



International Civil Aviation Organization

**EIGHTEENTH MEETING OF THE COMMUNICATIONS/NAVIGATION
AND SURVEILLANCE SUG-GROUP (CNS SG/18) OF APANPIRG**

Asia and Pacific Regional Sub-Office, Beijing, China
(21 – 25 July 2014)

Agenda Item 4: Aeronautical Fixed Service (AFS)

4.1) Review report of the First Meeting of the Aeronautical Communication Services Implementation Coordination Group (ACSICG/1) including development by CRV Task Force

**CRV TERMS OF REFERENCE
AND PROJECT PROGRESS**

(Presented by Secretariat)

SUMMARY

This paper presents the CRV Terms of Reference for endorsement by the meeting and reports on the project progress since its inception.

1. INTRODUCTION

1.1 The CRV project has started in December 2013 to study the Common Regional Network in APAC, and, as directed by APANPIRG, implement it.

1.2 Since then, the project has been working at a sustained pace, in accordance with the work programme, with all planned activities on track against CRVTFProject_rev08 Gantt chart.

2. DISCUSSION

Terms of Reference

2.1 The CRV TF first meeting reviewed and agreed to the proposed Terms of Reference (TOR) provided in **Attachment A**.

2.2 As result of discussion the meeting the proposed TOR as to this Report for consideration by APANPIRG through CNS SG.

2.3 The meeting also discussed the Work Programme for the near term by the end of 2015 which is included in the proposed TOR. The group also considered necessary to develop future Work Programme for work from 2015 as next step. The Work Programme based on the roadmap initially developed by the ATNICG Working Group in August 2013 was integrated into the Gantt Project which was agreed by the Meeting and provided in **Attachment B** to this paper.

2.4 Following tasks were active in the period since CRV/TF-1 in December 2013:

- Draft CONOP
- Draft DoA
- Update MSA
- Funding Cost Assessment
- Data Collection (Including State Letter)
- Draft CBA for ACSICG/1
- Draft RFI
- Make User Requirement Template
- Make Safety Preliminary analysis

Meetings

2.5 A number of meetings took place, with a steady participation and stability in participants:

Meeting	Date	Participants
CRV TF/1	02-04 Dec. 2013	33
Progress meeting #1 (teleconference)	15 Jan. 2014	16
Meeting on draft CONOPS#1	18 February 2014	5
Task DoA: Meeting on draft DOA	07 March 2014	20
Progress meeting #2	12 March 2014	19
Task CONOPS: Meeting on draft CONOPS #2	02 April 2014	19
Task DoA: Meeting on draft DOA #2	08 April 2014	17
Asia Pacific Common Regional VPN: meeting on procurement (CRV Chairman/ICAO/ICAO TCB)	09 April 2014	4
CRV Task Force - Task DoA: Meeting on draft DOA #3	29 April 2014	17
Coordination with TCB	06 May 2014	5
CRV TF/2	12 May 2014	31
Meeting on MSA	28 May 2014	15
Meeting on draft CONOPS#3	04 June 2014	N/A
Meeting on RFI	25 June 2014	12
Progress meeting #3 and preparation of CNS SG/18	09 July 2014	14
Future planned meetings		
<i>Users requirements #1</i>	<i>13 August 2014</i>	
<i>Progress meeting #4 and preparation of APANPIRG#25</i>	<i>03 September 2014</i>	
<i>Users requirements #2</i>	<i>07 October 2014</i>	
CRV TF/3 (1st day for RFI questions/replies)	<i>15-17 Dec. 2014</i>	

2.6 The meeting reports for CRV TF/1 and 2 are available here respectively:

<http://www.icao.int/APAC/Meetings/Pages/2013-CRV-TF1.aspx>
<http://www.icao.int/APAC/Meetings/Pages/2014-CRVTF2.aspx>

