Intro to Flight Department Security

Tuesday, Nov. 1, 2016 | 1:00 p.m. – 2:00 p.m.

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Today’s learning objectives

• Information for the new Security Manager/Officer.
• Best practices for business aviation security.
• Understanding security.
• What is a risk assessment.
• Security awareness.
• Vendor management.
• International considerations.
Info for the new Security Manager/Officer

Where to begin?

• IS-BAO Protocols to include IG 15.0 Security Programmes.
• Formal security risk and vulnerability assessment.
• University of Southern California – Aviation Security Course.
• NBAA PDP Aviation Security course.
• Flight department benchmarking / Industry security events.
Info for the new Security Manager/Officer

3 Main Program Elements

• Physical Security.
• Security Protocols / Compliance.
• Security Training / Awareness.
3 Main Program Elements

Physical Security

- Airport / TSA / Fencing / Lighting.
- Surveillance cameras / DVR.
- Alarm system / Monitoring.
- Panic buttons / Emergency speed dials.
- Transient Security.
3 Main Program Elements

Security Training

• Security awareness / Information program / Intelligence Apps.
• Training classes / Exercises / Formal schooling.
• Annual security goals or statement.
• Security incident reporting system.
• Crewmember self-defense training.
• Industry involvement – BACE, Conferences, etc.
3 Main Program Elements

Security Protocols / Compliance

- Airport Aviation Security Program (ASP) or TSA approved program.
- Visitor control / Escort requirements.
- Itinerary confidentiality.
- Passenger ID / Color coded baggage tags / Transportation passwords.
- Duress communications.
Best Practices

Business Aviation Security

- People
- Facilities
- Aircraft
- Procedures

https://www.nbaa.org/ops/security/best-practices/
Understanding Security

Making the business case

• In the present threat environment, the private sector remains the first line of defense for its own facilities and assets

• Businesses have multiple incentives to invest in security (reputation, shareholders, competitiveness, etc.)

• Business is often in the best position to determine the immediacy of security concerns

• Better able to assess the magnitude of security concerns and to devise effective responses

• Corporate citizenship/responsibility
Making the business case for security

Drivers Linked to Risk Management

- Threat Assess
- Vulnerability Assess
- Probability Assess

- Meet Industry Security Standards

- Comply With Government Security Mandates

Investment in Security

- Reduced Cost
- Enhance Revenue
- Preserve Market Share
- Manage Risk
- Protect Brand

Drivers Linked to Business Success
What is a Risk Assessment?

A risk assessment is a tool for measuring the compliance of an organization with applicable security requirements. The standardized methodology is based on the interrelationships of four key factors:

- **Assets** - Any useful or valuable resource.
- **Threat** - An event, process or act which, when realized has an adverse effect on one or more assets
- **Vulnerability** - Weakness or susceptibility of an asset or a collection of assets to losses of various kinds.
- **Safeguard** - A countermeasure, control or action taken to decrease the existing level of vulnerability of an asset to one or more threats.

\[
\text{Risk} = \text{Threat} + \text{Vulnerability}
\]
Risk Assessment Process

Threat Assessment

- Tells who is trying to inflict harm and the “how” it will be done
- Need real time intelligence from government and private sources

Vulnerability Assessment

- Focuses on unearthing weaknesses of the entity we are trying to protect.
- Examines those weaknesses and how they could be exploited by someone with hostile intent.
- Used to predict the effectiveness of additional security measures (security impact that a facility would get) to the investment in security
- Tells who is trying to inflict harm and the “how” it will be done
- Need real time intelligence from government and private sources
Risk Assessment Process

Probability Assessment

• Analyzes the probability that a threat will actually occur
• The probability assessment is significant – not so much as an independent calculation, but as it applies to the threat and vulnerability assessment process.
Security Awareness

Building a positive security awareness culture

• Establish security training and briefing as a part of regular crewmember qualifications
• Understand the risks associated with your area of operations (international vs domestic etc.)
• Ongoing security training (includes a security information program).
• Review of relevant current events.
• Regular briefings & security incident reporting.
Security Awareness

Security Incident Response Plan

- Develop a security incident response plan
- Report accurate and timely information
- Train staff and crew
Security Awareness

Security Incident Response Plan

• Use the plan to triage any breaches in security, physical or cyber.
• Assess, plan, refine, test.
• Considerations for reporting incidents or breaches
  – Is the affected equipment business critical?
  – Is the incident still in progress
  – Who is the best asset to report this to first?
Vendor Management

Vetting your Flight Departments Vendors

• Establish an approved vendor list
• Standardized vetting process
• Repeatable, documented and verifiable process
• Multi-layered approach is recommended for references
• Regularly review existing vendors to maintain their “approved” status
International Considerations

You are not at home – The rules are different

• Your “sphere of influence” is significantly reduced
• You cannot just “make things happen”
• Foreign officials are not bound by the U.S. constitutional protections
• Threat/Assessment
  – How much do the people around you know about you and your organization
  – Perceived as high-value targets, access to trade secrets
  – Probability of international media attention
  – Unfamiliarity of surroundings and law enforcement
International Considerations

Pre-flight preparation

- Realistic threat assessment
  - Political and security situation at your destination
  - Implications of your organization’s business in that area
  - Is your presence likely to raise local opposition or be controversial?
- Flight plan information is public in most regions
  - Assume your identity and arrival info is known locally
- Emergency diversions en-route
- Direct route is not always the safest route
International Considerations

Destination Airport

- Modern international airport
  - Hiring of aircraft protection seldom necessary
- Hiring private security
  - Additional disclosure to local authorities
  - Vetting
  - ISP
- Security measures
  - Aircraft alarms
  - Security tape for compartments
International Considerations

Destination Airport (continued)

• Fueling and service considerations
  – Your aircraft is a security asset. Without sufficient fuel to go elsewhere your vulnerability is increased.
  – fuel on arrival when ever possible
  – take advantage of fuel availability
  – strikes and disruptions are common
International Considerations

Ground Transportation

• Most vulnerable portion of the journey
• Risk profile differences
• Airport to Hotel – vs.- Hotel to Airport
• Ground transportation must either be carefully vetted or have no advance knowledge of who you are or what you do
International Considerations

Food Security

- Plan ahead to ensure food is supplied by vetted caterers
- Hotel restaurants can sometimes be a good source
- Store food at FBO’s only in sealed tamper-proof containers
- Consider using security tape on food containers during FBO storage
- Pilot’s should eat at separate times as a safeguard in the event of food contamination.
Resource Link

• Smart Traveler Enrollment Program – STEP
  – https://step.state.gov

• Overseas Security Advisory Council
  – www.osac.gov

• University of Southern California - http://viterbi.usc.edu/aviation/

• NBAA PDP – www.nbaa.org/pdp

• NBAA International Feedback
  – www.nbaa.org/ops/intl
Resource Link

- United Healthcare Global – [www.uhcglobal.com](http://www.uhcglobal.com)
- Universal Weather and Aviation – [www.universalweather.com](http://www.universalweather.com)
  - WorldCue Tracking