AVIONICS AND TESTING INNOVATIONS

Conference and Exhibition

2nd-3rd June 2026
London, UK









Preliminary Conference Programme and Guide

Join us at **Avionics & Testing Innovations Conference & Exhibition** in London on 2nd-3rd June 2026, the premier event for industry professionals shaping the future of flight, flight deck and cockpit capabilities for the commercial and defense sectors.

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2nd-3rd June 2026

London, UK

Dedicated Conference & Exhibition for the Avionics and Testing Community

Avionics and Testing Innovations delivers a premier platform for the international avionics, testing and certification industries, across commercial and defence aviation, to learn, network and source new information, products and services at one unique annual event.

Single European Sky (SESAR 3 JU – a key enabler of the European Commission's Sustainable and Smart Mobility Strategy) and NextGen continue to dominate the aerospace industry, with targets of ensuring the utilisation of technology to increase traffic, improve aircraft and control communications whilst enhancing safety in an ever increasingly busy sky. Safety in all aspects of aviation is something we encourage active discussion and information sharing at the conference.

With many platforms currently in use, how does the industry ensure consistency, integration and reliable communication between and across these platforms to meet these objectives?

Avionics and Testing Innovations offers a leading conference programme, with excellent content and discussions, which includes strategic and technical details, delivering high level and quality presentations for both the commercial and defence sectors, fixed wing and rotorcraft.

- The premier event for the international avionics, testing and certification community in Europe.
- For the latest in SESAR3, NextGen and performance based navigation.
- For what the Pilot wants, the Aircraft needs and Industry must have.
- From aircraft to the ground and all communications and technologies in-between.

Avionics and Testing Innovations will discuss topics and issues of the day and demonstrate and showcase new products, developments, technologies and services available on the market, and also key elements of the upgrades and retrofits market, as well as research and innovations delivering the transformation to the Digital European Sky.

This Preliminary Conference Guide, provides you the information you need to plan your participation at the event.

We invite you to join us and the Avionics, Testing and Certification community in London, UK from 2nd-3rd June 2026, for the latest gathering of avionics, testing and certification professionals.







Register Online at www.avionicsandtesting-innovations.com

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2nd-3rd June 2026

London, UK

Who is it for?

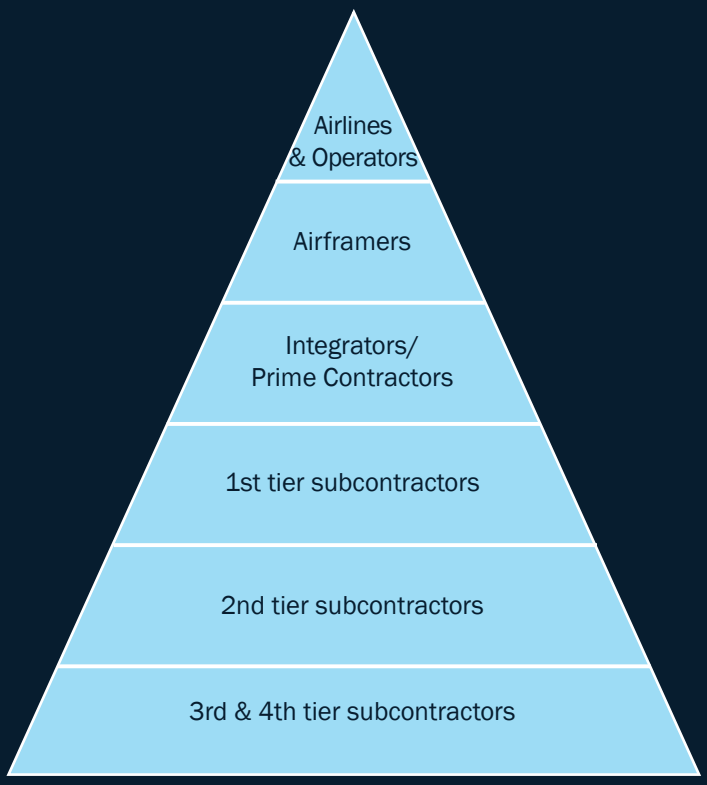
Avionics and Testing Innovations is designed for a broad representation from civil, government and military organisations, of senior management, project leaders, senior engineers, executives and decision makers who have the authority to purchase, or influence the purchase of products and services, from the following sectors:

- Airlines and Operators
- End users
- Airframers
- Integrators
- Prime contractors
- Design & Planning
- Aviation electronics and avionics manufacturers, fixed wing and rotorcraft
- Testing and Certification
- International Defence Agencies / Ministry of Defence
- Armed Forces

Delivering a complete value – added chain:

- **Airlines, Operators, End Users & Airframers**
- **Integrators/Prime Contractors** – design (develop) and assemble or manufacture complete units that have a direct contractual relationship with the Original Equipment Manufacturer (OEM)
- **1st tier subcontractors** - do major assembly/ manufacture without assembling complete units
- **2nd tier subcontractors** - make various subassemblies and sections to Tier 1 suppliers, specialising in specific components or technologies
- **3rd tier subcontractors** - produce machine components and sub assemblies, focusing on basic materials or manufacturing processes
- **4th tier subcontractors** – specialising in production of particular components and specific processes

Testing and **certification** are integral parts of the aerospace supply chain. Specialised testing facilities, often operated by Tier 1 suppliers or independent testing organizations, ensure that components and systems meet rigorous quality and safety standards.









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Why Attend?

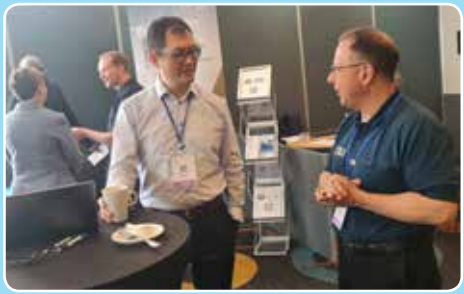
Avionics & Testing Innovations is the premier platform for the international avionics and aviation electronics industry to learn, network and source new information, products, technologies and services at one unique annual event.

