



WORKING PAPER

ASSEMBLY — 42ND SESSION

EXECUTIVE COMMITTEE

Agenda Item 18: Capacity Development and Implementation Support - Policy and Activities

ESTABLISHMENT OF AN ICAO-COORDINATED PLATFORM FOR INFORMATION SHARING ON AVIATION SAFETY/SECURITY INSPECTORS TO SUPPORT TECHNICAL ASSISTANCE, TRAINING AND CAPACITY BUILDING

(Presented by Kazakhstan)

EXECUTIVE SUMMARY

This paper proposes the development of a secure, ICAO-coordinated database platform aimed at enhancing information sharing among Member States regarding the availability of technical assistance, training resources, and capacity-building support.

The system would serve as a strategic tool to help States identify where assistance is needed or can be offered, allowing for timely coordination of expert support, training opportunities, and collaborative initiatives.

The initiative is not intended to establish a system for inspector credential verification, but rather to provide a collaborative platform through which States may, on a voluntary basis, share information relevant to identifying and coordinating technical assistance, training support, and capacity-building opportunities.

Kazakhstan, drawing on its experience in aviation oversight and digital system development, stands ready to collaborate with ICAO in the preparatory phase of this initiative, including the design of a comprehensive data structure to support the proposed platform

Action: The Assembly is invited to:

- a) Recognize the value of enhanced information sharing to support technical assistance, training, and capacity-building, and invite ICAO to develop global standards for a voluntary, secure database platform;
- b) Request ICAO to establish a working group to define the structure, data fields, and access protocols for a platform enabling States to coordinate mutual support efforts; and
- c) Encourage ICAO and interested States to explore implementation strategies, including preparatory work and pilot development to guide practical application.

Strategic Goals:

This working paper relates to Strategic Goals: *Every Flight is Safe and Secure.*

<i>Financial implications:</i>	Resource requirements for guidance material development, technical assistance programs, and system implementation support to be determined following comprehensive feasibility assessment.
<i>References:</i>	Doc 9734 - <i>Safety Oversight Manual</i> Doc 8335 - <i>Manual of Procedures for Operations Inspection, Certification and Continued Surveillance</i> ICAO Global Aviation Safety Plan (GASP) Regional Safety Oversight Organization Guidelines

1. INTRODUCTION

1.1 Timely access to information on the availability and qualifications of aviation inspectors is essential for enabling effective technical assistance, targeted training support, and collaborative capacity-building among States. Currently, the lack of a centralized database limits the ability of States to identify potential partners for support in oversight functions, whether in the form of expert deployment, specialized training, or regional collaboration.

1.2 Currently, Member States maintain isolated national databases of inspector qualifications with limited standardized information sharing capabilities between States regarding inspector credentials and areas of expertise. To address this need, ICAO could coordinate the development of a structured, IT-based platform to facilitate the sharing of inspector-related information among Member States.

1.3 Such a system would serve as a valuable resource for States seeking or offering technical assistance and training expertise, thereby enhancing cooperation, optimizing resource allocation, and strengthening global safety oversight through sustained capacity-building initiatives.

1.4 The absence of a centralized, accessible database capturing information on the availability, areas of expertise, and training profiles of qualified inspectors creates substantial challenges for States seeking to coordinate oversight activities, request technical assistance, or engage in collaborative safety initiatives.

1.5 This fragmented approach hinders timely cooperation, complicates the organization of joint inspections, and limits opportunities for training support and capacity-building.

1.6 Without a structured system to facilitate information sharing, States often face delays and administrative burdens in identifying suitable resources or partners for oversight collaboration.

1.7 Regional Safety Oversight Organizations (RSOOs) have consistently identified the critical need for enhanced cooperation and information sharing among Member States to improve the efficiency and effectiveness of safety oversight activities.

1.8 The absence of a unified framework for sharing inspector qualification information significantly limits opportunities for joint training programs, experience exchange, collaborative oversight initiatives, and optimal resource utilization across regional networks.

2. DISCUSSION

2.1 The proposed solution involves establishing a secure, standardized, and ICAO-coordinated database platform through which Member States can voluntarily share structured information regarding their technical oversight capacities. This includes data on the availability of qualified inspectors, areas of specialized expertise, training capabilities, and readiness to offer or receive technical assistance.

