

International Civil Aviation Organization

ICAO

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

Video Teleconference, 25 – 27 January 2022

Agenda Item 5: Review and update the APAC CRV Implementation Table**UPDATE THE APAC CRV IMPLEMENTATION TABLE**

(Presented by the Secretariat)

SUMMARY

This paper presents the APAC CRV Implementation Table for review and update by the meeting.

1. INTRODUCTION

1.1 The Eighth Meeting of the Common aeRonautical Virtual Private Network Operations Group of APANPIRG (**CRV OG/8**) was held via Video Tele-Conference (VTC) from *17 to 19 May 2021*. The meeting reviewed and updated the CRV implementation table in the APAC Region.

1.2 The Eighth Meeting of the Aeronautical Communication Services Implementation Coordination Group (**ACSICG/8**) was held from *21 to 23 June 2021* via VTC. The ACSICG/8 meeting reviewed the outcomes of the 8th meetings of CRV Operations Group (CRV OG/8).

1.3 The Twenty Fifth Meeting of the Communications, Navigation and Surveillance Subgroup (**CNS SG/25**) of Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG), was held from *18 to 22 December 2021* via VTC. The meeting noted the updated CRV implementation status in the APAC Region.

2. DISCUSSION

2.1 The updated CRV implementation table by CRV OG/8 and ACSICG/8 meeting is provided in **Appendix A** to this paper.

2.2 A State Letter **Ref.:** T 8/2.10 - AP041/20 (CNS), dated on 2 March 2020, provided as **Attachment A** to this paper, extended the reminder for implementation of Common aeRonautical VPN (CRV) in APAC region by 2020.

2.3 Considering the challenges and difficulties faced by States/Administrations under current pandemic situation, the APANPIRG/31 meeting adopted the **Conclusion C31/12 - Target Year of CRV Implementation in APAC Region** recommended by CNS SG/24, to postpone the target year of regional implementation of CRV from 2020 to the end of 2021. A State Letter **Ref.:** T 8/2.10-AP002/21(CNS), dated on 6 January 2021, which circulated this information, is provided as **Attachment B** to this paper.

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2.4 To facilitate the implementation of CRV for the small Pacific Island & small ANSP in the region, the APANPIRG/32 meeting adopted the **Conclusion C32/7 - Implementation of CRV for small Pacific Island and small ANSP in the region using CRV Solution, PCCW Global (PCCWG) SLA Package D**. As a follow up action, the State Letter **Ref.: T 8/2.10 - AP007/22 (CNS)**, dated on 12 January 2022, is provided as **Attachment C** to this paper, which extended the reminder for the target year of CRV Implementation by 31 December, 2022 in APAC Region, and CRV Implementation for small Pacific Island and small ANSP in the region using CRV Solution, PCCWG SLA Package D.

2.5 The latest updates from the service provider on the planning and implementation status of CRV are as follows:

- **Under Operation**

Australia, Bhutan, China, Fiji, Hong Kong China, Japan, Malaysia, New Zealand, Philippines, PNG, Republic of Korea, Singapore and USA.

- **Under Provisioning**

Nepal

- **Hot Prospects in 2021**

India, Indonesia, France, Russia, Thailand

2.6 The format of CRV Implementation table updated by CRV OG/8 is modified to accommodate other necessary information required by ICAO Secretariat time-to-time for monitoring the progress and implementation status of CRV and connected states by CRV for each member state. The revised formatted CRV implementation table is provided in **Appendix B** to this paper.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) note the State Letters provided in **Attachment A**, **Attachment B** and **Attachment C**;
- c) review and update the CRV implementation table provided in **Appendix B**; and
- d) discuss any relevant matter as appropriate.

