

Introduction to Homeland Security

Chapter 7

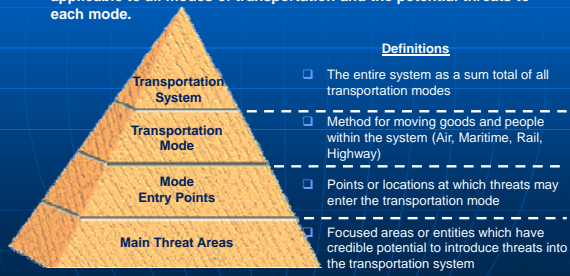
Transportation Safety & Security

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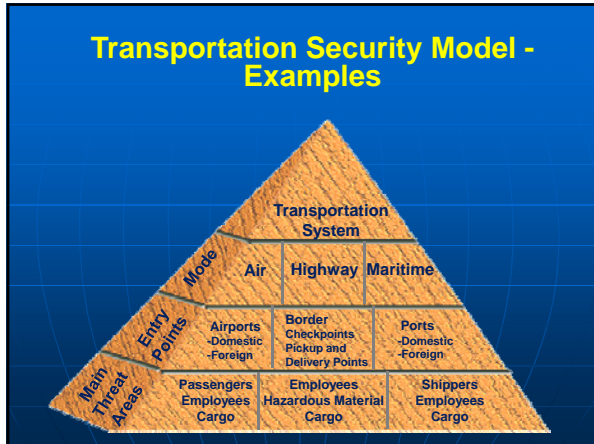
- Transportation: the movement of things or people from one location to another
- Historically, the US has relied on the private sector for both the transportation network and the network's safety and security
- The 9/11 events illustrated the vulnerabilities of our systems and required a change to past approaches

Transportation Security Model

The model was designed around a basic transportation process applicable to all modes of transportation and the potential threats to each mode.



Transportation Security Model - Examples



Transportation Network

- Freight Rail
- Highways, Roadways, and Motor Carrier Networks
- Ports and Intermodal Freight Transport
- Mass Transit
- Pipeline Security
- Air Freight
- Commercial and General Aviation

Transportation Security Administration (TSA)



- Created as a result of the Aviation and Transportation Security Act, 2001
 - TSA operated w/in the Dept. of Transportation (DOT) until 2003, when it moved to DHS
 - Made aviation security a direct Federal responsibility for the first time
 - Consolidated all transportation security activities under the umbrella of one agency

TSA (cont.)



- Primary security focus is on:
 - Identifying risks
 - Prioritizing them
 - Managing them to acceptable risk levels
 - Mitigating the impact of potential incidents that may arise as a result of these risks

TSA Responsibilities



- 1) Provide security to the nation's transportation security systems, with a primary focus on aviation security
 - Screening of all aviation passengers and baggage
 - 45,000 screeners (federalized and privatized) at 448 commercial airports
 - Utilizes a wide array of technology
 - Metal detectors
 - X-ray machines
 - Explosives trace detection machines
 - Explosives detection systems

TSA Responsibilities (cont.)



- 2) Manage the security risk to the US surface transportation systems
 - Mass transit
 - Over 9 billion trips per year
 - More than 160,000 miles of interstate and national highways
 - ~800,000 shipments of hazardous material

TSA Areas of Responsibility



- Air Transportation Safety and Security
- Trucking Safety
- Ports and Shipping Security
- Bus Transportation Security
- Railway Transportation Security

TSA Components

- Transportation Security Grants
- Law Enforcement Program
- Security Programs
- Security Screening

Transportation Security Grants

- Freight Rail Security Grant Program
- Intercity Bus Security Grant Program
- Transit Security Grant Program

TSA Law Enforcement

- Federal Air Marshal Service (FAMS)
 - Detect, deter, and defeat hostile acts targeting US air carriers, airports, passengers, and crews
- National Explosives Detection Canine Team
- Crew Member Self Defense Training Program
- Armed Security Officer Program
- Federal Flight Deck Officer Program
- Law Enforcement Officers Flying Armed Program



TSA Security Programs

- Air Cargo Security
- Flight School Security Awareness Training Program
- I-STEP Program

