



**INTERNATIONAL CIVIL AVIATION ORGANIZATION  
ASIA AND PACIFIC OFFICE**

**REPORT OF  
THE THIRD MEETING OF  
THE COMMON REGIONAL VPN TASK FORCE  
(CRV TF/3)**

**Bangkok, Thailand  
9 – 12 December 2014**

The views expressed in this Report should be taken as those of CRV TF/3 Meeting and not of the Organization. This Report will be provided for review by ACSICG/2, CNS SG/19 for further action.

**HISTORY OF THE MEETING**

Opening of the Meeting ..... i-3  
Attendance ..... i-3  
Officers and Secretariat..... i-3  
Organization, Working Arrangement, Language and Documentation ..... i-3

**REPORT ON AGENDA ITEMS**

**Session One**      Discussion on the Response to RFI by Communication Service Providers ..... 1

**Session Two**

Agenda Item 1:    Adoption of Agenda ..... 1  
Agenda Item 2:    Review of outcomes of relevant meetings..... 1  
Agenda Item 3:    MSA: progress of signing process, difficulties ..... 2  
Agenda Item 4:    RFI..... 2  
                            •    Debriefing of Session 1  
                            •    first evaluation and consolidation of replies  
                            •    Impact of RFI on Cost benefit analysis first iteration  
  
Agenda Item 5:    Discuss progress and difficulties for current period ..... 3  
                            •    CRV CONOP  
                            •    User requirements  
                            •    Safety Preliminary analysis  
  
Agenda Item 6:    Review action list and CRV Project Gantt chart ..... 4  
Agenda Item 7:    Prepare CRV Work Programme for next period (December 14 – June 15)..... 5  
                            •    Funding Preparation of Pioneer States  
                            •    TCB services  
                            •    TCB Requirement Reviews and Packaging  
                            •    TCB Publication of Sealed Tender  
  
Agenda Item 8:    Review risk table ..... 6  
Agenda Item 9:    OOG (Operations Oversight Group): continue developing organizational policies  
                            and procedures for ensuring an efficient management of the regional network..... 6  
Agenda item 10:    Next meeting and Webconferences ..... 7  
Agenda Item 11:    Any other business ..... 8

**List of Appendices**

Appendix A:    Updated CRV Project Gantt chart  
Appendix B:    CRV Document Tree  
Appendix C:    Updated Action Table  
Appendix D:    Updated Risk Table

**List of Attachments**

Attachment 1:    List of Participants  
Attachment 2:    List of Information and Working Papers

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**1. Opening of the Meeting**

1.1 The Third Meeting of the Common Regional Virtual Private Network (VPN) (CRV TF/3) of APANPIRG was held at ICAO APAC Regional Office in Bangkok, Thailand, from 9 to 12 December 2014. The meeting was jointly hosted by Aeronautical Radio of Thailand Ltd. (AEROTHAI) and ICAO Regional Office Bangkok.

1.2 On behalf of ICAO Regional Director, Mr. Li Peng, Regional Officer CNS extended warm welcome to all participants and expressed appreciation to Aerothai for jointly hosting the meeting and providing full support for arrangement for the meeting. Mr. Chonlawit Banphawattharak, Rapporteur for the Task Force recalled the achievements of the Task Force since the 1<sup>st</sup> meeting from December 2013 and highlighted the objective of the meeting.

**2. Attendance**

2.1 The meeting was attended by 38 participants from Australia, China, Hong Kong China, Macao China, Democratic People's Republic of Korea, Fiji Islands, India, Japan, Laos PDR, Malaysia, Myanmar, Philippines, Republic of Korea, Singapore, Thailand and USA. 19 industry representatives from Harris, Comsoft, StartHub, Telstra, KDDI, SITA and ARINC (Rockwell Collins) separately participated in the first Session of the meeting. The List of Participants is provided in **Attachment 1** to this Report.

**3. Officers and Secretariat**

3.1 Mr. Chonlawit Banphawattharak from Aerothai chaired the meeting.

3.2 Mr. Li Peng, Regional Officer CNS and Dr. Manjit S.S. Singh, Regional Officer Technical Co-operation, ICAO Asia and Pacific Regional Office acted as Secretaries of the meeting.

**4. Organization, working arrangement, language and documentation**

4.1 The CRV TF/3 met as a single body throughout four working days. The working language was English inclusive of all documentation and this Report. The List of papers is provided in **Attachment 2** to this Report.

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## **SESSION ONE**

1. The CRV Task Force meeting was divided into two sessions. The Session One was held on 9 - 10 December 2014 during which the Task Force reviewed and discussed the responses to the RFI presented by the following communication services providers:

- Harris Corporation
- Comsoft – SatelliteServices
- StarHub
- Telstra
- KDDI
- SITA
- ARINC (Rockwell Collins)

2. Questions and answers were addressed during individual presentation slots of 90 minutes. Clarifications were provided to the questions raised during the meeting. During this session, explanations from some service providers were also given to the list of queries distributed to the interested service provider on 5 December 2014.

## **SESSION TWO**

### **Agenda Item 1: Adoption of agenda**

1.1 The tentative agenda presented through WP/01 was adopted by the meeting.

### **Agenda Item 2: Review of outcomes of relevant meetings (WP/03)**

2.1 Under this Agenda Item, the meeting reviewed the outcome of APANPIRG/25 and APAC DGCA Conf/51 presented by the Secretariat. The meeting noted the actions taken by APANPIRG/25 meeting with respect to the proposed draft Conclusions and draft Decision developed by the CRV Task Force during its 1<sup>st</sup> and 2<sup>nd</sup> meetings. Four important outcomes from APANPIRG were highlighted as follows:

- TOR of CRV TF was adopted through APANPIRG Decision 25/32;
- The 1<sup>st</sup> iteration of the Cost Benefit Analysis was adopted through Conclusion 25/31;
- 1<sup>st</sup> version of the CRV operational concept was adopted through Conclusion 25/33; and
- Procedure on joining the first stage of CRV project – MSA was specified in Conclusion 25/34.

