Supply Chain Security vs. Port Security



AAPA Terminal Management Seminar Long Beach, CA January 25, 2005



Today's Objectives



- Provide overview of supply chain security vs. port facility security vs. vessel security
- Who, what, where, why and how in each role
- Update on status of Operation Safe Commerce and other supply chain security initiatives



Supply Chain vs. Port Security Who.....



- Facility Security
 - Customs & Border Protection (C&BP)
 - Maritime Administration (MARAD)
 - US Coast Guard
 - Ports
 - Terminal Operators
 - Transportation Security Administration (TSA)
 - Labor

- Supply Chain Security
 - Shippers
 - Carriers
 - Logistics providers
 - Foreign ports and terminals
 - US ports and terminals
 - TSA, MARAD and C&BP
 - Labor



Who.....



- Vessel Security
 - U.S. Coast Guard is responsible for:
 - Monitoring and tracking all vessels
 - 96 Hour notification
 - Customs & Border Protection
 - Crew review (with USCG)



What-Port Security



- Effort based upon IMO SOLAS and revised ISPS Code
- Congress Passed the MSTA of 2002
 - Required Plan and implementation by July 2004
- Five rounds of port security grants



Port Security Grants



- AAPA estimated \$1.4 billion required
- TSA/MARAD Grants Totaling \$516 million
 - Round 1- \$93 M Awarded: June 2002
 - Round 2- \$169 M Awarded: July 2003
 - ODP grant -\$75 M Awarded: June 2003
 - Round 3-\$179 M Awarded: December 2003
 - Round 4- \$50 M Awarded: September 2004
 - Round 5- \$150 M: Being developed, Spring 2005 release



Port Security: Strategic Vision



- Integrated approach w/ policies, procedures, systems and personnel
- Integration of information with
 - First responders
 - USCG, MARAD, C&BP
 - Other Ports
- No Port is considered "weak link"



Port Security: Actions and Achievements



- Security plans submitted July 1, 2004
 - AAPA has verified 100% (63 of the 84 ports reporting) compliance
- Initial focus of grant request
 - Port access controls
 - Perimeter security improved
 - Creation of awareness and training programs
 - Establishing information sharing protocol
 - Facility controls and coordination



Supply Chain Security: Existing Initiatives



- C-TPAT- Voluntary program between C&BP and shippers
- CSI- C&BP and foreign Ports
- Operation Safe Commerce
- C&BP 24 Manifest rule, FDA Bio-terrorism rule
- Private initiatives- SST, StarBest
- RPM- Radiation Portal Monitoring System (C&BP)
- Smart Container initiative (C&BP)



Operation Safe Commerce



- Federally funded program (\$58 Million) for container security
- Series of supply chain demonstration projects (19 projects)
- Three load centers-
 - Ports of Seattle and Tacoma
 - Ports of Los Angeles and Long Beach
 - Port Authority of New York/New Jersey
- Use of commercially available, off the shelf technology

Operation Safe Commerce Vision



Develop an architecture that forms the basis of international standards for a secure supply chain

- Repeatable, scalable, and cost effective
- Maintains or facilitates the smooth flow of trade
- Enhances threat security while also enhancing theft security



Operation Safe Commerce Mission



- Identify the vulnerabilities, at each step in the supply chain.
- Determine, document and test the best policies, procedures, processes and technology available to prevent the introduction of unmanifested material into the global supply chain.