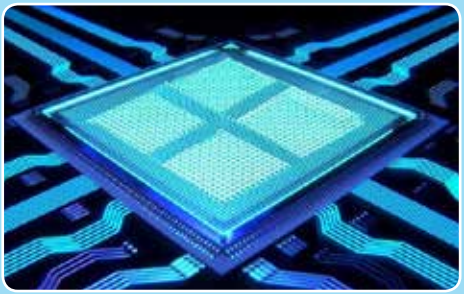
1. Keep up-to-date with the latest issues, challenges and discussions in avionics and aviation electronics
2. An insight into more technical discussions and approaches for ideas and practical solutions.
3. The only avionics event with conference discussions and training for enhanced learning and information gathering
4. Connect with senior engineers, program managers, OEMs, suppliers, regulators, and technology providers shaping the future of aerospace innovation.
5. Explore the exhibition floor featuring advanced tools, software, hardware, and testing solutions designed to enhance efficiency, safety, and performance.
6. Develop and forge relationships with potential suppliers/customers
7. Leave with actionable strategies to address current regulatory challenges, reduce development risk, accelerate validation processes, and future-proof your programmes.

Job Titles (Examples of):

- Avionics Supervisors
- Avionics Programme Managers
- Director/Head of Avionics
- Senior Avionics Engineers
- Senior Avionics Systems Engineers
- Avionics Engineers
- Avionics Software Engineers
- Avionics Technicians
- Design Engineers
- Senior Avionics Hardware Test Engineers
- Avionics Systems Specialists
- Nav and Comms Engineers
- Certification Managers
- Senior Certification Engineers
- Certification Engineers
- Director/Team Lead of Certification
- Certification and Compliance Engineers
- Avionics Testing Engineers
- Senior Test Engineers
- Director/Head of Testing
- Flight Test Engineers
- Cybersecurity Engineers
- Project & Programme Engineers
- Simulation & Modelling Engineers
- Research & Development Engineers
- Validation Engineers
- Systems Integration Engineers
- Embedded Software Engineers
- Validation and Verification Engineers
- Safety-Critical Software Engineers
- Software Architects
- IT Systems Engineers







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Key Growth Drivers for Avionics & Software Testing

Rising Complexity of Avionics Systems:
Modern aircraft increasingly rely on integrated digital systems, flight controls, navigation, communication, surveillance, and power/data management. As these systems become more software intensive, the need for rigorous testing grows proportionally.

Regulatory Pressure for Safety & Certification:
Aviation authorities (FAA, EASA, etc.) continue to tighten certification standards (e.g., DO 178C). Compliance requires extensive testing cycles, boosting demand for specialized avionics software testing solutions.

Expansion of Commercial & Military Aviation Fleets:
Both commercial airlines and military operators are expanding or modernizing their fleets. More aircraft → more avionics → more testing requirements across OEMs, MROs, and airlines.

Growth in UAVs and Next Gen Platforms:
Unmanned aerial vehicles (UAVs), business jets, and next gen aircraft introduce new avionics architectures and mission critical software, all of which require robust testing frameworks.

Shift Toward Automated and Cloud Based Testing:
The aerospace software testing market is seeing a shift from manual to automated testing, and from on premises to cloud deployments. Automation reduces cost and time, while cloud platforms support scalability and remote collaboration driving adoption.

Digital Transformation Across Aerospace:
The industry's broader digitalization, predictive maintenance data analytics, AI, IoT, robotics, connected aircraft - drives investment in software ecosystems and, by extension, testing environments to ensure reliability and cybersecurity.

Increasing Adoption of Advanced Avionics Software:
Growth in flight control, navigation, and communication software, especially embedded and modular open systems drives demand for validation and verification tools. The push for more intelligent, data driven avionics also expands testing needs.







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How To Register

Register online at **www.avionicsandtesting-innovations.com/register**

Early Bird Registration Now Open

Register online today and save €€€ with the Early Bird delegate fees.

Early Bird delegate rate deadline is 1st May 2026

Register online today to ensure you receive regular event updates and keep informed of the latest conference developments.

Visit **www.avionicsandtesting-innovations.com/registration** for conference delegate fees, discounts and to register online.

Military/Defence, Airlines & Public Sector – Discounted Places

If you work for and Airline/Operator, the Armed Forces (Air Force, Army, Navy) as a Government official (MOD, DOD, etc) or directly for a government agency or public body, you are entitled to apply for the special Military/ Defence & Public Sector discounted delegate pass.

Research/Student/Academia – Discounted Places

If you work for, or a Student at, a Research Institute or University, you are entitled to apply for the special Research/Student discounted delegate pass.

Delegate Packages include lunch and refreshments for the 2 day conference, and access to the Exhibition and Networking Reception

All Access Delegate – Commercial & Industry	All Access Delegate – Military/Defence & Public Sector	All Access Delegate – Research/Student
~~£ 695~~ £ 495	~~£ 295~~ £ 195	~~£ 295~~ £ 195
Early Bird Rate £495 + VAT (Standard Rate £695 from 1st May)*	Early Bird Rate £195 + VAT (Standard Rate £295 from 1st May)*	Early Bird Rate £195 + VAT (Standard Rate £295 from 1st May)*

Discounted Delegate Passes:

Through our Supporting Organisation, you are able to gain great discounts on conference delegate fees. Ask your organisation's contact for the Promo Discount Code and benefit from £££ savings:



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Schedule of Events

Tuesday 2nd June

	AVIONICS TRACK	TESTING TRACK	FACE TRACK
9.00am-10.30am		Joint Opening Keynote	
10.30am-11.00am		*Networking Coffee Break*	
11.00am-12.30pm	Latest in Regulations and Mandates	AI and ML in Testing	FACE Standards and Global Alignment
12.30pm-2.00pm		*Networking Delegate Lunch*	
2.00pm-3.30pm	Modernizing CNS: Bridging Technology and Stakeholder Needs in Evolving Airspace	Model-Driven Testing and Certification: Digital Twins, Tools, and Languages for Next-Gen Avionics	Open & Modular Architectures
3.30pm-4.00pm		*Networking Coffee Break*	
4.00pm-5.30pm	Cybersecurity in Connectivity and the Cockpit	Panel Discussion: Meeting Certification Standards – Barrier to Entry?	Data Modelling for Faster Integration: The FACE Approach
5.30pm-7.30pm	*Networking Reception in Exhibition Hall, sponsored by Wind River*		

