

**58th CONFERENCE OF
DIRECTORS GENERAL OF CIVIL AVIATION
ASIA AND PACIFIC REGIONS**

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AGENDA ITEM 3: AVIATION SAFETY

**CIVIL AVIATION AUTHORITY OF MALAYSIA ENHANCING
AVIATION SAFETY THROUGH THE IMPLEMENTATION OF
RAIN APP FOR RAMP INSPECTIONS**

(Presented by Civil Aviation Authority of Malaysia)

INFORMATION PAPER

SUMMARY

Civil Aviation Authority of Malaysia (CAAM) introduces the innovative "RAIN APP" to bolster ramp inspections. Aligned with ICAO's CE-7 objectives, the RAIN APP promises to elevate productivity, efficiency, accuracy, and effectiveness in safety oversight. This digital platform streamlines inspections, centralizes reporting, enhances data accuracy, and empowers CAAM to implement risk-based safety oversight effectively.

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1. INTRODUCTION

1.1 The International Civil Aviation Organization (ICAO) plays a central role in fostering global aviation safety and harmonizing standards and practices across its member states. One of the key elements in ICAO's safety oversight framework is Critical Element 7 (CE-7), which emphasizes the importance of surveillance obligations, including inspections and audits. These processes are designed to proactively ensure that aviation licenses, certificates, authorizations, and approvals meet established safety requirements.

CAAM'S COMMITMENT TO SAFETY OVERSIGHT

1.2 The Civil Aviation Authority of Malaysia (CAAM) stands as a dedicated proponent of aviation safety oversight. CAAM conducts routine ramp inspections on both local and foreign air operators operating in Malaysian airspace and airports. These inspections are fundamental to ensuring the safety and regulatory compliance of aviation activities within our jurisdiction.

2. DISCUSSION

2.1 In response to the dynamic and evolving aviation landscape, CAAM has embarked on a pioneering journey towards digitalization. Acknowledging the limitations inherent in traditional hardcopy checklists employed during ramp inspections, CAAM has introduced the "RAIN APP" - a comprehensive digital platform specifically engineered to enhance the efficiency, accuracy, and overall effectiveness of these inspections.

OBJECTIVES OF RAIN APP

2.2 The development of RAIN APP is grounded in four primary objectives:

1. **Productivity:** RAIN APP is poised to significantly increase productivity by reducing the administrative burden on inspectors. The transition to digital checklists is anticipated to reduce the administrative process by 50%, enabling seamless collaboration between Flight Operations Division (FOI) and Airworthiness Division (AWI) personnel. This, in turn, allows for the simultaneous execution of inspections. The real-time compilation of inspection reports, complete with attached evidence, expedites the communication of findings to operators and streamlines the initiation of corrective actions through the Ramp Inspection Corrective Action Plan (RAINCAP).
2. **Efficiency:** Centralizing inspection reports within RAIN APP provides real-time monitoring capabilities to lead auditors and heads of surveillance. This centralized approach empowers inspectors to allocate more time to the critical aspects of inspections, ensuring prompt attention to findings and observations.
3. **Accuracy:** RAIN APP enhances data accuracy and reliability through standardized data input and taxonomy. The platform seamlessly integrates with CAAM's operator database, offering on-site access to essential information, including Flight Operations Certificates (FAOC), Air Operator Certificates (AOC) details, validity, limitations, and contact information.
4. **Effectiveness:** The digitalization of ramp inspections yields a comprehensive dataset that can be easily accessed and analyzed. This wealth of data enhances the effectiveness of ramp inspections and empowers CAAM to implement risk-based safety oversight efficiently.

CONCLUSION

2.3 The Civil Aviation Authority of Malaysia (CAAM) firmly believes that the implementation of RAIN APP represents a significant leap forward in enhancing aviation safety. This initiative seamlessly aligns with ICAO's CE-7 objectives, contributing to the cultivation of a safer aviation environment both within Malaysia and globally.

2.4 CAAM extends an open invitation to ICAO member states for collaboration, knowledge sharing, and constructive feedback. Together, we can advance safety oversight practices and collectively strengthen aviation safety across the global industry.

3. ACTION BY THE CONFERENCE

3.1 The Conference is invited to note the information contained in this Paper.

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