CRV IMPLEMENTATION TABLE

State/ Administration	Intended date for CRV cut-over	Applications targeted	Migration scheme	Prerequisites/ dependencies
Australia	Contract in May2018 and service readiness in 3Q 2018	AFTN, ADS-B, AMHS, Voice With: Australia February,2019(AMHS/AIDC), March,2019(Voice) Fiji March,2019 (AMHS June 2019/AIDC, Voice completed April) New Zealand , February, 2019 (AMHS June 2019, AFTN May 2019/AIDC), March, 2019 (Voice April 2019 completed) Indonesia 4Q2019 (TBC) (AMHS/AIDC, Voice, ADS-B); PNG 4Q2019(TBC), (AMHS/AIDC, Voice) Singapore 2Q2019 TBC (AMHS/AIDC, Voice); South Africa TBC 3Q2019 TBC (AMHS/AIDC, Voice); Japan would be end of 2019.	staged approach	Termination of current COM contract
Bhutan	Contract signed on Oct 2019. CRV installed successfully in Dec 2021. CRV P2P Test between Paro-Mumbai & Paro- Bangkok to be done once India and Thailand join CRV	AMHS first and Voice & ADS-B will follow up after AMHS.		Dependent on India and Thailand for utilization of CRV network.

CRV OG/9
Appendix A to WP/06

State/ Administration	Intended date for CRV cut-over	Applications targeted	Migration scheme	Prerequisites/ dependencies
Cambodia	As early as convenient, dependent on neighboring countries			Internal decision making
China	Contract signed on 21 June 2020.	Applications targeted: Data(AMHS) With: Hong Kong 3Q2020; Japan 4Q2020; Thailand TBD; India TBD. Republic of Korea 4Q2020 ATFM test with Japan and ROK at Sep 2020 over CRV	staged approach	
Democratic People's Republic of Korea	Contract in 3Q2018 and service readiness in 4Q2018	AFTN and VoIP		
Hong Kong, China	Contract signed on 6 April 2018. Connection was installed successfully in June 2018.	With Manila CRV-Voice put into operation in August 2018 CRV-AMHS put into operation in May 2019 With Taipei CRV-AMHS put into operation in May 2020 With Fukuoka CRV-AMHS put into operation in September 2020 With Beijing CRV - AMHS POT in March and operation in April 2021	staged approach	Need to coordinate with relevant CAAs/ANSPs in joining CRV in a harmonized manner, etc.

CRV OG/9
Appendix A to WP/06

State/ Administration	Intended date for CRV cut-over	Applications targeted	Migration scheme	Prerequisites/ dependencies
		Bangkok and Hochiminh Subject to their readiness		
Macao, China	Service readiness in Q4 2021	To be confirmed	Staged approach	Migration from X.25 to IPS
Fiji	Contract in May 2018 and service readiness in 3Q 2018.	Data (AMHS) and VoIP With: Australia ATS voice April 2019 completed, AMHS completed in July 2019, NZ ATS voice completed April 2019 and USA ATS voice completed in March 2019 and AMHS completed in April 2019.	Staged approach	CBA, safety case
France (New Caledonia and French Polynesia)	2023 is target for DNSA to sign contract subject to internal security assessment (done).	ATS Voice, AMHS with Fiji & AIDC, AMHS with USA, AIDC/AMHS with NZ.		CBA, cost must be affordable <i>Wallis and Futuna: no dedicated connection to CRV</i>
India	Contract for CRV implementation with M/s PCCW in India will be signed in 3Q of 2021 and CRV Service will be ready in 4Q of 2021.	AFTN/AMHS, ADS-B, AIDC, ATS Voice	staged approach	Internal Administrative approvals & safety case

CRV OG/9
Appendix A to WP/06

State/ Administration	Intended date for CRV cut-over	Applications targeted	Migration scheme	Prerequisites/ dependencies
Indonesia	Contract in 3Q2021 and service readiness in 4Q2021.	AFTN, AMHS, ADS-B and voice		CBA completed
Japan	Contract signed in Nov.2017 and service readiness in 1Q 2018 for Fukuoka	Data first with: Hong Kong completed 3Q2020 USA completed 1Q2019 Singapore completed 4Q2020 China completed 1Q2021 Voice Plan with: USA 2Q2021 Daegu and Incheon (R.O.K) started in 1Q2021	staged approach	
Malaysia	Contract to be signed 4Q 2020 and service readiness in 1Q 2021	AFTN, AMHS, ADS-B and ATS voice	staged approach	New ATC centre operational in 2021 Contract issue with the new ATC main contractor. COM Project is part of the main contract.
Myanmar	Contract will be signed 4Q2020.	AFTN/AMHS, AIDC, ADS-B and voice	staged approach	One of counterparts join in
Nepal	Nepal intends to join CRV on staged approach with AMHS data connectivity as first priority and intends to sign the contract with PCCW within 2020.			