2.2 The meeting noted that the APAC DGCA Conf/51 meeting was informed about the progress of the CRV Project.

2.3 It was expected that CRV Stage 2 would start by the end of 2016. At that time, individual contracts would be concluded by States/Administrations or ANSPs directly with the selected communication service provider, based on common provisions resulting from the Stage 1 Sealed Tender process.

**Agenda Item 3: MSA progress of signing process, difficulties**

3.1 Under this agenda, the following presentations were made and discussed at the meeting: Before and during the APAC DGCA Conf/51, eight States/Administrations/Entities representing Australia, France, Hong Kong China, Japan, Macao China, Myanmar, Philippines and Singapore had already signed the APAC CRV Management Service Agreement (MSA) Stage 1. A MSA signing ceremony followed by a group photo session with representatives from eight (8) MSA signatory States, in the presence of the ICAO President and Secretary General, was held during the recent APAC DGCA Conf/51. Five (5) additional States, namely China, DPR Korea, Fiji Islands, India and Republic of Korea, took the opportunity to sign or hand over their signed MSAs to ICAO Regional Office during the third CRV Task Force Meeting in Bangkok from 9-12 December 2014.

**New ATS communication Network in China (IP/02)**

3.2 China informed the meeting that China was planning to build a nationwide communication network to provide critical data and voice communication services for ATS and other administrative applications to replace the existing telecommunication networks. The new network connecting more than 700 ATS facilities would be put into operation by the end of 2016. Considering the requirements of high quality and low latency for surveillance data and ATS voice, both TDM (Time-Division Multiplexing) and IP-based MPLS (Multi-Protocol Label Switching) technology will be employed over the new network infrastructure. To ensure the cyber security, the infrastructure for this network will be based on the SDH leased links and Civil Aviation Administration of China (CAAC) managed network, rather than using MPLS-VPN service from telecom service providers. China would like to share the experiences learnt from the project with other States/Administrations working on CRV implementation.

**Role of the Pioneer States**

3.3 The meeting reviewed the TOR of the CRV Task Force approved by APANPIRG/25 meeting.

3.4 The meeting further discussed the role of the Pioneer States of CRV project and agreed to delegate the task specified in the sub-paragraph d) of TOR of the CRV Task Force to the Pioneer States through following Decision:

**Decision 3/1 – Role of the Pioneer States**

That, the CRV Task Force agreed to ask Pioneer States of CRV Project to finalize the Request For Proposal (RFP) for the Common Regional VPN for APAC Region based on the development by the CRV Task Force, evaluate and select the best tender proposal.

**Agenda Item 4: Debriefing of Session 1 - first evaluation and consolidation of replies  
Impact of RFI on Cost benefit analysis first iteration**

4.1 Under this agenda, the meeting reviewed the initial analysis and assessment reports presented by the team leaders of Working Groups from Thailand, Singapore and Australia (WG/1 for Schedule 2,3,4; WG/02 for schedules 5 and 6 and WG/03 for Schedules 7,8 and 9) against schedules assigned for presentations on the responses to the RFI. The meeting agreed to keep the initial results of the review separately for further consideration while developing RFP.

### **Cost Benefit Analysis on Small Pacific Island States (WP/02)**

4.2 Fiji presented a paper highlighting the impact of the CRV RFI on CBA for the smaller Pacific Island States including Kiribati, Tuvalu, Vanuatu, Wallis & Futuna and New Caledonia.

4.2.1 Currently, communication between Nadi and the Tontouta ATC tower in New Caledonia is via a shared circuit (using GINCOR multiplexer) for both voice and AFTN data over an internet VPN link. Communication with Vanuatu, Kiribati, Tuvalu and Wallis & Futuna ATC towers are via voice and fax using PSTN. The AFTN data exchanged with Vanuatu is via the AFTN/AMHS gateway at Brisbane while with Wallis & Futuna is via New Caledonia AFTN using the same GINCOR multiplexer system. Satellite communication link is the only mean for international communication available on these islands.

4.2.2 The expected cost saving of 23% estimated by the CRV CBA 1<sup>st</sup> iteration is unlikely to achieve at these island States. To enable these Pacific Island States to get benefit from introduction of CRV, the potential service providers should consider some cost effective solutions for the Pacific Island States including:

- a) VPN over Internet for the non-critical applications. This would be the cheapest option subject to the secured internet gateway in place.
- b) VSAT Communication. The cost will be probably more than the VPN over Internet option but it will provide a more secure and high reliable communication for the current and future services.
- c) It was proposed to develop strategies as part of the CRV RFP where the benefit of the CRV is shared by all the member States. The following alternate solutions were proposed for consideration:
  - The federating hubs at Fiji, New Caledonia, New Zealand, USA and Australia as gateway for the island States linking CRV;
  - The existing point to point communications used by small island states may be integrated into CRV which should be explored further in the RFP process.

4.2.3 The meeting agreed to consider above concerns and proposals while developing the user requirements for RFP. For the VPN over the Internet option, the security concern will also be taken into account when developing the requirements. The concept of universal cost sharing would not be considered in the requirements, however the bi-lateral cost sharing concept may still apply.

