Security Awareness in Ports

SECURITY THROUGH COMMUNITY
30 Years: Ports and Shipping
It is more than just technology

Develop Culture & Buy In

Vision, Data Collection

Infrastructure, Dashboards
CSO Alliance – Security Through Community

Membership... growing over 700 CSOs in 40 Countries
35 workshops throughout the world

One day saved.. equivalent to 20 years membership cost
The need for CSO Alliance

We track and verify all maritime crime – since Jan 2013

80 countries report active maritime criminals:

2009 Merchant Marine ships attacked
1116 ships successfully boarded

55% boarding success rate
Impacting on 20,000 seafarers

WAF - IMB estimates: 63% of crime is not reported

Trust 20% more crime than reporting centers

There is work to be done
Overcoming disincentives to report crime

Reputation Loss

Investigation Increased paperwork

Security Culture Lack of understanding

Intimidation Legal action

Fines Operational Delay Increased insurance

We need a culture change to break the established cycle and build trust
CSOs & PFSOs at the ‘e-hub’ of Intelligence

Online Security
Process Efficiency

CSO’s & PFSO’s

Third Party Suppliers

Ports

Class

Industry Associations
ICS/OCIMF/BIMCO etc

Govt. & Military

IMO & Flag State

Insurance
War/Hull/P&I etc
Our delivery – Tailored to PFSO need

Verification & Geolocation of all crime

Generates detailed report

Which Drives Statistics

Direct Access to Military & regional reporting centers

Enables better risk assessment
Our delivery – Tailored to PFSO need

Updated News and Alerts

Maritime News & Views

S. Korean Navy joins anti-piracy drill in Gulf of Aden

Piracy in Africa worries Nigeria Navy
The Nigeria Navy has called for regional and inter-regional collaboration among West and Central African countries to reduce piracy.

Policing the high seas
The Gulf of Guinea, a large area of the West African coastline from Gabon to Côte d’Ivoire — has become the new hotspot for piracy.

Eight Tug Crewmembers Kidnapped Off Nigeria
On Wednesday morning, pirates boarded an unmanned ‘offshore tug’ in the Gulf of Guinea and kidnapped eight crew members.

EU calls for renewed efforts to battle resurgent piracy off Somalia
The resurgent piracy attacks off the vast Somali coastline is a result of the growing insecurity in the Horn of Africa region, which

Stay informed with confidence in confidence
Our delivery – Tailored to PFSO need

Powerful Search engine

Groups for deeper learning

Chatter – on any subject

CSOs and CISOs are no longer alone
Fusion of multiple data & information feeds

CSO requested tools

Analysis and Regulatory

Route risk planning

Tools and Services

Port data

Port features and risk data

Country risk Profiles
Why share information?

PFSO & CSO are under the same pressure – consequence for failure

Well resourced and innovative Criminals
Management to secure resources
Threat of Black List
Increasing security cost and risk assessments
Develop and maintain Best Practice
These issues are representative of all crime reporting

ISPS failed For both Port & Ship

IMO don’t receive reports 7.5 years only 1,700 reports
2016 x only 37 reports from 6 agencies

The Only reliable Data International Group every 3 years

<table>
<thead>
<tr>
<th>Year</th>
<th>Incidents</th>
<th>Stowaways</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007/8</td>
<td>842</td>
<td>1,955</td>
<td>$14.3 mil</td>
</tr>
<tr>
<td>2011/2</td>
<td>774</td>
<td>1,640</td>
<td>$15.5 mil</td>
</tr>
<tr>
<td>2014/15</td>
<td>Est. 500</td>
<td>Est. 1,275</td>
<td>Est. $9.25 mil</td>
</tr>
<tr>
<td>7 yrs</td>
<td>Est. 3,000</td>
<td>Est. 11,000</td>
<td>Est. $90.0 mil</td>
</tr>
</tbody>
</table>
### Stowaways – The Impact