CRV OG/9
Appendix A to WP/06

State/ Administration	Intended date for CRV cut-over	Applications targeted	Migration scheme	Prerequisites/ dependencies
New Zealand	Contract signed in July 2018 and service implemented December 2018	Australia Voice Completed March 2019 and AMHS June 2019 Completed USA Voice Completed March 2019 and AMHS March 2019 Completed Fiji Voice Completed April 2019 French Polynesia AMHS and Voice Chile AMHS (SAM regional network REDDIG)	Awaiting French Polynesia joining. Awaiting outcome of inter-regional network connectivity discussion. For Chile	CBA attractive if all counterparts join in.
Philippines	Contract signed in March 2018 and service readiness in 2Q2018	Completed: with HONG KONG AIDC - 2Q2019; AMHS - 2Q2019; Voice - 3Q2018. with TAIPEI AIDC 4Q2019; AMHS 3Q2019; Voice 1Q 2019. with SINGAPORE AIDC – 4Q2019; AMHS –4Q2020; Voice – 1Q2020. with USA AMHS – 2Q2021; Voice – 4Q2019;	staged approach	Success transition to the New ATM centre in 4Q2018

CRV OG/9
Appendix A to WP/06

State/ Administration	Intended date for CRV cut-over	Applications targeted	Migration scheme	Prerequisites/ dependencies
		with INDONESIA AIDC – 4Q2020.		
Republic of Korea	Contract in 3Q 2019 and service readiness in 4Q 2019	Completed: with Japan Voice –March 2021 Planned; With Japan Voice additional lines-from 2022 to 2023 AMHS-4Q 2022 With China Data(AMHS)-4Q 2022	staged approach	
Singapore	Contract signed in May 2019 and service readiness in Dec 2019	Data (AMHS over IP) with: Australia Dec 2020 (completed); Japan Nov 2020 (completed); and Philippines Dec 2020 (completed);and Malaysia Q3 2021. Voice with: Philippines Mar 2020 (completed).	Staged approach	Singapore
Sri Lanka	As soon as CRV is available	AMHS connectivity with Mumbai, Singapore and Male. Direct Speech facilities with Chennai, Trivendrum, Mumbai, Male, Jakarta, Melbourne, Singapore	Phased approach with the implementation of CRV	CBA

CRV OG/9
Appendix A to WP/06

State/ Administration	Intended date for CRV cut-over	Applications targeted	Migration scheme	Prerequisites/ dependencies
Thailand	Contract in 3Q2021 and service readiness in 1Q2022	Data first Then voice, subject to safety case: China 1Q2022 Hong Kong 1Q2022; Singapore 1Q2022; India 2022.	Staged approach	
United States	Contract in January 2018	<p>1) AMHS with Australia Fiji Japan Philippines New Zealand Papua New Guinea (2021) Indonesia (2022)</p> <p>2) AIDC with Fiji Japan New Zealand Papua New Guinea (Direct planned 2021) Tahiti (via New Zealand) Indonesia (Direct planned 2022) Russia (when join CRV)</p> <p>3) VoIP with Fiji Japan Philippines New Zealand Papua New Guinea (direct planned 2021) Indonesia (2022) Russia (when join CRV)</p>	Staged approach	

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State/ Administration	Intended date for CRV cut-over	Applications targeted	Migration scheme	Prerequisites/ dependencies
Viet Nam	To be confirmed later (After discussed with PCCW Global)			

CRV IMPLEMENTATION TABLE

SN	State/ Administrati on (with* is BBIS; marked in blue- not yet join CRV/ no updates provided)	States connected	Intended date for CRV cut- over	Applications targeted	Migration scheme	Prerequisites/ dependencies
1	Afghanistan					
2	Australia*	Fiji New Zealand Indonesia PNG Singapore Japan	Contract in May2018 and service readiness in 3Q 2018	AFTN, ADS-B, AMHS, Voice With: Australia February,2019(AMHS/AIDC), March,2019(Voice) Fiji March,2019 (AMHS June 2019/AIDC, Voice completed April) New Zealand , February, 2019 (AMHS June 2019, AFTN May 2019/AIDC), March, 2019 (Voice April 2019 completed) Indonesia 4Q2019 (TBC) (AMHS/AIDC, Voice, ADS-B); PNG 4Q2019(TBC), (AMHS/AIDC, Voice) Singapore 2Q2019 TBC (AMHS/AIDC, Voice); South Africa TBC 3Q2019 TBC (AMHS/AIDC, Voice); Japan would be end of 2019.	Staged approach	Termination of current COM contract

