

# Enterprise Engineering Services

## Asia/Pacific Common Regional Virtual Private Network (CRV)-FAA Implementation Plan

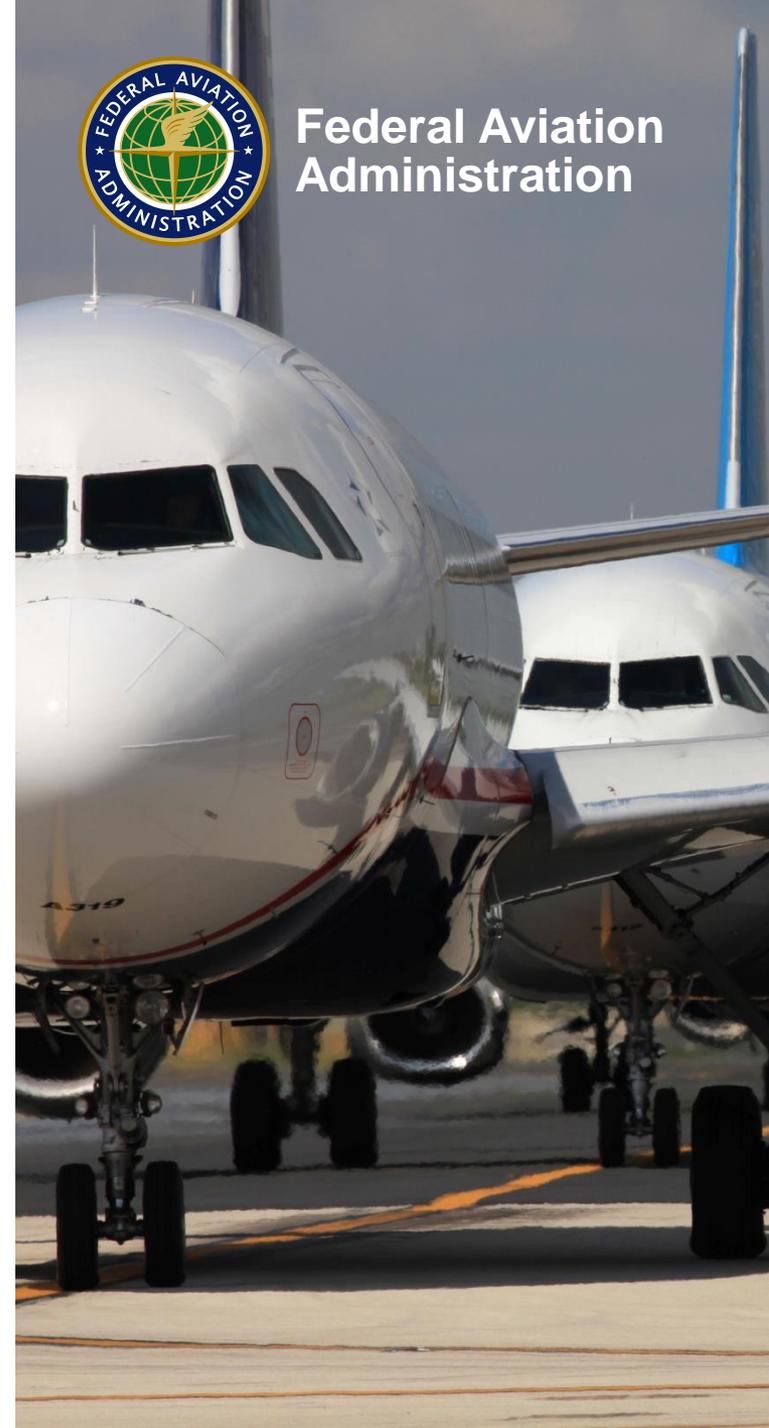
Presented to: ISPACG/32

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Federal Aviation  
Administration



# CRV Implementation Schedule

1. **Plan Contract Award to PCCW Global by April 2018**
2. **PCCW Global to implement service by August 2018**
3. **Service acceptance test with Australia, Fiji and New Zealand planned for August 2018**
4. **Plan AMHS cutover with Australia by September 2018**
5. **Plan cutover AMHS service with Japan by September 2018**
6. **Cutover AMHS service with Fiji and New Zealand October 2018**
7. **Cutover Voice service with Australia, Fiji and New Zealand by October 2018**
8. **Plan implementation AIDC/AMHS with Philippines to be determined at CRV OG/4**

**Note: This schedule is for planning purpose and is based on projected contract award by the end of April 2018.**



# Current Telecommunication Issues

- 1. Harris/FTI has requested termination of circuit by June 2018. An extension request has been issued to keep the service until October 2018**
- 2. Telstra has requested termination of circuit by March 2018. AirServices was able to extend the service but there is no commitment from Telstra of extension time**
- 3. The Time Division Multiplexer (TDM) that is in operation at four countries: Australia, Fiji, New Zealand and USA is obsolete. There is no maintenance contract in place since December 2015**
- 4. FAA needs direct communication to support AIDC and voice service with Papua New Guinea (PNG) and Indonesia**



# CRV Background

- Asia/Pac Regional ICAO Office on behalf of eighteenth members formed a Task Force to solicit and select a common service provider in the region to replace all private circuits provider by multiple vendors.
- CRV is based on the Internet Protocol (IP) that is in compliance with ICAO Document 9896, Internet Protocol Suites. The winning vendor, PCCW Global, Inc., was announced in July 2017.
- CRV Task Force has been replaced by CRV Operation Group (OG) and recommends four members: Australia, Fiji, New Zealand and USA to form a pilot project to evaluate and validate the service as well as develop related implementation and operation documents.
- The CRV pilot project is expected to start in August 2018

