being adopted not only onboard ship systems but also in maritime land installations. Be it a Dynamic position system, integrated platform management system on ships or a Container management system, Vessel traffic management system (VTMS ) in port, critical process are getting automated and integrated. Use of such advanced technology is not without its own problems, the foremost being Cyber threat either from a malicious actor or from an untrained operator. To address various cyber threats a systematic risk assessment of the installation is an essential prerequisite towards ensuring a cyber safe installation. The risk methodology also has to address the type of system being assessed i.e Information technology system or an Operation technology system. The present paper gives a brief insight on methodology which can be used for assessing the Cyber risk for a ship or land installation