



**CIVIL AVIATION SAFETY AUTHORITY
OF PAPUA NEW GUINEA**

Aviation Cybersecurity in Papua New Guinea

**ICAO APAC Aviation Cybersecurity Seminar
12th-14th March 2025
ICAO APAC Regional Office
Bangkok, Thailand**



PNG Strategy in terms of Cybersecurity

- PNG has adopted ICAO Annex 17, amendment 18 and the security related aspects of Annex 9 - Facilitation. PNG recognizes that aviation security and cybersecurity are critical for the sustainable development of air transport and that they need to be prioritized and appropriately resourced.
- PNG is committed to addressing Cybersecurity in Aviation. The State has captured the Strategic Objectives of the Muscat Declaration in its Policy and Corporate Documents.
- PNG is in the process of ratifying the *Convention on the Suppression on Unlawful Acts to International Civil Aviation* and the *Protocols Supplementary to the Convention for the Suppression of Unlawful Seizure of Aircraft* (Beijing 2010) amongst others, hopefully by June 2025.



PNG's alignment to ICAO's Aviation Cybersecurity Framework

- ICAO Documents & Guidelines:
 - ICAO Aviation Cybersecurity Strategy
 - ICAO Cybersecurity Action Plan
 - ICAO Annex 17 (Security) and Annex 19 (Safety Management)
 - ICAO Doc 9985 – Guidance on Air Traffic Management Security
- ICAO Global Aviation Security Plan (GASeP)



Guidance Material

- Aviation Security Manual Document 8973
- Annex 17
- Air Traffic Management Security Manual (Doc 9985 – Restricted)
- ICAO Aviation Cybersecurity Strategy
- ISO 27001

- National Security Policy
- National Cybersecurity Policy 2021
- National Cybersecurity Strategy 2024-2030
- PNG Government Cybersecurity Standards Guidelines and Best Practices 2023 v1
- Cybercrime Act 2016
- National Civil Aviation Security Programme (NCASP)

- Aviation Security Risk Assessment Methodology (AVSRAM)
- Civil Aviation Rules (CARS)
- CASAPNG ICT Policy

- IT Polices
- Assessment Checklists

International

National

Aviation Authority

Aviation Industry

Appropriate Authority

- International Civil Aviation Organization (ICAO)
- International Standards Organization (ISO)

- National Security Agency
- PNG Department of Information Communication Technology (DICT)
- National Information Communication Technology Authority (NICTA)
- Civil Aviation Safety Authority of PNG (CASAPNG)

CASAPNG

PNG Aviation Industry



PNG's Risk Management Approach

- PNG has adopted a risk-based, data driven approach to proactively mitigate the existing and emerging security incidents and risks.
- In accordance with Aviation Security Risk Assessment Methodology, PNG applies the following:
 1. Risk Identification
 2. Risk Evaluation
 3. Risk Mitigation



Challenges in PNG's Aviation Cybersecurity

- Limited Resources:

Shortage of skilled cybersecurity professionals.

- Technology Gaps:

Outdated infrastructure and difficulty integrating modern cybersecurity solutions.

- Awareness & Training:

Need for cybersecurity awareness and capacity building among aviation stakeholders.



Way Forward for Aviation Cybersecurity in PNG

- Strengthen the Legislative Framework for Aviation Cybersecurity.
- Invest in cybersecurity infrastructure, training, and capacity building.
- Enhance regional and international collaboration for threat intelligence sharing.
- Conduct regular cybersecurity audits and risk assessments.