2.7 Other meeting reports are available on the CRV Portal.
<https://portal.icao.int/CRV/Pages/default.aspx>

Deliveries

2.8 Deliveries were done as planned, or are on track with the planning:

CRV Task	Task Name	Planned Delivery	Actual delivery
11	Draft CONOP	Fri 3/14/14	0.1 March 1, 2014 0.2 March 28, 2014 0.3 April 02, 2014 0.4 April 30, 2014 0.6 June 20, 2014
16	Draft DoA	Fri 1/17/14	V1.0 December 2013 V1.1 28 Feb 2014 V1.2 06 Mar 2014 V1.3 28 Mar 2014 V 1.4 08 Apr 2014 V 1.5 11 Apr 2014
17	Funding Cost Assessment	Fri 5/9/14	27 June 2014
18	Update MSA/DoA from ACSICG/1	Th 7/10/14	Distribution of MSA by ICAO letter 27 June 2014
25	Data Collection (Including State Letter)	Fri 2/14/14	05 March 2014 (13 States) 06 March 14 (14 States) 11 April 2014 (15 States)
26	Draft CBA for ACSICG/1	Fri 4/25/14	30 April 2014
30	Draft RFI	Fri 7/11/14	11 July 2014
37-a	Make User Requirement Template	Mon 4/28/14	02 April 2014
37-b	Preliminary Safety Analysis	Mon 3/30/15	In progress Draft SOW delivered 23 May 2014
38	Determine Selection Process	Tue 7/7/15	Done
42	Funding Preparation	Fri 12/26/14	In progress

Planning and progress

2.9 The general progress of CRV project is reflected in **Attachment B** to this paper.

Actions and risks

2.10 Actions and risks table is placed at **Attachment C** to this paper.

Portal

2.11 The CRV Portal (<https://portal.icao.int/CRV/Pages/default.aspx>) was created and is being maintained by Secretariat and CRV Chairman. It is dedicated to CAA and Air Navigation Providers. Nevertheless its use is not enough anchored in the group. All participants, and specifically task leaders, may post on it. As of 05 May 2014, 16 participants have subscribed.

2.12 The portal has advanced features such as online management of tasks, with automatic notification and alerting, or workflow management. The CRV project would benefit from such features and it would release the Secretariat work. Nevertheless, as long as all participants have not subscribed these features cannot be used.

Project participation

2.13 The CRV Project, and APAC region as a whole, would benefit from a high participation in its activities. CRV is a building block supporting Air Navigation Strategy. New participants are welcome.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information in this paper;
- b) endorse the following Draft Decision:

**Draft Decision X/X - Terms of Reference of the APAC aeronautical
Common Regional VPN Task Force (CRV TF)**

That, the Terms of Reference of the APAC aeronautical Common Regional
VPN Task Force (CRV TF) placed at **Attachment A** be adopted.

- c) discuss any relevant matter as appropriate.

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

TERMS OF REFERENCE

1. Background

The establishment of APANPIRG CRV TF was proposed by a number of States at the Eighth meeting of Aeronautical Communication Network Implementation Co-ordination Group (ATNICG) and the Twenty Fourth meeting of APANPIRG, as a dedicated task force to study regional virtual private network (VPN) and develop a detailed proposal by January 2016. The APANPIRG CRV TF was formally established in accordance to APANPIRG Decision (24/32) (Bangkok, Thailand, 24-26 June 2013).

2. Terms of Reference

In order to address the common VPN issues, the following activities are to be developed by the APANPIRG CRV TF:

- a) Develop and propose to the APANPIRG a multinational agreement proposing the organizational policies and procedures for managing the regional network including inter-regional coordination;
- b) Study and propose to the APANPIRG the concept of operation for common VPN for APAC Region including cost-benefit consideration;
- c) Develop the RFI to be distributed to interested service providers and analyze questions/information received from RFI;
- d) Develop the Request For Proposal (RFP) for common VPN for APAC Region and evaluate/select the best proposal; and
- e) Develop the procedures for commissioning common VPN for APAC Region.

2. Work Programme

See attachment.

3. Working Methods

- a) APANPIRG CRV TF Work Programme should present their activities in terms of objectives, responsibilities, deliverables and timelines;
- b) APANPIRG CRV TF will avoid duplication of work within the regional working group and maintain close coordination among the existing entities to optimize the use of available resources and experience;

- c) APANPIRG CRV TF may designate, as necessary, ad-hoc groups to work on specific topics and activities; all tasks and activities should be clearly defined by time and deliverables;
- d) APANPIRG CRV TF should co-ordinate and advance its works as follows to maximize efficiency and reduce costs: and
 - conduct work via electronic written correspondence;
 - conduct work via phone and teleconference calls; and
 - hold meetings when necessary and based on the Work Programme activities
- e) APANPIRG CRV TF will report the progress of assigned tasks to APANPIRG through ACSICG and CNS Sub Group of APANPIRG.

