CONTAINERISATION Theft, Fraud & Vulnerability

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Containers - How safe are they?

- Theory of Container Security
- International Developments
- How to Steal from Containers
- Container Seals
- Smart Boxes & Technological Advances





Container shipping singled out as terrorist threat singled out as terrorist threat singled sector, remains wide open to the terrorist threat. Master under Vote one Master unde

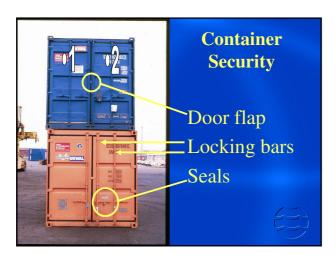
of bombs, according the American security experts. A report from the Europea branch of Rand, part of the California-based Rand Corporation, suggests that "the potential threat of terrorist using containers poses a large risk to our economies and the our societies". Air security has been tightness dince September II, but the report says that "the marine sector, and specific the sector and specific the marine sector, and specific the sector and specific the se

action the sect as a said as call and accident watung to happer traise awareness." According to the report, there are few checks on the movement o containers, which could easily be used to hide a nucleadevice. Many of the world's container ports are near cities. The containers change

The container ports are near cities
The containers change
hands repeatedly during tranportation, but the freighters
often rely only on documents,
which can easily be falsified.
The real origin of the

The ripo also con uded that that it th

X-ray equipment is used in Britain and in some America ports, originally to preven arms and drug-smuggling British Customs officers also introducing devices that will detect the presence of adjacative material.



Cannot be taken apart and
rebuilt.
• Free of joints or marks that may
disguise tampering.
• Resistant to manipulation,
cutting or adhesion.
• Unique identifying marks and
numbers.

Therefore you cannot open a container without:
Leaving visible traces of tampering or

Breaking the container seal

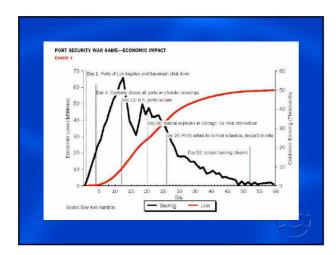






"the container is the potential 'Trojan Horse' of the 21st Century"

Commissioner Robert P Bonner CBP Trade Symposium Washington DC January 2005













ISPS Code

- Shipper
- Loader/CFS
- Truck
- Port
- Ship
- Port
- Truck
- Consignee



International Developments

ISPS Code (International Ship & Port Facility Security Code) 2004

Minimum security arrangements for ships, ports and government agencies. It prescribes responsibilities to governments, shipping companies, shipboard personnel, and port/facility personnel to "detect security threats and take preventative measures against security incidents affecting ships or port facilities used in international trade."

ISPS Code/CSI

- Shipper
- Loader/CFS
- Truck
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International Developments

CSI (Container Security Initiative) Focus on the government sector. (2002)

CSI is a multinational initiative that protects the main method of global trade — containerized shipping.

Mission is to target and pre-screen containers and to develop additional investigative leads related to the terrorist threat to cargo destined to the United States.

CSI (Container Security Initiative) Continued......

- Port must have a minimum security standard.
- 24 hour advance BL rule.
- Commit to share intelligence with US CBP.
- Host nation must permit CBP personnel into their ports.
- Currently 86 % of all containers imported into the US are subjected to prescreening.



However.....

- Only 'high risk' cargoes are actively screened i.e. physically inspected
- 2012 11.5 million container imports into US. 31,000 every day. Only 100,000 are physically inspected – under 1%
- DHS missed July 2012 deadline for 100% screening. Extended by two years
- Reliance on intelligence gathering and analysis to indentify high risk containers
- Other limitations



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US GAO Report Sept 2013

- Ports not risk assessed since 2005
- 27 out of 50 riskiest ports are CSI
- Host nation cooperation
- 100% inspection = USD 16 billion infrastructure investment (1/3 DHS annual budget)

ISPS Code/CSI/C-TPAT

- Shipper
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International Developments

C-TPAT (Customs-Trade Partnership against Terrorism) Focus on the private sector.

C-TPAT is a voluntary government-business initiative to build cooperative relationships that strengthen and improve overall international supply chain and US border security.

Impact on all elements of the supply-chain with over 11,000 companies registered with US CBP.

Authorised Economic Operator

- Introduced June 2005 by World Customs Organisation.
- Part of WCO Framework of Standards to Secure and Facilitate Global Trade (SAFE).
- Similar to C-TPAT but "on request of the Customs administration of the receiving nation, the customs administration of the sending nation will perform an outbound inspection of high-risk containers and cargo."

Container Control Programme

CCP developed by UNODC & WCO in 2003

"to enhance port surveillance in developing countries to minimize the risk of maritime containers being exploited and used for illicit drug trafficking, transnational organized crime and other forms of fraudulent activity."



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What is CCP?