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Appendix B to WP/06

SN	State/ Administrati on (with* is BBIS; marked in blue- not yet join CRV/ no updates provided)	States connected	Intended date for CRV cut- over	Applications targeted	Migration scheme	Prerequisites/ dependencies
3	Bangladesh					
4	Bhutan		<p>Contract signed on Oct 2019.</p> <p>CRV installed successfully in Dec 2021.</p> <p>CRV P2P Test between Paro-Mumbai & Paro-Bangkok to be done once India and Thailand join CRV</p>	AMHS first and Voice & ADS-B will follow up after AMHS.		Dependent on India and Thailand for utilization of CRV network.
5	Brunei Darussalam					
6	Cambodia		As early as convenient, dependent on neighbouring countries			Internal decision making

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SN	State/ Administrati on (with* is BBIS; marked in blue- not yet join CRV/ no updates provided)	States connected	Intended date for CRV cut- over	Applications targeted	Migration scheme	Prerequisites/ dependencies
7	China*	Hong Kong China Japan Republic of Korea	Contract signed on 21 June 2020.	Applications targeted: Data(AMHS) With: Hong Kong 3Q2020; Japan 4Q2020; Thailand TBD; India TBD. Republic of Korea 4Q2020 ATFM test with Japan and ROK at Sep 2020 over CRV	staged approach	
8	Hong Kong, China*	Philippines China Japan Thailand Vietnam	Contract signed on 6 April 2018. Connection was installed successfully in June 2018.	With Manila CRV-Voice put into operation in August 2018 CRV-AMHS put into operation in May 2019 With Taipei CRV-AMHS put into operation in May 2020	staged approach	Need to coordinate with relevant CAAs/ANSPs in joining CRV in a harmonized manner, etc.
9	Macau China		Service readiness in Q4 2021	To be confirmed	Staged approach	Migration from X.25 to IPS
10	Cook Islands					
11	Democratic People's Republic of Korea		Contract in 3Q2018 and service readiness in 4Q2018	AFTN and VoIP		

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SN	State/ Administrati on (with* is BBIS; marked in blue- not yet join CRV/ no updates provided)	States connected	Intended date for CRV cut- over	Applications targeted	Migration scheme	Prerequisites/ dependencies
12	Fiji*	Australia New Zealand USA	Contract in May 2018 and service readiness in 3Q 2018.	Data (AMHS) and VoIP With: Australia ATS voice April 2019 completed, AMHS completed in July 2019, NZ ATS voice completed April 2019 and USA ATS voice completed in March 2019 and AMHS completed in April 2019.	Staged approach	CBA, safety case
13	France (New Caledonia and French Polynesia)		2023 is target for DNSA to sign contract subject to internal security assessment (done).	ATS Voice, AMHS with Fiji & AIDC, AMHS with USA, AIDC/AMHS with NZ.		CBA, cost must be affordable <i>Wallis and Futuna: no dedicated connection to CRV</i>
14	India*		Contract for CRV implementation with M/s PCCW in India will be signed in 3Q of 2021 and CRV Service will be ready in 4Q of 2021.	AFTN/AMHS,ADS-B,AIDC,ATS Voice	staged approach	Internal Administrative approvals & safety case
15	Indonesia		Contract in 3Q2021 and service readiness in 4Q2021.	AFTN, AMHS, ADS-B and voice		CBA completed

