



ICAO

*International Civil Aviation Organization*

**THE FIFTEENTH MEETING OF THE COMMON  
AERONAUTICAL VIRTUAL PRIVATE  
NETWORK OPERATIONS GROUP (CRV OG/15)**

*Mumbai, India, 15-19 June 2026*

**Agenda Item 13:** Review ToR and update Action Items of CRV OG

## **REVIEW CRV OG TOR AND ACTION ITEMS**

(Presented by the Secretariat)

### **SUMMARY**

The paper presents current Terms of Reference (ToR) and Action Items of CRV Operations Group (CRV OG) for review and update by the meeting.

## **1. INTRODUCTION**

1.1 The Twenty Seventh Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/27) was held in Bangkok, Thailand, from 5 to 8 September 2016. The meeting adopted the **Decision APANPIRG/27/33**: Creation of the Common Aeronautical VPN (CRV) Operations Group (CRV OG) to establish the CRV OG.

1.2 The CRV OG rules and procedures were drafted and agreed upon by the CRV Task Force (CRV TF). The APANPIRG/27 meeting reviewed and adopted the ToR of CRV OG provided in Appendix B to APANPIRG/27- WP/9.

1.3 Since then, CRV OG has developed various action items, which as an Action List during CRV OG/2 and renamed as a Subject Task list in CRV OG/5.

1.4 This paper shares the latest CRV OG ToR and Action Items/Subject Task List for the meeting review.

## **2. DISCUSSION**

2.1 The Twenty Third Meeting of the Communications, Navigation, and Surveillance Sub-Group (CNS SG/23) of APANPIRG was held in Bangkok, Thailand, from 2 to 6 September 2019. The meeting reviewed the changes proposed by CRV OG/5 to the CRV OG ToR for the amendment to the title of CRV (the Common aeRonautical VPN) to undertake continuous CRV service improvements for future needs and agreed on the **Decision CNS SG/23/2 (ACSICG/6/2 - CRV OG/5/1)** - Revised Terms of Reference of CRV OG.

2.2 The Ninth Meeting of the Common aeRonautical Virtual Private Network Operations Group of APANPIRG (CRV OG/9) held from 25 to 27 January 2022 via video teleconference and the Eleventh Meeting of the Common aeRonautical Virtual Private Network Operations Group of

APANPIRG (CRV OG/11) held from 1 to 3 February 2023 updated ToR with editorial corrections provided in **Appendix A** of this paper.

2.3 The Action Items List for CRV OG was reviewed and updated by the CRV OG/14 meetings, which is provided in **Appendix B** of this paper.

**3. ACTION BY THE MEETING**

3.1 The Meeting is invited to:

- a) review and update the ToR of CRV OG provided in **Appendix A** of this paper;
- b) review and update the Action Items List for CRV OG provided in **Appendix B**; and
- c) discuss any relevant matter as appropriate.

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**Common aeRonautical Virtual Private Network (VPN) Operations Group (OG) of  
Asia/Pacific Air Navigation Planning and  
Implementation Regional Group (APANPIRG) (APANPIRG CRV OG)**

**TERMS OF REFERENCE**

**1. Background**

The establishment of APANPIRG CRV OG was proposed during the deliberations of the CRV Task Force (TF) as a dedicated group to provide oversight of the CRV operations and the performance of the CRV Service Provider. The APANPIRG CRV OG is formally established by APANPIRG Decision 27/33.

**2. Terms of Reference**

The Common aeRonautical Virtual Private Network (VPN) Operations Group (OG) will provide oversight of the function and performance of the CRV and the performance of the Service Provider. The following are the activities to be performed:

1. Oversee the implementation of the CRV post Contract Award;
2. Co-ordinate and standardize the establishment or upgrade of CRV services as required;
3. Co-ordinate activities with other regions' ICAO CRV OGs, if any, to make sure that decision making and communication with CRV Service Provider is consistent and timely;
4. Oversee the performance of the CRV Service Provider, including customer service;
5. Oversee the performance of the CRV network;
6. Oversee the escalation and solving by the CRV Service Provider of issues associated with the provision of the CRV, including safety and security related issues;
7. Assist with the resolution of issues associated with the provision of the CRV among the CRV Users as required, including safety and security related issues;
8. Assist with the migration of Aeronautical Fixed Services (AFS) onto the CRV, in line with the GANP and ICAO APAC Seamless ANS plan;
9. Maintain CRV OG documentation associated with the function, performance and management of the CRV, including the CRV OG Operations Manual, a list of CRV users and a record of variations to the common tender package;
10. Accept deliverables from the CRV Service Provider on behalf of the CRV Users as required;
11. Promote the use of CRV;

12. Undertake continuous service improvements review to ensure CRV meets future needs; and

13. Perform any other activity as required by CRV operations.

**3. Reporting**

The CRV OG will report to Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG) through ACSICG and CNS SG.