TSA Security Screening

- Passenger Screening
- Baggage Screening
- Covert Testing

Trucking Security

- 90% of all hazardous materials (HAZMAT) are transported by trucks
 - In 2004 there were a total of 14,740 HAZMAT incidents
 - 12,977 occurred on the highway
- Threat exists that terrorists will use a truck carrying some dangerous chemical or other material
- Releases involving the volumes or weights of materials contained in these vehicles can have catastrophic potentials



Trucking Security Initiatives

- TSA began conducting background checks on HAZMAT drivers in 2005
- TSA provides grants under the "Highway Watch" program for the following:
 - Participant Identification and Recruitment
 - Training
 - Communications
 - Highway Watch Call Center
 - Information Analysis and Distribution
 - Highway Information Sharing and Analysis Center (ISAC)
- WMD Detection Technology Program

Port & Shipping Security

- Securing maritime imported and exported goods a critical task
- 77 US ports are open to international trade
 - 30 account for almost 99% of all international maritime trade activity in the U.S.
- An attack on any major US port could result in:
 - Significant loss of life
 - Tremendous physical damage
 - Serious disruption to the economy and commerce of the US and its trading partners



Port & Shipping Security (cont.)

- SAFE Port Act of October 2006
 - Tasked DHS with the responsibility of assuring maritime transport security and protecting the nation's ports
 - The USCG is the lead Federal agency
- 9 of 16 container security steps occur outside of U S jurisdiction

Port & Shipping Security (cont.)

- DHS and DOT share responsibilities for securing maritime transportation systems and the ports
- DHS and USCG have a layered security approach
 - Aims to minimize potential threats while:
 - US-bound ships/vessels are overseas
 - They are in transit
 - They are within US waterways

Port & Shipping Security – Initiatives for Overseas Vulnerability Reduction

- **24-Hour Advanced Manifest Rule**
 - All sea carriers required to provide proper cargo descriptions and valid consignee addresses 24 hrs before cargo is loaded at a foreign port
 - Failure to do so will result in a “no load” message and other penalties



**Port & Shipping Security –
Initiatives for Overseas Vulnerability
Reduction**

- **Container Security Initiative (CSI)**
 - CBP teams screen containers in foreign ports
 - Currently 56 international ports participate
 - Accounts for 90% of all sea containers shipped to US
 - Potential suspect containers are targeted and identified before being loaded onto vessels

**Port & Shipping Security –
Initiatives for Overseas Vulnerability
Reduction**

- **Customs-Trade Partnership Against Terrorism (C-TPAT)**
 - Importers, carriers, brokers, forwarders, port and terminals, and foreign manufacturers take steps to secure their supply lines
 - Participants receive special benefits
 - Allows DHS to devote more resources to high risk shipments

**Port & Shipping Security –
Initiatives for Overseas Vulnerability
Reduction**

- **International Ship and Port Facility Security (ISPS) Code**
 - First multilateral ship and port security standard ever created
 - Requires vessels and port facilities to:
 - Conduct security assessments
 - Develop security plans
 - Hire security officers
 - Compliance ensured by the USCG under the International Port Security Program

Port & Shipping Security – Initiatives for Overseas Vulnerability Reduction

- **Operation Safe Commerce (OSC)**
 - Pilot program to analyze security in the commercial supply chain and testing solutions to close security gaps
 - Technologies tested will:
 - Enhance maritime cargo security
 - Protect global supply chain
 - Facilitate the flow of commerce

Port & Shipping Security – Initiatives for “In-Transit” Vulnerability Reduction

- **Smart Box Initiative**
 - Development of “tamper evident” containers
 - Works in conjunction with current mechanical seals
 - Device would indicate an attempted intrusion



Port & Shipping Security – Initiatives for “In-Transit” Vulnerability Reduction

- **Ship Security Alert System (SSAS)**
 - Allows a vessel operator to send a covert alert to shore for incidents involving violence or indicating that the security of the ship is under threat or has been compromised
 - All new and existing passenger and cargo ships of at least 500 gross tons must have equipment installed as of July 1, 2006



