Homeland Security: The Next War to Fight

ICATHS 2003

"Making our Homeland Secure"
What Is It?
Homeland Security is a concerted national effort to prevent terrorist attacks within the United States, reduce America's vulnerability to terrorism, and minimize the damage and recover from final attacks that do occur.
National HS Strategy, Jul '02

Business Definition
A "One Company" business with primary focus on assessing, combating and responding to terrorism and terrorist threats.

Headquarters
Wash., DC

2003 Revenue

- Protect 66%
- Detect 20%
- Respond 14%

Homeland Security Business Areas
- Information Analysis/Infrastructure Protection (Detect)
- Border/Transportation Security (Protect)
- Emergency Response (Respond)

Detect, Protect and Respond
Core Competencies/Technologies

- Data mining/warehousing/analysis/correlation tools ⇒ Genesis
- Communications products and technology ⇒ First Responder Vehicle
- Command and Control ⇒ Port of Houston
- Network security expertise ⇒ NMCI
- Intelligence tools personalized for HS use ⇒ ID/Biometric System
- Cost-effective system installation/support expertise ⇒ Airport Explosive Detection Systems
- Systems integration experience ⇒ Security Ops. Center

H.S. Demands Different Application of Existing Technologies
Customer's Desire/Raytheon Response

Customer's Desire

"I am tired of being approached by product vendors with their neat toys. Don't bring me products ... I am not a systems integrator. I need a total solution to my problem; I need a secure airport"

Airport Director

Raytheon's Response

• Form a H.S. business that brings all the technologies and products of Raytheon together to provide customer-focused solutions
  ⇒ Behave as "One Company"
• Select best products available for customer-focused solution
  ⇒ Inside or outside of Raytheon
• Leverage products/expertise from DoD business base
<table>
<thead>
<tr>
<th>Key Programs</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Information Analysis &amp; Infrastructure Protection</strong></td>
<td></td>
</tr>
<tr>
<td>• Total Information Awareness (DARPA)</td>
<td></td>
</tr>
<tr>
<td>• Geospatial Intelligence Database Integration (NIMA)</td>
<td></td>
</tr>
<tr>
<td>• Genesis</td>
<td></td>
</tr>
<tr>
<td>• NMCI</td>
<td></td>
</tr>
<tr>
<td>• SPIRIT</td>
<td></td>
</tr>
<tr>
<td><strong>Counter Terrorism/ Special Operations</strong></td>
<td></td>
</tr>
<tr>
<td>• EO/IR Sensors</td>
<td></td>
</tr>
<tr>
<td>• RedWolf</td>
<td></td>
</tr>
<tr>
<td>• SilentRunner</td>
<td></td>
</tr>
<tr>
<td><strong>Border and Transportation Security</strong></td>
<td></td>
</tr>
<tr>
<td>• U.S. - VISIT</td>
<td></td>
</tr>
<tr>
<td>• IBDSS/Force Protection</td>
<td></td>
</tr>
<tr>
<td>• Port Security</td>
<td></td>
</tr>
<tr>
<td>• Commercial A/C Self-Protection</td>
<td></td>
</tr>
<tr>
<td><strong>Emergency Preparedness and Response</strong></td>
<td></td>
</tr>
<tr>
<td>• First Responder Vehicle (Fire Depts, FEMA)</td>
<td></td>
</tr>
<tr>
<td>• Security Operations Center (PH)</td>
<td></td>
</tr>
<tr>
<td>• Emergency Patient Tracking System (EPTS)</td>
<td></td>
</tr>
<tr>
<td>• Civil Emergency Response and Reaction Training System (FEMA)</td>
<td></td>
</tr>
</tbody>
</table>
Information Awareness (Detect)

- Access across heterogeneous systems, architectures and data sources
- Multi-media content from data bases, web products, network and RF sources

- Information Collection
- Aggregation and Analysis
- Visualization, Collaboration & Product Development
- Protected Dissemination

Federal and State Records

- Driver's License
- Public records
- Visa applications
- Watch lists
- Transactional data
- Public Utilities

Informants

Communications

- Collect
  - Telephone
  - Cellular
  - Networks
  - National Sources

Open Source

Web Searches
International News
Multi-media

Visualize /Report

Users

- Passenger Screening
- Foreign Visitor Screening
- Background Checks
- Law Enforcement and Intel Community

Transformations

- Translate
- Aggregate
- Analyze
- Visualize
- Report
Security Operations Center (Protect) Situation Awareness and Control

Operational and Environmental Information
- Mapping
- Weather
- Security
- Operations

Integration Situation Awareness, and Control

Mobile

Facility
- Emergency Services
- Perimeter
- Info Sharing

Exploded Facilities
View and Status, Terrain, and Spatial Information

Spatial Integration
- Buildings
- Topography
- Road Centerlines
- Service Areas
- Utility Services

Tabular Data
- SAP
- Legacy Systems

Spatial Information
Emergency Response (Respond)
Communications Interoperability

- Streamlined command and control
- Built on existing communications infrastructure
  - Links incompatible radio systems
  - Integrates satellite, radio, sensor and video information systems
- On-scene info. for Ops Centers, Mayors …
- Press Mgmt ⇒ Getting ahead of CNN

Solves Communications Interoperability
The Bottom Line

- Homeland Security's success demands "One Company" behavior
- Customers are looking for total integrated solutions NOT specific products
  - No company by itself has all the elements; therefore, teaming is a must
- Products/technology developed under DoD funding can satisfy most of H.S. needs today
  - Operational adaptation can be achieved for low development dollars
- Industry must partner with Gov't. to help define system requirements in expeditious, best value manner

Homeland Security is not just a desire ... It's a Necessity