**4. Participation**

The CRV OG will include all APAC Member States/Administrations, and any other organization as needed. Member States and/or inter-regional entry/exit Administrations in other ICAO regions may also be invited or request to participate in the activities of CRV OG.

**5. Conduct of the work**

It is anticipated that the CRV OG will conduct its work primarily by Web Conferences, teleconferences and other electronic means of communications. Face-to-face meetings of CRV OG may be required on an annual basis.

The ICAO APAC Regional Office will provide secretariat support for the CRV OG.

**6. Rapporteur**

There will be two Co-Chairpersons of the CRV OG, one primarily responsible for Asia coordination and the other for Pacific coordination.

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Reference	Who	What	Due date	Status	Completed on
1-1	ICAO RO	After inclusion by ICAO TCB of the revised budget and procurement clauses, ICAO Regional Office to send an ICAO State letter to all Pioneer States in order to propose the draft of revised annex 1 for acceptance. <b>CRV OG/6 made Decision OG/6/3 to develop SOW for the concrete proposal.</b>	20 February 2017  1/22/2022	close	The revised Annex 1 had been developed in CNS SG/21 report but no concrete proposal.
1-2	All member States	All States to complete their CBA and send to ICAO	28-Apr-17	close	CRV OG/6
1-3	Terence Palmer, Australia	Australia to include provisions in the CRV-OG operating manual for a small implementation team	1-Dec-17	close	CRV OG/7
2-1	Vaughan Hickford, New Zealand:	to develop the flowchart to manage change requests to the common provisions and establish agreements between counterparts on CRV and integrate those flowcharts in the CRV Operating Manual	7-Jul-17	close	CRV OG/7
2-2	Tom Beschler, USA	to share the 10 key points of the validation of the pioneer implementation once they are agreed on	30-May-17	close	1-Apr-18
2-3	all points of contact for the review of engineering	to submit their comments to husnaeen@icao.int at their earliest convenience but no later than 7 July 2017	7-Jul-17	close	CRV OG/3
2-4	Vaughan Hickford, New Zealand:	to review the procedure to establish a contract with PCCW Global, Ltd and present it as a flowchart to be included in the CRV operating manual	30-May-17	close	CRV OG/3
2-5	Augustine Lau, Singapore:	to include the updated CRV Implementation schedule into the v0.5 of the implementation plan and circulate the v0.5 to all participants for acceptance	30-Aug-17	close	1-Apr-18
2-6	USA/Hong Kong China/New Zealand/Secretariat	to propose a way forward regarding the MSA	1-Dec-17	close	
4-1	All member States	Complete contract with PCCW Global by no later than 12/2020	12/31/2021 Dec 2022 ( in CRV OG/9) CRV OG12	Open	on-going
4-2	ICAO Secretariat	Conduct CRV OG/6 and SWIM TF currently for joint development SWIM Architecture based on construction of CRV	8-May-19	close	
4-3	PCCW Global & Member States	PCCW Global to reissue an updated (a)-1 Terms and Conditions on starting and ending dates of initial contract. States to note the changes and take necessary action in the	1-Dec-18	close	CRV OG/7
4-4	CRV OG co-chair (Asia) and & pioneer CRV member States	To investigate use the MSA funds to undertake the independent safety assessment and seek approval from Pioneer States	1/1/2022 CRV OG/11 (in CRV OG/9)	close	1 adopted the conclusion for Optic
4-5	New Zealand	further develop and maintain an additional CRV portal for use by the APAC CRV members and provide access procedure to those members that wish to access the portal.	Apr. 19	close	CRV OG/5

