



ICAO

International Civil Aviation Organization

**Twelfth Meeting of the Air Traffic Management Sub-Group  
(ATM/SG/12) of APANPIRG**

Bangkok, Thailand, 23 – 27 September 2024

**Agenda Item 4: Air Navigation Service Deficiencies**

**ATM AND AIRSPACE SAFETY DEFICIENCIES LIST**

(Presented by the Secretariat)

**SUMMARY**

This paper presents a list of Air Navigation Deficiencies noted by the Thirty-Fourth Meeting of Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/34) in the Air Traffic Management (ATM) and Airspace Safety fields, supplemented by proposed Deficiencies identified since APANPIRG/34 for review by the meeting. The list is based on the uniform methodology for the identification, assessment and reporting of such deficiencies as described in Part V of the *APANPIRG Procedural Handbook*.

**1. INTRODUCTION**

1.1 Under the Terms of Reference of APANPIRG, one of its primary objectives is to identify and address specific deficiencies in the air navigation field. In meeting this objective, APANPIRG facilitates the development and implementation of action plans by States to resolve identified deficiencies, where necessary. Consequently, APANPIRG and its Sub-groups regularly review deficiencies in their respective fields and develop recommendations for remedial actions.

1.2 APANPIRG Air Navigation Services (ANS) deficiencies are identified in accordance with the *Uniform Methodology for the Identification, Assessment and Reporting of Air Navigation Deficiencies*, together with the related Asia/Pacific Supplement to the Uniform Methodology, as detailed in the APANPIRG Procedural Handbook.

1.3 The Twenty-First Meeting of APANPIRG (APANPIRG/21, September 2010) reviewed the updated list based on information provided by concerned States to ATM/AIS/SAR/SG/20 (July 2010, Singapore). The meeting urged States that had not taken firm corrective action to eliminate the deficiencies and adopted the following Conclusion.

***Conclusion APANPIRG21/ 53 – Elimination of ATM Air Navigation Deficiencies***

*That, States concerned*

*a) be urged to take urgent actions to correct the deficiencies in the ATM/AIS/SAR fields identified in Attachment A to the Report on Agenda Item 4;*

*b) notify details of the problems/difficulties to the Regional Office; and*

*c) designate a point of contact in each State to deal with deficiencies and provide details*

*to the Regional Office by 22 October 2010*

## **2. DISCUSSION**

### APANPIRG Air Navigation Deficiencies in the ATM and Airspace Safety Fields

2.1 The current List of APANPIRG Air Navigation Deficiencies in the ATM and Airspace Safety fields is at **Attachment A** to this paper.

### Aeronautical Information Management (AIM) Deficiencies

2.2 The following States have Deficiency recorded for non-implementation of World Geodetic System 1984 (WGS-84):

Afghanistan, Brunei Darussalam, Marshall Islands, Micronesia, Nauru, Palau, Samoa and Vanuatu.

2.3 The following State have Deficiency recorded for non-compliance with Aeronautical Information Publication (AIP) format standards of International Civil Aviation Organization (ICAO) Annex 15:

Kiribati and Nauru\*.

2.4 The following States have Deficiency recorded for non-implementation of Aeronautical Information Services (AIS) Quality Management System as required in Annex 15, Chapter 3:

Afghanistan, Bangladesh, Bhutan, Brunei Darussalam, Cambodia, Kiribati, Lao PDR, Maldives, Marshall Islands, Micronesia, Myanmar, Nauru, Nepal\*\*, Palau, Philippines\*, Samoa, Solomon Islands, Sri Lanka\*\*, Timor-Leste and Vanuatu.

2.5 ICAO analysis of the information provided by Nauru and Philippines resulted in the recommendation that the deficiency be withdrawn, while Nepal and Sri Lanka require further information. The details will be further discussed under Agenda Item 7 (WP/29).

### Aeronautical Data Area of Responsibility Deficiencies

2.6 The following State has Deficiency recorded for non-compliance with the aeronautical data area of responsibility requirements of Annex 15, Chapter 2:

Bangladesh.

### Designation of Restricted Areas Deficiencies

2.7 The following States have Deficiency recorded for non-compliance with Annex 2 requirements for designation of restricted areas:

Australia and India.

### Airspace Classification Deficiencies

2.8 The following States and Administration have Deficiency recorded for non-implementation of airspace classification requirements of Annex 11 Chapter 2:

China, Macao China, Nauru and the Solomon Islands.

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ATS Message Addressing Deficiencies

2.9 The following State has Deficiency recorded for non-compliance with procedures specified in PANS-ATM Section 11.4:

Maldives.

Search and Rescue (SAR) Deficiencies

2.10 The following States and Administration have Deficiency recorded for non-implementation of the Asia/Pacific Air Navigation Plan Vol II Part I Section 3 Specific Regional Requirements for implementation of the Asia/Pacific Search and Rescue (SAR) Plan:

Afghanistan, Bangladesh, Bhutan, Brunei Darussalam, Cambodia, Macao China, Cook Islands, DPR Korea, French Polynesia, Kiribati, Lao PDR, Malaysia\*, Maldives, Marshall Islands, Micronesia, Mongolia, Myanmar, Nauru, Nepal, New Caledonia, Pakistan, Palau, Papua New Guinea, Philippines\*, Samoa, Solomon Islands, Sri Lanka, Thailand, Timor-Leste, Tonga, Tuvalu and Vanuatu.

