



# #2

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# PHISH & SHIPS



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# BE CYBER AWARE!



Welcome to this second issue of “Phish & Ships”, the maritime cyber security newsletter, keeping you up to date with a new industry initiative, “Be Cyber Aware At Sea”.

The campaign has been created to tackle maritime cyber security issues. Providing guidance and raising awareness of cyber threats and risks across the shipping and offshore sectors.

The UK Guardian newspaper has dubbed 2016 as “the year of the hack” – not just

based on the scale or scope of attacks, but how public they have become. Major companies have suffered at the hands of hackers, and it seems clear that no-one is safe. In addition to the high profile nature of 2016’s major hacks, The Guardian goes on to say that exploitation of internet-connected everyday devices has been the real story. While in the home that could mean webcams or digital recorders, on ships the consequences of attacks on equipment and infrastructure could be devastating.

The “Be Cyber Aware at Sea” campaign is not about scaremongering though, and we need to balance the need to educate against the fact that learning about vulnerabilities is scary and unsettling. We are working to find that balance, of honest assessment and talking of the threats, while also helping to assist seafarers and shipping companies with dealing with the problem. The threats posed and the vulnerabilities onboard are real, so is the need to be aware and to take action.

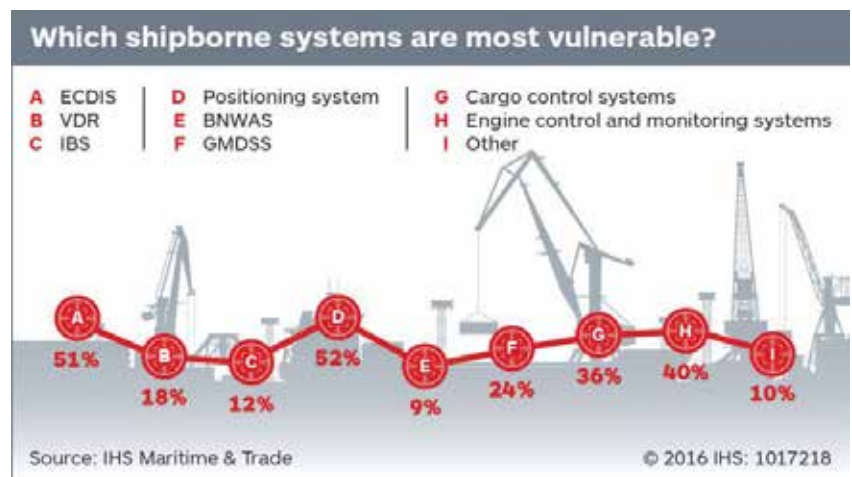
## KNOW YOUR ENEMY

It is vital that we begin to learn and appreciate where the cyber weaknesses in shipping are found. A recent survey by IHS Maritime & Trade and BIMCO found the most pressing cyber issues relate to ECDIS and vessel positioning systems.

One in five respondents acknowledged that they have been a victim of a cyber attack, with malware the most common form, and phishing coming a close 2nd. Some 75% of the attacks were the result of outside activity. Of the remaining quarter, which were in-house attacks, 85% related to system access.

One of the most common problems in shipping appears to be a legacy issue. Ships were for many years something of a technological wilderness, and so old or out-of-date technology has been the norm. This massively increases vulnerability, indeed 1990s-era systems using unsupported Microsoft products are not fit for purpose.

Perhaps most worryingly is the indication that less than 20% of shipowner and shipmanager survey participants incorporated cyber-security guidelines into their fleet management systems. So 80% of the industry is in the dark on the nature of the threats facing them, and of the ways of dealing with them. That is why it is vital to be cyber aware at sea. Similarly worrying, it emerged only 22% of participants that responded said their employees had undergone any form of cyber-security training.



We are not reporting problems either – and that is a major failing. The IHS BIMCO study suggested a tendency for shipping companies to hold back on information about their systems being compromised. Only 45% of those attacked have made that information available to the whole company and more interestingly, only 11% have told their insurers. Some 80% of those attacked were not covered by their insurers.

Allied to the calls for awareness, we need transparency too. Like piracy, we need accurate information and data – otherwise the industry cannot properly and effectively manage the risks and threats posed. Some have called for shared real-time intelligence on threats, while others in the industry would like to see a formal reporting scheme.

**Download the latest industry cyber guidelines at:**  
<http://www.becyberawareatsea.com/>

# Insurers Flagging Up Cyber Concerns

Insurance claims for data breaches are being made at a rate of more than one a day, according to insurers. One company CFC Underwriting recently stated that 2016 cyber policy claims were up 78% on 2015.

Ransomware, in which data is encrypted unless victims pay cash to a hacker to unscramble it, was behind 16% of the claims filed, putting it third behind data breaches and theft.

Cyber-insurance is becoming necessary to help companies cope with the volume of attacks they are facing, and these services are evolving into an “incident response” service that pays all the costs associated.

