MARITIME CYBER RISK

ADDRESSING THE REAL AND CURRENT THREATS

CHAIRED BY
MALCOLM WARR, OBE, FCIPS
CHAIR, TRANZPARENCY GROUP

THE REMBRANDT HOTEL
LONDON, UK
30TH JUNE 2016, LONDON

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Maritime
Security
Review

Maritime Cyber Risk
Addressing the Real and current threats

About the Conference

Digital technology has had a significant impact on the maritime environment and with the growing trend for increased connectivity, automation and integrated technology, this is only set to continue.

As ships make decisions based on the integrity of the data they receive, the potential for a cyber attack to wreak colossal damage in the maritime industry cannot be understated.

As global think tanks seek to address the inevitability of more frequent and damaging cyber attacks on the maritime environment, the industry is lagging behind other economies in its preparedness to handle these dangers.

Following recent industry recommendations, this one day international conference on **'Maritime Cyber Risk – Addressing the Real and Current Threats'** will look at practical steps which those operating in the maritime environment can put in place today to better protect ship and crew should a vessel, port or platform be the victim of an attack.

FOR MORE INFORMATION

For enquiries regarding speaking, attending or promotional opportunities, please contact Caroline Fuller at
caroline@contegoevents.co.uk Tel +44 (0)797 4406 673
www.contego-events.com

WHO SHOULD ATTEND

This conference will be relevant to all Maritime and IT managers including;

- Ship owners, directors and officers with security responsibilities

- Chief information and technology officers and IT personnel

- Senior executives in information technology and communications (ICT)

- Information management and operations executives

- Third party suppliers providing:

  o Maritime data services

  o Navigation Systems and Equipment

  o Marine power management systems

  o Security technology

  o Ship/Shore communications and operations

  o Private maritime and corporate security consultants

  o Cyber security consultants

  o Risk consultants

  o Insurance and legal

The Venue

The Rembrandt Hotel
11 Thurloe Pl, London SW7 2RS
Phone: +44 (0)20 7589 8100
http://www.sarova-rembrandthotel.com

The Rembrandt is a historic hotel with a modern vibe in London's fashionable area of Knightsbridge and South Kensington. Located directly across from the Victoria and Albert Museum, and within a 5-minute walk of the Natural History and Science Museums, the hotel is surrounded by culture. Harrods and the famous Knightsbridge shopping district are also only a 5-minute stroll.

Directions
The Rembrandt's location in central London could not be better, whether you are travelling for business or leisure. You will be right between two of London's most fashionable areas – South Kensington and Knightsbridge.

To reach The Rembrandt Hotel by road...

Follow M4/A4 (Cromwell Road) into central London. The Rembrandt is on the right opposite the Victoria and Albert Museum.

If you're coming to The Rembrandt Hotel by rail…

Mainline rail: Victoria station is only 1 mile away

London Underground: South Kensington station is 750 metres away (Circle, District and Piccadilly lines) & Knightsbridge station is 850 metres away (Piccadilly line).

To reach The Tower Hotel from the airport…

The Heathrow Express runs every 15 minutes between Heathrow Airport and Paddington Station with a journey time of 15 minutes. From Paddington, a Circle or District line train will take you to South Kensington. Alternatively, the Piccadilly line runs straight from Heathrow Airport to South Kensington Tube Station, with a journey time of approximately one hour.

For Gatwick Airport, catch the Gatwick Express at Victoria Station. Trains run every 15 minutes with a journey time of 30 minutes. Victoria Station is just two stops away on the District and Circle lines from South Kensington.

Book a room

For delegates wishing to book accommodation at the conference venue, we have special room rates agreed of £154 + VAT including breakfast for an advance purchase Classic Room or £170 + VAT for an Executive room. **Please note that this rate will expire on 2nd June 2016 and all rooms are subject to availability.**

How to book:

Guests to make their own reservations, by calling Tel: +44 (0) 20 7589 8100 or email :
reservations_rembrandt@sarova.co.uk
and state you are a Maritime Cyber Risk delegate - quote promo code CONTEGO EVENTS in order to guarantee the group rate. Guests to check terms and conditions of booking direct with hotel.

The Rembrandt Hotel,
11 Thurloe Place, London SW7 2RS

Programme (subject to change)

30 June 2016

08.15 **Refreshments, registration and exhibition**
08.50 **Welcome from the Chair**
Malcolm Warr OBE, Chair, **TranZparency Group**

Session One: Acknowledging the risks

09.00 **Threats posed to the maritime cyber environment**
- Who threatens shipping and why?
- How do attackers gain information about a ship's network prior to an attack?
- What are the most successful techniques used by hackers to gain network access?
- Introducing viruses via remote system access
- The lack of inbuilt encryption and authentication codes in critical navigation systems
- AIS manipulation and fake ships
- Learning from other industries

Robert Pritchard, Associate Fellow, Cyber, **Royal United Services Institute**

09.30 *Keynote Address* - **Know your enemy-the unseen ever present threat**
Admiral The Right Honourable Lord West of Spithead GCB DSC PC ADC DUniv

09.55 **Cyber Security and the Road Ahead**
- How many successful cyber attacks is your organisation experiencing?
- Vulnerability of commonly used devices
- Risks posed by XP or Windows 2003 systems
- What factors currently hinder the regular maintenance and updating of vessels' electronic systems?
- Unavailability of trained staff
- Logistical difficulties
- Lack of awareness/concern
- Adding Cyber Security to the Risk Register

Dalitso Phiri, Principal Security Consultant, **Naval Digital Limited**

10.20 **Questions**
10.40 **Refreshment Break**

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Session Two: Demonstrations

11.05 Demonstrating Port Vulnerabilities Through Simulated Attack
- Threats to on-shore installations
- The rise of converged vulnerability
- What does a multifaceted cyber attack look like?
- Mapping key human vulnerability factors
- Worst fears?