2.11 ICAO analysis of the information provided by Malaysia and Philippines resulted in the recommendation that the deficiency be withdrawn. The details would be further informed under Agenda Item 7 (WP/30).

Safety Reporting Deficiencies (RASMAG)

2.12 The following State has Deficiency recorded for non-provision of safety-related data:

Afghanistan.

2.13 The Regional Airspace Safety Monitoring Advisory Group (RASMAG) had proposed to add French Polynesia to the deficiencies list due to non-submission of Large Height Deviation (LHD), Large Longitudinal Errors (LLE) and Large Lateral Deviation (LLD) data for 2023. ICAO had sent an email to French Polynesia on 21 August 2024 and requested for LHD, LLE and LLD data for 2023 to be submitted to ICAO and PARMO by 18 November 2024 to facilitate the withdrawal of the deficiency for APANPIRG's review.

2.14 The following States have Deficiency concerning responsibility to comply with the height-keeping monitoring requirements of Annex 6:

Afghanistan, Mongolia\*, Nepal, New Zealand\*, Pakistan\*, Papua New Guinea\* and the Solomon Islands\*.

2.15 The Twenty-Ninth Meeting of the Regional Airspace Safety Monitoring Advisory Group (RASMAG/29) reviewed the APANPIRG ATM and Airspace Safety Deficiency List and agreed to make the recommendation to APANPIRG/35 to remove Mongolia, New Zealand, Pakistan, Papua New Guinea, and the Solomon Island. In addition, it was recommended to add India and Philippines due to their remaining monitoring burden was 30% or more. The details would be further informed under Agenda Item 3 (WP/05).

ATS Datalink Deficiencies (RASMAG)

2.16 The following States have a Deficiency recorded for non-compliance with the data link performance monitoring and analysis requirements of Annex 11:

India and Maldives\*.

2.17 ICAO confirmed that Maldives had disabled the Automatic Dependent Surveillance – Contract (ADS-C) function from its ATM system due to application issues, and Controller Pilot Data Link Communications (CPDLC) / HF is used beyond VHF coverage, hence recommended that the deficiency be withdrawn.

Points of Contact

2.18 The List of Contacts for Deficiencies currently on the ICAO Secure Portal website at <https://portal.icao.int/DEF/Pages/default.aspx> is at **Attachment B** for review as required.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) review and update the list of ANS Deficiencies for review by APANPIRG/35;
- b) if possible, identify actions to be taken to correct the identified deficiencies;
- c) update the Deficiency Points of Contact List as required; and
- d) discuss any relevant matters as appropriate.

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ATM and Airspace Safety Deficiencies List (Updated 3 September 2024)

States/facilities	Deficiencies			Corrective Action		
	Description	Date first reported	Remarks	Executing body	Target date	Priority **
	<b><u>WGS-84</u> Requirements of Paragraph 1.2.1 of Annex 15</b>					
Afghanistan	WGS-84 - Not implemented	24/6/2014		Afghanistan	<del>TBD</del> 01/12/2025	A
Brunei Darussalam	WGS-84 - Not implemented	24/6/2014		Brunei Darussalam	TBD	A
Marshall Islands	WGS-84 - Not implemented	24/6/2014		Marshall Islands	TBD	A
Micronesia	WGS-84 - Not implemented	24/6/2014		Micronesia	TBD	A
Nauru	WGS-84 - Not implemented		Conferring with consultant	Nauru	TBD	A
Palau	WGS-84 - Not implemented	24/6/2014		Palau	TBD	A
Samoa	WGS-84 - Not implemented	24/6/2014		Samoa	TBD	A
Vanuatu	WGS-84 – Not implemented	2/7/1999	Implemented at main airports	Vanuatu	1999	A
	<b><u>AIP Format</u> Requirements of Chapter 5 of Annex 15</b>					
Kiribati	AIP Format - Not implemented	7/7/99	ATM/AIS/SAR/SG/18 (June 2009) was advised AIP in draft stage	Kiribati		A
Nauru	AIP Format – Not implemented	7/7/99	ATM/AIS/SAR/SG/18 (June 2008) was advised work soon to start	Nauru		A
	<b><u>AIS Quality Management System</u> Requirements of Paragraph 3.6.1 of Annex 15 Quality Management System - Not implemented</b>					
Afghanistan	AIS Quality Management System - Not implemented	24/6/2014		Afghanistan	TBD	A

