AVIATION CYBERSECURITY

Finding Lift, Minimizing Drag

A report by the Atlantic Council, underwritten by Thales, marks an important step in creating awareness and driving a critical public dialogue on cybersecurity in aviation. The report, *Aviation Cybersecurity - Finding Lift, Minimizing Drag*, promises to create a foundation for how the community unites to protect the traveling public, strengthen a vital part of our transportation infrastructure, and safeguard a major contributor to the global economy. For the report, several experts contributed their perspectives. Here's part of what they had to say:

"To assure security and prevent potential disruption to the aviation system— while at the same time ensuring that the full potential of connectivity is achieved—requires a concerted effort from manufacturers, service providers, and regulators. Publishing this report is an important first step; now we need to move into action."

Lieutenant General (Ret.) David F. Melcher
Former president and CEO
Aerospace Industries Association

"A vulnerable or compromised system from a supplier that makes its way onto an aircraft can be used to attack other connected systems on the aircraft. A risk management framework should be established, followed, and managed for all aircraft suppliers. Third-party penetration testing should be performed against supplier components and systems, as well as the integrated systems on the aircraft."

Christian Espinosa
CEO and founder
Alpine Security

To view and download the full report, visit: http://aviationcyber. atlanticcouncil.org

"Think about the exposure at the airport—the airport's own IT network, baggage systems (especially with the increased use of hand-held devices), access control systems, parking management systems, CCTV, perimeter intrusion systems, eEnabled aircraft systems, document management systems (such as electronic Airport Layout Plans), and radar systems, just to name a few vulnerabilities. Managing these complex cyber risks requires effective sharing of information on vulnerabilities, threat intelligence, mitigation measures, and incident reporting."
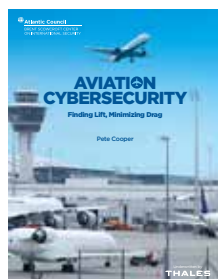
Christopher R. Bidwell
Vice President, Security
Airports Council International - North America

"The threat from cyber wrongdoers on one side of the world has the potential to affect aircraft on the other side. No longer will air navigation service providers (ANSPs), airlines, airport authorities, and private aviation be able to stand alone in their approach to the cybersecurity risk. From choosing the most effective remediation to operational response, all aviation must act together."

Peter F. Dumont
President and CEO
Air Traffic Control Association

"Similarities between the military and commercial aviation industry exist and provide synergistic benefits when addressing the vulnerabilities inherent in connected systems. Adopting wide-ranging, more inclusive approaches to securing systems and assessing risk across networks, along with greater trust and cooperation, serve as useful approaches in addressing the information security concerns the commercial sector faces."

Steve Luczynski, USAF pilot (Ret.)
Former Deputy Director for Cyber Plans and Operations
U.S. Department of Defense

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