### **Agenda Item 5: Discuss progress and difficulties for current period**

- **CRV CONOP**
- **User requirements**
- **Safety Preliminary analysis**

5.1 Japan agreed to take the lead to update the first iteration of Cost Benefit Analysis and present it through a working paper for review by the CRV Task Force meeting for review in May 2015. The Secretariat was requested to send a reminder to those States/Administrations who had not provided response to the survey on current aeronautical ground to ground communication cost to ICAO Regional

Office urging them to provide the required information not later than end of February 2015. Such information is critical to develop an accurate updated CBA. **(ACTION A3-1)**

5.2. Japan informed the meeting that in order to facilitate the progress of the assigned Task on the cost benefit analysis, there is a need to invite an experienced expert to assist as some restriction in place in Japan for JCAB staff to conduct such study.

5.3 USA (Joe) was requested to take the lead with three or four member Administrations from Australia (Robert), Fiji, India (Kapur) and Thailand to update the first version of the CRV CONOP through off-line review then review by a specific teleconference by end of February 2015 and present the new version through a working paper for consideration by the next CRV Task Force meeting scheduled for May 2015. **(ACTION A3-2)**

5.4 It was proposed that ICAO distributes the DOA through a State Letter seeking for comments from States/Administrations in March 2015 **(ACTION A3-3)**. Singapore was requested to lead the effort to send the first draft of the DOA to all the Pioneer Parties through ICAO by end of January 2015 with the target completion in March 2015. **(ACTION A3-4)**

5.5 It was anticipated that DOA would be approved by APANPIRG/26 in 2015. The appropriate time for States/Administrations to sign the DOA would be the date when States/Administration would have decided to join the Stage 2.

5.6 The meeting agreed that Australia (Terence Palmer) take a lead with support from Singapore, Thailand USA to develop the rules and policies (operational role and working methodology) of the OOG. **(ACTION A3-5)**

5.7 The statement of work and ICD will be part of the specification to be submitted to TCB. For statement of work based on the initial input from Australia (Robert), USA will take the lead with support by Thailand and Singapore **(ACTION A3-6)**. Similarly for ICD, USA will also take the lead based on the existing ICD document adopted by APANPIRG for AMHS for APAC Region. **(ACTION A3-7)**

5.8 Regarding the legal terms of contract, TCB is going to provide the ICAO general common Terms and Conditions to CRV TF participants.

5.9 Mr. Frederic was the lead for the safety preliminary analysis task and Mr. Chonlawit was the lead for the user requirement task. There is a need to progress the respective work through separate teleconferences on these specific topics.

#### **Agenda Item 6: Review action list and CRV Project Gantt chart**

6.1 The meeting reviewed the CRV Project Gantt chart which was updated by a post meeting coordination. The updated Gantt chart is provided in **Appendix A** to this Report.

6.2 The meeting discussed a Document Tree contributed by Australia (Robert) describing the End State Document Hierarchy and relationship between documents having been developed and those being develop or need to be developed. The draft Document Tree is provided in the **Appendix B** to this report for reference.

6.3 The action items Table agreed at the previous Task Force meeting will be updated to include the new items agreed during the meeting and placed at **Appendix C** to this report.

**Agenda Item 7: Prepare CRV Work Programme for next period (December 14 – June 15)**

- **Funding Preparation of Pioneer States**
- **TCB services**
- **TCB Requirement Reviews and Packaging**
- **TCB Publication of Sealed Tender**

7.1 The Secretariat introduced the general procedure of TCB for packaging and publication of sealed tender. The timeline for the proposed CRV project and the generic criteria for proposal assessment were also introduced.

**APAC CRV Project Stage 1 Funding Arrangements**

7.2 In the ICAO TCB MSA ANNEX 1 BUDGET, item 1 refers “Funds will be equally shared among the Civil Aviation Authorities and/or related ANSPs that have signed the MSA before or on 15 December 2014, and provided by them in advance of commencement of the project” and BUDGET Item 2 refers “The total estimated amount is of US\$ 109,300 as per **Appendix A**. This amount is the total estimated amount including administrative and technical support.” The meeting further discussed the issue and made the following Decision:

**Decision 3/2 – MSA Funding Arrangement**

Noting the following changing/progressive scenario where:

- a) Thirteen (13) Asia Pacific States/Administrations/Entities have signed the CRV project MSA to date (12 Dec 2014),
- b) Additional CRV Task Force member Administrations have expressed their intention in writing (before 15 Dec 2014) to join as a Pioneering Party by signing the MSA by the 31 December 2014, and
- c) There is a need to accommodate the request by some States who have already signed the MSA that they will need a Payment Request to be issued by ICAO as soon as possible so that they can meet the 31 January 2015 deadline for payment to ICAO.

It is therefore very difficult to calculate an equal share for the payment for the ICAO TCB costs based on the actual numbers of States/Administrations/Entities who have signed the MSA as originally planned. Accordingly it was decided by the APANPIRG CRV TF/3 meeting that:

- 1) ICAO will issue a standardized Payment Request for USD 10,000.00 to all Pioneering Parties who have signed the MSA before/by the original 15 Dec 2014 or the extended 31 Dec 2014 deadlines.