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>It is an evolving threat</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Impact on New areas</strong></td>
<td>Calais, Bilbao etc</td>
</tr>
<tr>
<td><strong>Impact on Owners</strong></td>
<td>Below Deductible $25-$50,000? Costs are not always reported</td>
</tr>
<tr>
<td><strong>Impact of Crews</strong></td>
<td>Fed, 24/7 Guarded, Clothed, Unstable minds and health</td>
</tr>
<tr>
<td></td>
<td>Crew stress: 3 days/weeks/months</td>
</tr>
<tr>
<td></td>
<td>Est 60,000 crew effected in 7+ years</td>
</tr>
<tr>
<td><strong>Impact on Port</strong></td>
<td>Cost and reputation</td>
</tr>
</tbody>
</table>
Stowaways - Improving the Reporting

Marshall Island – Supporting this project

‘Place of boarding should include port, port facility number, berth and terminal information’

1. Vital to Geolocate Crime
2. Build data set (historic)
3. Share with PFSOs
4. Share with CSOs
5. Share with IMO GISIS
Stowaways - Improving the Reporting

IMO Stowaway Workshop, Ghana 20-22 March 2018

Nine African Ports & Industry partners

- Significant investment - Millions $
- Professional progress - Stowaways reduced
- A passion for fighting crime - Develop Best Practice
- All keen to share with CSOs - Build trust & confidence
Stowaways : Improving the Reporting

API to IMO GISIS  Tailor the data and direct feed via API to GISIS

Stowaway incidents

According to FAL 2/Circ.50/Rev.3, Member Governments and international organizations are invited to provide the Organization with:

- statistical data on stowaway incidents; and
- information on experience gained with the provisions of FAL Convention, section 4, and Resolution FAL.11(37), and the measures taken and obstacles encountered with their implementation.

Filter incidents

<table>
<thead>
<tr>
<th>Reporting authority</th>
<th>Place(s) of embarkation</th>
<th>Ship particulars</th>
<th>Embarkation date</th>
<th>Total number of stowaways</th>
<th>Stowaways by nationality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marshall Islands</td>
<td>Durban, South Africa (ZADUR)</td>
<td>MADISON EAGLE (IMO 9575278)</td>
<td>2018-05-16</td>
<td>3</td>
<td>South Africa (3)</td>
</tr>
<tr>
<td>Argentina</td>
<td>Douala, Cameroon (CMDLA)</td>
<td>SAM PANTHER (IMO 9457952)</td>
<td>2018-05-02</td>
<td>3</td>
<td>Cameroon (3)</td>
</tr>
<tr>
<td>Ukraine</td>
<td>Unknown, Unknown</td>
<td>AS ROSALIA (IMO 9449845)</td>
<td>2017-01-01</td>
<td>1</td>
<td>Morocco (1)</td>
</tr>
<tr>
<td>Ukraine</td>
<td>Unknown, Unknown</td>
<td>AS ROSALIA (IMO 9449845)</td>
<td>2017-01-01</td>
<td>1</td>
<td>Unknown (1)</td>
</tr>
<tr>
<td>Ukraine</td>
<td>Lagos, Nigeria (NGLOS)</td>
<td>BAR (IMO 9693496)</td>
<td>2016-10-13</td>
<td>1</td>
<td>Liberia (1)</td>
</tr>
<tr>
<td>Ukraine</td>
<td>Conakry, Guinea (GNCKY)</td>
<td>MELOS (IMO 9347889)</td>
<td>2015-10-08</td>
<td>1</td>
<td>Guinea (1)</td>
</tr>
<tr>
<td>Ukraine</td>
<td>Dakar, Senegal (SNDRK)</td>
<td>VOLA 1 (IMO 9044700)</td>
<td>2015-09-16</td>
<td>1</td>
<td>Côte d’Ivoire (1)</td>
</tr>
<tr>
<td>Ukraine</td>
<td>Conakry, Guinea (GNCKY)</td>
<td>FIRST BROTHER (IMO 9266140)</td>
<td>2015-09-23</td>
<td>1</td>
<td>Uruguay (1)</td>
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<tr>
<td>Ukraine</td>
<td>Unknown, Unknown</td>
<td>MANNA (IMO 9304100)</td>
<td>2015-01-01</td>
<td>2</td>
<td>Syrian Arab Republic (2)</td>
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<tr>
<td>Ukraine</td>
<td>Conakry, Guinea (GNCKY)</td>
<td>GENC O ARDENNES (IMO 9490636)</td>
<td>2015-01-01</td>
<td>1</td>
<td>Guinea (1)</td>
</tr>
</tbody>
</table>

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Member Alliances: Improving the reporting

We work as one...