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Reference	Who	What	Due date	Status	Completed on
4-6	New Zealand	Finalize the draft CRV Operations Manual	Apr.19	close	CRV OG/7
4-7	USA	Develop a WP on AMHS over IPS protocol only for BBIS	1-Jun-18	close	CRV OG/5
5-1	Australia, Hong Kong China and Japan	Prepare a working paper for SWIM TF/3 meeting on the CRV support for SWIM	30-Apr-19	close	SWIM TF/3
5-2	ICAO RO	Disribute a State Letter to inform States of POC result	15-Mar-19	close	6-Mar-19
7-1	China, Nepal, PCCWG	Study on use of existing VSAT infrastructure linking with CRV	Jan-22	close	
7-2	PCCW Global & New Zealand	Pacific solution on inter-connection with PASNET, Feasibility for interconnection	5/1/2022 Dec 2022 (CRV OG/9) CRV OG12 (decided in CRV OG/11)	close	
7-3	Australia and New Zealand	Polishing draftt First CRV Operations Manual	May-20	close	
7-4	PCCWG & USA,Australia	maintain APAC dial plan and posted on CRV OG portal	Jan-22	close	
7-5	AFSSP WG	encourging member states of CRV to participate	20-Jan-22	close	
7-6	Hong Kong China	SWIM demonstration over mini-Pseudo CRV by HK, Singapore and Thailand	1/1/2022 CRV OG/11 (CRV OG/9) CRV OG12 (in CRV OG11)	close	Modified in CRV OG12 Propose to close
7-7	Australia and PCCWG	High level concept for inter-regional MPLS/IP cc	21-Apr-20	close	

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Reference	Who	What	Due date	Status	Completed on
7-8	PCCWG & Australia, Fiji	Charging structure for an ANSP service provider on surveillance	20-Mar	close	
7-9	ICAO RO, Australia and USA	State letter to States to remind joining CRV	Mar-20	close	
8-1	Co chairs, ICAO RO, USA, PCCW	CRV webinar	20-Jul-21	close	20-Jul-21
8-2	ICAO RO, USA, HKCAD	Timeframe for CRV supporting SWIM	Jan-22	close	
8-3	Bhutan, Hong Kong China, Singapore, India, Thailand, USA, Co-chairs, ICAO RO, concerned parties	Use CRV to support AMHS traffic for Bhutan	6/21/2021 June 2022 (CRV OG/9)	close	
8-4	ICAO RO, PCCW, co- chairs	State Letter to inform States about the additional charges may apply to new users with billing start date later than 31 December 2022.	Jan-22	close	SL Ref.: T 8/2.10 – AP007/22(CNS) dated 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

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Reference	Who	What	Due date	Status	Completed on
8-5	Co-Chairs, ICAO RO, Singapore, USA	Continue the feasibility study on inter-regional connection to support business case analysis	1/1/2022 CRV OG/11 (in CRV OG/9)  CRV OG12 (in CRV OG/11)	on going	Ongoing. Technical Proposal finalized in CRV OG8 meeting was NA due to takeover of Lumen by Cirion Technologies
8-6	Fiji, PCCW	submit a paper to ACSICG/8	21-Jun-21	close	<b>Done in ACSICG/8</b>
8-7	USA, co chairs, PCCW, ICAO RO, concerned parties ( ad hoc)	Cyber threats protection for CRV	Jan-22	close	<b>Need to review this action item in CRV OG/11</b>  <b>CRV OG11: Closed it now and Reopene once concret information from ICAO is available.</b>
9-1	All member States	The Member States would take some time to take reference of the ATN/AHMS Guidance Tree to review it and to provide the suggestion for modification in the ATN/AHMS Guidance Tree along with locating the position to add different CRV reference documentation.	CRV OG/11	on going	
9-2	ICAO Secretariat	ICAO Implementation Plan will be continued to upload on ICAO APAC e-documents portal. However, the information contained under Table-1, Table-2 and Appendix A and B would not be provided on the public portal. Under Table-1, Table-2 and Appendix A and B, a message would be added to refer to ICAO APAC CRV Secure portal or CRV Portal hosted by New Zealand to get required information along with the instructions needed	Jan-22	close	
9-3	Fiji, India, Japan, Singapore, New Zealand, USA, ICAO Secretariat, and PCCWG	<b>ICAO CRV Steering Group</b> comprised of Fiji, India, Japan, Singapore, New Zealand, USA, and ICAO Secretariat would devise the terms and conditions for addition of new services, for upgrade/downgrade of packages along with addition of new sites by contracted states into their contract	CRV OG/10  CRV OG/11	close	<b>New T&amp;C was adopted in CRV OG11</b>
9-4	ICAO Secretariat	ICAO APAC Office would send a State Letter to APAC Member States, who have not joined/not process to share their intention to join CRV and when they intend to do so.	Feb-22	close	
9-5	Fiji, India, Japan, Singapore, New Zealand, USA, ICAO Secretariat, and PCCWG	<b>ICAO CRV Steering Group</b> will discuss and finalise the requirements of current CRV contract extension based on feedback received from Member States who would join CRV in next few years	Mar-22	close	
9-6	PCCWG	PCCWG is considering the current situation and will provide an official response if there is any contractual and commercial impacts for member states who sign the contract in 2022 but the installation date exceeds the standard lead time in 4 weeks to Sri Lanka, CRV OG Chairs, and ICAO Secretariat.	Feb-22	close	
9-7	ICAO Secretariat	In resposne to WP/18, ICAO Secretariat would present a paper to SWIM TF on behalf of CRV OG to informed about the relevant discussion in CRV OG.	May-22	close	<b>SWIM TF/6</b>
9-8	CRV ad-hoc expert Strategy and Design group	CRV ad-hoc expert Strategy and Design group would join SWIM TF meetings to note important discussions related to CRV and to inform CRV OG about the relevant outcomes	CRV OG/11	close	<b>Add it into next ad-hoc expert group meeting on 10 March 2022</b>

