

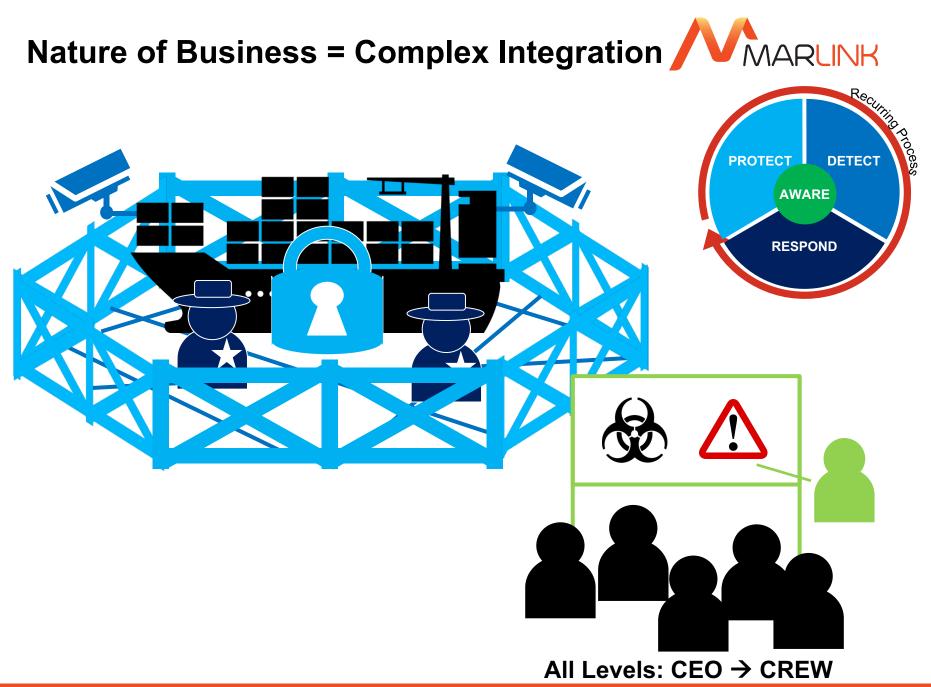




The Reality of Implementing Cyber Security in Shipping

Patrick Decool Director Innovations, Product Management

MARLINK **Dealing with CyberSecurity in Maritime** No Problem! Only Problems **Business** Losses **Reduced Staff** Staff Safety Heterogenic Fleet **Operational Disruption** Limited Budget Company Reputation No Cyber Specialists Insurance Impacts Unmanaged Onboard IT **Regulation Penalties** Convergence



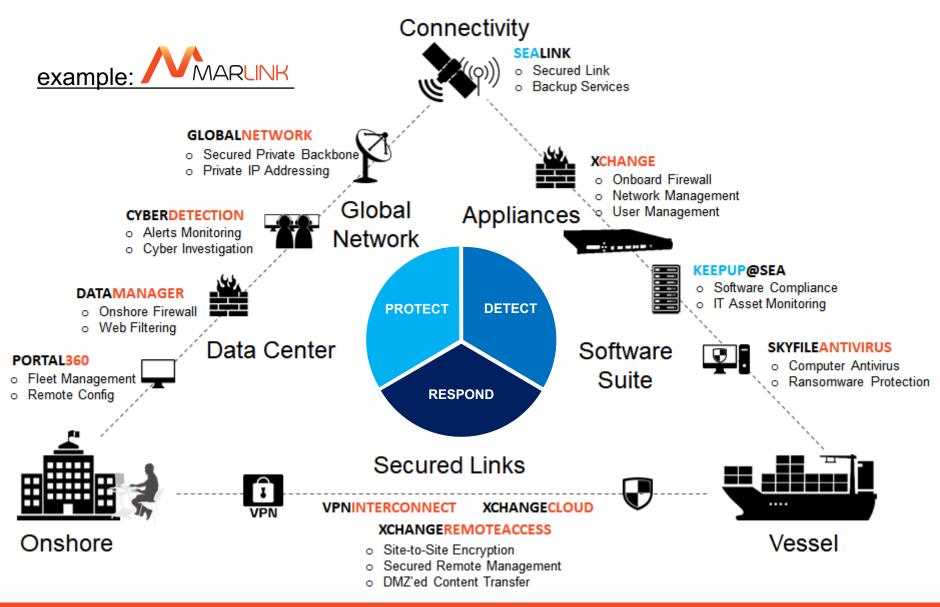
Environment with Specific Challenges





Your Provider as a CyberSecurity Partner





Recent Attacks in May / June 2017





WannaCry ransomware attack

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The WannaCry ransomware attack was a May 2017 worldwide cyberattack by the WannaCry ransomware cryptoworm, which targeted computers running the Microsoft Windows operating system by encrypting data and ... Wikipedia

Start date: May 2017

Initial release date: 2017

Cause: WannaCry worm

Result: Over 200,000 victims and more than 300,000 computers infected

Theme: Ransomware encrypting files with \$300 – \$600 demand (via bitcoin)



Petya

Malware

Petya is a family of encrypting ransomware that was first discovered in 2016. The malware targets Microsoft Windows-based systems, infecting the master boot record to execute a payload that encrypts a ... Wikipedia

Classification: Trojan horse

Operating system(s) affected: Windows

Aliases: GoldenEye; NotPetya

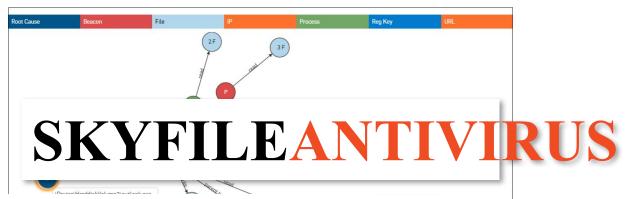
WannaCry "700 Vessels Patched in 4 Days"





Petya "2000 Vessels protected within Hours"





List of patches published by cyber security provider:



Confirmation of reception by Marlink subscribers:

27.06.17 14:04:26	Anti-Virus	12569	victoria-sun	<	ramni-fi.ide
27.06.17 14:23:04	Anti-Virus	588	victoria-sun	<	rans-eob.ide
27.06.17 15:53:35	Anti-Virus	767	victoria-sun	<	petya-bh.ide
27.06.17 20:13:07	Anti-Virus	32190	victoria-sun	<	petya-bi.ide
28.06.17 00:33:23	Anti-Virus	11621	victoria-sun	<	petya-bk.ide
28.06.17 04:43:06	Anti-Virus	18747	victoria-sun	<	miner-cp.ide

WannaCry & Petya were only two examples of attacks that eventually reached the Maritime industry. There is unfortunately no doubt cyber threats will soon become more complex and more targeted to our business...

> Marlink IT & Network Security Solutions Protecting your business in the Digital Age

Connect smarter. Anywhere.

How can I limit too many systems to connect to the internet?

How to keep my vessel IT permantely patched?

How can I securly remote manage my assets?

How can I detect an attack on my fleet?

Please contact Marlink to receive "Marlink IT & Security Solutions Brochure" and discuss how Marlink can help you deploying cyber solutions for your operations smartly!

Thank you! Any Question?

Patrick Decool Director Innovations, Product Management patrick.decool@marlink.com Marlink Group

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Connect smarter. Anywhere.