

IATA WORLD DATA SYMPOSIUM

AGENDA

Tuesday 6 April

18:30 – 20:30 **Welcome reception**

Wednesday 7 April

Opening Plenary

9:00 - 9:05	Welcome address IATA
9:05 - 9:15	Welcome Address – Host Airline
9:15 - 9:30	Economic Outlook
9:30 - 10:00	CEO Panel Leading airline CEOs will share how they are steering their organizations through both technological change and global uncertainty. They will discuss how digital capabilities can help the industry respond to geopolitical challenges, strengthen cybersecurity, improve operational efficiency, and unlock new opportunities for growth.
10:00 - 10:30	Keynote: Demystifying Quantum Explore the current state of quantum technology, its emerging use cases, and the path from experimentation to business impact.
10:30 - 11:15	Networking break
11:15 - 11:50	Keynote: In a World of Fakes, How Do We Know What's Real. Future of cybersecurity.
11:50 - 12:30	Keynote: From Orbit to Impact: Harnessing Satellite Technology for a Resilient Future From enabling seamless connectivity and real-time data sharing to supporting artificial intelligence, autonomous systems, climate monitoring, and critical infrastructure resilience, space-based technologies are transforming how industries operate and society's function.
12:30 - 14:00	Lunch break

IATA WORLD DATA SYMPOSIUM

Runway 1 – Data and Technology

14:00 - 14:10	Welcome to Data and Technology Runway
14:10 - 14:30	From Flights to Flows: Reimagining Aviation as a Real-Time Data Network Aviation is becoming a real-time, data-driven ecosystem where decisions depend on the continuous flow of information across airlines, airports, service providers, and partners. This session explores why aviation must evolve beyond traditional applications and embrace a new generation of connected event-driven architectures.
14:30 - 15:00	Event-Driven Architectures Flight disruptions, weather events, passenger movements, and operational changes all happen in real time. Learn how leading airlines are adopting event-driven architectures to improve operational responsiveness, enable AI-driven decision-making, and build the foundation for more autonomous aviation systems.
15:00 - 15:30	A Common Language for Autonomous Aviation: From Data Models to Agentic Interoperability AI agents, digital platforms, and ecosystem partners can only collaborate effectively if they understand information in the same way. This session explores the critical role of shared semantics, common data models, and industry standards in enabling the next generation of intelligent, automated aviation systems.
15:30 - 16:00	Networking break
16:00 - 16:20	From Events to Action: The Platforms Powering Real-Time Aviation Modern airlines increasingly rely on platforms capable of processing and acting on information as it happens. Discover how real-time platforms are becoming the digital backbone that connects data, applications, operations, and AI.
16:20 - 16:40	Building the AI-Native Airline: From Architecture to Autonomous Operations What does it take to embed AI across an airline enterprise? Through real-world experiences from digital pioneers, this session examines how airlines are moving beyond experimentation and building scalable AI foundations that support everything from operational efficiency to customer engagement.
16:40 - 17:00	The Invisible Economy: How Data Enables Aviation Value Flows Data has become one of aviation's most important assets. This session examines how information powers decisions, connects businesses, and creates value across the aviation ecosystem, enabling new forms of collaboration, efficiency, and innovation.
17:00 - 17:30	Cabin Crew 2.0: How AI is Transforming the Inflight Experience What if cabin crew had an intelligent copilot at their fingertips? From personalized service and language support to medical assistance and real-time decision support, this session

IATA
WORLD
DATA
SYMPOSIUM

	explores how connectivity, data, and AI can help create safer, more memorable, and more engaging inflight experiences.
18:30	Networking dinner