Wednesday 3rd June

	AVIONICS TRACK	TESTING TRACK	MULTICORE TRACK
9.00am-10.30am	AI/ML and Autonomy in Avionics	Validation and Certification Challenges in Complex Aerospace Systems: From Mixed-Critical Architectures to Fit-to-Fly Testing	Standards, Regulations and Mitigation Challenges for Multicore
10.30am-11.00am		*Networking Coffee Break*	
11.00am-12.30pm	Obsolescence management - Legacy Systems & Fleet Modernization	Cybersecurity in the Testing Environment	The Roadmap for Multicore Hardware
12.30pm-2.00pm		*Networking Delegate Lunch*	
2.00pm-3.30pm	Human-Machine Teaming	Environmental Testing	Architecture and Software Development & Certification
3.30pm-4.30pm		*Walk the Exhibition Floor*	







Register Online at www.avionicsandtesting-innovations.com

AVIONICS TRACK DAY ONE PROGRAMME
Tuesday 2nd June

9.00 - 10.30am

JOINT OPENING KEYNOTE
Chair: Alex Preston
Helen Leadbetter, Technical Strategy Lead Zero Emissions Flight, UK CAA
Zahid Sultan-Khan, Chief Pilot Boeing 777, Silk Way West Airlines
Senior Representative, DSTL*
Senior Representative, Airbus*

10.30am-11.00am **Networking Coffee Break in Exhibition Hall**

11.00am-12.30pm

Latest in Regulations and Mandates
As Europe implements the SES2+ regulation and the new set of EASA-led interoperability rules, manufacturers and ANSPs face deadlines for certifying equipment, aligning to harmonised performance requirements, and integrating emerging technologies such as drones and eVTOLs. SESAR 3 is central to delivering the Digital European Sky, with efforts to advance automation, AI integration and virtualised ATM services. Aligning system architectures to new conformity standards is critical. Meanwhile, evolving U-space, drone, and eVTOL regulations demand parallel adaptation across airspace users and infrastructure providers. What are the latest updates on regulations and mandates that will impact the development and deployment of new technologies and systems?
Chair: Marijan Jozic
ATM standardization and regulatory updates - Nikos Fistas, Head of Standardisation, EUROCONTROL
ATM/ANS conformity assessment framework update (WG-130) - Andrea Trimarchi, Technical Programme Manager, EUROCAE
CIV-MIL interoperability item to be detailed - Jorge Pereira, Head of Communication, Navigation, Surveillance and Security Unit, EUROCONTROL
Title TBC - Enrico Parini, Director Europe Affairs, CANSO

12.30pm-2.00pm **Networking Lunch in Exhibition Hall**

2.00pm-3.30pm

Modernizing CNS: Bridging Technology and Stakeholder Needs in Evolving Airspace
The evolution of Communication, Navigation, and Surveillance (CNS) systems is essential for Trajectory Based Operations (TBO) and broad adoption of 4D Trajectories. Modern airspace operations rely on secure, resilient, real time data exchange using ADS B, Mode S, VHF, SATCOM, and scalable digital architectures to support rising traffic and new unmanned systems. At the same time, GNSS jamming and spoofing threaten navigation integrity. This session examines how advanced digital CNS capabilities—multi constellation navigation, interference detection and mitigation, APNT solutions, and robust PNT architectures—integrated with 5G/6G and LEO/GEO satellites can strengthen resilience, ensure safety, and enable future data driven airspace management.
Chair: Alex Preston
The multi-link advantage: Why combining satcom and VDL unlocks the full potential of future flight operations - Alex Holt, Regional Director, Business Development (EMEA), Flight Safety, Viasat
GNSS Interference - Emilio Pérez, Research Fellow Navigation, DLR & Chair, EUROCAE WG-133
Title TBC - Joe Darden, Director of Aviation, Iridium Satellite, USA
5G wireless quick access FDRs - Murray Skelton, Vice President Business Development , Firan Technology Group (FTG)
Modernizing CNS: Emerging Technology Enablers for Airspace Evolution - Professor Paul Febvre, Professor of Space Systems Engineering, Cranfield University

3.30pm-4.00pm **Networking Coffee Break in Exhibition Hall**

4.00pm-5.30pm

Cybersecurity in Connectivity and the Cockpit
Cybersecurity in aviation faces critical challenges including GNSS vulnerabilities such as jamming, spoofing, and interference, compounded by increasing connectivity. Avionics systems are increasingly networked and the integration of Electronic Flight Bags (EFBs), often consumer devices like iPads, introduces risks of data manipulation through two-way gateways to the flight deck. Maintenance tools and cabin systems pose additional threats if uncertified, risking malware introduction. Emerging 5G interference challenges demand resilient aircraft systems. New regulatory focus, such as CAA NIS-D, emphasizes data integrity alongside availability, mandating comprehensive cyber risk management. Protecting end-to-end data integrity, akin to navigation database standards (DO-200/ED-76), and DO-326A/ED200-2A compliance is essential to prevent upstream contamination, aviation systems security and ensuring safety.
Chair: Paul Hart, DEA Group
Security in Avionics Systems - Gary Gilliland, VP Marketing, DDCI
Cyber risk assessment aligned with latest aviation specific regulations - Dr. Thaddeus Eze, Cyber Security Consultant and Auditor, Airbus Protect
The increasing threat of GNSS Interference and Spoofing and the potential effects on Aviation - Andrew Addy, Technical Lead, PNT Assured
Quantum-Ready Avionics: Embedded DTLS and Secure Boot for the Next 30 Years - Andrew Hutchings, Senior Software Engineer, wolfSSL

5.30pm-7.30pm **Networking Reception in Exhibition Hall** WNDRVR

TESTING TRACK DAY ONE PROGRAMME
Tuesday 2nd June

9.00 - 10.30am

JOINT OPENING KEYNOTE
Chair: Alex Preston
Helen Leadbetter, Technical Strategy Lead Zero Emissions Flight, UK CAA
Zahid Sultan-Khan, Chief Pilot Boeing 777, Silk Way West Airlines
Senior Representative, DSTL*
Senior Representative, Airbus*

