



ICAO

International Civil Aviation Organization

**Ninth Meeting of the Common aeRonautical Virtual
Private Network Operations Group (CRV OG/9)**

Video Teleconference, 25 – 27 January 2022

Agenda Item 7: States CRV Implementation and operations experience sharing

**UPDATES ON KOREA'S NEW AMHS SYSTEM UPGRADE AND CRV
IMPLEMENTATION PLAN**

(Presented by REPUBLIC OF KOREA, Seoul Regional Office of Aviation)

SUMMARY

This paper presents an update on the ROK's New AMHS system upgrade and the 2022 CRV implementation plan.

1. INTRODUCTION

- 1.1 ICAO Asia/Pacific Regional Office formed CRV OG to establish and operate the Common aeRonautical VPN in the APAC region, and encouraged all States / Administrations to implement CRV through PCCWG by the end of 2019.
- 1.2 In 2021, the Republic of Korea made efforts for the switch to CRV even amid the COVID-19 pandemic situation. At CRV OG/8 held in May 2021, Korea shared the schedules for IOT/POT of CRV-based AMHS with China and Japan.
- 1.3 Thus, Korea would like to share the updates on its new AMHS system upgrade and the progress made on the IOTs.

2. DISCUSSION

- 2.1 Korea completed installation of the hardware and software of the new AMHS (Extended version) in the 4th quarter of 2021, and conducted IOTs with China and Japan with Korea's new AMHS system in December 2021. The IOTs were completed successfully.
- 2.2 Korea is planning to conduct POT with China in the 3rd quarter of 2022 (in July), and with Japan in the 4th quarter of 2022. If the POTs are completed successfully, Korea believes that it will be able to cutover the connection between Korea and China and the connection between Korea and Japan to the new CRV-based AMHS in the 4th quarter of 2022 as the initial plan.

States	IOT	POT	Cutover
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China	Completed (Dec, 2021)	July, 2022	Nov-Dec, 2022
Japan	Completed (Dec, 2021)	Nov-Dec, 2022	Nov-Dec, 2022

- 2.3 Along with the cutover to CRV, since CRV OG/8, Korea had been working with China to convert the satellite communications network to wired AFTN line, which was completed successfully in the 4th quarter of 2021. In this regard, Korea would like to express sincere appreciation to China for its cooperation.
- 2.4 In order to address issues that may arise following the conversion to the wired AFTN line, however, Korea and China discussed and agreed to maintain the satellite communications line (which used to be utilized as a spare communications line) through March 2022.
- 2.5 At last, after completing the switch to CRV between Korea and neighboring countries (China, Japan), it will be necessary to discuss removal of AFTN/ATN.

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to take note of the ROK's AMHS (Extended) and CRV implementation plan; and
- 3.2 Share any comments related to this matter.
