



ICAO

*International Civil Aviation Organization***The Thirteenth Meeting of the Common aeRonautical
Virtual Private Network Operations Group (CRV OG/13)***Wellington, New Zealand, 5-8 March 2025*

Agenda Item 7: Review and update the APAC CRV Implementation Table and
Telecommunication Infrastructure Table

**REVIEW OF CRV INFORMATION IN TABLE CNS II-2 REQUIRED ATN
INFRASTRUCTURE ROUTING PLAN IN e-ANP VOL II**

(Presented by the Secretariat)

SUMMARY

This paper summarized the need for review and update to the **TABLE CNS II-2- REQUIRED ATN INFRASTRUCTURE ROUTING PLAN** specified in ICAO APAC e-ANP Vol II by APAC States/Administrations. The paper reminds States/Administrations to review the data affecting their administration and provide feedback to ICAO on the data's accuracy in the requisite format to update the relevant CNS requirements in all volumes of e-ANP.

1. INTRODUCTION

1.1 The ICAO Secretariat frequently shares the need to maintain up-to-date CNS requirements in ICAO APAC e-ANP and reminds States/Administrations to submit/update status to various fields of e-ANP as necessary in a timely manner in various ICAO CNS contributory bodies meetings.

1.2 The ICAO APAC e-ANP is published in **three volumes** and can be accessed at <http://www.icao.int/APAC/Pages/APAC-eANP.aspx>. *Appendix A - Procedure for the amendment (PfA) of Regional Air Navigation Plans* of e-ANP Vol I shares detailed procedures to update all volumes of e-ANP. The Procedure for amendment (PfA) forms can be accessed at the ICAO APAC Webpage at [this link](#).

1.3 This paper shares concerns about outdated information provided in e-ANP Vol II related to aeronautical communication infrastructure and requests states to update them following the PfA procedure.

2. DISCUSSION

2.1 As informed earlier, e-ANP is published in three volumes per the globally agreed procedure in all regions.

e-ANP Volume I

2.2 *e-ANP Volume I Part III CNS* constitutes the agreed regional requirements considered the minimum necessary for effective planning and implementation of CNS facilities and services in the Asia and Pacific Region and complements the provisions of ICAO SARPs related to CNS. It contains **stable plan elements** related to the assignment of responsibilities to States for the provision of CNS facilities and services within the ICAO Asia and Pacific Regions in accordance with Article 28 of the Convention on International Civil Aviation (Doc 7300) and mandatory requirements related to the CNS facilities and services to be implemented by States in accordance with regional air navigation agreements. The **amendments to e-ANP Volume I** necessitate **approval by the Council**.

e-ANP Volume II

2.3 *e-ANP Volume II Part III CNS* complements the provisions in ICAO SARPs and PANS related to CNS. It contains dynamic plan elements related to the assignment of responsibilities to States for the provision of CNS facilities and services within a specified area in accordance with Article 28 of the Convention on International Civil Aviation (Doc 7300) and the current to medium-term mandatory requirements related to CNS facilities and services to be implemented by States in accordance with regional air navigation agreements involving the APANPIRG. Such agreement indicates a commitment by the State(s) concerned to implement the specified requirement (s). The amendment of these elements **does not require approval by the Council**.

2.4 *e-ANP Volume II* contains the General Regional Requirements and Specific Regional Requirements related to CNS from Member States. As such, Member States are encouraged to review the information contained in the following tables in *e-ANP Volume II*:

General Regional Requirements

TABLE CNS II-1 AERONAUTICAL FIXED TELECOMMUNICATIONS NETWORK (AFTN) PLAN

TABLE CNS II-2 REQUIRED ATN INFRASTRUCTURE ROUTING PLAN

TABLE CNS II-3 ATS DIRECT SPEECH CIRCUITS PLAN

TABLE CNS II-4 HF NETWORK DESIGNATORS

Specific Regional Requirements

TABLE CNS II-APAC-1 ATS INTER-FACILITY DATA COMMUNICATION (AIDC) IMPLEMENTATION PLAN

TABLE CNS II-APAC-2 RADIO NAVIGATION AIDS

TABLE CNS II-APAC-3 SURVEILLANCE

e-ANP Volume III

2.5 *e-ANP Volume III* contains dynamic/flexible plan elements providing implementation planning guidance for air navigation systems and their modernization, taking into consideration emerging programs such as the ICAO Aviation System Block Upgrades (ASBUs) and associated technology roadmaps described in the Global Air Navigation Plan (GANP) (Doc 9750). The *e-ANP Volume III* would also include appropriate additional guidance, particularly with regard to implementation, to complement the material contained in the ANP Volumes I and II. The amendment of Volume III would not require approval by the Council (approval of Part II is under the responsibility of the relevant PIRG).

2.6 It should be noted that *e-ANP Volume III* should be used as a tool for monitoring and reporting the status of implementation of the elements planned through the use of tables/databases and/or references to online monitoring tools, as endorsed by APANPIRG. The status of implementation is updated regularly as endorsed by APANPIRG. Updating *e-ANP Vol III* by incorporating the latest requirements defined in Seamless ANS Plan V4.0 is in process.