10.30am-11.00am **Networking Coffee Break in Exhibition Hall**

11.00am-12.30pm

AI and ML in Testing
The evolving landscape and digitalisation of avionics hardware and software testing and certification AI and ML are emerging in aerospace and avionics, raising complex testing and certification challenges, presenting significant verification and validation challenges. AI use cases are broadly categorized into narrow/specialized AI (e.g., object detection) and generative models, which pose greater unpredictability due to non-deterministic outputs. Current architectures favour non-safety-critical, passive AI/ML systems operating in parallel with primary avionics functions—supporting anomaly detection, predictive maintenance, and decision support. In light of limited data availability, what methods are most appropriate for testing and validating? How do you approach verification and validation of non-deterministic AI systems within the constraints of deterministic safety standards like ED-324/DO-178C? Where will EUROCAE technical standards (WG114) support the development of systems and the certification of aeronautical systems implementing AI-technologies?
Chair: Marc Gatti, Thales
Accelerating Airworthiness: Automation's Role in Faster Verification for ED-12C / DO-178C Certification - Paul Butcher, Head of Dynamic Analysis, AdaCore
Agentic Simulation for Accelerated Virtual Avionics System Development and Testing - James Hui, System Simulation Product Manager, Wind River
Joint standard ED-XXX/ARP8644 Automation of Aircraft Inspections - Gary Brown, Principal Safety Engineer & Ai Referent, Airbus Operations, France
Shadow Testing: The Secret AI Adoption Already Happening in Your Supply Chain - Adam Mackay, Head of AI Research, QA-Systems

12.30pm-2.00pm **Networking Lunch in Exhibition Hall**

2.00pm-3.30pm

Model-Driven Testing and Certification: Digital Twins, Tools, and Languages for Next-Gen Avionics
Advanced avionics systems demand a shift in how we test and certify software. This session explores the rise of model-driven approaches—spanning digital twins, simulation, and model-based testing—alongside emerging tools and languages like Rust and CHERI. These technologies promise improved scalability, security, and assurance, but also raise new challenges for validation and certification. How can simulation, virtualization, and automation shape the verification processes, and how are standards like ED-12C/DO-178C and ED-215/DO-330 adapting to support tool qualification and digital validation? How do we validate digital models? What qualifies as a certifiable toolchain? This session explores the convergence of advanced testing technologies and modern certification frameworks.
Chair: Matt Jackson, PACE Aerospace
Simulation-Driven Validation for Mode 5 Certification and CMS Testing: A Dual Approach Using SkyRF Moving Target - Domien De Ruyck, Managing Director, Intersoft Electronics
The Strategic Shift in Avionic Validation - Towards the Testing Ecosystem - Franco Alfonsetti, Head Of Test Solutions Engineering, Leonardo Electronics
Emergence of Rust Testing - Jose Ruiz, Product Manager, AdaCore & Antoine Colin, CTO, Rapita Systems
Model-Driven Testing and Certification - Ashish Sethi, Senior Director, PAVE360 Technical Programs, Siemens EDA & Dr Edward Jinks, Digital Strategy Lead A&D, Siemens UK

3.30pm-4.00pm **Networking Coffee Break in Exhibition Hall**

4.00pm-5.30pm

Panel Discussion: Meeting Certification Standards – Barrier to Entry?
While certification standards safeguard safety and reliability, their rigidity and escalating costs may deter innovation and small-market participation. Inconsistencies across commercial, military, VTOL, and UAV certification frameworks further complicate compliance. Limited data sharing also hinders assurance for advanced cockpit systems, as more tech is introduced to support the pilot. In the wake of the 737 MAX crisis, stricter oversight—such as CS-25 Amendment 28 and EASA's conservative stance—has intensified regulatory caution. This panel discussion explores whether adopting DER-like delegated authority frameworks or reverting to simpler, lower-complexity technologies could streamline certification, reduce cost and time, and help sustain innovation without compromising safety, or whether regulators are hindering the industry by over protection.
Chair: Alex Preston
- Alex Milns, Technical Programme Manager, EUROCAE
- Gary Brown, Principal Safety Engineer & Ai Referent, Airbus Operations, France
- Michael Mustillo, Head of Flight Control, Vertical Aerospace
- Jon Forde, Technical Director / Chief Engineer, Assured Intelligence
- Senior Representative, SPHEREA Test & Services*

5.30pm-7.30pm **Networking Reception in Exhibition Hall** WNDRVR

FACE TRACK DAY ONE PROGRAMME
Tuesday 2nd June

9.00 - 10.30am

JOINT OPENING KEYNOTE
Chair: Alex Preston
Helen Leadbetter, Technical Strategy Lead Zero Emissions Flight, UK CAA
Zahid Sultan-Khan, Chief Pilot Boeing 777, Silk Way West Airlines
Senior Representative, DSTL*
Senior Representative, Airbus*

10.30am-11.00am **Networking Coffee Break in Exhibition Hall**

11.00am-12.30pm

FACE Standards and Global Alignment
As aviation systems adopt open architectures, aligning the Future Airborne Capability Environment (FACE) with NATO and other international standards is essential to achieving global interoperability. This session explores how the FACE Consortium—now an international community—is promoting a common approach to software portability and integration while encouraging broader international engagement in standards development and alignment. Discussion will focus on how FACE aligns with related initiatives such as MOSA and SOSA, and how collaborative efforts among governments, industry, and regulators are shaping the next generation of open standards—driving consistency, reuse, and accelerated capability delivery across allied airborne and mission systems.
Chair: Kirk Avery, Lockheed Martin
Latest on FACE Standards - Alicia Taylor, FACE Director
EU-MOSA: A Strategic Framework for Modular Open System Architecture in European Defense Aviation - Mauro Baldassarre, Avionic System Engineer, Leonardo
Thales FMS200 FACE Conformance Journey - Jean-Philippe Amouroux, Embedded Software Architect, Thales Avionics
Alignment of MOSA Standards with Mixed-Criticality Approaches to Cost Reduction - Clifford Bilbrey, Software Engineer, Qt Group