*Note 1: The deadline for transferring of the funds to ICAO as requested through the Payment Request remains as 31 January 2015.*



*Note 2: States/Administrations/Entities should note that this initial amount of USD 10,000.00 is to be drawn from the provisional budget of USD20,000.00 that CRV Pioneer Parties are expected to plan for and maintain internally for the duration of the APAC CRV project (Stage 1) as recommended by Conclusion APANPIRG 25/34.*

- 2) ICAO will seek approval from the Pioneering Parties and issue appropriate additional payment requests if the individual share for the parties were to increase because of non-payment by a defaulting Pioneer Party or for any additional expenditure over the original estimated TCB services cost of USD 109,300 and;
- 3) Any balance funds remaining with ICAO at the end of Stage 1 will be reimbursed accordingly to the Pioneering Parties or used for to cover unexpected events and/or future needs, under the control of the participating parties.

#### **Agenda Item 8: Review Risk Table**

8.1 The meeting reviewed the risk Table developed at previous CRV Task Force meetings. The meeting agreed to remove the identified risk on lacking of MSA participating States/Administrations from the risk Table. The meeting identified several additional risk items for inclusion into the risk table. The updated Risk Table is provided in **Appendix D** to this Report.

#### **Agenda Item 9: OOG (Operations Oversight Group): continue developing organizational policies and procedures for ensuring an efficient management of the regional network**

9.1 The meeting briefly discussed about CRV operations (Stage 2) which would start by the end of 2016 as earliest. At that time, individual contracts would be concluded by States/Administrations or ANSPs directly with the selected communication service provider, based on common provisions resulting from the Stage 1 Sealed Tender process. All parties (pioneers and new parties) will have to sign the Document of Agreement (DOA) (a multinational agreement) and comply with the common provisions of the procurement before initiating an individual contract with the selected Communication Service Provider. An Oversight Operations Group (OOG) to be established is envisaged to oversee the performance of the selected provider.

9.2 To operate the CRV service which is a multinational service as per ICAO Doc 9673 and establish the OOG, a draft DOA has to be prepared agreed early next year for consideration by APANPIRG/26 meeting through ACSICG and CNS SG of APANPIRG. Initial considerations for the OOGs role, responsibilities were discussed. Different understanding and perspective were expressed. This concept should also be included in the CONOP. The initial thought on the report process were reviewed. This concept needs to be further agreed one and finally defined along with an implementation plan being developed by the CRV Task Force.

9.3 There have been some valuable lessons learnt from CRV project stage 1 particularly during the process of finalizing the Management Service Agreement leading to its signature. The formal consultation with States/Administrations in June/July 2014 by ICAO plus a second consultation process iteration from August 2014 using CRV Task Force participants as internal coordinators indicated that while it was transparent, it was not efficient enough. To improve the process, it is proposed **that States/Administrations include/nominate in addition to their technical expert a focal point coordinator from the legal department of the signing entity to participate in the drafting of the**

**Stage 2 Document of Agreement by the CRV Task Force.** This would facilitate an efficient establishment and signing of the Document of Agreement for CRV operations in the near future.

9.4 This DOA would pursue 2 objectives:

- Empower and rule the Oversight Operations Group (OOG); and
- Establish the common provisions resulting from the Sealed Tender Process as the contractual foundation for the procurement of CRV services by any stakeholder.

#### **Agenda item 10: Next meeting and webconferences**

10.1 USA reconfirmed its offer to host CRV TF/4 meeting in conjunction with ACSICG/2 scheduled for 18 - 22 May 2015 in Honolulu, USA. Secretariat was requested to coordinate with the Host State and issue the letter of invitation in early 2015 in order for nominated participants to get visa in time.

10.2 In order to progress the action items agreed by the meeting and review the status of tasks progressed by sub working groups, the meeting planned have a number of teleconferences, first of which would be in January 2015 (23:00 UTC, 15 January 2015) and then in February and March 2015. The Secretariat will coordinate with the members of the Task Force for the concrete dates and venue.

10.3 The meeting also considered necessary for the Pioneer States to have their first meeting in concurrence with the CNS SG/19 meeting to finalize the tendering package with comments provided by TC Expert of ICAO TCB.

10.4 After the meeting, dates are proposed as follows and will be coordinated with the CRV program participants:

#### **Webconferences (until April 2015):**

- |   |             |
|---|-------------|
| • Users requirements and Sealed Tender #4   | 14 January  |
| • Safety analysis #3  | 21 January  |
| • Progress meeting - Review of payments, decision on list of Pioneer States, update CBA | 03 February |
| • DOA #1  | 05 February |
| • Users requirements and ST #5  | 20 March    |

#### **Face to face meetings**

- |  |                         |
|--|-------------------------|
| • CRV TF/4 & ACSICG/2  | Honolulu, 18 - 22 May   |
| • CRV Pioneer States meeting – Finalization of tendering package | CNS SG/19               |
| • CRV TF/5   | Bangkok, 08-11 December |