Not investing in cyber-defences is very risky, and this is amplified if there is no response or recovery mechanism in place to deal with the fallout of a cyber security incident. While non-shipping companies are being informed of the potential problems and the negative effects of publicity and damage to reputation, for shipping the potential is perhaps even more stark. It is one thing to lose data or be scammed financially, a ship running aground or colliding is something else all together.



## Finalist in Security Performance awards... so fingers crossed



We are proud to announce the “Be Cyber Aware at Sea” campaign is a finalist in the Outstanding Cyber Security initiative category of the Outstanding Security Performance Awards.

Thank you for all our supporters, subscribers and colleagues across the shipping and security industries – it is this tireless and unceasing support which has pushed our campaign into the limelight, and so this is recognition not just of our work, but yours too. So thank you.

The OSPAs recognise and reward companies and individuals across the security sector. The criteria for these awards are based on extensive research on key factors that contribute to and characterise outstanding performance. The OSPAs are set up in collaboration with security associations and groups across many countries.

The awards event takes place on 2nd March, 2017 in London, so our fingers are tightly crossed. Whatever the outcome, it shows that the importance of cyber awareness at sea is gaining traction, and we are proud to be at the forefront of this work.

## Making Cyber Sense

Jordan Wylie, Campaign Director of Be Cyber Aware at Sea recently spoke at the “Immediasea Forum” on cyber security in the maritime industry. He stressed that lack of knowledge and cyber awareness are major problems and barriers to progress.

He believes the industry doesn't simply need more training, but we also have to streamline the information flow as too much guidance can make seafarers confused about which to follow and what to implement.

Edwin Lampert, Editor of Tanker Shipping & Trade who also attended the Immediasea Forum press event, released an excellent video on 'The Maritime Cyber Security Paradox' which again highlights the startling statistics from the research piece Mr Wylie conducted in his MA thesis; 'Cyber Security; The Unknown Threat at Sea?'. The video can be found in the awareness section of [www.becyberawareatsea.com](http://www.becyberawareatsea.com) and is worth taking a look!



# Taking The Bait...



One of the fastest growing internet crimes by international criminals that have started to target seafarers, "Sextortion"!

In September 2016, we became aware of a case of in West Africa of a seafarer being targeted in what essentially is a 'blackmail scam'. Whilst waiting in an anchorage for a prolonged period of time, this particular individual who shall remain anonymous, found themselves in a very difficult, extremely stressful and a somewhat embarrassing situation after some pretty basic social engineering, some social media activity and a web cam.

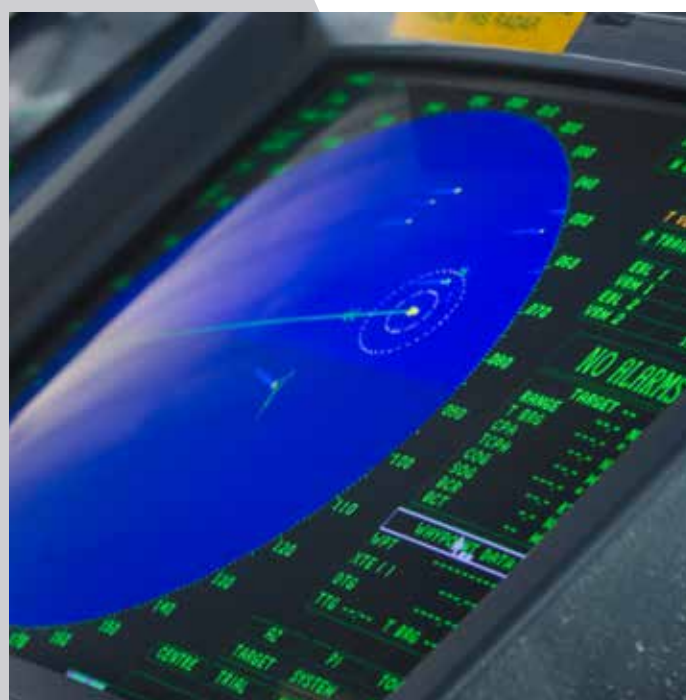
Such "sextortion" targeting seafarers is a crime on the increase. Also known as 'webcam blackmail', it refers to organised criminals deceiving webcam users into unclothing and performing a sexual act.

This footage is recorded and then used to blackmail victims for money. It is an international, organised crime, making it difficult for the police to capture the criminals responsible. Do not fall for the honeytrap!

## Top 5 Means of Cyber Protection

1. Firewalls
2. Intrusion detection
3. Best Practice Protocols
4. Physical Segregation of networks
5. Review of log files

Source: IHS Maritime & Trade



## Join in and have your say...

To keep up with the cyber risks to your company, fleet and onboard your ships, make sure you visit our website and join the campaign to make maritime cyber security work.

[www.becyberawareatsea.com](http://www.becyberawareatsea.com)

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Steven Jones, the editor of this new monthly round-up of maritime cyber matters, would love to hear from you. So please share your thoughts, views and experiences with the industry. We will analyse the current state of play in our next issue.



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