



**Agenda Item 7A: Innovation**

**INNOVATION IN SECURITY MECHANISMS APPLIED TO AVIATION INSPECTORS'  
CREDENTIALS**

(Working Paper presented by Peru)

<b>SUMMARY</b>	
<p>This Working Paper describes the process undertaken by Peru to innovate and strengthen security mechanisms in aviation inspectors' credentials as an additional control measure provided by the Civil Aviation Authority to enhance the security of areas accessed by such personnel. In addition to the security elements previously applied (ribbons, security codes, and holograms), a QR code has been incorporated into each inspector's credential. This measure aims to reinforce the way each inspector is identified, making it traceable and verifiable in real time.</p>	
<b>References:</b>	
<ul style="list-style-type: none"><li>• ICAO Annex 6 – Operation of Aircraft</li><li>• ICAO Annex 17 – Aviation Security</li><li>• Document 9734 – Safety Oversight Manual</li></ul>	
<b>ICAO Strategic Objectives:</b>	Safety Security and Facilitation

**1. Introduction**

1.1 In 2024, Peru's Directorate General of Civil Aviation (DGAC) reinforced its inspectors' identification mechanisms by incorporating a QR code into each credential, in addition to the previously applied security features (ribbons, security codes, and holograms). This measure was adopted to enable real-time accreditation of inspectors before regulated entities, citizens, and other administrative authorities with whom they interact in the course of their duties.

**2. Discussion**

2.1 According to ICAO's SARPs, the fundamental aeronautical legislation of States must ensure that civil aviation inspectors have unrestricted and unlimited access to aircraft and aviation facilities as required to fulfill their duties and responsibilities. This includes access to aircraft, aerodromes, air

navigation service facilities, hangars, recognized maintenance organizations, workshops, aprons, fuel storage facilities, airline offices, cargo handling areas, and aviation training organization facilities.

2.2 The aforementioned areas are restricted or have limited access due to security, public order, and operational efficiency concerns. These restrictions are essential to ensure the safety of aviation operations and the proper functioning of the air transport system. Therefore, security controls for individuals entering these areas must be thorough and rigorous.

2.3 Given the above, Peru's DGAC believes that Civil Aviation Authorities can contribute to these security controls, especially considering that their personnel, by regulatory mandate and in the performance of their duties, must have unrestricted access to areas that could be considered security-sensitive.

2.4 In this regard, Peru has strengthened the security mechanisms of DGAC inspectors' credentials by incorporating a QR code. Each credential issued to DGAC inspectors contains a unique QR code linked to a database and an information system managed by the Ministry of Transport and Communications (MTC). Scanning the code with an electronic device provides real-time information on the inspector's identity, including:

- Inspector's name and position
- Active status within the DGAC
- Credential validity

2.5 The implementation of the QR code in credentials is governed by a formalized procedure within DGAC's regulatory instruments. This procedure establishes:

- **Issuance:** Process for generating the QR-enabled credential, validating data, and assigning it within the MTC database.
- **Delivery and Use:** Guidelines on how inspectors should handle and present the credential in the course of their duties.
- **Return:** Protocol for returning the credential in cases of termination or reassignment of the inspector.
- **Loss or Theft:** Notification and replacement procedure, including security measures to prevent misuse.

2.6 The QR code aims to ensure reliable real-time identification, enhance security and transparency in inspection activities, optimize identity verification processes by regulated entities and other authorities, reduce the risk of identity fraud, and reinforce existing security elements (ribbons, codes, and holograms).

2.7 Furthermore, this innovation in DGAC Peru inspectors' credentials aims to:

- Increase confidence among regulated entities by allowing real-time verification of credential authenticity.
- Reduce identity impersonation attempts.
- Optimize verification and accreditation times before other authorities.
- Modernize administrative procedures related to inspector management.

**3. Suggested Action**

3.1 The Meeting is invited to:

- a) Take note of the experience described in this document.
- b) Consider the need to implement strengthened security mechanisms in inspectors' credentials within the SAM Region's Civil Aviation Authorities.
- c) Consider the harmonization of inspectors' credentials and security mechanisms within the SAM Region.

--- END ---