**Agenda Item 11: Any other business**

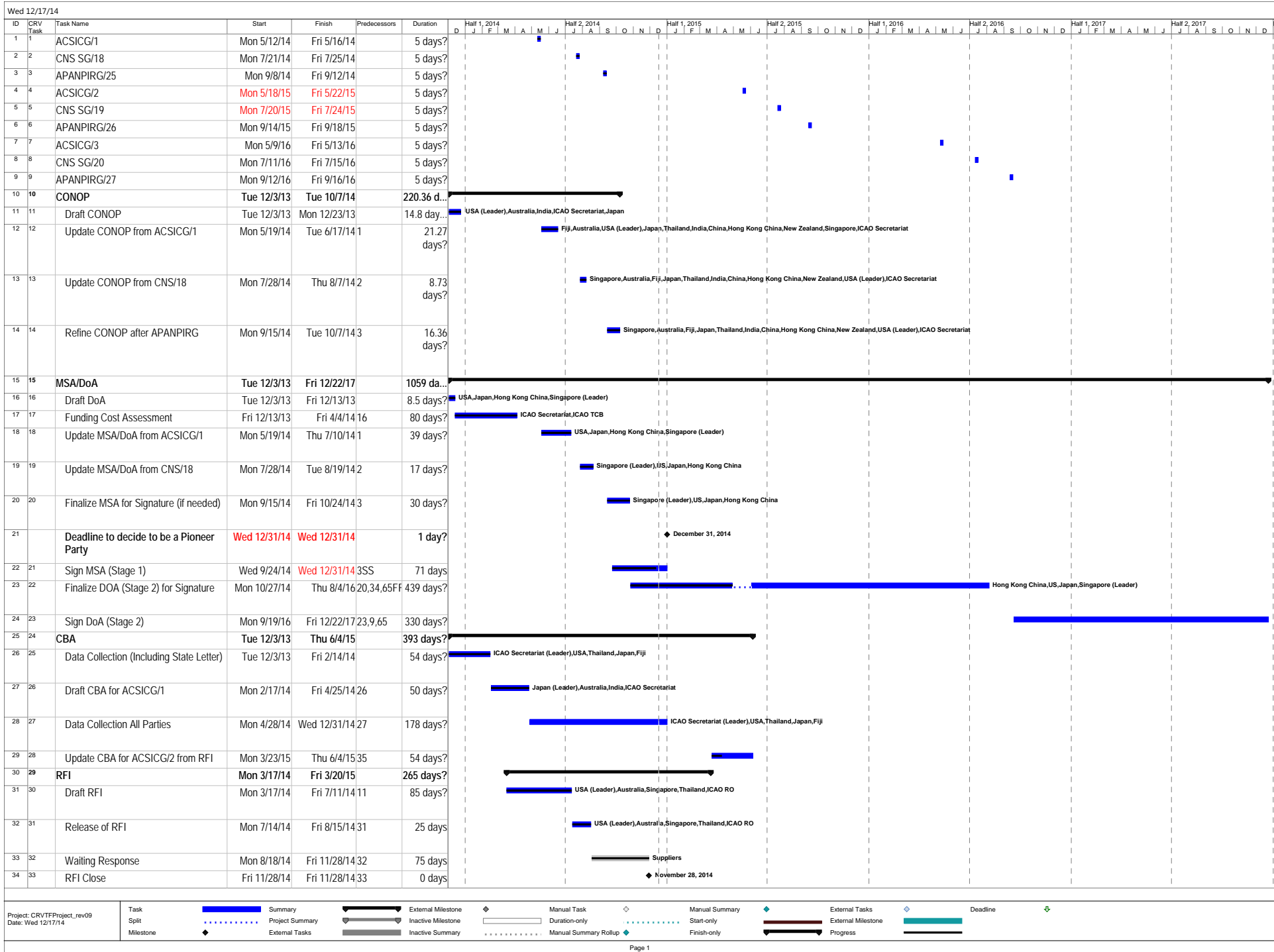
11.1 No other issue was raised under this agenda.

11.2 The meeting thanked Aeronautical Radio of Thailand for jointly hosting the meeting and for the good support and excellent arrangements made for the meeting.

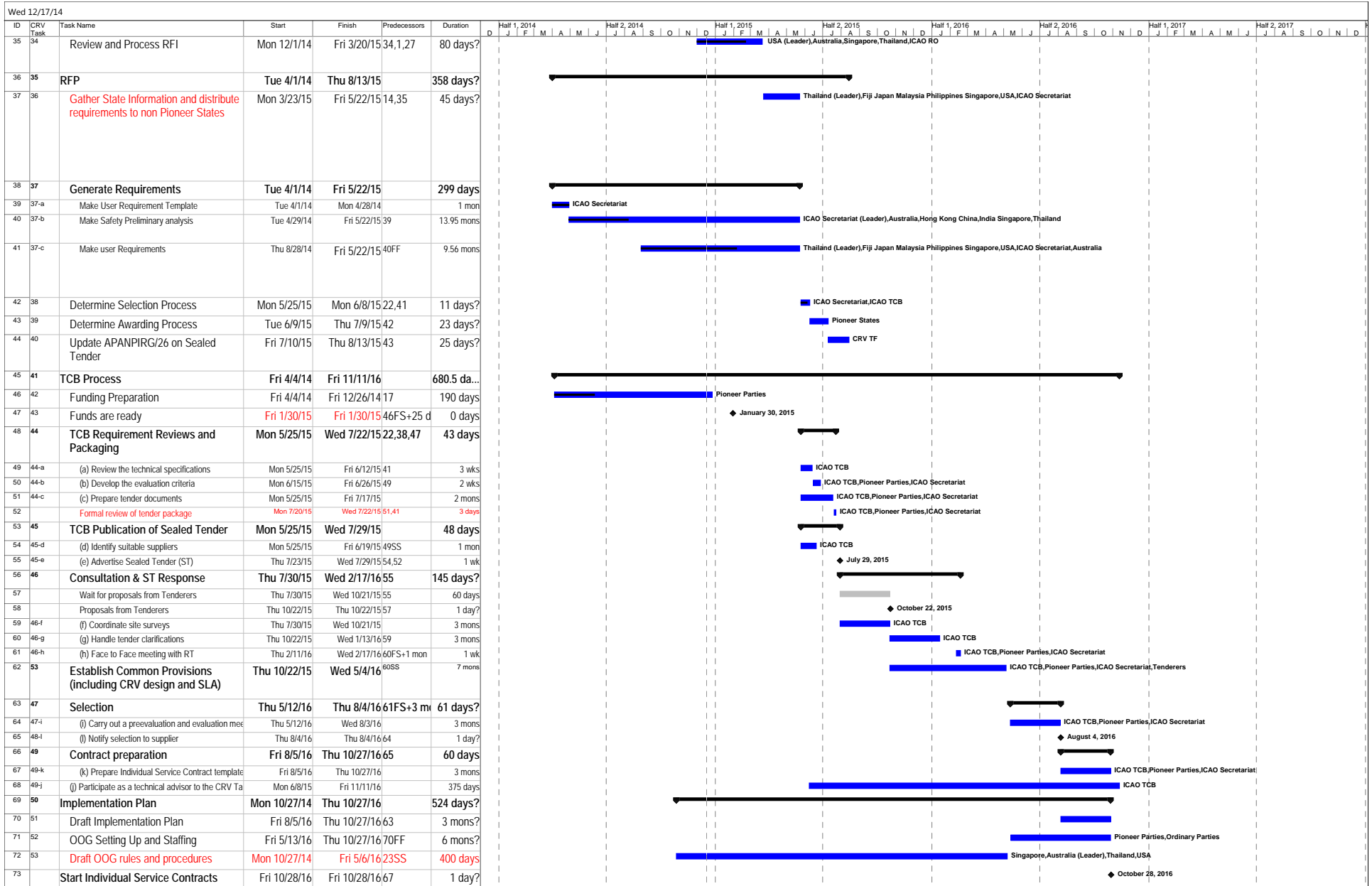
11.3 The meeting also expressed appreciations to all the Industry representatives for their active response, participation and presentations on RFI.