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SN	State/ Administrati on <small>(with* is BBIS; marked in blue- not yet join CRV/ no updates provided)</small>	States connected	Intended date for CRV cut- over	Applications targeted	Migration scheme	Prerequisites/ dependencies
16	Japan*	Hong Kong China USA Singapore China RoK	Contract signed in Nov.2017 and service readiness in1Q 2018for Fukuoka	Data first with: Hong Kong completed 3Q2020 USA completed 1Q2019 Singapore completed 4Q2020 China completed 1Q2021 Voice Plan with: USA 2Q2021 Daegu and Incheon (R.O.K) started in1Q2021	staged approach	
17	Kiribati					
18	Lao PDR					
19	Malaysia		Contract to be signed 4Q 2020 and service readiness in 1Q 2021	AFTN, AMHS, ADS-B and ATS voice	staged approach	New ATC centre operational in 2021 Contract issue with the new ATC main contractor. COM Project is part of the main contract.
20	Maldives					
21	Marshall Islands					

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SN	State/ Administrati on (with* is BBIS; marked in blue- not yet join CRV/ no updates provided)	States connected	Intended date for CRV cut- over	Applications targeted	Migration scheme	Prerequisites/ dependencies
22	Micronesia (Federated States of)					
23	Mongolia					
24	Myanmar		Contract will be signed 4Q2020.	AFTN/AMHS, AIDC, ADS-B and voice	staged approach	One of counterparts join in
25	Nauru					
26	Nepal		Nepal intends to join CRV on staged approach with AMHS data connectivity as first priority and intends to sign the contract with PCCW within 2020.			

CRV OG/9
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SN	State/ Administrati on <small>(with* is BBIS; marked in blue- not yet join CRV/ no updates provided)</small>	States connected	Intended date for CRV cut- over	Applications targeted	Migration scheme	Prerequisites/ dependencies
27	New Zealand	Australia USA Fiji French Polynesia Chile	Contract signed in July 2018 and service implemented December 2018	Australia Voice Completed March 2019 and AMHS June 2019 Completed USA Voice Completed March 2019 and AMHS March 2019 Completed Fiji Voice Completed April 2019 French Polynesia AMHS and Voice Chile AMHS (SAM regional network REDDIG)	Awaiting French Polynesia joining. Awaiting outcome of inter-regional network connectivity discussion. For Chile	CBA attractive if all counterparts join in.
28	Pakistan					
29	Palau					
30	Papua New Guinea					
31	Philippines	Hong Kong China China Singapore USA Indonesia	Contract signed in March 2018 and service readiness in 2Q2018	Completed: with HONG KONG AIDC - 2Q2019; AMHS - 2Q2019; Voice - 3Q2018. with TAIPEI AIDC 4Q2019;	staged approach	Success transition to the New ATM center in 4Q2018

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SN	State/ Administrati on (with* is BBIS; marked in blue- not yet join CRV/ no updates provided)	States connected	Intended date for CRV cut- over	Applications targeted	Migration scheme	Prerequisites/ dependencies
				<p>AMHS 3Q2019; Voice 1Q 2019.</p> <p>with SINGAPORE AIDC – 4Q2019; AMHS –4Q2020; Voice – 1Q2020.</p> <p>with USA AMHS – 2Q2021; Voice – 4Q2019;</p> <p>with INDONESIA AIDC – 4Q2020.</p>		
32	Republic of Korea	Japan	Contract in 3Q 2019 and service readiness in 4Q 2019	<p>Completed: with Japan Voice –March 2021</p> <p>Planned; With Japan Voice additional lines-from 2022 to 2023 AMHS-4Q 2022</p> <p>With China Data(AMHS)-4Q 2022</p>	staged approach	

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SN	State/ Administrati on (with* is BBIS; marked in blue- not yet join CRV/ no updates provided)	States connected	Intended date for CRV cut- over	Applications targeted	Migration scheme	Prerequisites/ dependencies
33	Samoa					
34	Singapore*	Australia Japan Philippines	Contract signed in May 2019 and service readiness in Dec 2019	Data (AMHS over IP) with: Australia Dec 2020 (completed); Japan Nov 2020 (completed); and Philippines Dec 2020 (completed);and Malaysia Q3 2021. Voice with: Philippines Mar 2020 (completed).	Staged approach	Singapore
35	Solomon Islands					
36	Sri Lanka		As soon as CRV is available	AMHS connectivity with Mumbai, Singapore and Male. Direct Speech facilities with Chennai, Trivandrum, Mumbai, Male, Jakarta, Melbourne, Singapore	Phased approach with the implementation of CRV	CBA
37	Thailand*		Contract in 3Q2021 and service readiness in 1Q2022	Data first Then voice, subject to safety case: China 1Q2022 Hong Kong 1Q2022; Singapore 1Q2022; India 2022.	Staged approach	
38	Timor Leste					

