The Challenge
The proliferation and advancement of interconnected devices have created unprecedented opportunities to enhance operational efficiency and customer experience in aviation. At the same time, rapid developments in cyber capability make cyberthreats and attacks difficult to detect and control. Cyberattacks on critical infrastructure such as airports and related facilities could generate devastating cascading effects resulting in loss of life, economic loss and industrial disruption, among other severe consequences. The aviation industry must take new approaches to cybersecurity and adapt its resilience and readiness to maintain continued growth and the highest possible safety standards.

The Objective
Cyber Resilience in the Aviation Industry is a public-private collaboration that aims to strengthen and consolidate cyber resilience throughout the aviation sector.

Outcomes and Deliverables
The project seeks to:
- Promote a strong cybersecurity culture across the aviation industry by defining and piloting common cyber-resilience principles in alignment with the World Economic Forum Advancing Cyber Resilience: Principles and Tools for Boards
- Help accelerate the adoption of due standards of care throughout the industry ecosystem by piloting a risk management framework to assess the current state of cyber maturity in aviation. This will allow the participants to get a high-level view of the degree of their cyber resilience and allow for benchmarking among peers.
- Support global synchronization of cybersecurity efforts and initiatives in the aviation industry by fostering cooperation between the ICAO, industry and national regulatory bodies.

This project is driven jointly by the Forum’s Platform on Shaping the Future of Cybersecurity and Digital Trust, the Platform on Shaping the Future of IoT, Robotics and Smart Cities and the Forum’s Aviation and Travel Industry Community.

The Working Group
The members of a global community of purpose will contribute expertise and resources, participate in monthly calls and workshops, and brief senior executives and officials in preparation for World Economic Forum gatherings such as the Annual Meeting in Davos. Working group members include:
- Private-sector partners operating in the aviation industry ecosystem (airports, airlines, OEMs, trade associations)
- Academic experts
- Regulatory bodies in the aviation industry (ICAO, national authorities)

Private-Sector Partners
Allianz, Corporación América, Deloitte, Emirates Group, Gulfstream Aerospace, IBM, Lufthansa, Royal Schiphol Group, San Francisco International Airport, Sberbank, Swiss Airlines, Thales Group, Vistajet, Willis Towers Watson, Zurich Insurance Group

Public-Sector Partners
Airports Council International (ACI), Civil Aviation Authority (CAA UK), Eurocontrol, European Union Aviation Safety Agency (EASA), International Air Transport Association (IATA), International Civil Aviation Organization (ICAO), Israel National Cyber Directorate, National Cyber Security Centre (NCSC UK), Organization of American States (OAS)

Key Dates
16-17 November 2020: Annual Meeting on Cybersecurity, Geneva, Switzerland

Contact
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