



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 8: States CRV Implementation, CRV Bandwidth Utilization Rate, and operations experience sharing

UPDATE ON FIJI'S CRV NETWORK UPGRADE

(Presented by Fiji/Fiji Airports)

SUMMARY

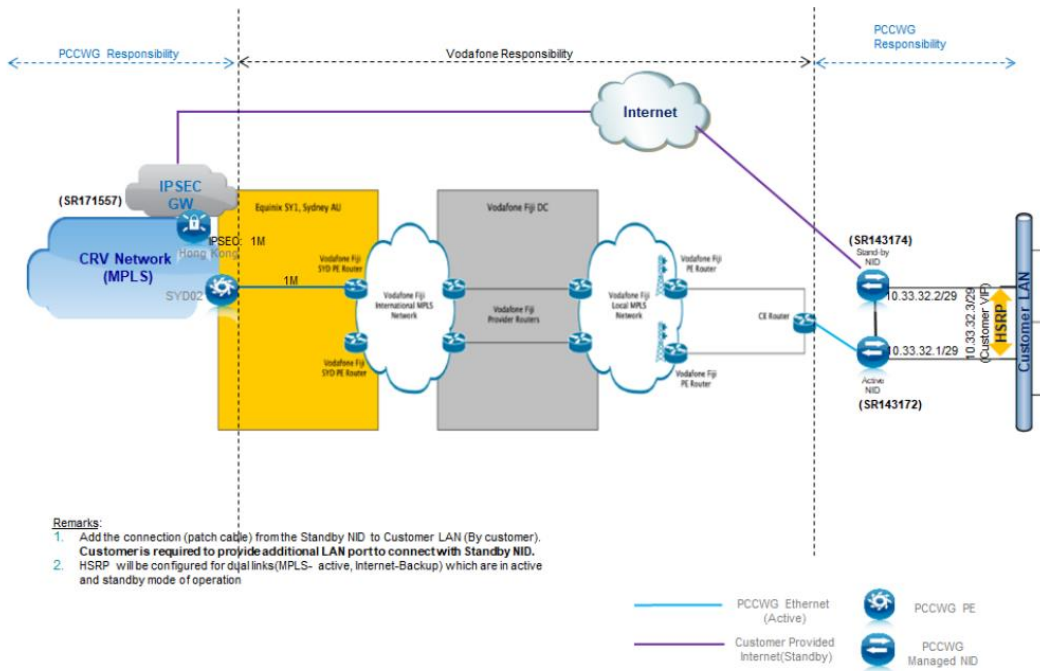
This paper presents update on the implementation of the CRV Package B+ for voice and AMHS services

1. INTRODUCTION

- 1.1 Fiji has completed the upgrade of its CRV Package C+ to Package B+ in September 2021 for the AMHS & Voice service between Nadi, Auckland, Brisbane & Oakland/Salt Lake center.
- 1.2 Currently the failover is conducted manually between CRV NID 1 & 2 and it is planned to implement the automatic failover in Q2 of 2023.
- 1.3 The implementation of the CRV Package B+ has improved the reliability of the CRV services given that there was not alternative CRV POP provided in the initial CRV Package C+ with the CRV POP located in Sydney.

2. DISCUSSION

- 2.1 The diagram below depicts the high level drawing of the CRV Package B+ that is now implemented with a CRV POP in Sydney that connects to CRV NID1 using dedicated IP connection and the CRV POP in Hong Kong connects to CRV NID2 using the internet connection.



Remarks:
 1. Add the connection (patch cable) from the Standby NID to Customer LAN (By customer).
 2. Customer is required to provide additional LAN port to connect with Standby NID.
 3. HSRP will be configured for dual links (MPLS- active, Internet-Backup) which are in active and standby mode of operation

- 2.2 The installation of a Layer 3 network switch is planned for Q2 of 2023 to provide the automatic failover between the two CRV NIDs. This will ensure high reliability of the CRV services.
- 2.3 The voice services upgrade is also planned to be conducted simultaneously with the upgrading of the voice connectivity between the CRV NID and the VCS system from FXO/FXS analogue interface to IP.
- 2.4 Voice interface testing is currently in progress with our VCS system in upgrading from the FXO/FXS interface to IP using SIP protocol for telephone connection.
- 2.5 The upgrading of the voice services will allow for dynamic routing in the CRV network as compared to the current network configured static routing for high reliability of services.

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