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SN	State/ Administrati on (with* is BBIS; marked in blue- not yet join CRV/ no updates provided)	States connected	Intended date for CRV cut- over	Applications targeted	Migration scheme	Prerequisites/ dependencies
39	Tonga					
40	Tuvalu					

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SN	State/ Administrati on (with* is BBIS; marked in blue- not yet join CRV/ no updates provided)	States connected	Intended date for CRV cut- over	Applications targeted	Migration scheme	Prerequisites/ dependencies
41	United States*	Australia Fiji Japan Philippines New Zealand Papua New Guinea Tahiti Russia	Contract in January 2018	1) AMHS with Australia Fiji Japan Philippines New Zealand Papua New Guinea (2021) Indonesia (2022) 2) AIDC with Fiji Japan New Zealand Papua New Guinea (Direct planned 2021) Tahiti (via New Zealand) Indonesia (Direct planned 2022) Russia (when join CRV) 3) VoIP with Fiji Japan Philippines New Zealand Papua New Guinea (direct planned 2021) Indonesia (2022)	Staged approach	

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SN	State/ Administration (with* is BBIS; marked in blue- not yet join CRV/ no updates provided)	States connected	Intended date for CRV cut- over	Applications targeted	Migration scheme	Prerequisites/ dependencies
42	Valuatu					
43	Viet Nam		To be confirmed later (After discussed with PCCW Global)			



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Ref.: T 8/2.10 – AP041/20 (CNS)

2 March 2020

Subject: Reminder for implementation of
Common aeRonautical VPN (CRV) in APAC Region by 2020

Action Required: Note the testing result and implement
CRV in APAC by 2020

Dear Sir/Madam,

I wish to remind your Administration about the need to implement CRV project in the APAC Region by the end of 2020.

In following up the successful test results of the proof of concept (POC) conducted by Australia, Fiji, New Zealand and USA in early 2019, seven States/Administrations have now joined CRV and having AFS traffic exchanged over CRV. The Fifth Meeting of the CRV Operations Group in January 2019 considered, it is not necessary for other States to duplicate similar tests of POC.

The 54th Asia/Pacific DGCA Conference in August 2017 through Action Item 54/20 urged all APAC States to implement CRV project by 2020 to bound the overall transition time and optimize the cost benefits of all stakeholders. Noting that PCCW Global is the only selected service provider for the CRV network, States/Administrations were therefore urged to initiate a service order with the PCCW Global for CRV implementation as early as possible using the CRV common provisions formulated by CRV Task Force and CRV Operations Group (CRV OG) of APANPIRG.

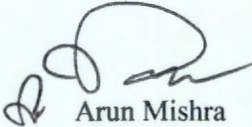
The CRV is considered as a cross-border cost-effective telecommunications network for APAC States which enables implementation of the Global Air Navigation Plan and Seamless ANS objectives. 2020 is the target year for all ANSPs in the APAC Region to implement CRV. Failing this, pessimistic assumptions might threaten the roll-out of CRV initiative and it would also hinder the network operation to those States that have implemented CRV. Thus, CRV OG might recommend to establish an Air Navigation Deficiency Report beginning 2021 for those States/Administrations that have not implemented CRV.

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You may wish to note that CRV has been considered as an enabler to support exchange of MET information using IWXXM format which is an ICAO Standard applicable from November 2020. In addition, the CNS SG/23 meeting reconfirmed that CRV will be used to support SWIM Implementation in the APAC Region.

In view of the foregoing, you are requested to take urgent actions and arrangements to achieve the synchronized implementation of CRV project in the APAC Region by the end of 2020.