12.30pm-2.00pm **Networking Lunch in Exhibition Hall**

2.00pm-3.30pm

Open & Modular Architectures
Avionics is shifting from monolithic systems to open, modular architectures guided by the Future Airborne Capability Environment (FACE) standard. FACE defines common interfaces and data models to enable software portability, reuse, and faster integration across airborne platforms—principles now embedded in UK programmes such as PYRAMID and Team Tempest. While shared compute and software-defined functionality increase flexibility, they also raise challenges in interface control, integration testing, and verification across heterogeneous processors (GPUs, FPGAs, AI accelerators). Emerging technologies like Time-Sensitive Networking (TSN) and FACE I/O Services support deterministic, certifiable communications. This session examines how adopting FACE-aligned open standards delivers technical interoperability, reduced lifecycle cost, and accelerated capability delivery for both industry and government programmes.
Chair: Alicia Taylor, FACE Director
Technical Alignment between PYRAMID and FACE Technical Standard - Jon Forde, Technical Director / Chief Engineer, Assured Intelligence
MOSA for Software Architecture - Gary Gilliland, VP Marketing, DDCI
Software Defined Defense Systems: Best Practices for Developing and Verifying Safe and Secure Modular Software - Stephen Di Camillo, Technical Marketing and Business Development Manager, TASKING
The API Language Choice Challenge in FACE: Impacts on Integration and Reuse - Jean-Philippe Amouroux, Embedded Software Architect, Thales Avionics

3.30pm-4.00pm **Networking Coffee Break in Exhibition Hall**

4.00pm-5.30pm

Data Modelling for Faster Integration: The FACE Approach
Open architectures and emerging technologies are reshaping how avionics systems are integrated. Within the Future Airborne Capability Environment (FACE), data modelling—through the Open Universal Domain Description Language (Open UDDL)—provides a common, extensible method for defining and exchanging data. By eliminating ambiguity and supporting model-based engineering, Open UDDL accelerates integration and enables greater reuse of COTS and software components. This session explores how FACE data modelling improves interoperability, speeds capability delivery, and aligns with advances in AI-driven data analysis and system management—ensuring integration is faster, more reliable, and adaptable across next-generation airborne and mission systems.
Chair: Alicia Taylor, FACE Director
UDDL (introduction to and how used) - Gordan Hunt, Skayl
FACE technical standard and data architecture - Kirk Avery, Senior Fellow and the Mission Systems and Autonomous Technologies Chief Architect, Lockheed Martin
SOSA Technical Standard and Data Architecture - Nick Borton, SOSA Director, The Open Group
How Can Data-Centricity Accelerate and Simplify Verification and Validation for Next-Gen Open Avionics? - Paul Tingey, Senior Field Application Engineer, EMEA, RTI

5.30pm-7.30pm **Networking Reception in Exhibition Hall** WNDRVR

AVIONICS TRACK DAY TWO PROGRAMME
Wednesday 3rd June

9.00am-10.30am — **AI/ML and Autonomy in Avionics**

Artificial Intelligence (AI) and Machine Learning (ML) are increasingly integrated into avionics systems and safety-critical environments to enhance capabilities. AI/ML is being used at the aircraft, not just in it, including sensor fusion, target recognition, predictive maintenance, flight control, adaptive mission systems, and autonomous UAVs. EUROCAE WG-114 is formalizing the first AI-specific aviation standard (target release: mid-2026) to support regulatory alignment. WG-132 is concurrently developing joint guidance with SAE for ML-enabled automated aircraft inspections using UAS and robotics. How can AI continue to develop to assist avionics technology developments? How do we develop AI/ML and usage standards, ensuring ED-12C/DO-178C and ED-215/DO-330 compliance, when there is a lack of data?

Chair: Gary Brown, Airbus

ED-324 / ARP6983 - Integration of AI/ML into Aircraft and non-aircraft Avionics - Dr Fateh Kaakai, Safety Expert and AI Assurance Researcher, co-chair of EUROCAE WG-114, Thales

Title TBC - Mark Roboff, SkyThread

Enabling ATM-U-space Interoperability: Validation of Digital Coordination Services - Sergio Ruiz, ATM Innovation Expert, EUROCONTROL

- Senior Representative, Collins Aerospace*

10.30am-11.00am — **Networking Coffee Break in Exhibition Hall**

11.00am-12.30pm — **Obsolescence management - Legacy Systems & Fleet Modernization**

Managing obsolescence in aerospace involves extending the life of 1st/2nd generation systems, often without full documentation or original engineers. Legacy avionics remain common, but retrofitting them to meet modern standards is complex and costly. Integration of new hardware/software with outdated architectures requires deep understanding of original design rationale. Key technical challenges include sourcing end-of-life components, mitigating the risk of counterfeit parts, and maintaining or refactoring legacy codebases. How do we retain engineers with domain expertise in legacy systems and manage compliance and safe system modernization.

Chair: Alex Preston

Why Is Aviation Concerned By Obsolescence - Marijan Jozic, Managing Director, Jozic Engineering

Title TBC - Rob Picken, Senior Vice President, Digital & Partnerships, Sourceability International Institute of Obsolence Management

Title TBC - Luke Fitzpatrick, Rochester Electronics

The Continuity Principle - Karen Salmon, CEO, Force Technologies

12.30pm-2.00pm — **Networking Lunch in Exhibition Hall**

2.00pm-3.30pm — **Human-Machine Teaming**

As AI, automation, and virtual systems transform flight decks, the relationship between pilots and machines is being redefined. We explore the evolution from traditional interfaces and autopilots to true human–machine teaming, where the pilot remains central "in the loop." How can intelligent systems generate and communicate scenarios, assist decision-making, and how emerging technologies—such as AR-enabled displays, adaptive interfaces, and virtual copilots— can enhance pilot performance and trust. It will also look at the balance between innovation, human factors, and regulatory constraints to ensure safety and usability remain at the core of next-generation cockpit design.