We share....
PFSO Alliance: Improving the Reporting

A more secure port community linking PFSOs to share stowaway and crime tactics and information
Captain/SSO: Improving the Reporting

Developing a portal to bring crew and crime data directly into the fight against crime

Two way information flow to support crews

A clear focus on stowaways - a $15 mil pa issue
## Industry Support: Driving the Reporting

### We mobilise...

**Marine Industry**
- Owners, Managers, Ports and Shipping Associations
- P&I, H&M and Reinsurers

**Flag And Regulators**
- National and Open Registries

**Class**
- Societies and Trade Associations

**Industrialists**
- Manufacturers, Shipyards and Service Providers
- Cadet Schools

**Training**
- Agencies and training institutions

### Access and contact with 60 Industry bodies to join.....

<table>
<thead>
<tr>
<th>Flag State &amp; Institutions</th>
<th>P&amp;I and insurer</th>
<th>Classification Societies</th>
<th>Industry</th>
<th>Military &amp; NGO</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMO</td>
<td>The North of England P&amp;I</td>
<td>DNV-GL</td>
<td>BIMCO</td>
<td>EUNAVFOR</td>
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<tr>
<td>Marshall Islands</td>
<td>American</td>
<td>American Bureau of Shipping</td>
<td>Airbus Defence and Space</td>
<td>NATO</td>
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<tr>
<td>Panama</td>
<td>Swedish Club</td>
<td>Indian Registry</td>
<td>International Chamber of shipping</td>
<td>UKMTO</td>
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<tr>
<td>Liberia</td>
<td>UK P&amp;I</td>
<td>Bureau Veritas</td>
<td>Intertanko (Tanker Owners)</td>
<td>CMF</td>
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<tr>
<td>Hong Kong</td>
<td>Skuld</td>
<td>China Classification Society</td>
<td>Intercargo (dry Cargo)</td>
<td>MDAT-GoG</td>
</tr>
<tr>
<td>Singapore</td>
<td>Steamship Mutual</td>
<td>Korean Registry</td>
<td>OCIMF (oil Majors)</td>
<td>ReCAAP</td>
</tr>
<tr>
<td>Malta</td>
<td>Gard</td>
<td>Lloyds Register</td>
<td>Nautical Institute</td>
<td>IMB</td>
</tr>
<tr>
<td>Bahamas</td>
<td>London P&amp;I</td>
<td>Class NK</td>
<td>IPTA</td>
<td>MARLO</td>
</tr>
<tr>
<td>Greece</td>
<td>West of England</td>
<td>Polish Register</td>
<td>Intermanager</td>
<td>US Coast Guard</td>
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<tr>
<td>Cyprus</td>
<td>Ship Owners</td>
<td>RINA</td>
<td>CLIA</td>
<td>Interpol</td>
</tr>
<tr>
<td>IALA</td>
<td>The Standard</td>
<td>Russian Maritime Register</td>
<td>World Shipping Council</td>
<td>Int. Fusion Center Singapore</td>
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<tr>
<td>Japan P&amp;I</td>
<td></td>
<td>IACS</td>
<td>Nautilus</td>
<td></td>
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<td>Britannia</td>
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<td>IFSMA</td>
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<td>Munich Re</td>
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<td>CIRM</td>
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<td>IGPANDI</td>
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<td>FONASBA</td>
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**Don’t be the next isolated victim, help us fight back**
Building Security Awareness

IMO
INTERNATIONAL MARITIME ORGANIZATION

Model Course 3.21 Port Facility Security Officer
3.24 Security Awareness Training for Port Facility Personnel with Designated Security Duties
3.25 Security Awareness Training for all Port Personnel

US Coastguard International Port Facility Programme

Share security best practice
Case studies: Incidents
Lessons learned
Security Awareness - Your PFSO Alliance

- Jointly Assess Risk
- Share ideas, debate policy
- Case studies
- Scenarios for training exercise
- Statistics
- Benchmark
- Online training
- 24/7 Access
- Real Time Data
- Link PFSO – CSO – Crew
- Open Source Intel
Reporting – It works

Cyber Incident in United Kingdom
Thursday May 25th 2017 00:00
Malware loaded by crew USB, 2 days delay for full IT recovery IMO-9977041

More information >>

AIRBUS
Making Industrial muscle, Infrastructure, and global support available
Mark,

Last week we intercepted a **clear targeted attempt to compromise our fleets IT systems**. Individually targeted and addressed emails were sent from a spoofed email address trying to get the ships to click on a link which would lead them to a compromised website.

