



The Great Disconnect in maritime cyber risk

Digital Ship Rotterdam
22 September 2022

Visibility | Security | Compliance

Introducing CyberOwl

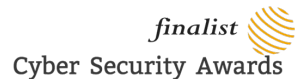
Deep expertise in maritime sector



Trusted by customers globally



Award-winning technology

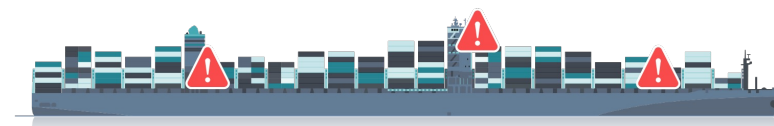
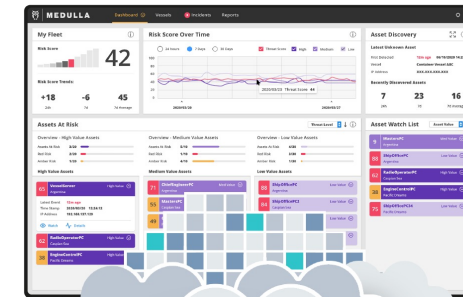


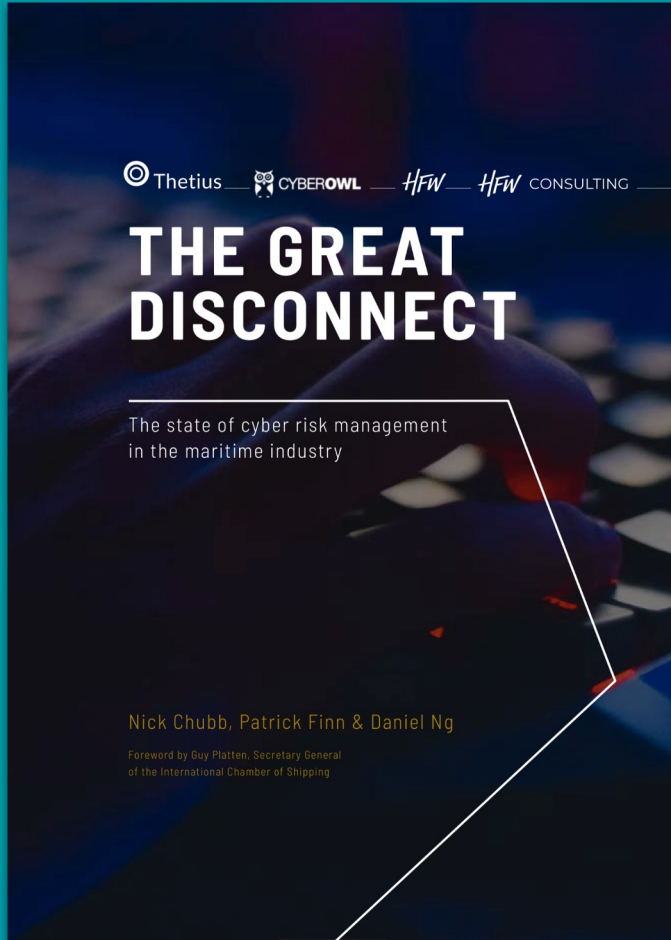
We help fleet operators

Know what you have onboard

Keep it secure

Prove you have secured it





combining insights from:

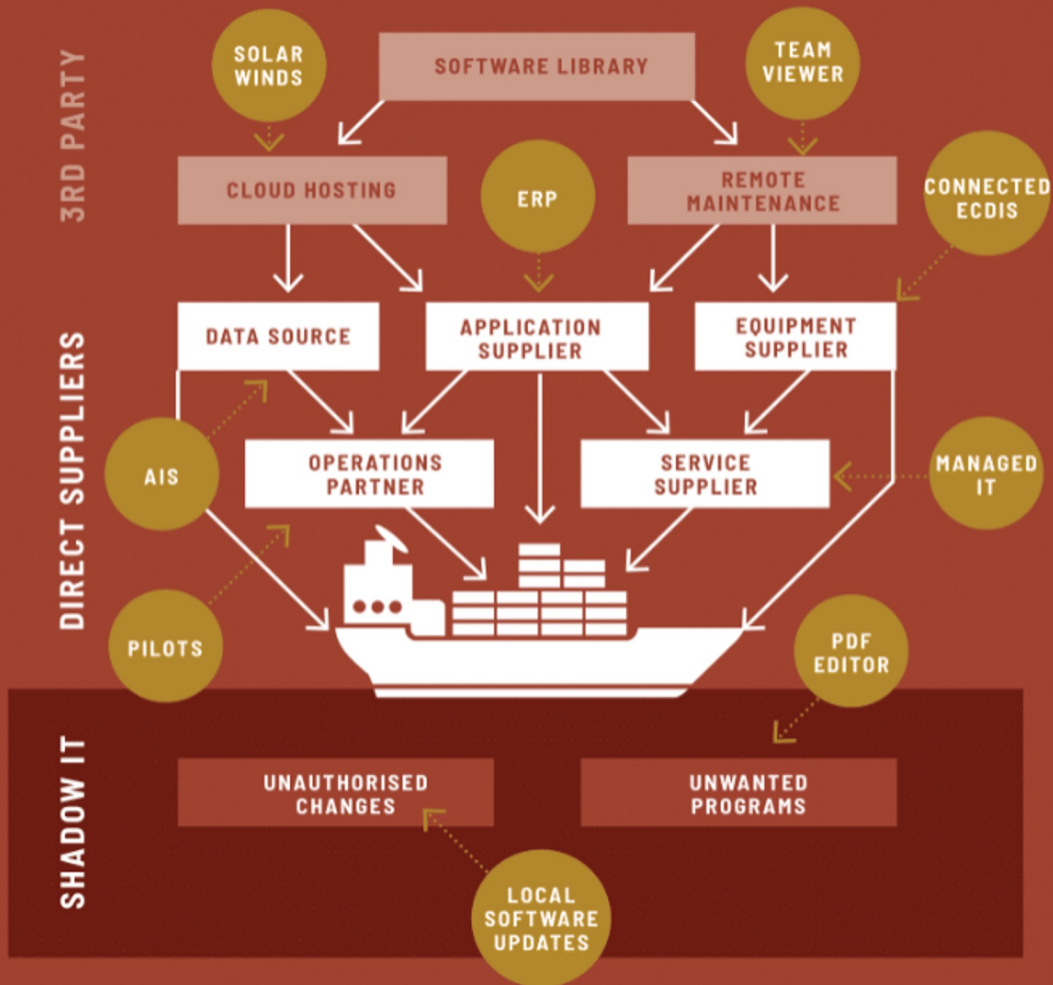
200 *shipping experts*

80 *fleets*

Data from vessels CyberOwl monitors

HFW | HFW CONSULTING | CYBEROWL | Thetius

The supply chain disconnect



50%+

ships have 40-180 connected devices

60%

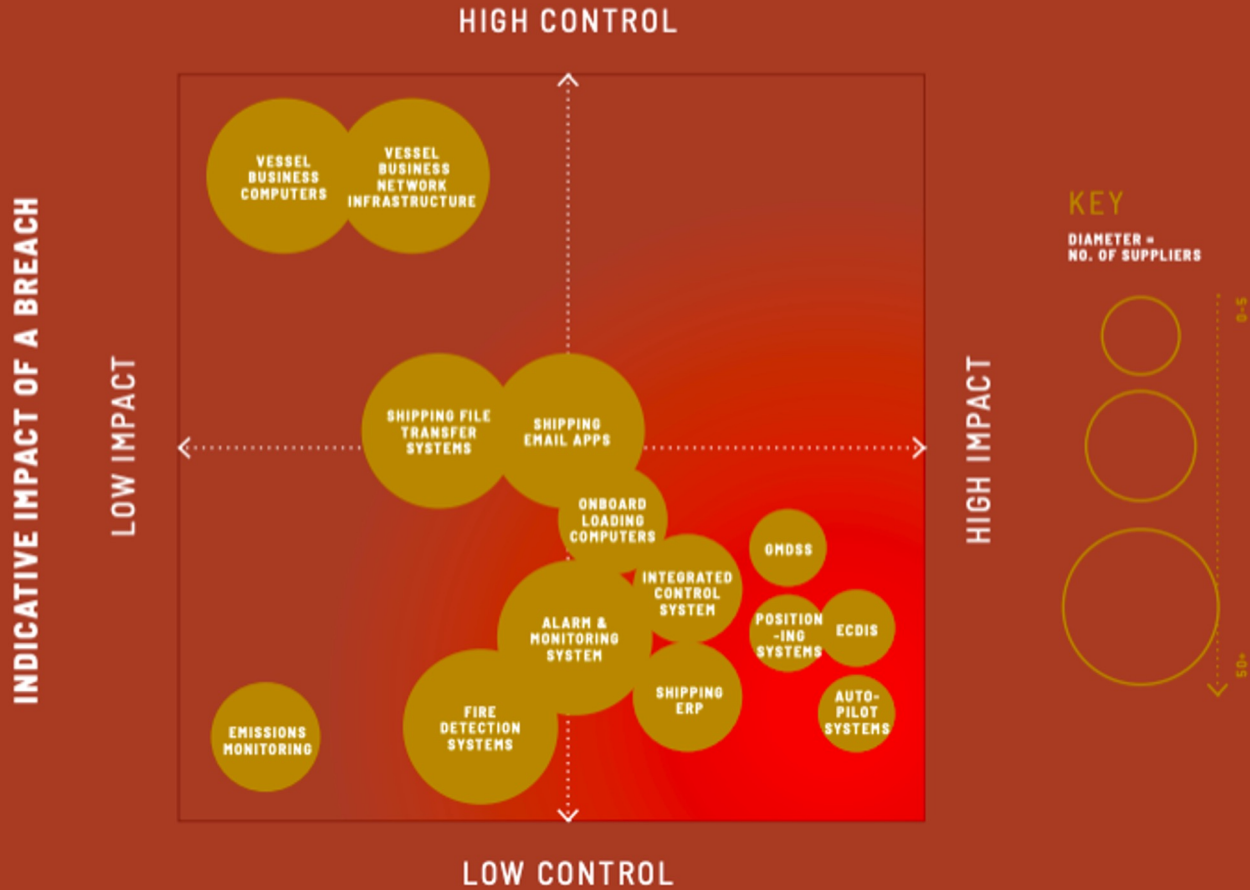
onboard computers have unapproved software

30%

fleets give full local admin rights to crew

SHIPOWNER'S CONTROL OVER SECURITY

(dependent on specific operations of vessel)



only

65%

*vessel systems suppliers
asked to prove cyber
risk management*

Vessels with at least one critical machine frequently:

Tethered:

8%

As hotspot:

16%

On wifi:

28%

Case study: Nation-state malware on a fleet of commercial vessels

- **8 vessels, 2 fleets, same malware**
- **Same strain on both IT and OT systems**
- **Malware provides actor full control of machine**
- **Main preventative control for OT systems was internet connectivity**

The risk disconnect

3% of cyber attacks resulted in the respondents' organisation paying a ransom.

**\$3.1
MILLION**

...Is the average ransom paid

only

34%

believe their shipping organisation has appropriate insurance in place to cover cyber attacks



54%

of shipping companies spend less than \$100K per year on cyber security management.