Chair: Hannes Griebel, CGI

Title TBC - Marc Gatti, Deputy Scientific Director & Academics Relationship, Thales Avionics SAS

Title TBC - Carlos Sequeira, Airline Pilot, Psychologist, and Human Factors Expert, Ryanair

Title TBC - Matt Jackson, Technical Product Manager HMI and Embedded Systems PACE Aerospace

The Future Flight Deck Based On Human-Centric Design - Wen-Chin Li, Director on Safety and Human Factors in Aviation & Dr James Blundell, Senior Lecturer in Aviation Human Factors, Cranfield University

3.30pm — **Conference Close**

4.30pm — **Exhibition Close**

**invited*

Register Online at
www.avionicsandtesting-innovations.com

TESTING TRACK TWO PROGRAMME
Wednesday 3rd June

9.00am-10.30am

Validation and Certification Challenges in Complex Aerospace Systems: From Mixed-Critical Architectures to Fit-to-Fly Testing

The drive to reduce SWaP (Size, Weight and Power) through integrating mixed-critical functions on shared architectures demands rigorous testing of fault, time, and space isolation between safety-critical and non-critical partitions, including worst-case execution and interference scenarios in compliance with EASA CS-25 and ARINC 653. Concurrently, VTOL and UAV platforms require system-level validation of performance, autonomy, and safety functions within controlled sandbox environments. EUROCAE WG-112's "fit to fly" criteria guide certification efforts, addressing airworthiness, flight dynamics and system integration, for these new aircraft types. This session explores how evolving standards and advanced testing strategies ensure robust, certifiable systems operating safely in complex aerospace environments.

Chair: Alex Preston

Novel avionic integration methodologies - Gennaro Bottino, Software Engineer, Leonardo

Designing and Testing Complex FPGAs for High-Integrity Applications - Jack Sampford, Chief Firmware Engineer, Phixos

Shift Left: Accelerate Development by frequent E/E testing on multiple integration levels - Jakov Sprljan, Business Development, Schleißheimer Soft- und Hardwareentwicklung GmbH

Taking 'real-time' requirements seriously - Peter Gliwa, CEO, GLIWA GmbH

Timing - how well do you understand it? - Dr Adriana Gogonel, Product Director, Vector

10.30am-11.00am

Networking Coffee Break in Exhibition Hall

11.00am-12.30pm

Cybersecurity in the Testing Environment

Cybersecurity requirements are now integral to the verification and validation (V&V) process for avionics and embedded systems, driven by mandatory compliance with DO-326A / ED-202A series under EASA Part 21 and FAA Special Conditions for connected systems. With increased network exposure (e.g., ACARS, ADS-B, SWIM, onboard Wi-Fi), system-level cybersecurity testing is prioritized alongside traditional safety assessments. Key activities such as threat modeling, penetration testing, secure boot validation, and verification of isolation in mixed-criticality environments provide unique challenges. How does the industry focus on tooling and methodologies that support combined safety and security certification—positioning cybersecurity as a top priority?

Chair: Philippe Lievin, Thales

Aeronautical Systems Security - Dr. Stefan Schwindt, Senior Principal – Aerospace Cyber Security, GE Aviation, and member of EUROCAE's WG-72

From Point-in-Time Certification to Continuous Assurance: Integrating Product Security into V&V for Aerospace and Defence - Vitor Monteiro Correia, Senior Business Development Manager, Critical Software

Requirements-Driven Cybersecurity: Connecting Secure Design to the Testing Environment - Victor Lancien, Sales Account Manager Europe, Visure Solutions

Integrating Security into Safe Airborne Software Development - Carsten Beck, Head of Product Development PikeOS, SYSGO

12.30pm-2.00pm

Networking Lunch in Exhibition Hall

2.00pm-3.30pm

Environmental Testing

Environmental testing ensures avionics systems perform reliably under diverse operational conditions. Methods such as signal integrity, functional, modular, and simulation testing help identify failures early by validating system behaviour under stress, isolation, and real-world scenarios—including faults and extreme environments, such as extreme temperatures, humidity, and pressure. These tests are critical for safety and cost-effective development. EUROCAE WG-14 is updating ED-14G to ED-14H / DO-160, revising environmental categories, test procedures, and guidance to reflect modern technologies and expanded use cases, including UAS ground stations. Alignment with RTCA standards and updated guidance (ED-234A) will reshape qualification strategies, requiring teams to revise compliance approaches.

Chair: Alex Preston

Main evolutions of the ED-14H - Eric Delesalle, Senior Expert EMI & Lightning indirect effect Compliance Verification Engineer (CVE), Safran Aircraft Engines

ED-14 / DO-160 / MIL-STD testing for avionic units - Paul Hart, CTO, DEA Specialised Airborne Operations

The Shadow Standard: Tribalism and inherited inefficiencies in Safety Certification: A Focus on ED-80 / DO-254 - Bruno Chaves, CEO (Product & Strategy) Critical Manx

6th Generation Test Environments - Paul Wilkins, Chief Engineer, Leonardo UK Ltd & Timothy Oswin, Systems Engineer, Leonardo, UK