4. Membership

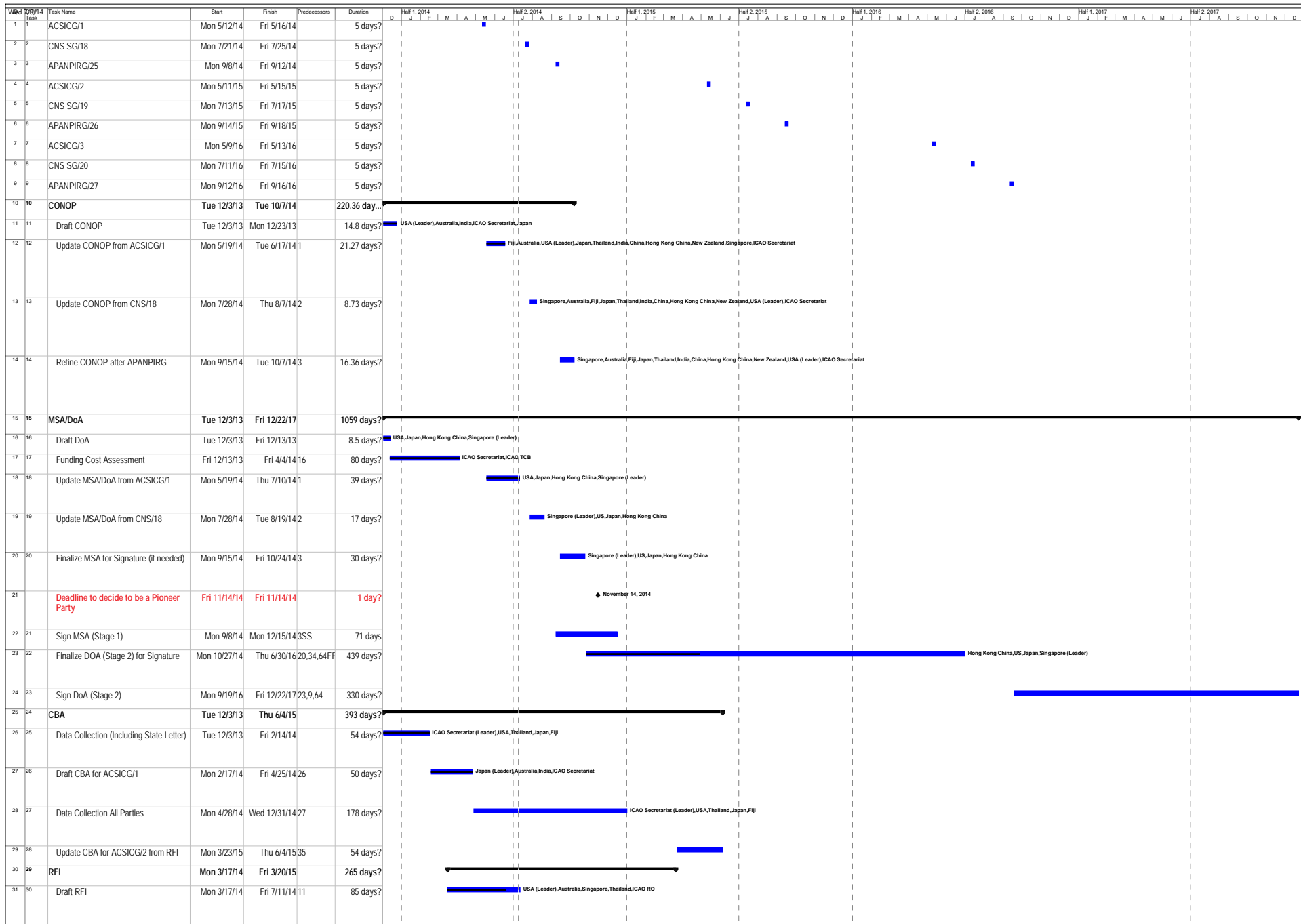
- APANPIRG CRV TF-1 experts: Australia, Bangladesh, Hong Kong China, Fiji, India, Japan, Malaysia, Myanmar, Singapore, Thailand, USA; and
- Those experts nominated by the other APAC States.

ICAO will act as Technical Adviser to the APANPIRG CRV TF.