IATA WORLD DATA SYMPOSIUM

Runway 2 – Cybersecurity

14:00 - 14:10	Welcome to Cybersecurity Runway
14:10 - 14:40	Keynote
14:40 - 15:30	Panel: Threat Vectors at 40,000 Feet: Nation-State Risks to Aviation & Infrastructure As aviation systems become increasingly interconnected through digital technologies, they have emerged as high-value targets for sophisticated nation-state cyber actors. The consequences of a successful cyberattack extend far beyond data theft, with the potential to disrupt flight operations, compromise passenger safety, interrupt global supply chains, and undermine confidence in critical infrastructure. This panel brings together cybersecurity leaders, to examine the evolving threat landscape facing the aviation sector. The discussion will explore how nation-state adversaries exploit vulnerabilities across aviation ecosystem and assess the growing convergence of cyber threats, the role of intelligence sharing, regulatory frameworks, and public-private partnerships in strengthening resilience.
15:30 - 16:00	Networking break
16:00 - 16:30	Keynote: OT Cybersecurity Lab: A Local Effort for a Global Impact Building an in-house cybersecurity testing laboratory may seem ambitious, but it has proven to be an effective way to advance the cybersecurity of aviation security screening equipment. While these systems are subject to European certification requirements, cybersecurity requirements remain limited. This session explores how independent penetration testing, conducted in collaboration with equipment manufacturers, can help identify vulnerabilities earlier and encourage stronger security-by-design practices. The presentation will discuss how test results are shared with the wider aviation community, supporting procurement decisions and promoting greater transparency across the sector. It will also consider how this collaborative approach could contribute to the development of common cybersecurity testing protocols for manufacturers and airport operators.
16:30 - 16:50	Panel: The Domino Effect: Aviation's Hidden Dependencies The aviation industry relies on a complex network of interconnected airlines, airports, suppliers, technology providers, and service partners. A disruption at any point in this ecosystem can trigger cascading operational, financial, and cybersecurity impacts across the sector. This panel brings together CISOs from aviation sector to explore the risks posed by third-party dependencies, supply chain vulnerabilities, and interconnected digital systems. Panellists will discuss strategies for improving visibility, resilience, and collaboration to strengthen the security and continuity of the aviation ecosystem.
16:50 - 17:30	Keynote: Aviation Supply Chain Cyber Risk: Why Current Approaches Are Failing and How to Fix Them Aviation cybersecurity is increasingly a supply chain challenge, yet many organizations still rely on questionnaires, ratings, and compliance assessments that provide limited insight

IATA
WORLD
DATA
SYMPOSIUM

	into real operational risk. As aviation ecosystems become more interconnected, these approaches often fail to identify risks before they spread across the supply chain. This session explores how the Business Information Security Officer (BISO) model helps organizations move from passive assurance to active, risk-informed decision-making. By bridging business, security, and procurement functions, BISOs strengthen supplier engagement, improve risk management, and enhance supply chain resilience through continuous collaboration.
18:30	Networking dinner

IATA WORLD DATA SYMPOSIUM

Thursday 8 April

Runway 1 – Data and Technology

9:00 - 9:05	Welcome to the Day 2 of the Runway
9:05 - 9:25	From Systems to Ecosystems The operating-model shift: why no organization controls the full aviation system. As aviation becomes increasingly interconnected, success depends on collaboration across organizational boundaries. This keynote explores the shift from standalone systems toward shared platforms, digital ecosystems, and connected operating models
9:25 - 10:00	Interoperability at Scale – The Communication Challenge Why does integration remain one of the biggest challenges in digital transformation? This session examines how standards, APIs, governance frameworks, and shared semantics can help aviation organizations work together more effectively at ecosystem scale.
10:00 - 10:30	Orchestration & Distributed Coordination – The Execution Challenge As digital ecosystems grow more complex, coordinating processes across organizations becomes increasingly challenging. Discover how modern orchestration approaches help synchronize activities, automate workflows, and support seamless collaboration across the aviation value chain.
10:30 - 11:15	Networking break
11:15 - 11:40	Governance & Control Technology alone does not create trust. Discover how governance, policy controls, and accountability mechanisms help aviation organizations share data confidently while maintaining compliance, security, and operational resilience.
11:40 - 12:00	Identity, Trust & System Interaction How do digital ecosystems establish trust? This session examines how identity enables secure data exchange, supports automation, and provides the foundation for trusted interactions between connected systems and organizations.
12:00 - 12:30	Data & Technology Proof of Concepts Showcase See innovation in action. This showcase features industry proof-of-concepts demonstrating how emerging technologies can address real aviation challenges, from digital identity and fraud prevention to predictive disruption management and cargo visibility.
12:30 - 14:00	Lunch

IATA WORLD DATA SYMPOSIUM

14:00 - 14:20	Autonomous Airspace Systems The future of airspace may be increasingly automated, connected, and data driven. Explore how AI, digital infrastructure, and new operational models are reshaping the management of increasingly complex airspace environments.
14:20 - 14:40	Geofencing & Policy-Driven Airspace As airspace becomes more dynamic, programmable rules and digital policy frameworks will play an increasingly important role. This session explores how geofencing and policy-driven operations can help manage increasingly complex aviation environments.
14:40 - 15:00	Identity & Trust in Autonomous Systems How do autonomous systems establish trust? From drones and advanced air mobility to connected aviation services, this session explores how digital identity and trust frameworks will underpin the operation of future autonomous ecosystems.
15:00 - 15:30	Digital Identity as a Core System Layer Trust starts with identity. Explore how digital identity frameworks are becoming a foundational component of modern aviation architecture, enabling secure interactions between people, organizations, systems, and devices.
15:30 - 16:00	Networking break
16:00 - 16:30	Eyes on the Fuselage: How Drones and Computer Vision Are Rewriting Aircraft Inspection From AI-powered damage detection to autonomous drone inspections, maintenance is undergoing a digital transformation. Learn how airlines and MROs are using computer vision and advanced analytics to improve safety, reduce inspection times, and modernize aircraft maintenance processes.
16:30 - 16:50	Cloud, Chips & Control: Sovereign AI for Aviation As AI becomes embedded across airline operations, customer experiences, and future autonomous systems, aviation faces a new strategic question: where should that intelligence live? This session explores how airlines, OEMs, and technology providers are balancing cloud platforms, on-premises AI infrastructure, data sovereignty, geopolitical considerations, and rising computing demands. Industry leaders discuss how to build AI capabilities that are scalable, resilient, and trusted in an increasingly fragmented digital landscape.
16:50 - 17:25	The Future Aviation System The runway concludes by bringing together the key themes explored throughout the event. Industry leaders will discuss how data, AI, digital identity, governance, interoperability, and autonomy are converging to shape the next generation of aviation systems.
17:25 - 17:30	Wrap up and next steps

