



ICAO

*International Civil Aviation Organization*

**Seventh Meeting of the Common aeRonautical Virtual Private Network Operations Group (CRV OG/7)**

Bangkok, Thailand, 20 – 22 January 2020

- Agenda Item 2: Review and update the AMHS/ATN Implementation Status table and the APAC CRV Implementation Table
- Agenda Item 7: Share best practices on cybersecurity and develop agenda items for joint session of ACSICG/CRV/SWIMTF on cyber safety/security and resilience

## IMPLEMENTATION PLAN OF COMMON AERONAUTICAL VIRTUAL PRIVATE NETWORK AND CYBER SECURITY CONCERN IN INDONESIA

(Presented by Indonesia)

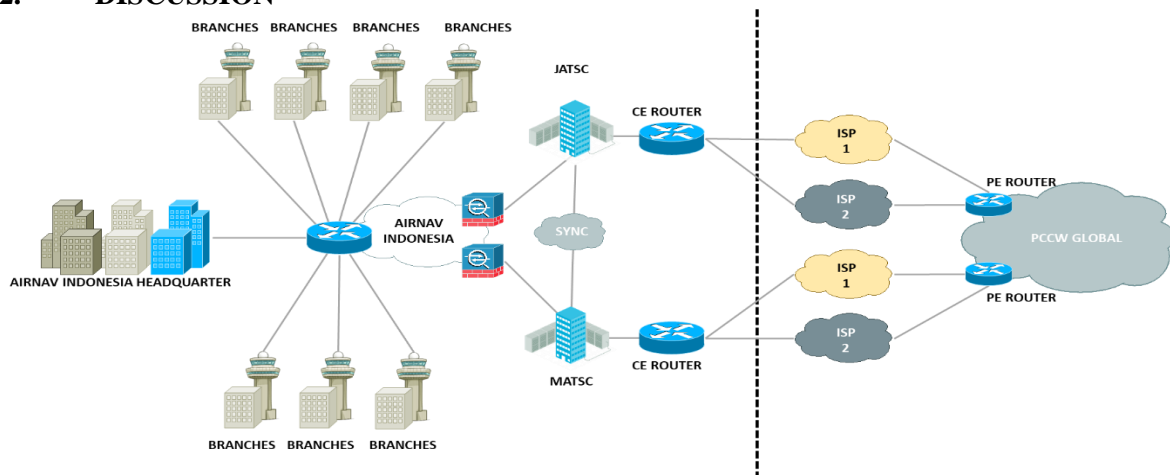
### SUMMARY

This paper presents the activities of CRV implementation and Cyber Security Program in Indonesia

## 1. INTRODUCTION

1.1 Indonesia is in the process of contracting with PCCW Global for the implementation of the Common Aeronautical Virtual Private Network (CRV). This CRV network replaces the existing connection to the counterpart.

## 2. DISCUSSION



## 2.1 Indonesia Propose Connection

Indonesia propose to use CRV 2 package A with 2 Mbps bandwidth that connect to 2 centers in 2 different location which are Jakarta Centre (JATSC) and Ujung Pandang Centre (MATSC) to provide the high availability and disaster recovery capabilities.

2.2 Both connection will be service for all application such as (AFTN/AMHS, AIDC, Voice, ADS-B data sharing) through the network. The connection will be connected to Indonesia Aeronautical Network.

## 2.3 Target & Implementation

	AIDC	AFTN/AMHS	ADS-B	VOICE
Singapore	TBD	2020	2020	2020
Australia	2020	2020	2020	2020
Malaysia	2020	-	-	2020
Papua New Guinea	2020	-	2021	2020
Philippines	2020	-	-	2020
US	2020	-	-	2020
India	TBD	-	TBD	TBD
Sri Lanka	TBD	-	TBD	TBD

## 2.4 Cyber Security Aspects

The network layer security should be responsibility of PCCW, country should consider add more adequate security system to ensure that the traffic/application that going in and out to the shared network is a valid traffic and it will not damage the overall network due to uncontrolled flooding packets. The further security test should be in place on a regular basis to ensure that the overall configuration is secure. Indonesia will implement a cyber security policy in accordance with national regulations. Once CRV OG release standardized cyber security policy, Indonesia cyber security implementation will follow the policy.

Cyber security equipment in Indonesia will be contain as following :

- Unified Thread Management
- Anti DDos
- SSL security
- Traffic shaping management

## 3. ACTION BY THE MEETING

3.1 The meeting is invited to:

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

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