



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

FIJI IMPLEMENTATION OF VOICE & AMHS/AIDC SERVICES OVER CRV NETWORK

(Presented by Fiji Airports)

SUMMARY

This paper presents the implementation of voice & AMHS/AIDC services between Fiji, Australia, New Zealand & USA over the CRV network.

1. INTRODUCTION

1.1 Fiji has successfully implemented the voice and AMHS/AIDC services with Australia, New Zealand & USA over the CRV network.

2. DISCUSSION

2.1 Fiji signed for a Package C+ with PCCWG in August, 2018 as part of the CRV POC States that include Australia, Fiji, New Zealand & USA.

2.2 The CRV NID was installed in December, 2019 and satisfactorily completed the CRV POC 10 Points Test plan with PCCWG in January, 2019 to accept the CRV connection.

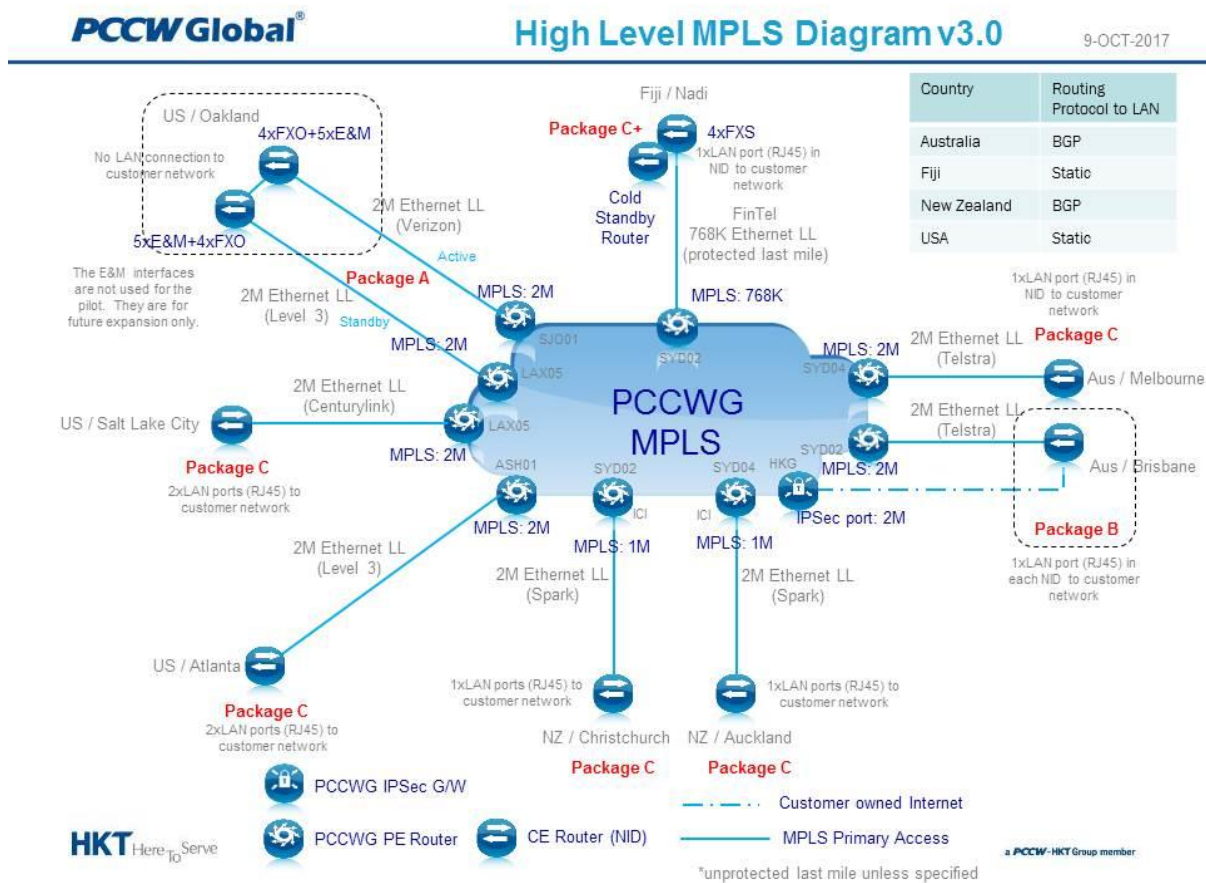
2.3 Fiji has completed the migration of ATS Voice and AMHS/AIDC with States that have joined CRV as provided in the Table below.

