



ICAO

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Private Network Operations Group (CRV OG/12)***Denarau Island, Fiji, 23-26 January 2024*

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**Agenda Item 9:** States CRV Implementation**PROGRESS OF CRV IMPLEMENTATION IN SRI LANKA**

(Presented by Sri Lanka)

**SUMMARY**

This paper presents the progress of CRV Implementation in Sri Lanka

**1. INTRODUCTION**

1.1 Sri Lanka has signed CRV contract for Package D (256 kbps) for AMHS between Mumbai, Singapore and Maldives.

1.2 According to the cost benefit analysis, a contingency VPN (independent from CRV) to be implemented with Mumbai to enhance the reliability.

1.3 This paper presents the current status of the CRV migration and adaptation in Sri Lanka.

**2. DISCUSSION**

2.1 Sri Lanka has signed CRV Contract for Package D for the AMHS connections between Mumbai, Singapore and Male.

2.2 Currently, System Engineering Plan is being reviewed and the target date of connectivity establishment is 28th February 2024 (to be confirmed).

2.3 As Mumbai and Singapore have already joined with CRV, two AMHS connections will be immediately implemented and tested, whereas CRV for AMHS with Male is expected to be implemented in Q2 2024.

2.4 During the cost benefit analysis of CRV migration, it was identified that individual circuit connection (AMHS IPLC circuits) is still reliable and economical than package D with internet to POP.

2.5 However, if all 3 connections are migrated to Package D, CRV is economically more feasible.

2.6 Option 3 being the economically feasible and reliable, will be implemented which replaces all the existing IPLC connections for AMHS.

**Option 1:**

Obtaining 2x Package Ds. This method enhances the reliability of the CRV connection. However, the cost incurred is not feasible with the existing IPLC infrastructure costs.

**Option 2:**

Obtaining a high available Internet Leased Line with redundancy for local loop plus a spare router from PCCW (manually connected). However, the contingency requirement for CRV is not addressed here.

**Option 3:**

Obtaining a single Package D and an independent VPN with Mumbai. Since the VPN connection between Colombo and Mumbai can provide an independent connection, this VPN works as both Backup and Contingency to CRV. The bandwidth of this VPN is proposed to be 256kbps. AMHS messages to Singapore is expected to manually routed by AMHS through this independent VPN, if CRV connection is failed. (Figure 1).

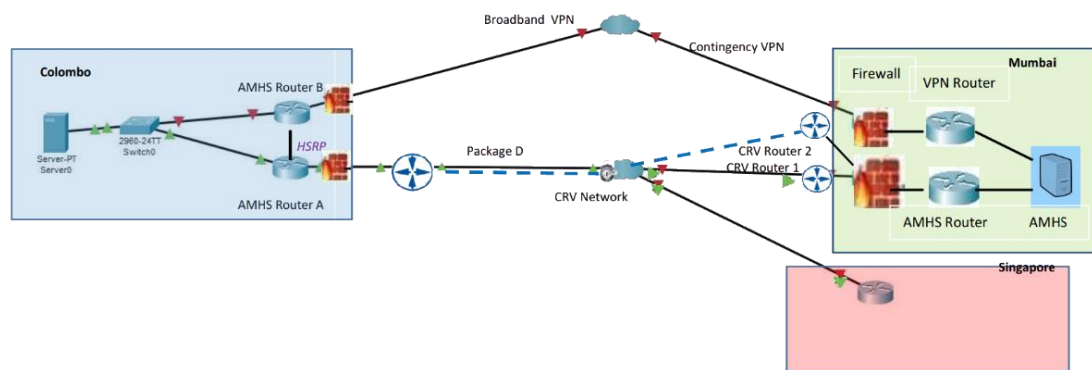


Figure 1: Intended CRV Connectivity in Sri Lanka with Mumbai and Singapore

2.7 Implementation timeline for the CRV migration with Option 3 is Q2 2024 which replaces existing IPLC circuits.

2.8 Discussions are requested to implement switching between CRV Network and the Independent VPN in IP level in a CRV failure.

### 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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