IATA WORLD DATA SYMPOSIUM

Runway 2 – Cybersecurity

9:00 - 9:25	Keynote: Quantum Turbulence: Preparing Aviation and Industry for the Next Disruption
9:25 - 10:05	Panel: Next-Gen Airspace: Cybersecurity in the Era of Autonomous Systems As advanced digital aviation technologies, drones, AI-driven air traffic management, and increasingly connected systems, reshaping the future of flight, cybersecurity has become a critical enabler of safe and trusted operations. In this panel, cybersecurity leaders, will explore the emerging cyber risks associated with autonomous systems, including software integrity, communications security, non-human identities, AI resilience, and regulatory challenges. Industry leaders will discuss how aviation can build secure-by-design technologies, strengthen resilience, and foster collaboration to safely integrate next-generation autonomous systems into the global airspace.
10:05 - 10:30	Keynote: Autopilot or Override? Governing AI Across Critical Industries
10:30 - 11:15	Networking break
11:15 - 11:45	Keynote: No Such Thing as a Perfect Landing: A Five-Year SecOps Maturity Journey as an Aviation Regulator Security operations teams are often reactive, alert-driven, and measured by activity rather than outcomes. This session explores how organizations can evolve from foundational detection and triage capabilities to a mature, resilience-focused SecOps model through structured processes, playbook-driven operations, and continuous improvement. The presentation examines practical approaches to aligning security operations with business resilience objectives, shifting reporting from compliance metrics to outcome-based measures using frameworks such as CAF and NIST CSF 2.0, and overcoming common challenges in security transformation. Attendees will leave with actionable insights for advancing SecOps maturity under real-world budget, operational, and regulatory constraints—and a case for prioritizing resilience over perfection.
11:45 - 12:10	Panel: Regulation vs Innovation: Finding the Balance in Aviation Cybersecurity As cyber threats to aviation continue to evolve, regulatory requirements are expanding to strengthen resilience across the industry. At the same time, organizations must embrace emerging technologies to improve efficiency, safety, and passenger experience. This panel brings together aviation industry leaders and regulators to examine how the aviation sector can balance compliance with innovation, exploring the role of risk-based regulation, industry standards, and public-private collaboration. Panelists will discuss how organizations can meet evolving cybersecurity requirements while enabling digital transformation and fostering innovation across the aviation ecosystem.
12:10 - 12:30	Keynote
12:30 - 14:00	Lunch

IATA WORLD DATA SYMPOSIUM

14:00 - 14:25	Keynote: The Connected Passenger Economy: Trust, Privacy & Cyber Resilience
14:25 - 15:05	Panel: Deepfakes, Disinformation & Social Engineering: A Cross-Industry Perspective Cybercriminals don't respect industry boundaries - and neither do AI-powered threats. From impersonating airline executives and supplier partners to enabling financial fraud and orchestrating large-scale disinformation campaigns, deepfakes and advanced social engineering are challenging traditional approaches to trust and identity. Bringing together CISOs from aviation, critical suppliers, and the financial sector, this panel will explore how these industries are confronting a shared threat landscape, where attack techniques quickly migrate across sectors. The discussion will highlight lessons each industry can learn from the others and examine the collaborative strategies needed to strengthen resilience against the next generation of AI-enabled attacks.
15:05 - 15:30	Keynote
15:30 - 16:00	Networking break
16:00 - 16:40	Panel: Aviation Cybersecurity in an Era of Geopolitical Turbulence As geopolitical tensions reshape the global threat landscape, aviation is increasingly caught at the intersection of cyber conflict, economic disruption, and national security. Nation-state actors, hacktivist groups, and politically motivated cyber campaigns are targeting airlines, airports, and the critical supply chains that keep global aviation moving. This panel will bring cybersecurity leaders to share their perspective on how geopolitical events are influencing cyber risk, from state-sponsored attacks and supply chain compromise to sanctions, intelligence sharing, and operational resilience, and how organizations can adapt their security strategies to navigate an increasingly volatile world while maintaining safe, secure, and resilient.
16:40 - 17:05	Keynote: Boardroom to Runway: Elevating Cyber Risk to Executive Priority
17:05 - 17:30	Cybersecurity Runway Recap & IATA Announcements