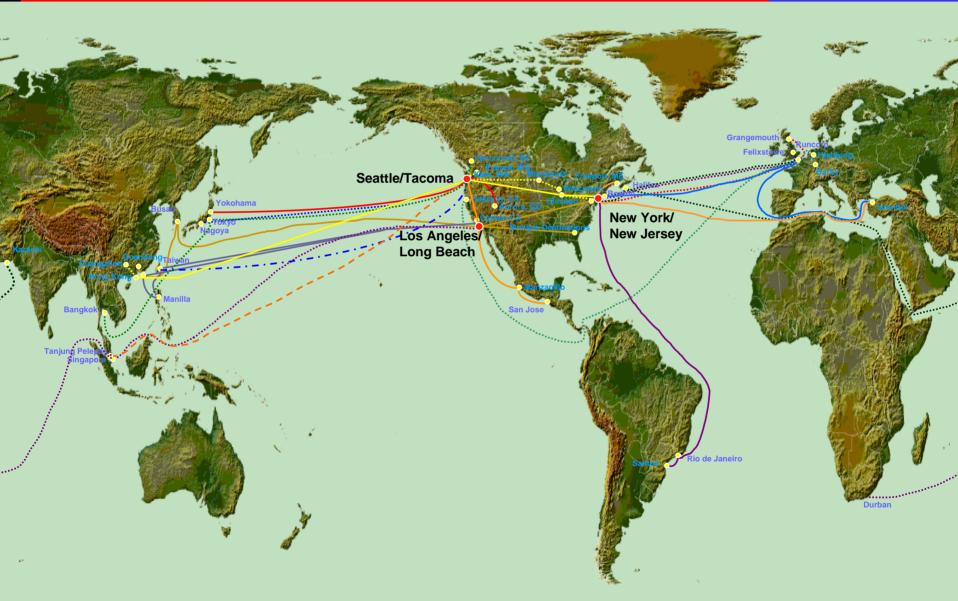




- OSC Round II (\$58 Million, 19 projects)
 - Funding approved May 2003
 - Formal notification of awards August 1, 2003
 - NY/NJ and Tacoma/Seattle submitted final reports Oct 2004 (LA/LB Mar 2005)
- OSC III (\$17 million authorized)
 - Start up April 2005
 - Completion Oct 2006

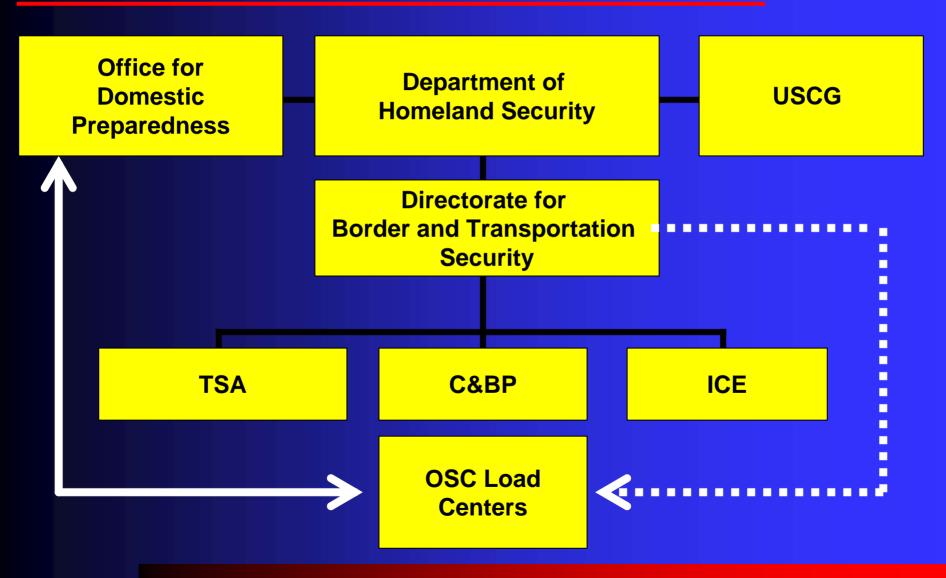
Operation Safe Commerce All Project Supply Chains





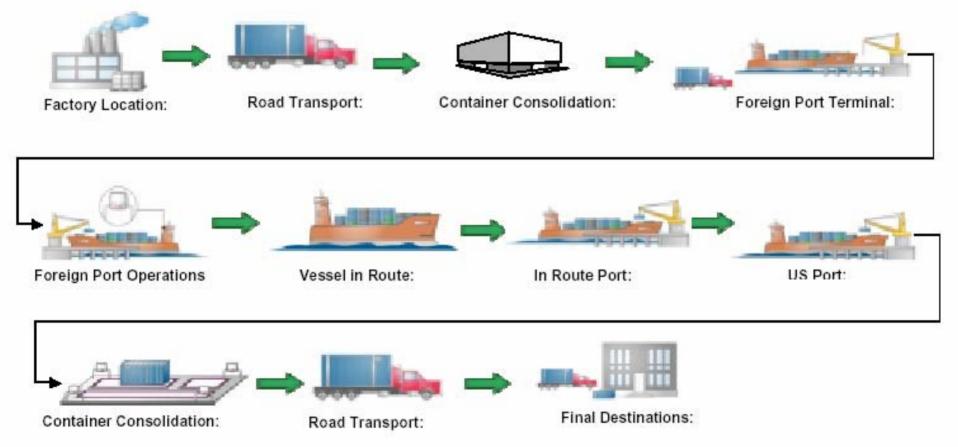
National OSC Organization and Guidance





Typical Supply Chain







Load Center Stakeholders



- Staff of LC Steering Committee
- Terminal Operators
- PMA
- **ILWU**
- Railroads
- Trucking and Drayage firms
- Shippers/logistics providers
- Maritime shipping organizations



Seattle/Tacoma OSC II Lessons Learned



- Most significant risk is foreign drayage
- No one project defined the ultimate solution
- Final report recommended performance standards versus specific technology
- Solution requires multi-sensor approach
- Effective Supply Chain Event Management system required
- Labor and PMA must be involved



Seattle/Tacoma OSC II Lessons Learned (cont.)