STATES	CRV IMPLEMENTATION	ATS VOICE SERVICES	AMHS/AIDC SERVICES	REMARKS
Australia	January, 2019	April, 2019	June, 2019	Complete ATS Voice: April, 2019 Complete AMHS/AIDC: June, 2019
New Zealand	January, 2019	March,2019	Connected via Australia	Complete ATS Voice: April, 2019

USA	January, 2019	February, 2019	March, 2019	Complete ATS Voice: March, 2019 Complete AMHS/AIDC: April, 2019
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2.4 Fiji has commissioned the voice & AMHS/AIDC service over CRV on July, 2019 between Australia, New Zealand & USA after successfully completed the Reliability Acceptance Testing (RAT).

2.5 The diagram below explains the high level MPLS diagram of the CRV connection between CRV POC States of Australia, Fiji, New Zealand & USA.

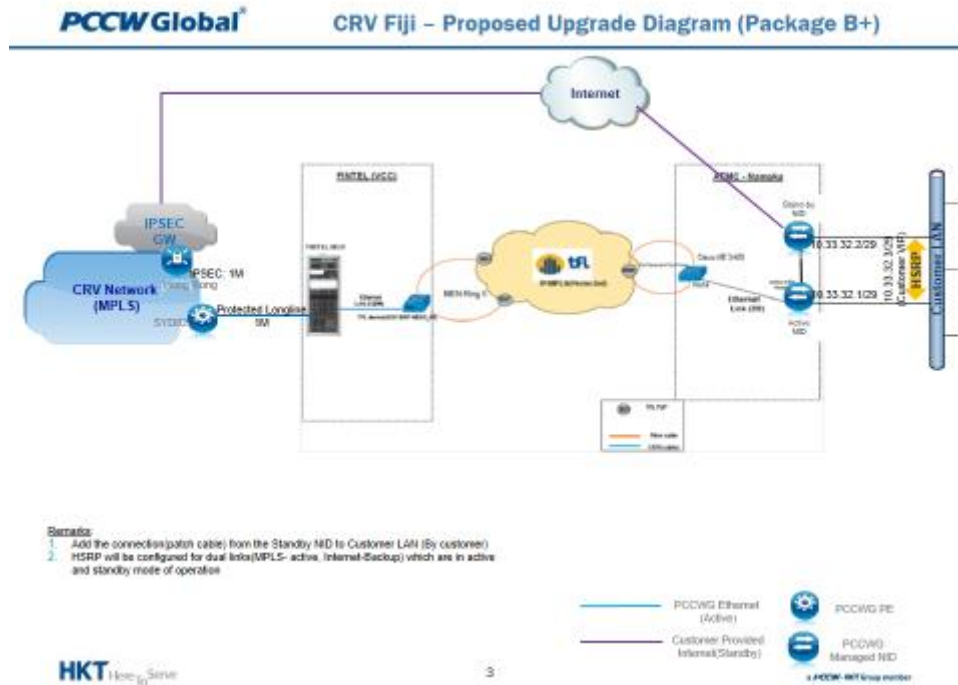


2.6 The Operational performance of the Voice & AMHS/AIDC services over the CRV has been satisfactory since it was commissioned for operation in July, 2019. ATC has acknowledged the improvement in voice quality for communication using VoIP.

2.7 To improve the reliability of the CRV, Fiji plans to upgrade the current CRV Package C+ to CRV Package B+ to allow for connection resiliency at the PCCWG MPLS Core level. With the existing CRV Package C+ PCCWG has confirmed that there is no resiliency of MPLS POP in the MPLS core level. Fiji is currently finalizing the CRV Package B+ configurations and testing procedures to

implement this CRV upgrade. Fiji also plan to upgrade the Voice interface from FXO/FXS to VoIP using Ethernet interface with the commissioning of it Harris IP VCS.

2.8 The drawing below depicts the propose CRV Package B+ using an additional Internet connection between the second CRV MPLS POP in the CRV core and the Standby CRV NID in Fiji where the failure of the Active CRV NID connection will automatically failover to the Standby CRV NID.



3. ACTION BY THE MEETING

3.1 The meeting is invited to note the information contained in this paper.
