



ICAO

International Civil Aviation Organization

**Twelfth Meeting of the Common aeRonautical Virtual
Private Network Operations Group (CRV OG/12)**

Denarau Island, Fiji, 23-26 January 2024

Agenda Item 8: CRV Operational performance report
– Future bandwidth requirements

BANDWIDTH EXTENSION OF CRV TO MEET FUTURE REQUIREMENTS

(Presented by PCCW Global Limited)

SUMMARY

This paper presents the concepts for meeting the request of supporting more Bandwidth option to meet future requirements

1. INTRODUCTION

1.1 ICAO Asia-Pacific SWIM Task Force will conduct a trial of SWIM and Surveillance Data exchange over the Pseudo CRV.

1.2 SWIM Task Force 8 agreed to adopt a hierarchy approach for EMS architecture. And there are 15 states will participate the trial. (8 States/Administrations, including China, Hong Kong China, Japan, India, Malaysia, the Republic of Korea, Singapore, and Thailand will join the event with EMS as a data publisher and subscriber. While another 7 states will be joining as observer.)

1.3 SWIM Task Force lead notified that the current available CRV subscription packages come with limited bandwidth which is unsuitable for SWIM implementation.

1.4 PCCWG, the current CRV provider, shared that the CRV has no bandwidth limitation. CRV users subscribing to any available packages can request more bandwidth at additional cost, based on their own needs.

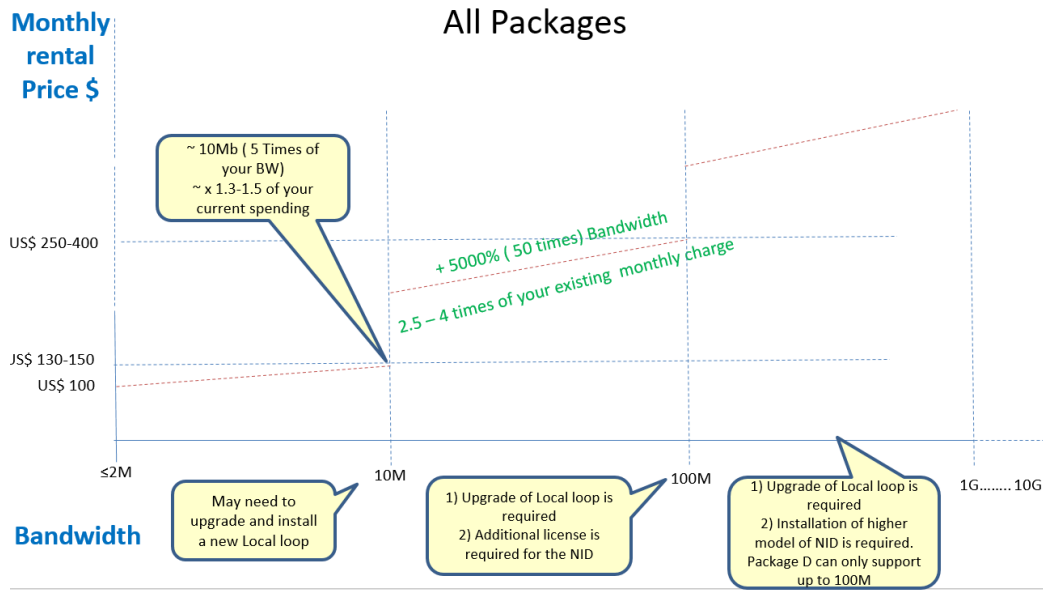
1.5 Recently, various States/Administrations raised concerns to PCCWG on bandwidth capacity limitation to suit possible future SWIM applications that will consume a large data capacity.

2. DISCUSSION

2.1 Bandwidth up to 2M has been quoted in the tender in 2015 to suit the initial requirement to build the CRV network. Other than the 2M options quoted in the PCCWG price book, more pricing and bandwidth options will be provided for States/Administrations' consideration.

2.2 PCCW Global can provide an associated cost with the conceptual diagram of bandwidth upgrade cost for states to consider in future.

2.3 Conceptual diagram of Bandwidth upgrade cost



3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) the state to review the CRV bandwidth requirement and commercial if SWIM will be implemented.
- c) discuss any relevant matter as appropriate