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Reference	Who	What	Due date	Status	Completed on
9-9	CRV OG Chairs, ACSICG Chairs, SURSG Chairs, PCCWG, India, Singapore, and ICAO Secretariat.	A specialised meeting would be organised to discuss and devise a method for non-aviation service provider's joining process to CRV.  WP/17 by PCCWG for Non-aviation providers joining CRV should be also considered to discuss in the specialised meeting, which was supported by Singapore.	CRV OG/11	close	Final terms and definitions were adopted in CRV OG11
9-10	APAC Member States	The meeting requested Member States to provide examples of activities under different categories provided in scope of supporting CRV Network as described in section 10.5 of draft report and scope of work defined in revised MSA	CRV OG/11	close	WP/14 presented by New Zealand in CRV OG11
9-11	New Zealand	Prepare the Terms of Reference (ToR) of Security and safety assessment of CRV	CRV OG/11	close	Replaced by AI 11-8
11-1	CRV OG Chairs, ACSICG Chairs, Australia, Japan, Jordan, Fiji, India, Hong Kong China, New Zealand, Singapore, Thailand, USA and ICAO Secretariat.	ICAO Secretariat will do necessary coordination with volunteered Member States for organising the CRV OG Ad-hoc Governance Group Meeting from 22-23 May 2023 and drafting the ToR	ACSICG/10	close	22-23 May 2023 CRV OG Ad-hoc Governance Group organised  Propose to close
11-2	ICAO Secretariat, Co-Chair (Asia)	The latest version of CRV OG Operational Manual will be published on ICAO APAC e-docs under CNS, ICAO APAC CRV Secure portal, and on CRV portal hosted by Airways New Zealand	Feb-23	close	2/24/2023 Propose to close
11-3	CRV OG Ad-hoc Expert Group	Nepal suggested to incorporate relevant guidance in the form of Process and Procedures into the CRV OG OM clarifying that Member States can request support of ICAO Secretariat and CRV OG for dispute resolution matters or other significant issues if arises. CRV OG Ad-hoc Expert Group will discuss the possibility of adding such provision and draft relevant clauses to add in CRV OG OM.	CRV OG/12 CRV OG/13	close	SOP was adopted by CRV OG/13
11-4	ICAO Secretariat, Co-Chair (Asia)	The latest version of CRV OG Implementation Plan without restricted information will be published on ICAO APAC e-docs under CNS Section. The latest version of CRV OG Implementation Plan will be uploaded on the ICAO CRV Secure portal, and CRV portal hosted by Airways New Zealand	Feb-23	close	2/24/2023 Propose to close
11-5	CRV OG Ad-hoc Expert Group	CRV OG Ad Hoc Expert Group will work on to modify relevant CRV documents and update the CRV OG Operations Manual to ensure that any changes within CRV consider modifications required to the ATN Documentation document tree	CRV OG/12 CRV OG/13	on going	
11-6	ICAO Secretariat	The ICAO Secretariat will take necessary action to update ATN Documentation Tree on the ICAO APAC Regional Implementation Projects webpage with the proposed first snapshot of the Tree that would be modified in future as more modifications would be made by ACSICG/CRV OG Meetings	CRV OG/12 CRV OG/13	close	
11-7	ACSICG Co-Chair, CRV OG Co-Chairs ICAO Secretariat	ATN Routing and Telecommunication table should be updated and shared with ACSICG/10 for updates.	ACSICG/10	close	Done, Propose to close
11-8	CRV OG Co-Chairs ICAO Secretariat	Modified table will be shared with APAC Member States for updates using New Zealand hosted CRV portal. The table will be updated by ACSICG/10.	ACSICG/10	close	Done, Propose to close
11-9	CRV OG Ad-hoc Expert Group	The Group will create ToR for security review of CRV for Option 2 and 5 presented in WP/14 in CRV OG11.	ACSICG/10	close	Done in ACSICG/8

