



ICAO

*International Civil Aviation Organization***Eleventh Meeting of the Common aeRonautical Virtual Private Network Operations Group (CRV OG/11)***Bangkok, Thailand, 01-03 February 2023*

Agenda Item 3: Review outcomes of relevant meetings

## OUTCOMES OF ICAO ASIA PACIFIC IMPLEMENTATION OF CRV WEBINAR

(Presented by the Secretariat)

### SUMMARY

This paper presents the outcomes of the ICAO Asia Pacific Implementation of CRV Webinar held on *29 June 2022* via Video Tele-Conferencing (VTC).

## 1. INTRODUCTION

1.1 The ICAO Asia Pacific Implementation of CRV Webinar was held on *29 June 2022*. The Webinar was organised via Video Tele-Conferencing (VTC) using Microsoft Teams.

1.2 The Webinar was attended by **61** participants from **15** States/Administrations and **1** telecommunication provider from Australia, Bangladesh, Cambodia, Hong Kong China, Macao China, Fiji, France, India, New Zealand, Pakistan, Philippines, Singapore, Sri Lanka, USA, Viet Nam, PCCW and ICAO. The webinar report, presentations, and other resources can be accessed by the following link:

<https://www.icao.int/APAC/Meetings/Pages/2022-CRV-Webinar.aspx>

1.3 This paper summarized the key outcomes of the ICAO Asia Pacific Implementation of CRV Webinar.

## 2. DISCUSSION

2.1 A total of **Five** (5) presentations were delivered by CRV experts from Fiji, Hong Kong China, New Zealand, Singapore, and the USA. During the Webinar, Questions, and Answers (Q & A) sessions were held at the end of each presentation through the Pigeonhole tool. Throughout the Webinar, a total of **47 questions** were asked, and *Participants provided more than 15 feedbacks for the Webinar with 100% positive responses.*

2.2 The summaries of all presentations are as follows:

*SP101 – CRV Project and its Significance for Asia/Pacific Region*

**Agenda Item 3**

01-03/02/23

2.3 Mr. Hoang Tran, International Telecommunication Lead, FAA, USA, and ACSICG Co-Chair, presented a brief history of the Aeronautical Telecommunication Network (ATN) network infrastructure. The presentation provided information about the motivation and necessity of the CRV Project in the APAC region by summarizing the existing issues being faced by most Member States when communicating between ANSPs and the reasons for replacing/upgrading telecommunication service. It was concluded that CRV is an infrastructure for all ANSPs to provide safe and efficient air traffic services.

*SP102 – Challenges and Proposed Solutions for CRV Implementation in the Pacific States*

2.4 Mr. Kelepi Dainaki, Manager Air Navigation Engineering Services, Fiji Airport Limited, CRV OG Chair (Pacific), presented challenges and proposed solutions for CRV implementation in the Pacific States. The presentation provided the audience with the latest status of the implementation of CRV in the Pacific States along with the challenges they faced, including poor terrestrial connectivity, the high cost of last mile connectivity, less traffic movement, etc. He recalled the CRV Cost Benefit Analysis (CBA) iteration for small Pacific States in 2015 and discussed proposed solutions for Pacific States and small ANSPs by sharing Fiji's experiences to ensure No Country Left Behind in CRV Implementation.

*SP201– Synthesis of CRV Operational Manual*

2.5 Mr. Vaughan Hickford, Team Leader Network Design, Airways New Zealand, CRV OG Chair (Asia), presented information about APAC CRV Operational Manual. With the introduction to the common package of the CRV network, he emphasized that the CRV Operational Manual is a method of capturing how the CRV OG operates. The presentation informed that CRV Operational Manual covers the description of the documents in the Common Package, the Terms of Reference, stages of implementation, and onboarding of new services and providers, etc. Participants noted the Common Package, Operations Manual and Implementation Plan were stored in the CRV portal hosted on Airways New Zealand's Office 365 instance.

<https://airwayscorporation.sharepoint.com/teams/APAC-CRV/SitePages/Home.aspx>

*SP202 – Synthesis of CRV Implementation Plan*

2.6 Mr. Augustine Lau, Principal Engineer (Communications), Civil Aviation Authority of Singapore, introduced the CRV Implementation Plan. He shared that the CRV Implementation Plan guides all States/Administrations on the operational requirements for the CRV used in APAC Region and the roadmap for implementation. The responsibility of each CRV implementation relevant entity, including the CRV Operations Group, national CRV Point of Contact, local CRV Point of Contact, and CRV contractor, were presented in detail. Furthermore, he elaborated on the requirements of basic site implementation and basic network and analyzed the CRV implementation work processes, application transition schemes, APAC IPv4 address plan, and contingency plan/ back-off plan, respectively.

*SP203 – Standardized Contract Conditions for CRV*

2.7 Mr. Eddy Lee, PCCW Global, the approved vendor to provide CRV services and circuits in APAC/MID region, briefed about the standardized contract conditions for CRV. He shared the CRV network status and progress within the APAC region and introduced the CRV Package Options, which consist of four significant packages (A, B, C, D) plus two variations (B+, C+) in detail. Additionally, the charge of CRV Bandwidth & Package Upgrade/Downgrade under different package options were elaborated.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any matters as appropriate.

-----