NEED FOR UPDATE OF TABLE CNS II-2- REQUIRED ATN INFRASTRUCTURE ROUTING PLAN

2.7 ACSICG/10 held from 24-26 May 2023 noted that AMHS has been centric for telecommunication infrastructure before CRV was implemented. CRV allows direct connection over the Internet Protocol (IP) network without requiring an AMHS routing plan. As such, the current ATN infrastructure table developed for AMHS should be modified to reflect CRV infrastructure.

2.8 Discussion to change the template of **TABLE CNS II-2- REQUIRED ATN INFRASTRUCTURE ROUTING PLAN** was initiated in past CRV OG and ACSICG meetings. For better management and coordination, a draft version of the Telecommunication Infrastructure table was proposed by CRV OG/11, which was reviewed and adopted by the ACSICG/10 meeting. The CRV OG/11 and ACSICG/10 Meetings modified and posted the *Telecommunication infrastructure table* on the CRV OG website hosted by New Zealand for members to update. The ACSICG/10 Meeting suggested superseding *Table CNS II-2 — Required ATN Infrastructure Routing Plan* in the ANP Vol II part III with this new table, which was adopted by CNS SG/27 by **Conclusion CNS SG/27/02 (ACSICG/10/04) - Telecommunication Infrastructure Table**. It was agreed that CRV OG will be the task owner in maintaining the table in the future. The meeting also decided to **stop** updating **Table CNS II-1** and **II-2** in APAC e-ANP Volume II in the APAC region.

2.9 The adopted revised table was uploaded on the [New Zealand-hosted CRV portal](#). CRV focal points of States/Administrations were requested to update the table before 31 October 2023 using [this link](#) by ICAO APAC State Letter Ref.: T 8/2.15 –AP136/23(CNS) dated 20 September 2023. In addition, several reminders were shared with States to update the online table. With significant efforts, the table was updated by most APAC states/administrations.

2.10 Although the ACSICG/11 meeting agreed to stop updating Table CNS II-1 and II-2 in APAC e-ANP Volume II, this is not a standard practice. States/Administrations must update e-ANP all volumes in case of any changes following standard procedure. Therefore, the ICAO Secretariat coordinated with ICAO HQ to update the e-ANP Vol II Table CNS II-2 template so that information from the ATN Infrastructure Table can be populated into **TABLE CNS II-2- REQUIRED ATN INFRASTRUCTURE ROUTING PLAN** following PfA process.

2.11 However, the **TABLE CNS II-2- REQUIRED ATN INFRASTRUCTURE ROUTING PLAN** is **an agreed table for all regions**, therefore, a change in the template of the table requires coordination with all regional offices in consultation with HQ. It was observed that other regional offices, such as the CAR/SAM region, have incorporated their [regional IP networks](#) in the same table without changing the template. Therefore, ICAO HQ suggested consideration of the possibility of using the same template to incorporate CRV addition or adding another table under *Specific Regional Requirements*.

2.12 Adding another table, such as **Specific Regional Requirements TABLE CNS II-APAC-4**, will increase the workload of all APAC States to update two tables. The current information provided in **TABLE CNS II-2- REQUIRED ATN INFRASTRUCTURE ROUTING PLAN** is outdated and requires immediate updates.

2.13 However, if the meeting believes the strong need to update the template of **TABLE CNS II-2- REQUIRED ATN INFRASTRUCTURE ROUTING PLAN**, the list of rationale should be recorded in the meeting report to initiate coordination with other regions with justifications.

2.14 The meeting is requested to deliberate on three options and choose the appropriate one: 1) the need to change the template of **TABLE CNS II-2 of e-ANP Vol II** as per the agreed revised ATN Infrastructure Table, 2) add an additional table to incorporate CRV under specific regional requirements or 3) utilize the existing template of **TABLE CNS II-2 of e-ANP Vol II** to incorporate CRV at the

appropriate place. After discussion, the meeting is requested to urge states to verify and update the **TABLE CNS II-2- REQUIRED ATN INFRASTRUCTURE ROUTING PLAN** following the PfA process.

2.15 With the aforementioned, the following draft conclusion is proposed for meeting adoption:

Draft Conclusion CRV OG/13/xx- Update the TABLE CNS II-2- REQUIRED ATN INFRASTRUCTURE ROUTING PLAN			
What: The current TABLE CNS II-2- REQUIRED ATN INFRASTRUCTURE ROUTING PLAN of ICAO APAC e-ANP Vol II is outdated and requires immediate updates.		Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical	
Why: to update e-ANP Vol II		Follow-up: <input checked="" type="checkbox"/> Required from States	
When: 09 Feb 2025		Status: Draft to be adopted by Sub-group	
Who: <input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Other: ACSICG			

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information in this paper;
- b) deliberate on the proposed three options and discuss the way forward;
- c) urge States/Administrations to review and update details in the *TABLE CNS II-2- REQUIRED ATN INFRASTRUCTURE ROUTING PLAN of e-ANP Vol II*;
- d) approach ICAO APAC Office in case of any assistance in using the process; and
- e) discuss any matters as appropriate.