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CRV TF/3  
Appendix A to the Report



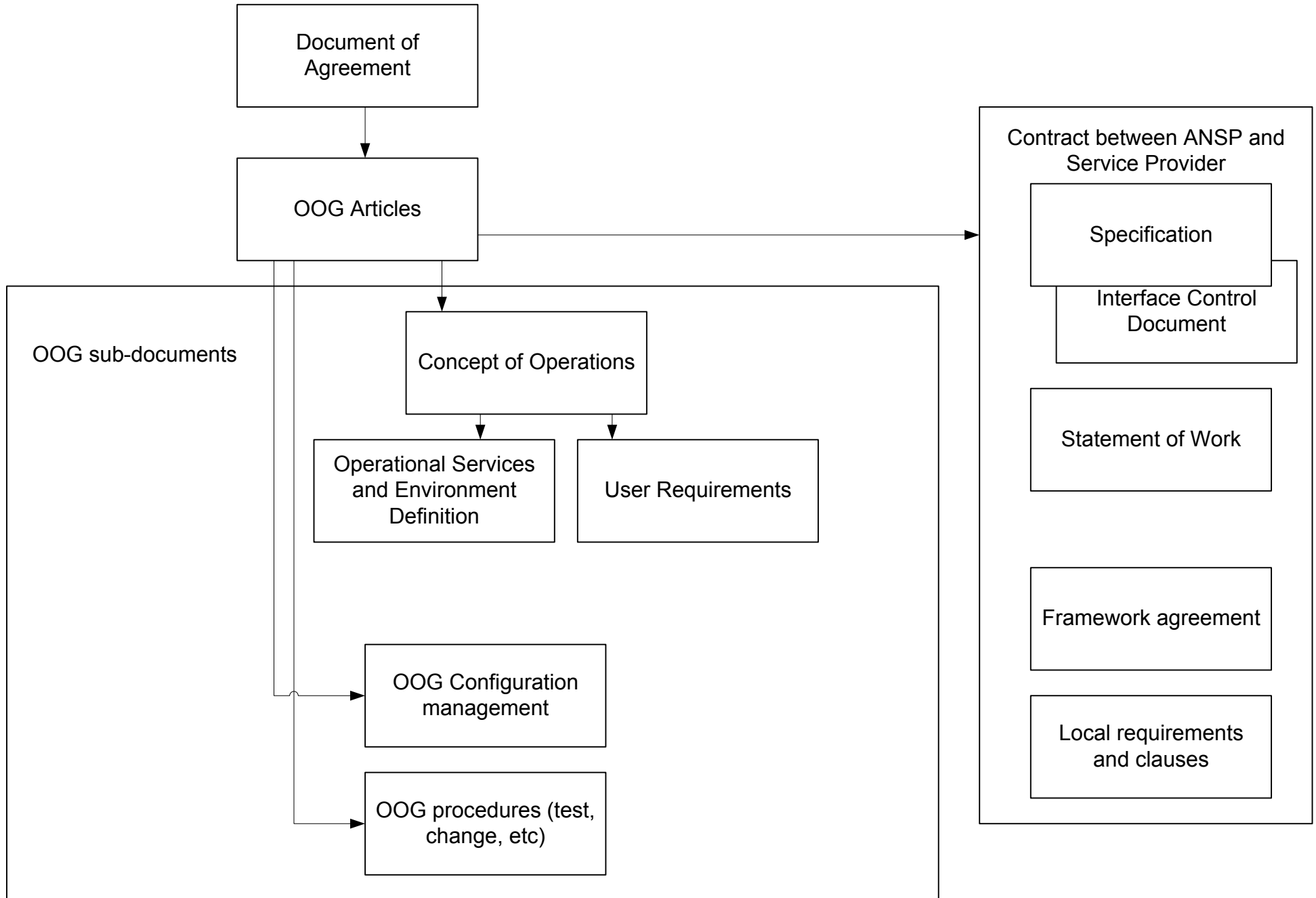
# CRV TF/3 Appendix A to the Report



Project: CRVTFProject_rev09 Date: Wed 12/17/14	Task	Summary	External Milestone	Manual Task	Manual Summary	External Tasks	Deadline
Split	Project Summary	Inactive Milestone	Duration-only	Start-only	External Milestone		
Milestone	External Tasks	Inactive Summary	Manual Summary Rollup	Finish-only	Progress		