Reference	Who	What	Due date	Status	Completed on
Seminar 12-1	SWIM TF, ICAO Secretariat	A dialogue about bandwidth requirements for SWIM services for CRV were initiated. Considering that the basic principle of information exchange in SWIM is publish/subscribe, the meeting requested that the ICAO Secretariat share information about any discussion planned in SWIM TF on developing a ruleset to guide or instruct users about information should be subscribed to so systems and networks are not overloaded or crashed by excessive subscription. ICAO Secretariat informed that such discussion is not being done in SWIM TF. ICAO Secretariat will share information with SWIM TF for further information/action required on this matter	CRV OG/13	Open	Not clear action item resulted from CRV PSIDS Seminar in Fiji. Propose to close.
12-1	PCCWG	PCCWG will provide quarterly bandwidth utilization reports to the CRV OG Ad-hoc expert group as a periodic update	CRV OG/13	on going	
12-2	CRV OG Ad-hoc Expert Group	The CRV OG Ad-hoc Expert group would review and present the revised Tree to the next CRV OG meeting for review and endorsement	CRV OG/13 CRV OG/15	Open	
12-3	ACSICG Co-Chair, ICAO Secretariat	The Meeting advised sharing the Tree with ACSICG for further review and modifications for AMHS and other relevant AFS sections	CRV OG/13 CRV OG/15	Open	
12-4	CRV OG Ad-hoc Expert Group, ICAO Secretariat	The CRV OG Ad-hoc Expert group develop the process for testing new SWIM services following the procedure mentioned in Appendix A to the CRV OG/12 report	CRV OG/13	Open	
12-5	CRV OG Ad-hoc Expert Group, ICAO Secretariat	The CRV OG Ad-hoc Expert group modify the process provided in Appendix B to incorporate various discussions and suggestions shared during the Meeting :  1. To assess the feasibility of a Service Provider / Service Consumer (SPSC) connecting to the CRV, the list of parameters provided in a(ii) of the process needs to be reviewed and amended to accommodate other potential required parameters. 2. A process and procedure to test a new service on the CRV network need to be drafted. 3. Further discussion is needed for the required class of SWIM services. 4. The feasibility of testing a new SWIM service first on the test GRE tunnel and after successful testing on the test GRE tunnel, its transfer over to the operational GRE tunnel needs further deliberations. 5. The number of GRE tunnels for each SWIM service may not be feasible. 6. Further discussion is required for IP assignments and their grouping. 7. Currently, in the System Design Document (SDD), the QoS of SWIM services is not mentioned, requiring further action.	CRV OG/13 CRV OG/15	Open	
12-6	ICAO Secretariat, CRV OG Co-chair (Asia)	The latest version of the CRV OG Operational Manual will be published on ICAO APAC e-docs under CNS, ICAO APAC CRV Secure portal, and on the CRV portal hosted by Airways New Zealand	CRV OG/13	close	Requested latest version from Vaughan on 31 Jan 2024 Uploaded on the portal on 5 Feb 2024  Propose to close
12-7	CRV OG Ad-hoc Expert Group, ICAO Secretariat	Singapore suggested modifying the local and national point of contact responsibilities mentioned in CRV Imp Plan to accommodate the new CRV user's definition. Accordingly, the CRV Implementation plan may need further modifications to accommodate new CRV users definition. The Meeting requested that the CRV OG Ad-hoc Expert group incorporate this task into their agenda items	CRV OG/13	close	
12-8	ICAO Secretariat	ICAO Secretariat will share the information requested and templates of daily, weekly, annual tasks of CRV with all CRV National and local Points of contact along with CRV OG/12 participants before 2 February 2024	2-Feb-24	close	Sent email on 31 Jan. Last date to submit response: 29 Feb 2024 15 responses received.