Port & Shipping Security – Initiatives for “In-Transit” Vulnerability Reduction

- **Automated Targeting System (ATS)**
 - Uses prearrival info and input from the intelligence community to identify high-risk targets before they arrive in the US
 - Evaluates arrivals via all modes of transportation

Port & Shipping Security – Initiatives for “In-Transit” Vulnerability Reduction

- **96-Hour Advance Notice of Arrival**
 - Ships must notify USCG 96 hours prior to arriving in US port
 - Must provide detailed info on:
 - Crew
 - Passengers
 - Cargo
 - Voyage history
 - Info then analyzed using databases and intelligence information
 - USCG then determines which vessels require additional attention

Port & Shipping Security – Initiatives for Vulnerability Reduction “In- US Waters and On US Shores”

- **National Targeting Center (NTC)**
 - Provides tactical targeting and analytical research support for CBP antiterrorism efforts
 - Experts in passenger and cargo targeting
 - Utilize ATS
 - Also supports CSI personnel



**Port & Shipping Security –
Initiatives for Vulnerability Reduction “In-
US Waters and On US Shores”**

■ **Maritime Intelligence Fusion Center (MIFC)**

- Located in:
 - Norfolk, VA
 - Alameda, CA
- Compile and synthesize intel products from federal, state, and local sources dealing with maritime security
- Products are then disseminated to homeland security agencies involved in port and waterway security



**Port & Shipping Security –
Initiatives for Vulnerability Reduction “In-
US Waters and On US Shores”**

■ **High Interest Vessel Boardings**

- High-risk vessels are targeted for boarding to address potential security issues prior to entry into port
- USCG also randomly selects vessels for security boardings



**Port & Shipping Security –
Initiatives for Vulnerability Reduction “In-
US Waters and On US Shores”**

■ **Operation Port Shield**

- USCG boards all vessels (at sea or at the dock) on their first visit to a US port to ensure compliance with US security standards
- Program officers also visit foreign countries to evaluate antiterrorism measures at foreign ports



**Port & Shipping Security –
Initiatives for Vulnerability Reduction “In-
US Waters and On US Shores”**

■ **Automatic Identification System**

- Allows the near real-time tracking of vessels
- Currently, only large vessels on international voyages are required to have this



**Port & Shipping Security –
Initiatives for Vulnerability Reduction “In-
US Waters and On US Shores”**

■ **Area Maritime Security Committees**

- USCG has established committees in all of the nation’s ports
- Allows for the coordination of all activities of port stakeholders
 - Collaborative security plans

**Port & Shipping Security –
Initiatives for Vulnerability Reduction “In-
US Waters and On US Shores”**

■ **Port Security Assessment Program**

- Designed to make best practice info available to US port officials
- Aimed at helping port officials make decisions about how to improve the vulnerability of their ports

Port & Shipping Security – Initiatives for Vulnerability Reduction “In- US Waters and On US Shores”

■ Port Security Grants

- Provides federal resources for projects to enhance security at port facilities
 - Funds assist ports in analyzing vulnerabilities and then closing security gaps
 - Control gates
 - Fencing
 - Lighting
 - Communications
 - Surveillance equipment



Port & Shipping Security – Initiatives for Vulnerability Reduction “In- US Waters and On US Shores”

■ Non-Intrusive Inspection Technology

- Leveraging technology to screen a larger portion of commercial traffic in less time while facilitating legitimate trade
 - Backscatter X-ray machines
 - Handheld radiation meters
 - Density meters
 - Fiber optic scopes



Port & Shipping Security – Initiatives for Vulnerability Reduction “In- US Waters and On US Shores”

■ Maritime Safety and Security Teams (MSSTs)

- USCG rapid response force for threats to vital ports
 - Thirteen 75 man teams located around the country
- Capable of nation-wide deployment via air, ground, or sea
- Capabilities:
 - Explosive detection dogs
 - Fast rope capable
 - Antiterrorism/Force Protection Small Boat handling training
 - Underwater port security



Port & Shipping Security – Initiatives for Vulnerability Reduction “In- US Waters and On US Shores”