2.2 Rather than serving as a credential verification tool, the unified platform would function as an information-sharing resource to facilitate timely and efficient coordination of technical assistance, deployment of inspection support, training collaboration, and capacity-building initiatives. It would help States identify available support within the region or globally and improve the speed and precision with which cooperation can be initiated.

2.3 Implementation would follow a phased approach beginning with the development of ICAO guidance material and minimum data standards, including classifications of inspector expertise, training categories, operational domains, and agreed access protocols. Governance provisions would also be developed to define responsibilities, data security measures, and participation modalities.

2.4 The second phase would involve pilot testing by volunteer Member States, such as the Republic of Kazakhstan, to assess the platform's design, data fields, and interoperability. The pilot would also explore operational scenarios such as identifying technical assistance providers, mobilizing training experts, and matching States' needs with available resources.

2.5 The final phase would focus on regional and global expansion, with refinements based on pilot outcomes. This would include scaling up the platform's capabilities, integrating it with existing regional cooperation frameworks such as RSOOs or Cooperative Development of Operational Safety and Continuing Airworthiness Programme (COSCAPs), and promoting its use as a strategic planning and coordination tool for capacity-building efforts.

2.6 The database is expected to deliver transformative benefits by enhancing situational awareness among States regarding regional expertise, enabling faster coordination of technical assistance, and supporting mutual training initiatives. Most importantly, it would facilitate the structured exchange of training experts and promote collaborative oversight support, thereby advancing sustainable capacity building and strengthening global aviation safety oversight.

2.7 Operational efficiency would be achieved through significant reduction in duplicate oversight activities, strategic allocation of inspector resources based on qualifications and expertise, streamlined coordination for joint inspections and collaborative programs, and reduced administrative burden for aviation authorities and operators.

2.8 A comprehensive governance framework, coordinated by ICAO, could encompass the establishment of a Regional Inspector Credential Verification Steering Committee comprising representatives from Member States, supported by technical working groups responsible for standards development, system architecture, and ongoing maintenance.

2.9 The framework may also include structured implementation support, monitoring and compliance oversight, and targeted capacity-building initiatives. Crucially, it would enable mutual technical assistance among States and facilitate the exchange of training experts to strengthen inspector competencies.

2.10 This collaborative structure would promote standardized approaches to recording inspector qualifications, foster transparency and trust in credential verification, and advance global safety oversight capabilities through shared resources and sustained cooperation.

2.11 The Republic of Kazakhstan expresses its readiness to support ICAO in initiating foundational work toward the establishment of a globally harmonized mechanism for inspector credential verification and recognition.

2.12 To this end, Kazakhstan offers to volunteer as a pilot State specifically for the development and evaluation of an IT-based platform that would enable secure, standardized, and globally accessible verification of inspector qualifications. This pilot initiative aims to assess the technical feasibility, operational utility, and overall value of such a system, thereby laying the groundwork for broader implementation across Member States.

3. CONCLUSION

3.1 The establishment of a centralized, ICAO-coordinated database represents a strategic advancement in enabling Member States to access and share information relevant to technical assistance, training support, and capacity-building needs. Such a platform would strengthen cooperation, promote resource optimization, and enhance collective safety oversight capabilities.

3.2 This initiative responds to a recognized gap in current coordination mechanisms, providing a secure and structured foundation for facilitating collaboration among States. By improving access to information on where support can be offered or received, the platform would enable more timely and effective responses to oversight challenges and strengthen global aviation safety efforts.

3.3 Advancements in digital technologies, combined with the growing emphasis on collaboration in the aviation sector, provide a timely opportunity to develop and implement such a system. The clear demand for improved coordination and the potential for long-term efficiency and capacity gains strongly support the early development of global technical guidance and implementation frameworks.

3.4 Kazakhstan's Aviation Administration possesses comprehensive expertise in aviation oversight systems and digital database management, positioning it to serve in support of this critical initiative. Through successful implementation of advanced inspector qualification tracking systems and demonstrated commitment to regional safety cooperation, Kazakhstan stands ready to contribute technical expertise, serve as a pilot implementation site, and support the development of global standards for unified inspector databases that will strengthen international aviation safety oversight.

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