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Reference	Who	What	Due date	Status	Completed on
12-9	States/Administrations	All States/Administrations already utilizing CRV will submit the list of tasks in the requested template to the ICAO Secretariat before 31 March 2024	31-Mar-24	close	Reminder to sent on 1 March for extension date by 31 March 2024
12-10	ICAO Secretariat	ICAO Secretariat will share a doodle with all CRV OG Ad-hoc governance group experts to finalize the date for 24 April or 3 May 2024	2-Feb-24	close	Email sent on 29 Jan. Doodle due on 2 Feb Final date 3 May 2024 Propose to close
12-11	ICAO Secretariat	ICAO Secretariat will share the list of users having access to the CRV portal with all States/Administrations before 2 February 2024 for updates	2-Feb-24	close	Email sent on 31 Jan. Propose to close
12-12	States/Administrations	All States/Administration will share the updated list of a maximum of three users to get access to the portal before 29 February 2024	29-Feb-24	close	Reply awaited for 29 Feb Propose to close
12-19	States/Administrations	The first draft of the form will be sent to the Ad Hoc Expert Design Group before 31 January 2024 for comment and feedback (APX G)	31-Jan-24	close	Sent email on 31 Jan. Last date to submit response: 31 March 2024
12-20	SWIM TF, ICAO Secretariat	The ICAO Secretariat will share the draft form with the SWIM Task Force Task Leads for filling in the form and for comment and feedback.	1-Feb-24	close	Sent email on 31 Jan. Last date to submit response: 31 March 2024
12-21	CRV OG Ad-hoc Expert Group, ICAO Secretariat	CRV OG Ad-hoc Expert Group will review the duly filled form in the April 2024 Meeting	Apr-24	close	Meeting is on 24 April 2024
12-22	ICAO Secretariat	The ICAO Secretariat will share the exact date, venue, and detailed agenda information about the "CRV data requirements for SWIM Workshop" as soon as it is finalized	ASAP	close	Proposed date: 19 August week. Will be finalized in 7 March Meeting
12-23	ICAO Secretariat, Co-Chairs	CRV OG Co-Chair (Pacific) suggested sharing the Proof of Concept test document of CRV with SWIM TF to understand CRV's performance and capabilities by SWIM TF	1-Feb-24	close	Shared with SWIM TF on 6 Feb 2024
12-24	ICAO Secretariat, Co-Chairs, PCCWG	The Meeting requested that the ICAO Secretariat and PCCWG continue their efforts to reach relevant parties to progress the work on CRV-REDDIG II and CRV-New PENS interconnection	CRV OG/13	Open	
12-25	CRV OG	During the new CRV contract management process, CRV OG will incorporate the clause of interconnection with other regional networks into the contract document	CRV OG/13	close	
12-26	CRV OG Ad-hoc Expert Group, ICAO Secretariat	The CRV OG Ad-hoc Expert group prepare use cases for regional interconnection of CRV	CRV OG/13	Open	
12-27	CRV OG Ad-hoc Expert Group, ICAO Secretariat	Ad-hoc group continue to work to support and encourage MID states to work with PCCWG to join CRV, with the support of the ICAO APAC Secretariat and the ICAO MID office, to implement CRV in the MID region	CRV OG/13	close	Email sent to organise a day event with MID AMC STG/9 to MID office on 29 Jan
12-28	CRV OG	As the security assessment of CRV is essential and crucial for determining the security and trust of the APAC regional network, the Meeting agreed to incorporate this task in the new CRV contract management process	CRV OG/13	close	
13-1	Pakistan	Pakistan will coordinate with Oman focal points on communication matters and initiate discussion on implementing CRV in Oman and providing necessary support if required	CRV OG/15	Open	
13-2	ICAO Secretariat	China informed that it is planning for an AMHS connection with Kuwait and requested point of contact information on this matter. ICAO Secretariat will share information about the focal point from Kuwait with China	31-Mar-25	Open	March 2025 Propose to close

