

CYBERPRISM



Digital Use Case - ShipGuard™ Vessel Security

Sector Commercial Shipping

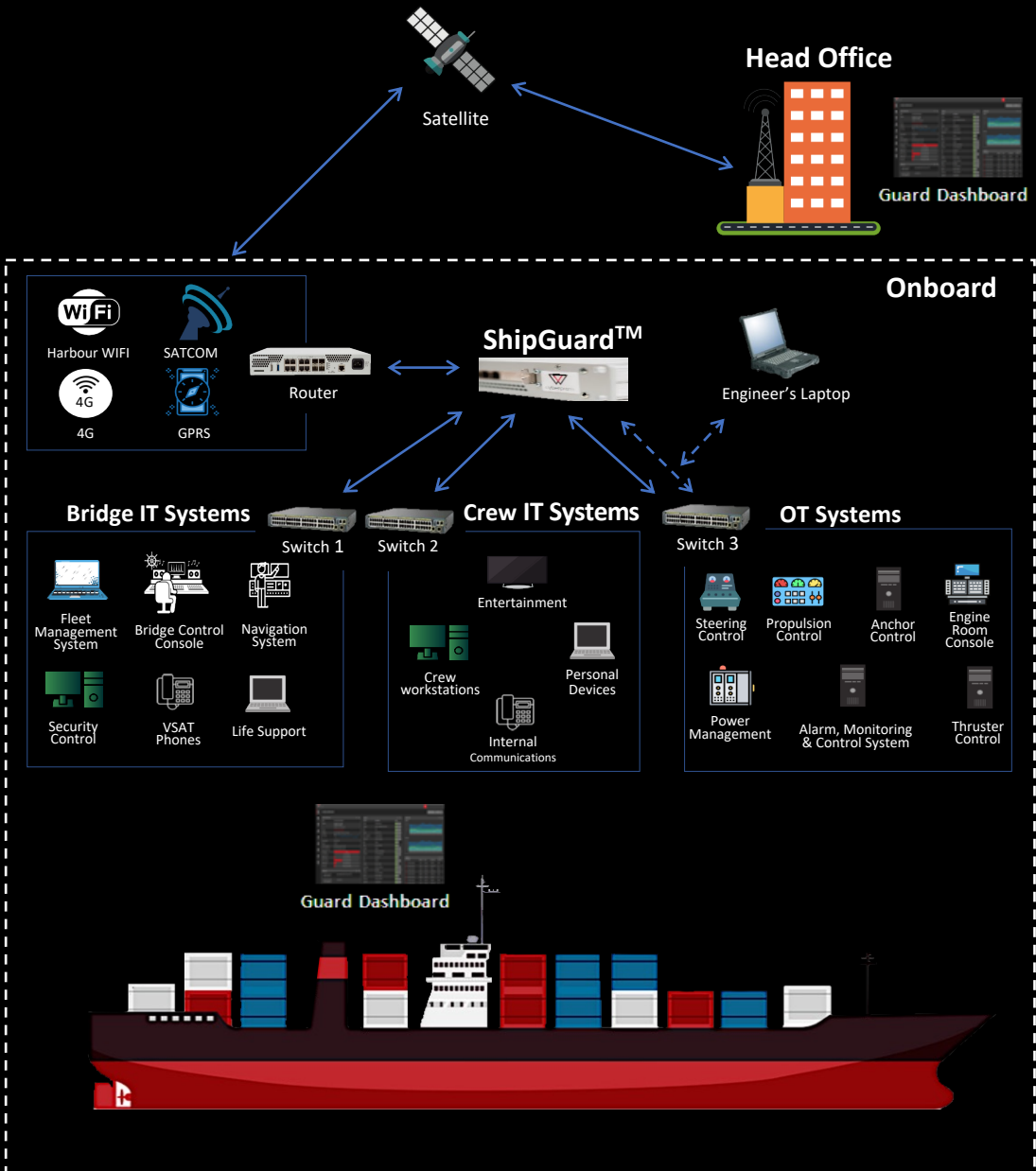
Situation Cyber security capability onboard is limited. Shipping companies need a technical cyber security solution which segregates a vessel from cyber-attack and other forms of intrusion without constant reference to the crew.

- Client Need**
- Actions in the event of an alert must be automatic in many cases - this will not just be a monitoring tool.
 - The crew interface must be both intuitive and bespoke to the user, allowing key personnel to understand what is going on and to take control when required.
 - Reach-back must be facilitated so that a higher level of expertise can be applied when needed.
 - Facilities to control internal access to IP addresses and bandwidth, external access by third parties, and to segregate key systems within the ship, are highly desirable.
 - The solution must support the IMO 2021 guidance and IEC 62443.

- Solution**
- CyberPrism's ShipGuard™ unit is a next generation segregation device and Unified Threat Manager (UTM).
 - In this deployment it is connected between the vessel's primary communications router and the network switches, where it conducts deep packet inspection of data entering and leaving the vessel, alerting and/or blocking traffic if it discovers anything potentially harmful.
 - The Captain also has the option to control bandwidth allocation and access to IP addresses by internal users through its traffic shaping capability.
 - ShipGuard™ can act as the single point of access for third parties such as maintenance engineers by controlling connectivity through the switches.
 - ShipGuard™ can segregate networks within the vessel – for instance protecting Operational Technology using our proprietary software which allows ShipGuard™ to operate safely with OT.
 - Legacy devices which no longer have a patch solution can also be protected.
 - A range of intuitive dashboards are supplied so that key personnel receive exactly the information they need.



Deployment



Services

Core Services

- ▷ Next Generation UTM/Firewall – including customised firewall functionality for the OT domain
- ▷ Application network management
- ▷ Traffic shaping
- ▷ Web and content filtering
- ▷ Network access control
- ▷ Remote access control
- ▷ Fully customisable dashboards

Optional Services

- ▷ Training: ShipGuard™ - specific plus cyber training for key personnel and crew
- ▷ Intrusion detection and protection
- ▷ Legacy device protection
- ▷ Network monitoring and alerts
- ▷ Incident response services
- ▷ Forensic data capture
- ▷ Passive IT/OT asset discovery

Benefits

Operational

- ▷ Vessels are protected without the need for onboard technical presence
- ▷ Malware can be prevented from entering the vessel rather than alerted after entry
- ▷ Cyber security controls are intuitive for the crew, which can take action to the limit of its ability
- ▷ OT is protected by a system that genuinely understands it
- ▷ CyberPrism's service supplies a very high level of cyber security expertise
- ▷ Additional capabilities can be hosted on a single platform

Financial

- ▷ Centralised expertise saves money on technical personnel
- ▷ Multifunctional device saves money on other solutions
- ▷ Subscription model smooths cash flow