# End State Document Hierarchy

Note: Documentation tree is the proposed view for 2018+



CRV TF/3  
Appendix C to the Report

Reference	Who	What	Due date	Status	Completed on	Result	Comment
A1-1	Chonlawit Banphawattharak	to appoint a leader for CONOP section 3	30/01/14	Closed	18/02/14	Hoang Tran takes care of section 3	
A1-2	all	to provide comments on draft DoA to Mohammad Zaki Bin Ariffin	07/03/14	Closed	06/03/14	Version v1r2 with comments on v1r1 was provided to the meeting	
A1-3	all	to provide comments on planning rev03 to Chonlawit Banphawattharak	12/03/14	Closed	12/03/14	Planning rev03 is validated	
R1-1	Chonlawit Banphawattharak	Plan a supplementary meeting end of 2014 between concerned States to endorse and sign the MSA	30/09/14	Closed			Only if Risk R1 likelihood changes to « certain » Risk closed during CRV TF/3 - did not occur
A1-4	Frederic Lecat	to coordinate with Manjit Sigh (ICAO TCB) to start the cost assessment of RFP process	30/01/14	Closed	06/03/14	Document "CRV Task Force - Task DoA_Agenda Item 5_7Mar2014_Input by Manjit" was delivered to the meeting on 06/03/14	
A1-5	Frederic Lecat	to develop a view of the signing process	12/5/2014	Closed	7/4/2014	Email [CRV] Meeting on draft DOA #2 - inputs Document "DOA meeting 08 Apr 14 - inputs from ICAO"	
A1-6	Mohammad Zaki Bin Ariffin	to refine the definitions of « service contract template (for an individual State) » and « framework service contract provisions with the telecommunication service provider »	9/4/2014	Frozen			To be taken care of by Task DOA or Task Users requirements
A1-7	all	all participants to review the proposal CRV Task Force - Task DoA_Agenda Item 5_7Mar2014_Input by Manjit and select the tasks needed from TCB	9/4/2014	Closed	9-Apr-14	Updated DoA 1 5	
A1-8	Chonlawit Banphawattharak/Manjit Singh	to share and consolidate CRV planning (CRVTFProject_rev03) with TCB	9/4/2014	Closed	9-Apr-14	CRVTFProject_rev06	
A1-9	Frederic Lecat	ICAO to send a. Management Service Agreement (MSA) template	07/03/14	Closed	10/3/2014	Sent out as Attachment D to the SOD of 07/03 Meeting	
A1-10	Manjit Singh/Pablo Lopez	To provide the total capped amount for Sealed Tender process	25/04/14	Closed			Capped amount concept not retained finally
A1-11	Mohammad Zaki Bin Ariffin	Task leader to send an updated version of DOA	28/03/14	Closed	4/4/2014	DOA v1.3 sent out by email by F.Lecat	
A1-12	Frederic Lecat	To propose a template for user requirements	21/03/14	Closed	2/4/2014	Email [CRV] Information about Sealed Tender Process and User Requirements Process - CRV - proposed template for Sealed Tender user requirements.xlsx - CRV Project - Users' requirement Template - - How to sent out by F.Lecat	
A1-13	Joe Knecht	to improve CONOPS' section on security and circulate it to all participants, with deadline for comments 4/4/14	28/03/14	Closed	28/03/14	Document APAC CRV Con Ops V0 2	
A1-14	all	to send out comments to Joe Knecht about CONOPS	4/4/2014	Closed	2/4/2014	Document APAC CRV Con Ops V0 2 - FL	
A1-15	Chonlawit Banphawattharak	draft material including a list of topics/list of questions will be provided by Chonlawit to start the RFI document	20/05/14	Closed		RFI documents	Initial due date is 28/03/2014 Should be closed by the end of ACSICG/1 Target date of 20/05/2014
A2-1	all	to send out comments to Joe Knecht about CONOPS V0 3, end of section 2, and sections 3 and 4	21/4/14	Closed	21-Apr-14		
A2-2	Joe Knecht	to consolidate the CONOPS document and post it to ACSICG/1 meeting	30/4/14	Closed	9/5/2014	WP/08 USA for CRV TF/2	
A2-3	all	to send out comments to Mohammad Zaki Bin Ariffin about DOA v 1.5	21/4/14	Closed	21-Apr-14		
A2-4	Joe Knecht	CONOPS Task Leader to incorporate relevant information from WP/03 in the CONOPS and refer to OOG rules and policies document for OOG organisational matters	20/6/14	Closed		Delivered in 20 June 14 version	
A2-5	Mohammad Zaki Bin Ariffin	DOA Task Leader to enable both models of H24/7 support in DOA and refer to OOG rules and policies document for OOG organisational matters	30/1/2015	Open			To be taken care of by Task DOA and Sealed Tender - Inputs expected from RFI
A2-6	Chonlawit Banphawattharak, Joe Knecht	based on WP/03, develop initial set of OOG rules and policies document	16/1/15	Closed			Superseded by action 3-5
A2-7	Frederic Lecat	to send out a letter to APAC States/Administrations inviting for comments on MSA before 27 June 2014	27/6/14	Closed		Table of comments dated 01 Sep. 14	
A2-8	Hoang Tran	A Request for Information (RFI) for CRV be prepared and published on ICAO APAC website States/before August 2014 advertising the CRV project and requesting technical and commercial information to the Telecommunication Service Providers.		Closed		Publication of RFI documents on ICAO website	
A2-9	Frederic Lecat	Secretariat to seek experience and policies of PENS as to how to include additional network users in the network.	9/12/2014	Open			