VS

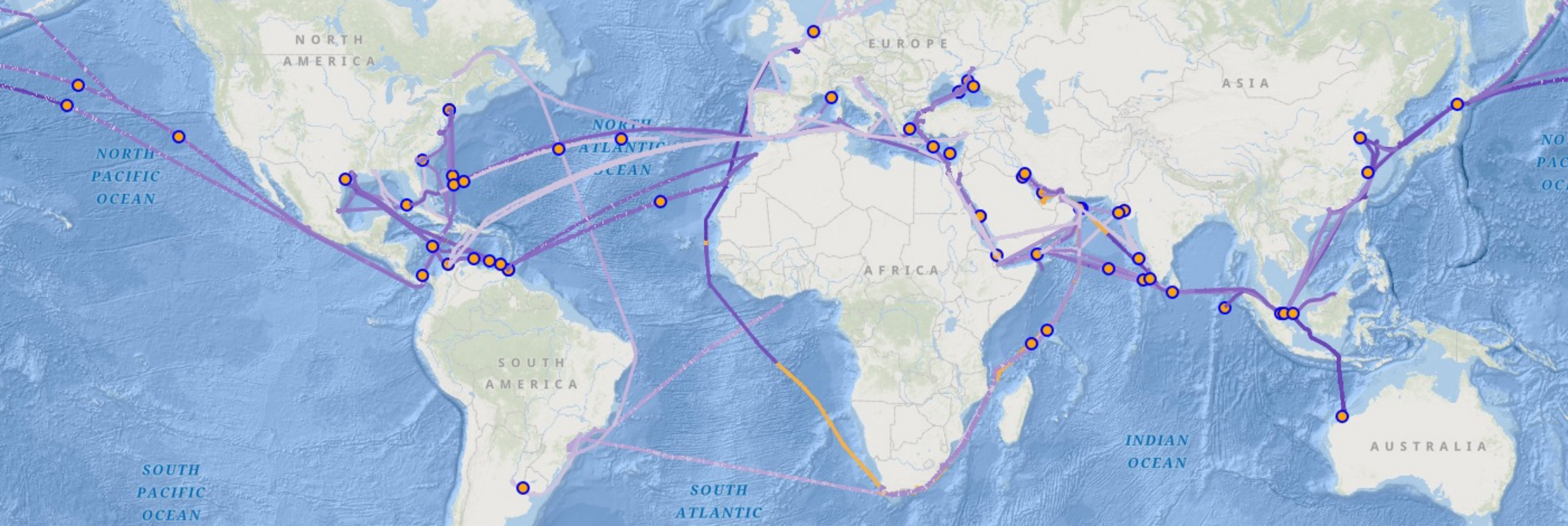
\$182,000

An average, cyber attacks cost ship operators \$182,000 per year.



For 1 in 12 ship operators (8%), the average cost of cyber attacks is:

**\$1.8MILLION
PER YEAR**



80%+

cyber incidents raised shortly after vessel leaves port

Recommendations to industry

1. Set up a dedicated cyber security directorate within fleet operations that covers both IT and OT security

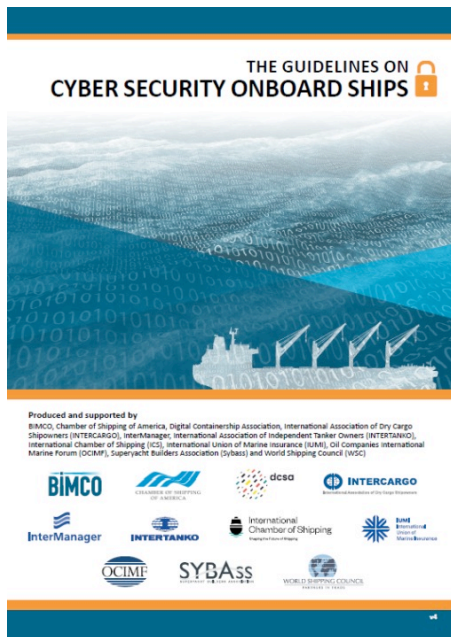
2. Implement a comprehensive cyber incident training and drill programme

3. Develop minimum security standards for suppliers and partners

4. Conduct an urgent review of insurance policies and seek legal guidance on ransom payments

Join the maritime cyber security ecosystem we develop and maintain

We helped write the guidance



We maintain one of the world's largest maritime cyber risk sharing communities

200+

Shipping IT Directors meeting monthly

We lead maritime industry bodies to drive industry collaboration



CyberOwl chairs the SSA Cybersecurity Subcommittee

We brief the insurers



Join our upcoming workshops



- 1** **Setting up a fleet SOC - "Cybersecurity operations on a shoestring budget"**
Thursday, 13 October 2022, 8.00 am BST
- 2** **Decisions under fire - Practical maritime cyber exercise**
Thursday, 10 November 2022, 8.00 am London Time
- 3** **"Weaponising" compliance - turning compliance from foe to friend**
Thursday, 1 December 2022, 8.00 am London Time

Register here





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