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Reference	Who	What	Due date	Status	Completed on
13-3	SWIM TF Task Leads, CRV OG Experts, ICAO Secretariat	The proposed options in SIPG WS/1 have flaws as there are misunderstandings about how SWIM EMS will be connected over CRV and the internet. It was agreed that there is a need for further discussion among CRV and SWIM experts to clarify the shortcomings of proposed options and make SWIM experts understand the integration of SWIM with CRV. This matter will be further discussed in CRV OG Ad-hoc Experts and SWIM TF Task Leads Online Meeting on 13 March 2025. If required, an in-person Meeting of SWIM and CRV experts will be arranged to finalize ICAO APAC SWIM architecture	CRV OG/15	Open	Clarified in March 2025 and SIPG WS/2 Meeting. Propose to close
13-4	ICAO Secretariat	CRV governance can be added to the agenda items of the CRV ad-hoc expert group. ICAO Secretariat will take necessary action to follow revised working arrangements	12-Jun-25	Open	done. Propose to close
13-5	ICAO Secretariat	4.13 In response to drafting the procedure for adding SWIM services over CRV, it was informed that the procedure could be defined once the APAC SWIM architecture is finalized and other details required for SWIM implementation are available. The ICAO Secretariat will share this information with SWIM experts	SWIM TF/10	Open	done. Propose to close
13-6	ICAO Secretariat	The ICAO Secretariat was requested to organize a Meeting with REDDIG network administration members to discuss and understand the current structure and governance model. The ICAO Secretariat will coordinate with the ICAO SAM Office to schedule an online Meeting in Q4 2025	Q4 2025	Open	sent email to Javier on 10 July Propose to close
13-7	States/Administrations	5.5 The Meeting realized the need to know the total amount APAC States/Administrations pay for CRV contracts. It was agreed that CRV users would share their monthly CRV contract price with the ICAO Secretariat. It was stated that the ICAO Secretariat will share the total price for the region in a future forum or discussion. No individual data shared by each State will be disclosed with other States/Administrations	CRV OG/15	Open	
13-23	Hong Kong China	Hong Kong China would work on deriving a formula based on analysis to compute the bandwidth required for surveillance data sharing and suggest it to the CRV OG Ad-hoc Expert Group to incorporate it into the CRV OG Operations Manual	CRV OG/15	Open	done. Propose to close
13-24	PCCWG	The Meeting suggested that PCCWG Global provide an analysis of various incidents in all APAC States/Administrations that have severely impacted SLA	Jun-25	Open	done. Propose to close
13-25	CRV OG Ad-hoc Expert Group	9.18 Regarding the suggestion to define a maintenance window at the sub-regional level in the APAC region, it was agreed that more deliberations are needed. The discussion will be added to the CRV OG Ad-hoc Expert group discussion	CRV OG/15	Open	
13-26	CRV OG Ad-hoc Expert Group	There is a need to understand various options for this implementation and recommend a path with the support of cloud service providers such as Microsoft, AWS, Azure, etc. It was agreed that New Zealand will facilitate this discussion with the cloud service provider to progress on this matter.	CRV OG/15	Open	

CRV OG/15  
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Reference	Who	What	Due date	Status	Completed on
13-27	Philippines	Aireon suggested that the Philippines initially draft the document based on their recent experience of contracting space-based ADS-B services over CRV. Aireon will provide further addition to the process, adding coordination required between Aireon and the CRV service provider. The Philippines will draft the procedure and present it at the next CRV OG Ad-hoc Expert Group Meeting, which is planned for 12 June 2025	CRV OG/15	Open	done Propose to close
13-28	CRV OG Experts, SWIM TF TLs, ICAO Sec	CRV OG will discuss with SWIM TF the expected timelines for the setup and future plans to keep SIPG for further extension or offer for Pseudo CRV	Jun-25	Open	done Propose to close
13-29	CRV OG Experts, ICAO Sec	11.6 In response to a question about the procedure mentioned in the CRV OG Operations Manual on how to utilize CRV residual bandwidth for testing, the CRV OG Co-Chair (Asia) informed that currently, there is no procedure mentioned. However, as per his view, the procedure should be that States first conduct risk assessment, share outcomes of risk assessment with respective peer states if it can affect peer States, and inform peer states in advance when conducting the testing. It was agreed that the procedure would be incorporated into the CRV OG Operations Manual after discussion in the CRV OG Ad-hoc Expert Group	CRV OG/15	Open	The procedure was drafted and shared in the CRV and SWIM joint workshop in September 2025. Procedure will be presented to CRV OG15 for further review and adoption
13-30	PCCWG	11.7 Japan shared a request with PCCW Global to prepare a document explaining the configuration of Pseudo CRV to make States understand this network along with the procedure to request connection to this network. It was agreed that this document would be beneficial for States. PCCW Global will draft the document and share it in the next CRV OG Ad-hoc Group meeting on 12 June 2025	12-Jun-25	Open	done. Propose to close
13-31	ICAO Secretariat	There is a need for additional contributory bodies to support APAC States for the imperfection of various provisions arising from these documents for various areas of CNS. It was requested that the ICAO Secretariat share this concern with the ACSICG/12 meeting for further discussion	CNS SG/29	Open	done. Propose to close
13-32	New Zealand	14.9 On the request of a meeting, New Zealand agreed to prepare a working paper to propose the need for dedicated contributory bodies to implement cybersecurity provisions arising from the Trust Framework Panel and Communication Panel for CNS SG/29 consideration. The meeting was informed that CNS SG/29 is planned for 16-20 June 2025	CNS SG/29	Open	done. Propose to close
13-33	France	France by WP/35 shared that the standardization is available in the ICAO Doc 9880 to provide a high level of security for AMHS, and a PKI deployment is a prerequisite to deploying AMHS security to meet the ICAO standards. The meeting appreciated France for such vital information and requested that this information be shared with the ACSICG/12 Meeting	ACSCIG/12	Open	
14-1	ICAO Secretariat	If the <b>Draft Conclusion CRV OG/14/01 - Decision of CRV II Contract Management Process</b> is adopted by APANPIRG/36, a State Letter will be issued by the ICAO APAC Office sharing the final agreement on the CRV II contract management process with all States/Administrations.	31-Dec-25	Open	Propose to close
14-2	ICAO Secretariat	The Meeting suggested that while sharing the State Letter about the final decision made by APANPIRG/36, a summary of the CRV II contract management process should be provided in an attachment to the State Letter, supporting the final decision made by APANPIRG/36.	31-Dec-25	Open	Propose to close
14-3	ICAO Secretariat	ICAO Secretariat will issue a response to all three CRV II RFI vendors through ICAO CDI using the UNGM portal about the decision of CRV OG/14 if APANPIRG/36 adopts the decision.	31-Dec-25	Open	Propose to close