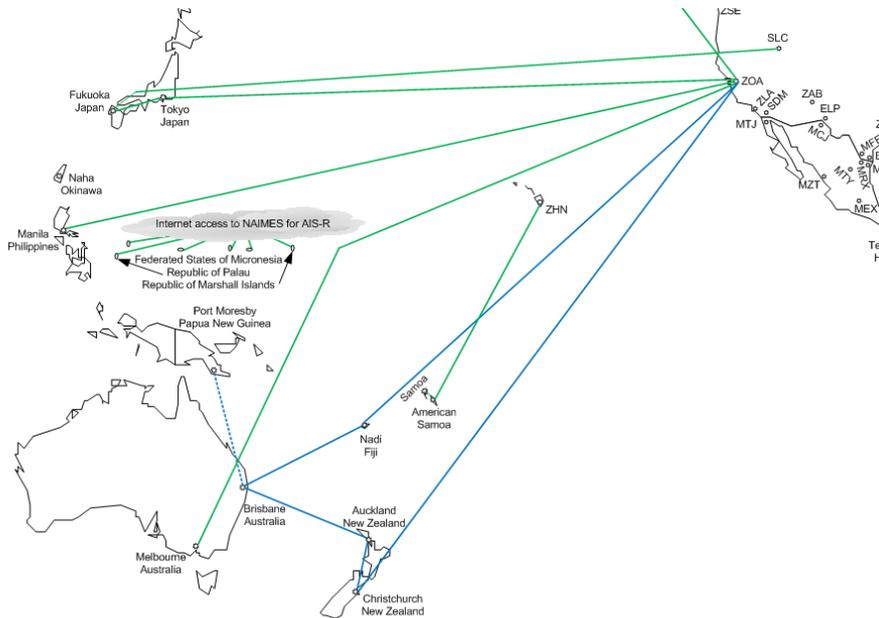


# CRV Membership Status

- Signed contract with PCCW Global: Japan (December 2017)
- Finalized contract with PCCW Global: Hong Kong, China and Philippines (2<sup>nd</sup> Qtr 2018)
- Finalized contract between pilot project members and PCCW Global (2<sup>nd</sup> Qtr 2018)
- ASEAN members have expressed to join: Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Singapore, Thailand and Vietnam
- Middle Eastern Regional ICAO has also joined CRV.

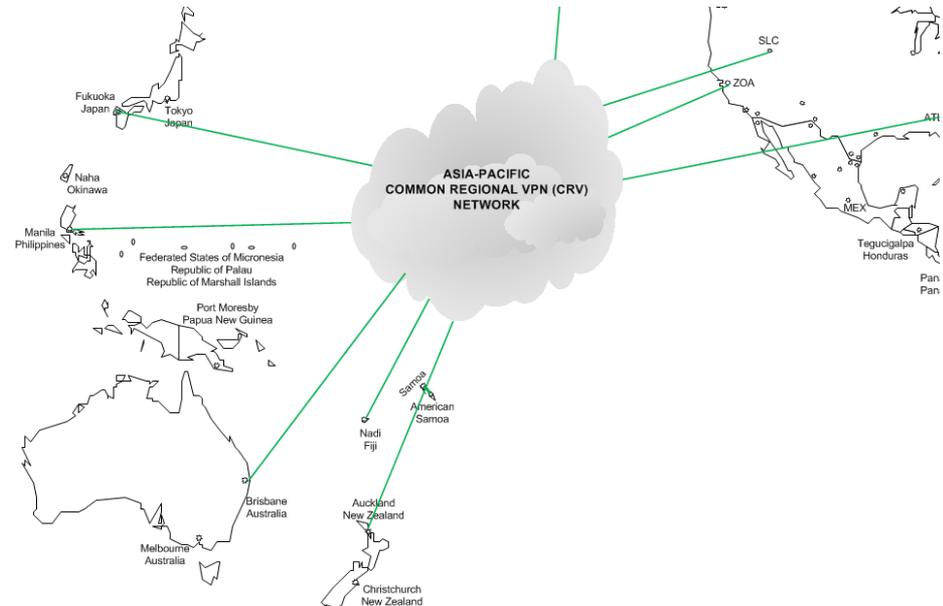


# Common Regional VPN (CRV)



## Existing Situation

- Point-Point TDM
- S. Pacific AFS Network (BWM-like)
- Fixed bandwidth
- Obsolete “Half-Circuit” carrier billing
- Legacy voice protocols



## Regional Private Network - CRV

- Common network service provider
- IP (Multi Protocol Label Switching)
- Supports voice (VoIP) and data
- States responsible for connections
- Foundation for AMHS & SWIM
- Increases connectivity; decreases cost



Federal Aviation Administration

# FAA Planned Activities

- **Data Communication:**

- Provide one 2 Mega Bit Per Second (Mbps) drop at ATL NEMC (Diversity)
- Provide one 2 Mbps drop at SLC NEMC (Primary)

- **Voice Communication**

- Provide one 2 Mbps drop at ZOA
- Provide two tail circuits: one from San Jose and one from LAX for diversity
- Convert VoIP back to analog legacy dial plan to be compatible with VSCS and VTAB



# Questions?