- 2014 500 million movements p.a.
- UNODC only 2% inspected in any manner
- Joint Operations Enforcement Authorities at ports of Origin, Transit & Destination
- Inter-Agency Port Control Units (PCUs)
 - Different law enforcement agencies Customs, police, etc
 - Trained to target high risk containers
 - Seeks to promote interaction & teamwork necessary, for effective interdiction

COD			C 11		
CCPC	merates	1n	TOL	OW1ng	countries
	peraces		TOIL	o wing	Counting

Latin America and the Caribbean:

Costa-Rica, Ecuador, Guatemala, Jamaica, Panama & Paraguay

East Africa:

Kenya and Tanzania

North Africa:

Algeria and Morocco

West Africa:

Benin, Cape Verde, Ghana, Mali, Nigeria, Senegal, Togo

Central Asia/ECO Countries:

Afghanistan, Azerbaijan, Georgia, I.R. Iran, Kazakhstan, Pakistan, Turkmenistan

CCP Global Results - 2012

Mar 2006 – Jun 2011 (27 PCUs)	Seizure Type	2012 (41 PCUs)
40 tons	Cocaine	11 tons
31 tons	Cannabis	17 tons
770 tons	Precursor Chemicals	434 tons



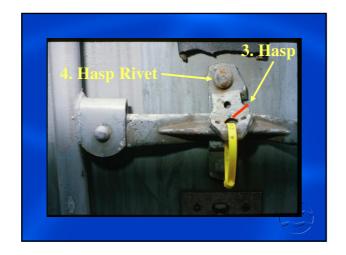
Ship & Port Operations

- Operations run 24/7
- Multi-dimensional & always in flux
- Difficult to control (Law Enforcement)
- Operated by private organisations
- Ports are not storage facilities
- Ships must keep moving (Load-and-Go)
- Must make money
- Attractive to criminal organisations



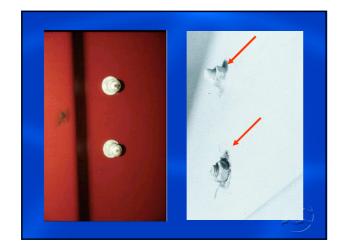


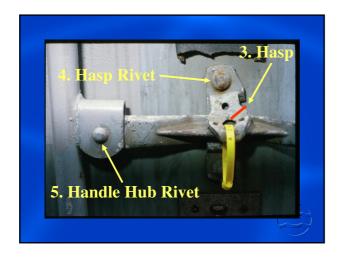










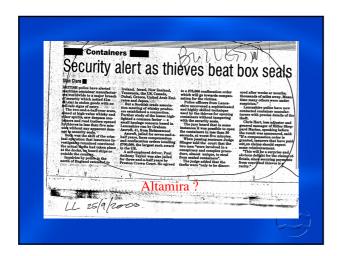




















Vulnerability of Container Seals

- Pre-tampering
- Manipulation
- Physical force
- Falsification
- Superglue
- Heat



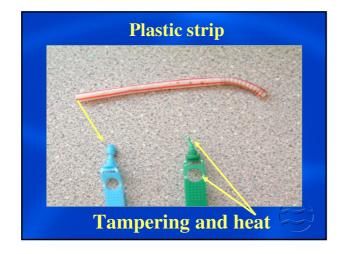
"All bolt seals, including our own, can be circumvented.

All bolt seals fail to secure the container door from easy access by even the most novice cargo thieves!"

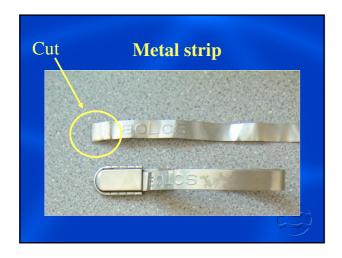
CGM Security Solutions Inc.



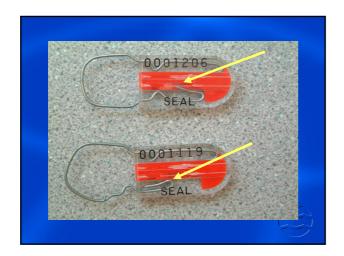


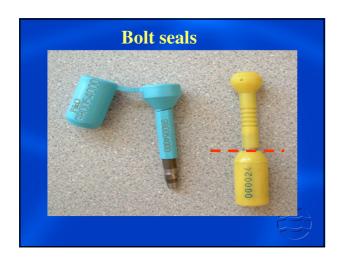






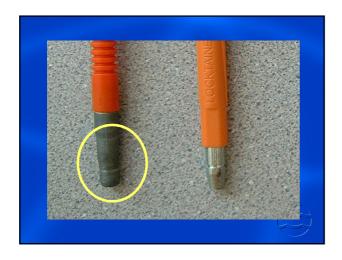
























25 May 2005

US CBP C-TPAT

Container and physical security requirements – ISO 17712 Standard



Tamper Evident Secure Container (TESC)

- General Electric / China International Marine Containers
- New generation container with built in TESC device
- Pilot Project Oct Dec 2004 monitored by Unisys
- 18 Containers China to USA
- All 15 security breaches successfully identified



Tamper Evident Secure Container (TESC) Crewquiner 100 Crewqu

Tamper Proof Container Systems (TPCS)

- Recognised by C-TPAT and AEO and other national customs authorities.
- Containers lined with a fabric which acts as a detection sensor. If breeched, a signal is relayed to a Data Management Centre in minutes.
- Allows for continuous monitoring.



Tamper Proof Container Systems Continued......



100% Scanning?

- 100% inspection of all US inbound cargo containers
- Huge investment required \$16bn
- Secure Freight Initiative (SFI) Pilot
- US currently at 1%
- HMRC 1.7%



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THANK YOU ...

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