PROGNOSTICATING THE FUTURE
Command and Control Centers
The Situation Today

- Siloed systems
- Unsynchronized
- Manual procedures
- Limited Situational awareness
- Complex reporting
- Difficult to measure

Response

Operations Center

Inefficient Response

Overload of Information

Sensors & Systems

- SOPs
- Video
- Access & Identity Mgmt.
- PIDS
- Fire & Safety
- GIS
- Maintenance Systems
- Audio
- Weather Alerts
- LPR
- Panic Button
- Radar
- SCADA
What’s happening

How to respond

Where it’s happening
Adaptive response
Adaptive response
Adaptive response

Security breach

Type: Access denied
Severity: High
Status: New
Opened by: Sensors
Location: DC

Deployed procedures and tasks

<table>
<thead>
<tr>
<th>Task</th>
<th>Assigned to</th>
<th>Job Title/Group</th>
<th>Status</th>
<th>End Time</th>
<th>Completed by</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compare suspect to card holder</td>
<td>All CR Operators</td>
<td>All CR Operators</td>
<td>Completed</td>
<td>1/25/2010 9:39:44 AM</td>
<td>Ron Smith</td>
<td></td>
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<tr>
<td>No</td>
<td>All CR Operators</td>
<td>All CR Operators</td>
<td>Resolved</td>
<td>1/25/2010 9:41:29 AM</td>
<td>Ron Smith</td>
<td></td>
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<tr>
<td>Call card holder</td>
<td>All CR Operators</td>
<td>All CR Operators</td>
<td>Completed</td>
<td>1/25/2010 9:42:07 AM</td>
<td>Ron Smith</td>
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<tr>
<td>Yes</td>
<td>All CR Operators</td>
<td>All CR Operators</td>
<td>Resolved</td>
<td>1/25/2010 9:44:23 AM</td>
<td>Ron Smith</td>
<td></td>
</tr>
<tr>
<td>Now Task</td>
<td>Automation Agent</td>
<td>AutoOwner</td>
<td>In progress</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initiate Video Tour</td>
<td>All CR Operators</td>
<td>All CR Operators</td>
<td>Assigned</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
Working Example – Houston Ship Channel
The Houston Ship Channel Security District

- Authorized by HR 3011
- Public-Private partnership to improve security within the Houston Ship Channel *area*
- Includes
  - East Harris County Manufacturers Association facilities
  - Facilities subject to the MTSA along the channel in Harris County
Benefits of Security District

- Funds proven security technology
- Funds law enforcement for monitoring systems
- Improves C&C process
- Deters terrorism, theft, security threats
- Spreads financial responsibility evenly over impacted facilities
The S.M.A.G.
Security Monitoring Assessment Group
The S.M.A.G.

- Coordinates with…
  - U.S. Coast Guard
  - Harris County Marine Division
  - Patrol District 3

- Policies and Procedures
  - Internal
  - External

- Future
  - Co-location with U.S. Coast Guard in same facility
PSIM Helps Collaboration in the Ship Channel

- Correlation, analysis & monitoring of video, other sensors
- Mobile video for broader situational awareness/insight
- Enhanced situational awareness for mobile command
- Shared situational plot for better collaboration
- Automated processes to expedite response
Activity Observed / Unusual Activity Observed

Summary Tasks Details

Tasks

My Tasks (5)

- Observe target suspects or vessel for unusual activity
- Select Incident Location
- Track target by video (consider multiple cameras)
- Add comment to document target description
- Contact nearest channel tenant(s) from map or CIMA list, if available
More than Security
HSC Future Vision

- Further expansion and sensor integration
  - Slew-to-cue surveillance between radar and cameras
  - Camera-to-camera vessel tracking
  - License Plate Recognition
- Expanded mobile command capabilities
- Leverage additional sources of on-scene video
- Expand situational awareness to more county agencies
- Expanded Transtar use
- Regional video source
- Put video in the hands of first responders
Public Private Partnership

- Harris Co agencies provide protection and security along with IT Infrastructure
- Business Partners provide the financial support for the district and security
- Build stronger relationships between public and private First Responders
- Bringing technology to First Responders
Operations

- Crane Operations
- Maintenance
- TWIC
- Vessel tracking
True cyber security is the convergence of cyber and physical security.
Web Intelligence

- Port facilities protection
  - Monitoring any mentioning of the port or related assets on social networks, forums used for vandalism, jihad, etc.

- Executive and vessel protection
  - Mentioning of a port executive travelling to foreign countries, and monitoring vessel names or routes

- Cyber-attack forecasting
  - Monitoring blogs, forums and websites of hackers mentioning the port

- 'Lawful Interception'
  - Available to LEA only - intercept, monitor, analyze communications of suspects and targets involved in illegal activity against the port
THANK YOU

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