

Trust Framework Panel Update and Work Items

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TFP Meetings

- TFP-WG/2
 - November 2024
 - Documentation Development
 - Table-top Exercise
 - Use-case Development
 - Technical Presentations
- TFP-JWG/1
 - April 2025
 - Documentation Development
 - Use-case Development

Aviation Common Certificate Policy

- The ACCP is a reference CP that provides a common baseline for PKI interoperability
- Developed after comparison analysis of 20 existing certificate policies already in use
- Describes the minimum requirements for digital certificate management, creation, public/private key management and cryptographic algorithms
- Describes common levels of assurance and standardized certificate profiles for aviation applications

ACCP TFP/NSP Coordination

- TFP has worked with NSP to develop SBAS authentication protocols for future SARPS
- ACCP has been amended to incorporate SBAS authentication
 - One new certificate profile now incorporated into the ACCP
 - Able to re-use an existing profile removing the need to create a new one
 - Technical SBAS authentication work in line with Galileo Open Service Navigation Message Authentication

ACCP Next Steps

- Document is currently undergoing inter-panel coordination
- Target publication date: July 2025

Manual on Aviation Information Security

- The MAIS provides guidance on interrelating risk assessments for safety and information security, and an information security framework of performance-based objectives
 - The objectives allow stakeholders to adopt or map existing information security controls to a common baseline
- The MAIS does not replace or overtake a TFI participant's existing ISMS (if they have one)
- Objectives have three implementation levels depending on the level of protection needed

Manual on Aviation Information Security

- Doc 10204 is available as a first edition
- Some sections of the document were withheld from the first edition,
 - Three sections pending further coordination with other expert groups via an inter-panel task force
 - One section under development by TFP

Manual on Trust Frameworks

- The manual's intent is to document the process of forming a Trust Framework Instance (TFI), the steps involved, and recommended implementation strategies
 - TFIs are agreed harmonized set of processes and procedures to serve as a common backbone for secure, identity-assured digital communications within a defined scope of the aviation sector.
 - A TFI sets requirements for the protection of information integrity and authenticity, through a federated PKI model
- The Manual on Trust Frameworks will also include operational use-cases and provide guidance on how TFIs tailored to them could be implemented

Manual on Trust Frameworks

- Editorial group formed
 - Group will review and determine applicability of provided material for the ICAO-level guidance
 - Develop new content as required to support the agreed structure and content decided on at the TFP/2 meeting

TFI Technical Presentations

- Electronic Navigation Research Institute of Japan (ENRI) live, in-air demonstration of the connected aircraft concept using a SWIM service-based trust framework for connected aircraft
 - Further demonstrations are planned
- Internet Engineering Task Force (IETF) on drone identification and leveraging TFP materials

Future Meetings

- TFP-WG/3 scheduled for week of 17 November 2025
- Next full panel meeting planned for 2026

Thank You!