Dan Solomon, Director - Cyber Security Services, **Optimal Risk**

11.45 BYOD and the Impact on Safety and Cyber Security
- A realtime demonstration of how data can be collected and users can be hacked, even in a safe environment
- Creating a spoof wifi and harvesting the data collected, in the way that networks onboard can be attacked

Ewan Robinson, Director, **Yango Satellite Communications Ltd**

12.10 PANEL SESSION
Tackling the ability of cyber criminals to keep ahead of security developments
- Discussion around issues arising from demonstrations
- What can be done about the legality (in many countries) and affordability of jamming devices which can interfere with GPS reception and the ease with which malware can be purchased to disrupt ships' navigation systems

Brendan Saunders, Principal Security Consultant, **NCC Group**

Guy Buesnel, Market Segment Manager – Robust Positioning, **Navigation and Timing, Spirent Communications**

Session Three: Enterprise Risk

12.40 The State of Enterprise Resilience in the Maritime Environment
- Translating the threat: the important "so what?" analysis
- The impact of political instability
- Governance and ownership: the importance of senior level responsibility
- The role of business continuity and crisis management
- Recognising the weak links within your network and supply chain
- Understanding the risks posed by third party supplier companies who work with ship owner data
- Analysing your culture of interacting with suppliers who handle ship owner data and determining 'at risk' behaviour'

Andy Cox, Associate Director, Crisis Security Consulting, **Control Risks**

13.05 Questions
13.10 Lunch

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Session Four: Educating Crew

14.10   **Risks posed by the human factor**
- Most common cyber security violations by crew
- To what extent is there an endemic lack of security awareness and protocol among ship and crew?
- Tackling onboard complacency around online behaviour
- What does good look like in terms of the security protocols which should be taught to crew?

Howard Brown, Managing Director, **Templar Global Services**

14.35   **PANEL SESSION - Incentivising cyber security vigilance among crew**
- The impact of social media on isolated crew
- To what extent is there a lack of technical staff on board vessels who could spot and fix a breach or repair a vital system after failure?

Rear Admiral Nick Lambert
Simon Frank, Head of Marine HR, **TORM**
Howard Brown, Managing Director, **Templar Global Services**
Steven Jones FRSA, Consultant, **KVH Media Group**

Session Five: Guidelines

15.00   **The Position of the Shipping Industry**
- Why guidelines and not regulation?

Giles Noakes, Chief Maritime Security Officer, **BIMCO**

15.20   **Questions**
15.25   **Refreshment Break**

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Session Six: Legal Liability

15.50 **PANEL SESSION Increased legal and regulatory risks applicable to the maritime industry**
- What ramifications does the EU General Data Protection Regulation have for the maritime industry?
- The scope and application of the proposed Network and Information Security Directive
- The impact of an increased frequency and severity of data privacy litigation in a range of jurisdictions
- The Implications of Institute Cyber Attack Exclusion Clause (CL380)
- To what extent are vessels unseaworthy if they leave port with an undetected virus/malware on their systems
- What first party liability losses could potentially result from malware?
- Liability for loss or damage caused by ships involved in oil and gas exploration
- Implications for passenger carriers and infected passenger devices
- Handling reputational damage following a cyber attack

Moderated by **Jonathan Lux,** Mediator, Arbitrator and Barrister, **Stone Chambers**
   Elinor Dautlich, Partner, **Holman Fenwick Willan**
   Philip Roche, Partner, **Norton Rose Fulbright LLP**
   Ffion Flockhart, Partner, **Norton Rose Fulbright LLP**

Session Seven: Open Dialogue

17.00 **PANEL SESSION: A discussion around the factors which will trigger a more open dialogue and disclosure of cyber attacks within the maritime industry**
- Lack of incentive for private companies to disclose breaches
- The potential for serious economic and reputational damage caused by a maritime cyber attack
- The impact of front page headlines of a major maritime cyber attack
- Increased criminality in the maritime sector
- Environmental damage caused by a cyber attack in the maritime environment
- Loss of human life resulting from cyber triggers
- Will regulatory enforcement at some point require full disclosure of breaches?
   Rear Admiral Nick Lambert
   Sharif Gardner, Cyber Training Lead, **PGI**

17.30 **Chair' summing up**
   Malcolm Warr OBE, Chair, **TranZparency Group**

17.40 **Close of conference**

REGISTRATION FORM

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Complete all relevant sections of this form and either:
Email: **bookings@contegoevents.com**
Or register online at **www.regonline.com/maritimecyberrisk**

Title _____

Name _____

Position _____

Organisation _____

Address _____

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Email _____

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Fax _____

Additional requirements - please describe them here

_____

☐ **Delegate Rate** : £385 + VAT = **£462**

Fees include access to full event, available conference papers, lunch and refreshments

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_____

☐ Cheque   I enclose a cheque made payable to Contego Events Ltd.

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