Yours sincerely,



Arun Mishra
Regional Director



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Ref.: T 8/2.10 – AP002/21(CNS)

6 January 2021

Subject: Postpone the target year of CRV
implementation from 2020 to end of 2021 in APAC Region

Action Required: Necessary actions for implementation
of CRV in APAC Region by 2021

Dear Sir/Madam,

I wish to inform you that due to the challenges and difficulties faced by States/Administrations under current pandemic situation, APANPIRG/31 adopted the Conclusion C31/12 - *Target Year of CRV Implementation in APAC Region* recommended by CNS SG/24, to postpone the target year of regional implementation of CRV from 2020 to the end of 2021. It is noted that PCCW Global has also agreed to extend the target year for regional CRV implementation from end of 2020 to end of 2021.

The CRV is considered as a cross-border cost-effective telecommunications network for APAC States which enables implementation of the Global Air Navigation Plan and Seamless ANS objectives. Action Item DGCA/54/20 in 2017 set up 2020 as the target year for CRV implementation for all ANSPs to optimize the cost benefits of all stakeholders. Failing implementation of CRV by new target date, pessimistic assumptions might threaten the roll-out of CRV initiative and it would also hinder the network operation of those States that have implemented CRV.

States/Administrations are therefore urged to initiate a service order with the PCCW Global for CRV implementation as early as possible and synchronise the implementation of CRV in APAC region before the end of year 2021.

Yours sincerely,

Arun Mishra
Regional Director



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Ref.: T 8/2.10 – AP007/22(CNS)

12 January 2022

Subject: To remind the target year of CRV Implementation by 31 December, 2022 in APAC Region and CRV Implementation for small Pacific Island and small ANSP in the region using CRV Solution, PCCWG SLA Package D

Action Required: Necessary actions for Implementation of CRV in APAC Region by 31 December, 2022

Dear Sir/Madam,

I wish to inform you that in order to facilitate the implementation of CRV for the small Pacific Island & small ANSP in the region, APANPIRG/32 adopted the following Conclusion APANPIRG/32/7 recommended by CNS SG/25:

Conclusion APANPIRG/32/7 (CNS SG/25/02) - *Implementation of CRV for small Pacific Island and small ANSP in the region using CRV Solution, PCCW Global (PCCWG) SLA Package D.*

That, the CRV OG considered the following to assist small Pacific Islands & small ANSP in APAC in the implementation of CRV:

- a) Small Pacific Island and small ANSP in the region to consider using CRV SLA package D as the CRV solution to implement CRV for the exchange of voice & AMHS services
- b) With target date to implement CRV by the end of 2021 by APANPIRG Conclusion C 31/12, it is recommended that the CRV OG to work closely with the small Pacific Islands, small ANSP in the region and PCCWG on a cost effective CRV solution to implement CRV.

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The CRV is considered as a cross-border cost-effective telecommunications network for APAC States, which enables implementation of the Global Air Navigation Plan and Seamless ANS objectives. Action Item DGCA/54/20 in 2017 set up 2020 as the target year for CRV implementation for all ANSPs to optimize the cost benefits of all stakeholders. APANPIRG/31 adopted the Conclusion C31/12 - *Target Year of CRV Implementation in APAC Region* recommended by CNS SG/24, to postpone the target year of regional implementation of CRV from 2020 to the end of 2021 due to the challenges and difficulties faced by States/Administrations under COVID-19 pandemic situation. Noting that PCCW Global is the only selected service provider for the CRV network, States/Administrations are urged to initiate a service order with the PCCW Global for CRV implementation as early as possible using the CRV common provisions formulated by CRV Operations Group (CRV OG) of APANPIRG. As per standard terms and conditions, all Authorities shall join the CRV program and sign the relevant Service Contract(s) with PCCWG with the billing start date on or before 31 December, 2022. For authorities, which join CRV after 31 December, 2022, any additional charges may be imposed. Failing implementation of CRV by target date, pessimistic assumptions might threaten the roll-out of CRV initiative and it would also hinder the network operation of those States that have implemented CRV.

States/Administrations are therefore urged to note the abovementioned APANPIRG/32 Conclusion and initiate a service order with the PCCW Global for CRV implementation as early as possible, on or before 31 December, 2022 and synchronise the implementation of CRV in APAC region.

Yours sincerely,

A handwritten signature in black ink, consisting of stylized Chinese characters, likely representing the name Tao Ma.

Tao Ma
Regional Director