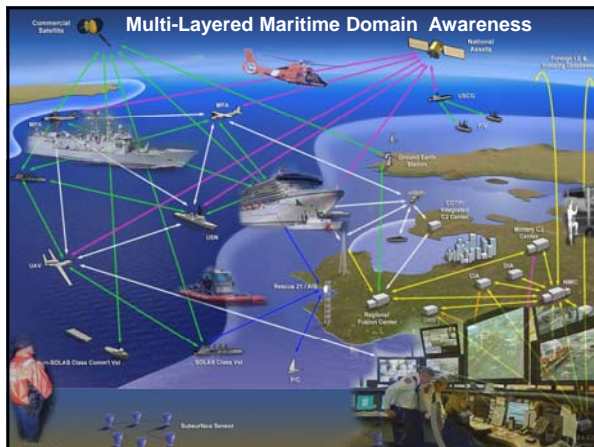
■ Guarding In-Between the Ports

- USCG
- CBP Border Patrol
- ICE Air and Maritime Operations Units
 - Responsible for patrolling and securing the nation’s borders between ports of entry

Port & Shipping Security – Initiatives for Vulnerability Reduction “In- US Waters and On US Shores”

■ Transportation Worker Identity Card (TWIC)

- Secure, uniform ID card to prevent potential terrorist threats from entering sensitive areas of the transportation system
- Biometric based
- Will allow workers to enter secure areas at multiple facilities
 - Will reduce need for multiple ID cards and background checks



Putting it All Together: The Container Story



1) Cargo checked at secure Port of Departure

- 24 hr Advanced Manifest Rule
- CSI
- C-TPAT
- ISPS Code



2) Tracked in Transit

- Automatic Identification System (AIS)

3) Advanced Notice of Arrival

- 96 hr Advance Notice



Putting it All Together: The Container Story



4) Vessel, crew, & cargo assessed prior to port entry

- ATS
- NTC
- MIFC
- High Interest Vessel Boardings
- Operation Port Shield



Putting it All Together: The Container Story



5) Vessel examined at secure Port of Arrival

- Area Maritime Security Committee
- Port Security Assessment Program
- Port Security Grants



Putting it All Together: The Container Story



- 6) Crew documents checked at arrival
- 7) Cargo screened before delivery
 - Non-Intrusive Inspection Technology



- 8) Delivered to proper customer

Bus Transportation Security

- Carries >774 million passengers per year
 - 28% more than domestic airlines
- Often-neglected link in the nation's transportation infrastructure
- Represents a security vulnerability
- Buses used in terror attacks worldwide
- Securing the bus system is an extremely challenging task because:
 - Multiple stops
 - Frequently changing passengers
 - Short periods of time



Bus Transportation Security (cont.)

- TSA provides grants for intercity bus security projects
 - Protecting/isolating driver
 - Bus tracking
 - Passenger/baggage screening



Railway Transportation Security

- Highly utilized and valuable component of the US transportation infrastructure
- Potential vulnerabilities and areas in need of improvement:
 - Improved decision-making processes regarding shipments of HAZMAT
 - Need for technologies/processes to screen containers/passenger baggage
 - Need to improve security for intermodal transportation
 - Secure containers
 - ID threatening contents
 - ID contents to 1st responders w/o tipping off terrorists
 - Need to clearly delineate roles/responsibilities re: surge requirements in case of catastrophes



Railway Transportation Security (cont.)

- Transportation of HAZMAT greatest vulnerability of the system
- Rail Security Act 2004: Requires DHS to conduct a vulnerability assessment of the nation's rail systems and report back to Congress
 - Identification and evaluation of critical assets and infrastructure
 - Threats to those assets and infrastructure
 - Vulnerabilities that are specific to rail transportation of HAZMAT
 - Security weaknesses



Railway Transportation Security (cont.)

- TSA Initiatives
 - Security screening of passengers and baggage
 - Transportation Worker Identity Credential (TWIC)
 - Explosive detection K9 teams
 - Transit and Rail Inspection Pilot (TRIP)
 - Evaluated the use of technologies to screen rail passengers and their baggage:
 - Prior to boarding
 - Prior to loading
 - While in transit
 - Hired and deployed 100 surface transportation inspectors