3.30pm

Conference Close

4.30pm

Exhibition Close

**invited*

Register Online at
www.avionicsandtesting-innovations.com

MULTICORE TRACK DAY TWO PROGRAMME
Wednesday 3rd June

9.00am-10.30am	**Standards, Regulations and Mitigation Challenges for Multicore** Multicore processors are key to the future of avionics, offering greater performance, reduced SWaP, and support for advanced real-time applications. This session will provide an overview of the certification landscape shaping multicore avionics systems. Gain clarity on evolving standards—ED-12C/DO-178C, ED-80/DO-254, CAST-32A, and AMC 20-193—and their impact on safety, determinism, and interference mitigation. The discussion aims to highlight regulatory expectations, risk management approaches, and compliance strategies critical to delivering certifiable multicore solutions. Understand the challenges for standards bodies, certification tools, regulators and the supply chain shaping the future of multicore avionics compliance. ***Chair: Hannes Griebel, CGI*** - Senior Representative, Rolls Royce* **Multicore Certification Beyond ANC 20-193** - Karl Thyssen, Senior Multicore Engineer, Rapita Systems - Senior Representative, NXP* **Title TBC -** Senior Representative, DDC-I Inc
10.30am-11.00am	**Networking Coffee Break in Exhibition Hall**
11.00am-12.30pm	**The Roadmap for Multicore Hardware** The multicore hardware roadmap focuses on delivering deterministic, safety-certifiable processors that meet escalating performance requirements without sacrificing reliability. Hardware designers must implement robust spatial and temporal isolation, minimize core and shared resource interference, and comply with ED-80/DO-254, CAST-32A, and AMC 20-193 standards. Critical questions remain: Is current hardware sufficiently mature for safety-critical certification? How are suppliers ensuring long-term availability, configurability, and comprehensive toolchain support? What future and upcoming technologies can provide complete or partial solutions to these challenges? As performance demands grow and costs rise, can hardware innovation keep pace with the avionics industry's stringent needs for predictability, traceability, and certifiability? ***Chair: Matt Jackson, Pace TXT*** **Title TBC** - Amador Rafiq , Embedded Solutions Engineer - Aerospace & Defense, Microchip Technology **Managing Memory Interference on Heterogeneous MPSoC: Challenges and Industry-oriented Approaches** - Andrea Bastoni, CTO, Minerva Systems **Is Robust Partitioning achievable with a multi-core system? - Olivier Charrier, Principal Technologist** - Functional Safety, Wind River & Karl Thyssen, Senior Multicore Engineer, Rapita Systems **Hardware selection for a high-criticality multicore project: principles and pitfalls** - Senior Representative, Rapita Systems
12.30pm-2.00pm	**Networking Lunch in Exhibition Hall**
2.00pm-3.30pm	**Architecture and Software Development & Certification** Most software development complies with standards like ED-12C/ DO-178C and AMC 20-193, prioritizing determinism, partitioning, and interference mitigation. How can hardware-software co-design enable robust scheduling, partitioning, and interference management, ensuring deterministic system behaviour. Furthermore, what does verification and certification truly entail for multicore avionics platforms, considering the complex interplay between hardware and software in safety-critical environments? ***Chair: Gary Gilliland, DDC-I*** **Intel and Avionics - Powering Avionics Safety & Accelerating Safety Certification** - Maurizio Iacaruso, Functional Safety Software Architect, Intel Corp **Leveraging multi-core processors for Safety-Critical Applications on IMA platforms** - Damien Chabrol, VP Innovation & Strategy, Asterios Technologies **Importance of Control Coupling and Data Flow Analysis in Certifying Multicore Systems** - Mark Richardson, Lead Field Application Engineer, TASKING **Multicore Certification with Bare-Metal Ada** - Jose Ruiz, Product Manager, AdaCore
3.30pm	**Conference Close**
4.30pm	**Exhibition Close**

**invited*

Register Online at
www.avionicsandtesting-innovations.com

AVIONICS AND TESTING INNOVATIONS

2nd-3rd June 2026
London, UK

Networking Reception

Networking Reception Sponsor:

WNDRVR

Tuesday 2nd June 2026
5.30pm-7.30pm
Exhibition Hall

We invite you to joins us at the end of the day on Tuesday 2nd June 2026, for the networking reception on the Exhibition floor at the Radisson Red Heathrow, *sponsored by Wind River*, which will see the avionics and aviation electronics community gather for this informal reception – and the opportunity to join and network with members from the commercial and military/defence. aerospace and testing community with the Avionics & Testing Innovations Networking Reception.

With the opportunity to meet colleagues and peers you can build relationships with colleagues, peers, new customers and old, in a relaxed and friendly atmosphere.

The Networking Reception is open to industry professionals.

We look forward to welcoming you.

Venue

Radisson Red London Heathrow
Bath Road Building B
West Drayton
Heathrow UB7 0DU



The Radisson Red London Heathrow is an excellent venue with high quality facilities and ideally located close to Heathrow Airport, with regular free shuttle transfer to all terminals, for flight arrivals or train.

Parking is also available on site at just £10 per day, and £15 overnight.

More details can be found at **www.avionicsandtesting-innovations.com/venue**

Accommodation

Avionics and Testing Innovations has arranged a special group booking rate for delegates and participants.

Special Group Rate – from £129 prpn B&B

To book your accommodation at the special group rate, use Promo Code '**AEIN0626**' at the checkout.

Book your accommodation online at **www.avionicsandtesting-innovations.com/hotel-booking**







Register Online at www.avionicsandtesting-innovations.com

AVIONICS AND TESTING INNOVATIONS

2nd-3rd June 2026

London, UK

How to Get There

Radisson Red London Heathrow
Bath Road Building B
West Drayton
Heathrow UB7 0DU

How to get to the Radisson Hotel & Conference Centre London Heathrow:

Address - Bath Road (Building A), West Drayton, Heathrow, London UB7 0DU, United Kingdom (closest terminal is 2&3)



By airport shuttle:

"Hotel Hoppa" buses stop outside London Heathrow Terminals 1, 2, 3, and 5 between 4:15 am and 10:00 pm. Travel time is between 20-30 minutes. Tickets cost GBP 6.80 one way.

To reach us from Terminals 2 and 3, take the Hotel Hoppa H2B and H2C.

From Terminal 5, take Hotel Hoppa H5B.

For the latest and most up-to-date information, please check the "Hotel Hoppa" Timetable website directly.



By Public bus:

From terminal 2&3: bus 105 / 111 / 278 / 285 (3 stops to Nene Road)

From terminal 4: bus 490 (3 stops to Great South West Road) then bus 285 (7 stops to Nene Road)

From terminal 5: bus 423 (7 stops to Nene Road)



Elizabeth Line from Heathrow also has quick access to/from Central London.







Register Online at www.avionicsandtesting-innovations.com

AVIONICS AND TESTING INNOVATIONS

2nd-3rd June 2026

London, UK

Conference Advisory Committee

Avionics & Testing Innovations would like to thank the conference committee members for their valuable contribution and experts views helping to deliver a first class, cutting edge conference programme:

AIRBUS
Gary Brown
Principal Safety Engineer & AI Referent

EMBRYA
Jacques Gatard
Co-Founder and CEO

EUROCONTROL
Nikos Fistas
Senior Expert Standardisation

RAPITA SYSTEMS A DANLAW COMPANY
Antoine Colin
CTO

THALES
Marc Gatti
Scientific Director & Academics Relationships

DDC-I
Gary Gilliland
Vice President Marketing

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VP Global A&D and Industry Team Lead

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AVIONICS AND TESTING INNOVATIONS

2nd-3rd June 2026
London, UK

Floorplan and Exhibiting Opportunities

Exhibiting Investment

The cost of exhibiting at the Avionics and Testing Innovations requires a minimum of 6 sq.m.