My question is would you like me to put this on the site? I have a copy of the email as well, which I can upload, but clearly its links are to a hot site and I don’t want to put anyone else at risk.

Best Regards

HSE Manager
1st Cyber Incident from a ship


title: 1st Cyber Incident from a ship

Context
Date: 2018-04-09
Time: 12:00
Location of crime: Jakarta, Indonesia

Vulnerability
Malicious software hacked navigation equipment

Impact
Severity of attack: Uncomfortable
Consequence of attack: Need to call for outside technical assistance
Estimated cost: +40000 dollar

This report has been validated by V-ID
The anonymous incident report below was officially included in the blockchain, in the presence of representatives of MCA and V-ID, to ensure that the content of the report is unaltered and exactly as originally published.
Proven Platforms – ‘Security through Community’

csoalliance.com

maritimecyberalliance.com

Supporting MCERT Singapore

Fast relevant & actionable information.

Secure access to shared experience
Join us to build your PFSO Alliance

**PFSOALLIANCE.COM**
SECURITY THROUGH COMMUNITY

A global, members only risk management platform for all shipping sectors to drive best practice and combat organised crime.

**CONNECTING PFSOs**
- Vetted PFSO online community
- Secure information exchange between PFSOs
- PFSO workshops to drive development

**CONFIRMING CRIME**
- Vetted, geolocated report and imagery
- Enriched information and insight from partners
- Global military and government liaison

**COMMUNICATING ISSUES**
Unique, interactive communication tools, PFSO Chatter, Forums to assist learning
- Webinars to develop conversation

**COLLABORATING GLOBALLY**
- Leasing ports, berths and terminals around the world
- Industry support accelerating innovation
- Ready access to approved preferred suppliers

**TO JOIN THE COMMUNITY**
We welcome you to develop the portal, we listen to PFSO feedback, to develop new features and improve the user experience.

**INDUSTRY SUPPORTERS COMMITTED TO HELPING PFSOs**
The delivery is shaped and content enriched by growing support from leading industry associations, Flag State, P&I and Classification Societies.

**SUPERYACHT-ALLIANCE.COM**

**CONNECTING YACHTS**
- Vetted online community
- Evolving professional cadre of security officers
- Workshops to drive innovation agenda

**COMMUNICATING ISSUES**
- Unique interactive tools to drive communication
- Yacht Chatter, Forums to assist learning
- Webinars to develop conversation

**DELIVERING A SECURE ANONYMOUS, GLOBAL CYBER INCIDENT & CRIME REPORTING PORTAL**

**INDUSTRY SUPPORTERS COMMITTED TO HELPING**
The delivery is shaped and content enriched by growing support from leading industry associations, Flag State, P&I and Classification Societies.

For further information contact us
CSO Alliance, The Mill, Quainton Road, Waddesdon, Buckinghamshire, HP18 0EL, UK
+ 44 (0)1296 325 700 info@csoalliance.com
www.pfsomartimie.com

We are looking for champions to join ready for a launch in January 2017
Every day we listen to Yacht feedback, to develop new features and improve the user experience.
+ 44 (0)1296 325 700 info@superyacht-alliance.com
www.superyacht-alliance.com
The Benefits: ‘Security through Community’

- Inspire voluntary reporting
- Create real time data for risk assessments
- Security of exchanged information
- Rapid alerts to responsible employees
- Support IMO. Flag State and Port reporting
- Develop and share best practice

If we don’t, criminals will thrive on our disorganisation
Contact Us

CSO Alliance

info@csoalliance.com

00 44 (0) 1296 325700

The Mill, Quainton Road, Waddesdon, Buckinghamshire, HP18 0LP, UK

Thank you & Questions