CRV TF/3  
Appendix C to the Report

Reference	Who	What	Due date	Status	Completed on	Result	Comment
A2-10	Mohammad Zaki Bin Ariffin, Joe Knecht	to update DOA and CONOPS regarding the inclusion of additional network users in CRV such as airports, air operators etc.	18/9/2015	Open			
A2-11	Frederic Lecat	ICAO to coordinate the communication on CRV with CANSO and States/Administrations (due date: 30 May 14) and possibly provide a link to the RFI on the ICAO APAC RO website.	30/05/14	Closed	20/05/14	CANSO did not accept.	They consider indeed that the CANSO website is a global website and not specific to the APAC region. And that it may not be appropriate to use the CANSO global website for the purpose of exposing the APAC CRV to the CSPs
A2-12	Frederic Lecat	to produce a template for OSED	24/09/14	Closed			
A2-13	Joe Knecht	to produce a generic architecture for CRV (with stakeholders responsibility perimeters and interfaces)	30/10/14	Open			
A3-1	Frederic Lecat	send a reminder to those States/Administrations who had not provide response to the survey on current aeronautical ground to ground communication cost to ICAO Regional Office urging them to provide the required information no later than end of February 2015. Such information is critical to develop accurate updated CBA	19/12/14	Open			
A3-2	Joe Knecht	update the first version of the CRV CONOP through off-line review then review by a specific teleconference by end of February 2015 and present the new version through a working paper for consideration by the next CRV Task Force meeting scheduled for May 2015	28/02/15	Open			
A3-3	Mohammad Zaki Bin Ariffin	to send the first draft of the DOA to all the Pioneer Parties through ICAO by end of January 2015	30/01/15	Open			
A3-4	Frederic Lecat	ICAO distributes the DOA through a State Letter seeking for comments from States/Administrations in March 2015	30/03/15	Open			
A3-5	Terence Palmer	to develop the rules and policies (operational role and working methodology) of the OOG with support from Singapore, Thailand USA	30/06/15	Open			Use CRV TF/2 WP3 and slides on OOG operational concept
A3-6	Hoang Tran	Develop the statement of work based on the initial input from Australia (Robert) with support by Thailand and Singapore	30/04/15	Open			
A3-7	Hoang Tran	Develop the ICD based on the existing ICD document adopted by APANPIRG for AMHS for APAC Region	30/04/15	Open			



CRV TF/3  
Appendix D to the Report

	Raised	Probability	Severity	Hazard	Impact	Mitigation	Comment
R1	15-Jan-14	Likely	Severe	Draft DOA not endorsed by APANPIRG/26	Major delay generated for final delivery of CRV implementation (1 year).	R1-1	
R2	29-Apr-14	Remote	Severe	Many parties having signed the MSA but not able to pay their share to TCB by 31st January 2015.	Major delay generated for final delivery of CRV implementation (1 year).	No mitigation: it is accepted that TCB would not start the work at the expected date	Accept the delay as States would not cover the missing share(s)
R3	12-May-14	Remote	Severe	Too low number of Parties joining to fund the TCB procurement process	Project abandoned or major delay generated for final delivery of CRV implementation (1 year). (Procurement cannot be done with TCB support)	Way forward through draft conclusion/WP to APANPIRG/25	Closed during CRV TF/3 - did not occur
R4	12-Dec-14	Remote	Severe	Too low number of Parties signing the DoA after the sealed tender process has been completed.	The CRV cannot be established. Major delay to the CRV establishment.	States should encourage their neighbors to join the CRV. Specification should cover the states' requirements. The CBA should demonstrate positively to States that it is beneficial to join the CRV.	
R5	12-Dec-14	Likely	Moderate	Low participation from Pioneer Parties to the ICAO TCB Process.	Delays in the ICAO TCB process, thus delaying the whole CRV project.	ICAO urges representative of Pioneer Parties about their responsibility.	
R6	12-Dec-14	Remote	Severe	Poor response to the tender.	Proposals do not match requirements. CRV network could be costly to establish. Major delay due to re-tendering	Specification should be realistic and achievable for vendor. Feedback from RFI must be included	

**The Third Meeting of the Common Regional Virtual Private Network Task Force (VPN)  
of APANPIRG (CRV TF/3)  
(9 – 12 December, Bangkok, Thailand)**

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*International Civil Aviation Organization*

**THIRD MEETING OF THE COMMON REGIONAL VIRTUAL PRIVATE NETWORK TASK FORCE (VPN) OF APANPIRG (CRV TF/3)**

Bangkok, Thailand, 09 – 12 December 2014

**LIST OF WORKING AND INFORMATION PAPERS**

<b>WP/IP/ SP No.</b>	<b>Agenda</b>	<b>Subject</b>	<b>Presented by</b>
<b>WORKING PAPERS</b>			
WP/1	-	Provisional Agenda	Secretariat
WP/2	4	Impact of RFI on Cost Benefit Analysis on Small Pacific Island States	Fiji
WP/3	2	Outcome of the APANPIRG/25 and DGCA Conf/51 on the Common Regional Virtual Private Network (VPN) – CRV	Secretariat
<b>INFORMATION PAPERS</b>			
IP/1	-	Meeting Bulletin	Secretariat
IP/2	3	China join in Stage 1 of the CRV Project	China

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