



ASSEMBLY — 39TH SESSION

TECHNICAL COMMISSION

Agenda Item 33: Aviation safety and air navigation monitoring and analysis

AVIATION SAFETY INFORMATION TECHNOLOGY SYSTEM AND USOAP CMA

(Presented by the Republic of Korea)

EXECUTIVE SUMMARY

This information paper is to introduce the electronic Aviation Safety Information Technology (IT) system developed by the Republic of Korea; that is currently being disseminated to the Member States free of charge. In addition to the system itself, ROK is providing instructors and technicians to assist the Member States in utilizing the programme. ROK will continue its' efforts to improve the computer programme as well as provide technical assistance such as technicians and instructors to the nations upon request; thereby contributing to ICAO's "No Country Left Behind" initiative.

<i>Strategic Objectives:</i>	This working paper relates to the Safety Strategic Objective.
<i>Financial implications:</i>	Not Applicable
<i>References:</i>	ICAO DOC 9735, <i>USOAP Continuous Monitoring Approach Manual</i> Resolution A38-5, Regional cooperation and assistance to resolve safety deficiencies, establishing priorities and setting measurable targets

1. INTRODUCTION

1.1 The Republic of Korea (ROK) has been developing an electronic Aviation safety Information Technology (IT) system since 2006 to efficiently manage aviation safety data in preparation for ICAO USOAP. Since then, ROK has continuously maintained and upgraded the Aviation safety IT tools to accommodate its purpose and to enhance its usability.

1.2 ROK's Aviation safety IT tool is composed of two computer programmes. First aviation safety IT tool is called SARPs Management and Implementation System (SMIS) and the second Safety Oversight and Management System (SOMS).

1.3 With its proven effectiveness in managing aviation safety data in preparation for ICAO USOAP, ROK has decided to share the programme with all the Member States upon request. Since 2010, ROK has been disseminating the programme in English version to all Member States at no cost.

1.4 Moreover, ROK has been providing technical supports and tutorial session at the request of Member States free of charge since 2012 and as of September 2016, ROK has provided the programme to 71 Member States and two International Organizations.

1.5 ROK will continue to improve its computer programmes to meet all Member States' needs and dedicate its efforts to improve aviation safety via Aviation safety IT tools; thereby contributing and joining ICAO's initiative of "No Country Left Behind".

2. ELECTRONIC AVIATION SAFETY TOOLS

2.1 Thanks to the implementation of the system, ROK achieved excellent results during 2008 ICAO safety audit and such result has drawn attention to ROK's SMIS and SOMS programme from neighbouring Member States. To accommodate demands from the neighbouring Member States, ROK has introduced English version of SMIS and SOMS programme and disseminated it to those Member States who requested the programme.

2.2 Continuous upgrade and progress has been made to Aviation safety IT tools with changes in ICAO USOAP CMA. As of 2015, ROK has introduced upgrade version of SMIS 4.0 and SOMS 2.5.

2.3 Compared to the previous version of SMIS system, SMIS and SOMS ensure interoperability with both ICAO's CMA OLF (On-Line Framework) and FAOSD. Thus, ROK has enhanced SMIS and SOMS module to boost convenience and efficiency for the users.

2.3.1 ROK has resolved issues such as inter-operability between SMIS and ICAO OLF (on-line framework) and functions of "Report" and "My Page" icon to better accommodate end-users.

2.3.2 As for Safety Oversight and Management System (SOMS), function has been upgraded to provide users with statistical information and graphs. In addition, "Technical Review" function has been added for auditors to conduct their task more efficiently.

2.4 SMIS programme in particular, features a function that allows upload of approximately 10,000 SARP provisions and 1,000 PQs (Protocol Questionnaires) to ICAO CMA OLF with a few clicks on the computer; which enhances efficiency and convenience of personnel in charge of preparing for USOAP. For these reasons, ROK receives inquiries from many Member States.

2.5 Since 2012, ROK has continuously provided workshops and training programmes on SMIS and SOMS. In addition to SMIS and SOMS training, with assistance from ICAO Monitoring & Oversight Bureau, ROK has further developed its programme by newly arranging USOAP CMA workshop in 2016.

2.5.1 During the recent workshop held in 2016, 26 officials and delegates from 19 Member States (12 from Asia, 6 from Africa and 1 from Europe) participated. The workshop was completed successfully with positive feedback.

2.5.2 Moreover, in order for the recipient States to implement the system properly, ROK has provided technician and instructors to the states as well as remote technical support in case Korean personnel cannot physically visit.

2.5.3 Furthermore, in 2016, ROK dispatched its instructors and technicians to Cambodia and Ghana, ICAO Member States, in order to assist officials with necessary training and technical support in utilizing SMIS and SOMS.

3. CONCLUSION

3.1 ROK will continue to invest in development of both systems thereby contributing to enhancement of global aviation community. Thus, ROK is ready to provide enhanced and practical training materials and tutorial sessions on how to utilize SMIS/SOMS for all the Member States that are experiencing difficulties in preparing for ICAO USOAP.

3.2 At the same time, in cooperation with ICAO, ROK will further develop its training programme and computer programme that meets the Member States' needs.

3.3 ROK will actively participate in ICAO's "No Country Left Behind" initiative and we ask for Member States' attention to ROK's electronic aviation safety information Technology (IT) system.

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