



ICAO

*International Civil Aviation Organization*

**Ninth Meeting of the Common aeRonautical Virtual  
Private Network Operations Group (CRV OG/9)**

Video Teleconference, 25 – 27 January 2022

---

**Agenda Item 6:** CRV contract management

- Non-aviation providers joining CRV

**NON-AVIATION PROVIDERS JOINING CRV**

(Presented by PCCW Global Limited)

**SUMMARY**

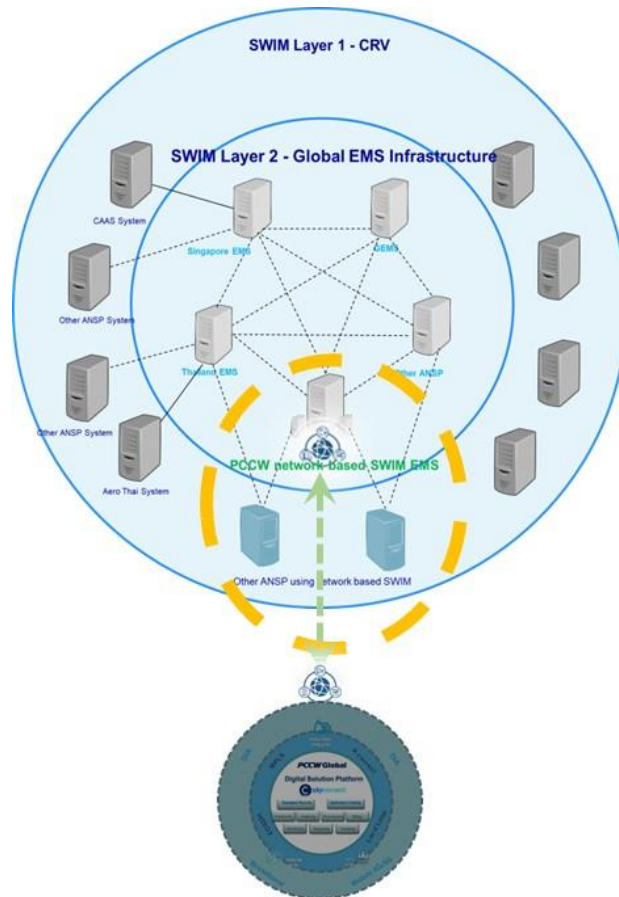
This paper introduces PCCW Console Connect Aviation Platform for non-ANSP users to exchange SWIM Data with CRV members.

**1. INTRODUCTION**

- 1.1. ICAO aggressively promotes CRV and SWIM in recent years to encourage ANSPs and non-ANSPs exchange data efficiently in SWIM standard format improving the collaborative decision making.
- 1.2. PCCW SWIM as a Service is approved service on the CRV network. During SWIM TF4, PCCW Global Limited Introduced its SWIM platform and suggested its SWIM Infrastructure could be one of the global/commercial EMS nodes to deliver SWIM services or qualified third party services.
- 1.3. CRV network is now only dedicated to ANSPs or CRV OG approved parties to join, others who want to connect to ANSPs, need to seek for CRV OG's approval to join the CRV network.