- Supply chains are unique, dynamic
 - System wide solution required
 - NVOCC's have significant impact
- Open architecture required—not proprietary solutions
- Solutions must be commercially viable
 - Must enhance productivity/efficiency
 - Those that enhance inventory control/yard management most likely to be implemented
- Complete supply chain visibility essential
- Layered approach to security



Seattle/Tacoma OSC II Lessons Learned (cont.)



- Improved policies, procedures, practices and trained personnel reduced risk significantly
- Overseas C-TPAT suppliers need independent validation
- Bolt Seals & e-Seals commercially viable to detect door opening – not removal or intrusion thru walls
 - Disposable solutions better than reusable solutions
- Supply chain event management systems that facilitate trade and security most likely to succeed
- 3rd party inspections viable for high risk origins



Seattle/Tacoma OSC II Lessons Learned (cont.)



- Air sampling (Bio/Chem) Too long
- Document authentication Some countries
- CCTV Could not read barcode/OCR
- Data loggers Minimal value forensics only
- GPS Line of Sight, Battery issues
- Information imaging Cost & integration issues
- No power/internet in rural areas









OSC III Project Goals and DHS Criteria



- Based on "best-of-breed" from OSC II
- Enhance point of stuffing security measures
- Deploy promising tamper evident solutions
- Support new seal requirements for loaded inbound marine containers
- Promote better information collection



OSC III Project Goals and DHS Criteria (cont.)



- Integrate existing C&BP and USCG policies and protocols
- Propose domestic interdiction processes and mechanisms
- Increase OSC volume of shipments
- Conduct cost-benefit analyses
- Probe for gaps



OSC III Project Goals and DHS Criteria (cont.)



- Account for nodes where mode of transport changes
- Propose need for and value of international standards
- Account for and measure security enhancements' commercial return on investment
- Establish testing protocols and quantitative performance metrics



Commissioner Bonner's 5 Point Cargo Security Strategy

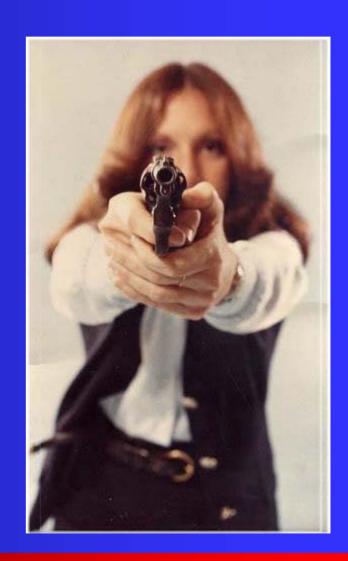


- ▶ 24-Hour Rule
- Automated Targeting System
- CSI (currently in 32 container ports)
- C-TPAT (7,000 companies)
- Smart Boxes- Directly linked to Operation Safe Commerce testing and findings

Summary



- We are safer today than yesterday and we will be safer tomorrow than today
- The biggest bang for the \$\$\$ is in supply chain security
- We must have cohesive and uniform direction from the top of DHS
- From the Cargo Security Summit-We must have coordinated contingency plans for maintaining maritime commerce when an event occurs.







Discussion and Questions

Inspections and Protocols



- Seal visibility and change protocols
- Empty container inspection protocols
- Education and training standards
- Container stuffing protocols
- Known carriers assigned to custody, segments of supply chain
- Alarm management and response protocols

SCEM Feeds and Controls



- Intrusion Detection Devices/Alarm Protocols
- Transit time rules for each custodian
- Seal number audit at each transfer point
- Known or nominated shipper audits
- In-out gate EDI feeds from terminals
- Load, unload EDI feeds from carriers
- AMS audit, MID-HTS-USA
- Driver Credentials validated, audits

Shipper Responsibilities and Tasks



- Assign Coordinators (Security and IT Systems)
- Appoint Data Integrator
 - Coordinate data interchange between OSC SCEM and Logistic Systems
- Participate in executive steering committee
- Evaluate results and reports

Shippers Responsibility and Tasks



- Require Origin factories and Transportation Suppliers Participation
 - C-TPAT Vulnerability Survey conducted by PNWLC
 - Policies, procedures for training and access to stuffing and materials work in progress
 - Empty control, ordering, inspection policies
 - Driver credentials validated at empty delivery and stuffed container pick-up
 - Seal management and control, installation policies
 - Device installation, training and supervision
 - EDI transaction activity to SCEM, to PO, Seal #, Device #, Driver ID and AMS filing access

PNWLC Responsibilities



- Interface with ODP, DHS, CBP
 - Financial and Technical Reporting
- Project management
- Final report writing
- Budgeting and Financial Controls
- Vendor contracts, performance and payment
- Liaison with Labor, terminal management
- Testing with Sandia
- Interface with other load centers

Data Integrator Responsibilities



- Manage integration with shippers IT
- Manage integration with SCEM external and internal data sources
- Manage rule-sets for alarm notice
- Integrate technologies and devices into SCEM
- Assist in incident response protocols