5. Rapporteur

Mr. Chonlawit Banphawatthanarak from Aerothai

CNS SG/18 - WP/31 - Attachment B



Project: CRVTEProject_rev08_2007

Task Split

Milestone

Summary

Project Summary

External Milestone

Inactive Milestone

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

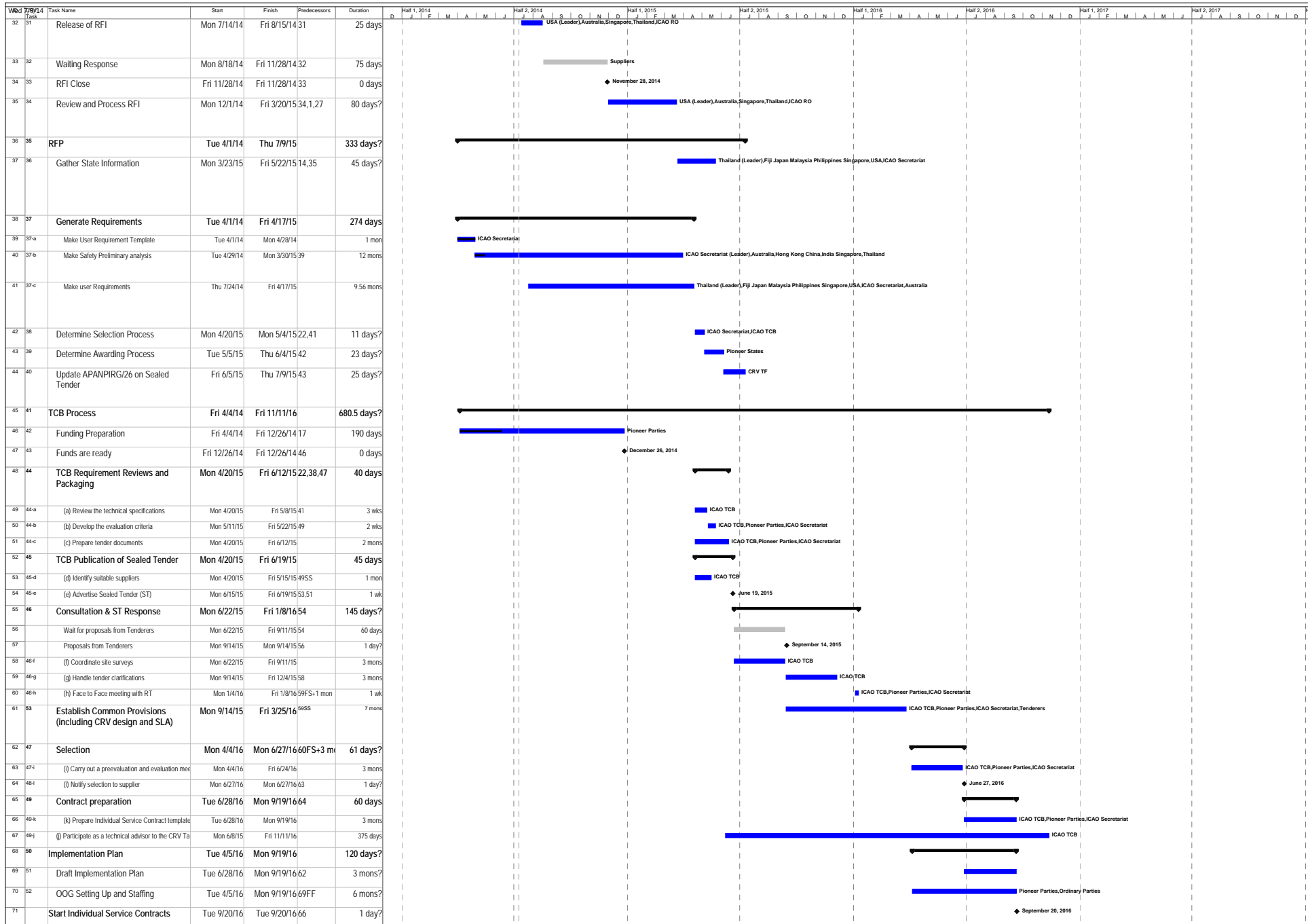
Finish-only

External Milestone

External Tasks

Progress

Deadline



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Attachment C

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	Open			Only if Risk R1 likelihood changes to « certain »
A1-4	Frederic Lecat	to coordinate with Manjit Singh (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	Open			
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	9/7/2014	The capped amount cannot be included in the MSA as it is not compliant with ICAO-TCB policies	
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	
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	Open			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	20/6/14	V0.6 of CONOPS	
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	5/12/2014	Open			
A2-6	Chonlawit Banphawattharak, Joe Knecht	based on WP/03, develop initial set of OOG rules and policies document	16/1/15	Open			
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	27/6/14	Distribution of APAC State letter Ref. I 8/2.11 & I 8/10.21:AP093/14 (CNS) - Common Regional Virtual Private Network (CRV) Procurement (Stage 1)	
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.	30/7/14	Open			
A2-9	Frederic Lecat	Secretariat to seek experience and policies of PENS as to how to include additional network users in the network.	5/9/2014	Open			

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Attachment C

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

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Attachment C

	Raised	Probability	Severity	Hazard	Impact	Mitigation	Comment
R1	15-Jan-14	Likely	Severe	Draft DOA not endorsed by APANPIRG/25	Major delay generated for final delivery of CRV implementation (1 year).	R1-1	
R2	29-Apr-14	Remote	Severe	Some parties having signed the DOA but not able to pay their share	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	