CRV OG/15  
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Reference	Who	What	Due date	Status	Completed on
14-4	CRV OG Experts	The Meeting agreed that it is prudent to inform PCCWG separately about the decision made by CRV OG/14 for the extension of the current contract with variations, with improved technical, legal, commercial and financial requirements. CRV OG will issue a letter to PCCWG after all bidders have been informed of the decision.	CRV OG/15	Open	Propose to close
14-5	CRV OG Ad-hoc Expert Group	The CRV OG Ad-hoc Expert Group will be drafting baseline terms and conditions after the decision of contract extension is shared with APAC States/Administrations (if contract extension is agreed by APANPIRG/36).	ACSICG/13	Open	The decision was shared on 4 Dec 2025
14-6	the Ad-hoc Expert Group	the ACSICG/13 meeting planned for 20-24 April 2026, may be informed about the progress made for devising the baseline terms and conditions and propose a way forward by the Ad-hoc Expert Group.	ACSICG/13	Open	done. Propose to close
14-7	CRV OG Experts	Once baseline terms are agreed by CRV OG/15 and adopted by CNS SG/30, CRV OG can initiate contact with the CRV Service Provider, sharing information about the baseline terms for extended negotiation.	CRV OG/16	Open	
14-8	CRV OG Experts	it was agreed that CRV OG will finalize baseline terms and conditions in the CRV OG/16 meeting before 1 April 2027	CRV OG/16	Open	
14-9	CRV OG Experts	The baseline terms and conditions will be presented to the ACSICG/14 and CNS SG/31 Meetings for their adoption	CNS SG/31	Open	
14-10	ICAO Secretariat	ICAO will issue a State Letter sharing the revised Terms and Conditions of the CRV II contract.	CNS SG/31	Open	
14-11	ICAO Secretariat	The ICAO Secretariat will share the proposed draft conclusion by email for CNS SG/29 endorsement as per the process discussed and established in the CNS SG/29 Meeting.	CNS SG/29	Open	11/4/2025 Propose to close
14-12	CRV OG Experts, ICAO Sec	The Meeting agreed on the suggestion to negotiate for an additional 2 years (along with 5-year extensions of the CRV contract) as an option to cover a transition period, based on future needs, for supporting the CRV III RFP process during the formulation of baseline terms and conditions for the CRV II Network. This will ensure the legal obligation of the CRV Service provider to provide services during the transition period after the CRV III RFP process, in case of need.		Open	
14-13	CRV OG Experts, ICAO Sec	The meeting agreed that the CRV III RFP process will be initiated with a lead time of 4-5 years so that the CRV III network is ready to take over the CRV II from 1 January 2034		Open	
14-14	CRV OG/14 delegates	It was agreed that CRV OG/14 delegates share their expected improvement in the CRV II network with the ICAO Secretariat by email before 20 January 2026.	20-Jan-26	Open	
14-15	CRV OG Ad-hoc Expert Group	The CRV OG Ad-hoc Expert Group will review all inputs in its next meeting on 27 January 2026.	27-Jan-26	Open	
14-16	CRV OG Ad-hoc Expert Group	The ad-hoc group will continue to work on draft baseline terms and conditions, which will be shared with all APAC States/Administrations by the middle of May 2026.	middle of May 2026	Open	
14-17	CRV OG Experts	CRV OG/15 will be planned in June 2026, which will endorse the baseline Terms and Conditions for the CRV II contract.	CRV OG/15		
14-18	the CRV OG Ad-hoc Expert Group	It was noted that in case of any issue with the current CRV Network, States/Administrations raised the ticket, after which action is initiated by PCCWG. The Meeting agreed that PCCWG should monitor the CRV network of all States/Administrations 24X7 and proactively respond to the faults/issues rather than waiting for States/Administrations to raise the ticket. The matter will be further investigated and discussed by the CRV OG Ad-hoc Expert Group.	27-Jan-26	Open	