Half Height Shell Scheme - £895/ m²

We've calculated for your convenience:
6sq.m = £5,370
9sq.m = £8,055
12sq.m = £10,740

Package includes: floor space, full 2.4m height back wall, 3ft high side walls, furniture (table and 2 chairs), 2 x lights, 1 x power socket, 2 exhibitor delegate passes with lunch and coffee breaks included, listing in the official event guide and website. (Additional Delegate Passes can be purchased at special rates).

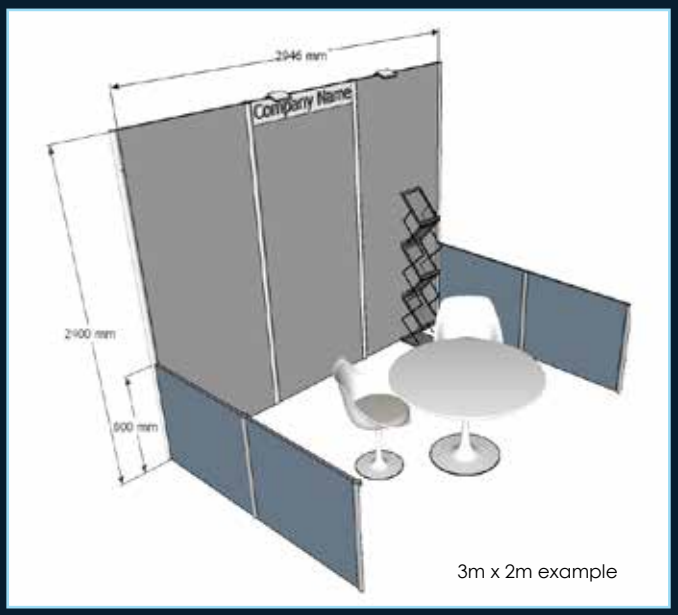
Space only (for self build only) - £745/ m²

We've calculated for your convenience:
6sq.m = £4,470
9sq.m = £6,705
12sq.m = £8,940

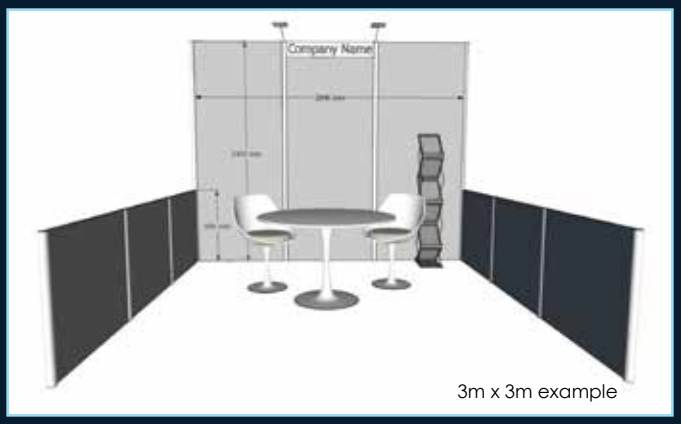
For self build stands (not suitable/allowed for pop-up booths), including 2 exhibitor delegate passes with lunch and coffee breaks included, listing in the official event guide and website.

Additional Exhibition Booth Passes (excludes conference access) can purchased at a cost of £195 each, which includes lunch and coffee breaks for the two days.

Half Height Shell Scheme



3m x 2m example



3m x 3m example

Disclaimer: Furniture shown in this image is not actual furniture style supplied but an example of booth style.







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AVIONICS AND TESTING INNOVATIONS

2nd-3rd June 2026

London, UK

Sponsorship Opportunities

A limited number of opportunities exist to organisations wishing to be involved with the conference and exhibition and the opportunity to meet and gain maximum exposure to a key and influential audience.

Some of the sponsorship package opportunities are highlighted below. Packages can be designed and tailored to meet your budget requirements and objectives.

Platinum Sponsor (includes a 4m x 3m booth)	£22,950
Gold Sponsor (includes a 4m x 3m booth)	£18,950
Silver Sponsor (includes a 3m x 3m booth)	£14,950
Bronze Sponsor (includes a 3m x 2m booth)	£12,500
Delegate Folder Sponsor	£6,950
Networking Reception Sponsor	£6,950
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Coffee/Drinks Break Sponsor	£5,950
Conference Proceedings Sponsor	£4,950

For further details and to discuss, contact Simon Barker, Sales Director, on +44 (0) 7825 883595 or email **simonb@aerospace-innovations.com**.

Enhanced Brand Visibility: Sponsoring Avionics and Testing Innovations provides a platform to showcase your brand to a targeted audience of potential clients and partners, increasing your visibility and brand awareness.

Networking Opportunities: Avionics and Testing Innovations is an ideal opportunity for networking and building relationships with industry professionals, potential clients, and strategic partners. You'll have exclusive access to networking events and other opportunities to connect with key decision-makers.

Lead Generation: Sponsorship at Avionics and Testing Innovations allows you to generate high-quality leads and engage in one-on-one conversations to identify and develop relationships with potential customers and business partners.

Thought Leadership: Avionics and Testing Innovations can help position your company as a thought leader in the industry and showcase your expertise and building credibility.

Positive Brand Association: By associating your brand with Avionics and Testing Innovations, you can enhance your brand image and reputation. Aligning yourself with a well-respected event can help you attract new customers and partners, and build trust with your existing audience.







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AVIONICS AND TESTING INNOVATIONS

2nd-3rd June 2026
London, UK

Want to speak to someone - contact us?

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Neil Walker
Director of Marketing & Conferences
T: +44 (0) 7725 318601
E: neilw@aerospace-innovations.com

Further Information

If you are interested in exhibiting and sponsorship opportunities at the 2026 Avionics and Testing Innovations, please complete the form and email to **simonb@aerospace-innovations.com**, or visit **www.avionicsandtesting-innovations.com/contact** and enquire online.

Name: _____

Job Title: _____

Organisation: _____

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County/State: _____

Postcode/ZIP: _____ Country: _____

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Please tick if you do not wish to be contacted by:

Tel: ☐ **Email:** ☐ **Mail:** ☐

Data Protection: Personal Data is gathered in accordance with the Data Protection Act 1998 and GDPR 2019.

Queries relating directly to the event should be directed to info@aerospace-innovations.com







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