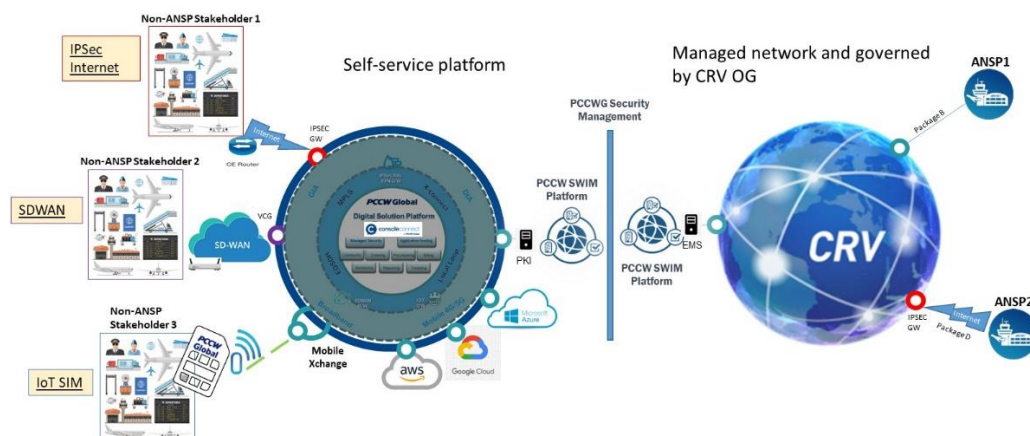
**2. DISCUSSION**

- 2.1. In order to provide an easy, managed, flexible and scalable mechanism for non ANSP users to exchange SWIM data with those CRV users, PCCW Global planned to extend its EMS node with its own developed software defined interconnection platform - Console Connect for Aviation and purposed built SWIM as Service Platform.



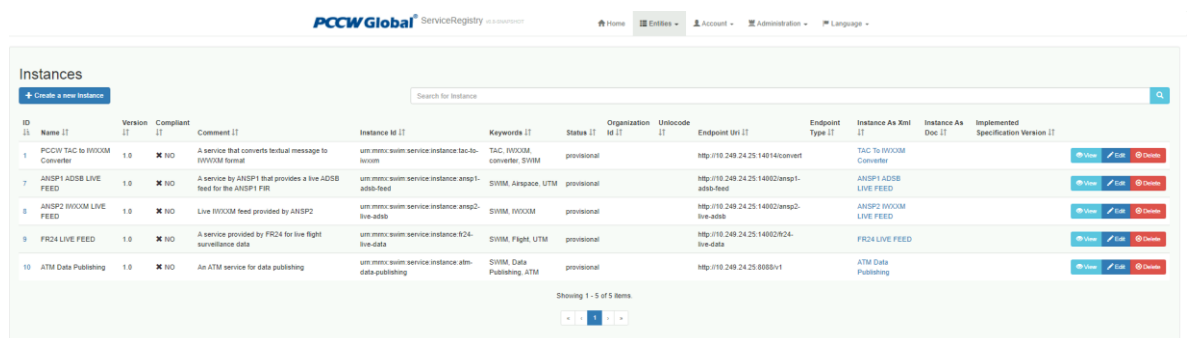
2.2. The CRV is a dedicated MPLS network provided by PCCW Global and support all Aeronautical Fixed Service (AFS) in the APAC region. Applications to be run on CRV are AMHS, AFTN, ADS-B, Voice and SWIM etc.

PCCW Global own developed Console Connect platform is the Software-Defined Interconnection platform that makes the exchange of the critical SWIM data between ANSPs & Non-ANSP Users simple, predictable and secure.



	CRV	Console Connect Platform for Aviation	Internet
Network Options	MPLS with GRE tunnel with customized options of Package A, B, B+, C, C+, D	Local Loop, IPSec Internet, SDWAN & IoT SIM	User's local internet
SLA	Stringent SLA depends on Package A, B, B+, C, C+, D	Standard SLA	No SLA
SWIM Enabled	Yes, CRV users' own SWIM platform or PCCW CRV SWIM	Yes, enable SWIM data exchange thru Console Connect SWIM to PCCW CRV SWIM	No
Ordering	PCCW Team looks after the whole processes	Self-service portal.	User orders own local internet with a fix contract term.
Core Network	PCCW Global Network backbone	PCCW Global Network backbone	Public Internet Exchange between different providers
Information Security	Highest	High	Low
Data	AMHS, Ground-to-Ground Voice, ADS-B etc.	SWIM Data only	Any
Performance and Speed	Reliable performance and bandwidth	Reliable performance and bandwidth	Variation in performance and bandwidth
Daily Support	Dedicated Service Manager	7 x 24 NOC Support	Self-trouble shooting

2.3. Console Connect Platform provides web base user interface for SWIM application. The SWIM services from ANSPs on CRV will be listed on PCCW SWIM Registry where users can select and subscribe.



2.4. Summary – The Console Connect Platform provide an alternative path for non-ANSP users to exchange SWIM data with ANSPs who are on the CRV Network.

3. **ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) We are opened to CRV state members to introduce their SWIM teams and in-country Aviation stakeholders for further discussion; and
- c) discuss any relevant matter as appropriate

-----