	Deficiencies			Corrective Action		
States/facilities	Description	Date first reported	Remarks	Executing body	Target date	Priority **
Bangladesh	AIS Quality Management System - Not implemented	24/6/2014		Bangladesh	TBD	A
Bhutan	AIS Quality Management System - Not implemented	24/6/2014		Bhutan	TBD	A
Brunei Darussalam	AIS Quality Management System - Not implemented	24/6/2014		Brunei Darussalam	<del>TBD</del> 31/03/2026	A
Cambodia	AIS Quality Management System - Not implemented	24/6/2014		Cambodia	TBD	A
Kiribati	AIS Quality Management System - Not implemented	24/6/2014		Kiribati	TBD	A
Lao PDR	AIS Quality Management System - Not implemented	24/6/2014		Lao PDR	TBD	A
Maldives	AIS Quality Management System - Not implemented	24/6/2014		Maldives	<del>TBD</del> 30/09/2024	A
Marshall Islands	AIS Quality Management System - Not implemented	24/6/2014		Maldives	TBD	A
Micronesia	AIS Quality Management System - Not implemented	24/6/2014		Micronesia	TBD	A
Myanmar	AIS Quality Management System - Not implemented	9/6/2016		Myanmar	<del>TBD</del> 31/12/2025	A
Nauru	AIS Quality Management System - Not implemented	24/6/2014		Nauru	TBD	A
Nepal	AIS Quality Management System - Not implemented	24/6/2014		Nepal	TBD	A
Palau	AIS Quality Management System - Not implemented	24/6/2014		Palau	TBD	A

	Deficiencies			Corrective Action		
States/facilities	Description	Date first reported	Remarks	Executing body	Target date	Priority **
Philippines	<del>AIS Quality Management System – Not implemented</del>	24/6/2014		Philippines	<del>TBD</del>	A
Samoa	AIS Quality Management System - Not implemented	24/6/2014		Samoa	TBD	A
Solomon Islands	AIS Quality Management System - Not implemented	24/6/2014		Solomon Islands	TBD	A
Sri Lanka	AIS Quality Management System - Not implemented	9/6/2016		Sri Lanka	TBD	A
Timor-Leste	AIS Quality Management System - Not implemented	24/6/2014		Timor-Leste	TBD	A
Vanuatu	AIS Quality Management System - Not implemented	24/6/2014		Vanuatu	TBD	A
	<b><u>Aeronautical Data Area of Responsibility</u></b> - requirements of Paragraph 2.1.2 of Annex 2 to ensure that the provision of aeronautical data and aeronautical information covers its own territory and those areas over the high seas for which it is responsible for the provision of ATS					
Bangladesh	Aeronautical Data Promulgation Within the State's Area of Responsibility - Not implemented	29/03/2019 SAIOACG/9		Bangladesh	TBD	A
	<b><u>Designation of Restricted Areas</u></b> - requirements of Annex 2 (Definitions) to ensure that restricted areas are designated above the land areas or territorial waters of a State					

	Deficiencies			Corrective Action		
States/facilities	Description	Date first reported	Remarks	Executing body	Target date	Priority **
Australia	Designation of Restricted Areas Above the Land Areas or Territorial Waters of a State - Not implemented	29/03/2019 SAIOACG/9	Danger areas within international airspace that is part of a State's responsibility is acceptable	Australia	December 2022	A
India	Designation of Restricted Areas Above the Land Areas or Territorial Waters of a State - Not implemented	29/03/2019 SAIOACG/9	Danger areas within international airspace that is part of a State's responsibility is acceptable	India	TBD	A
	<b><u>Airspace Classification Requirements of Paragraph 2.6 of Annex 11</u></b>					
China	Airspace Classification - Not implemented	7/7/99	Difference to Annex 11 is published in AIP, China.	China	APANPIRG/19 updated, implementation planned by end 2010.	A
Macao, China	Airspace Classification - Not implemented	05/09/2018		Macau, China	TBD	A
Nauru	Airspace Classification - Not implemented	7/7/99		Nauru	TBD	A
Solomon Islands	Airspace Classification - Not implemented	7/7/99		Solomon Islands	TBD	A
	<b><u>ATS Message Addressing Requirements of Doc 4444 PANS-ATM Section 11.4 (Message Types and their Application)</u></b>		Note: the threshold for a Deficiency is 5% or more DEP messages reported to have not been sent, and where the analysed data provided evidence of a systemic (either systems or human factors) failure to send the message			



	Deficiencies			Corrective Action		
States/facilities	Description	Date first reported	Remarks	Executing body	Target date	Priority **
Maldives	DEP message transmission	09/08/2019	DEP messages inconsistently transmitted Conclusion APANPIRG/27/12 and ICAO correspondence	Maldives	TBD	A
	<b><u>SAR capability:</u> Requirements of Annex 12 as defined in the Regional Air Navigation Plan Volume II Part I – GENERAL PLANNING ASPECTS Section 3 SPECIFIC REGIONAL REQUIREMENTS, failure to reach 90% or more implementation of the Asia/Pacific SAR Plan</b>					
Afghanistan	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/6 56%	Afghanistan	2019	U
Bangladesh	Asia/Pacific SAR Plan	17/05/2019	<del>APSAR/WG/8 65%</del> APSAR/WG/9 65%	Bangladesh	2019	U
Bhutan	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/8 28%	Bhutan	2019	U
Brunei Darussalam	Asia/Pacific SAR Plan	17/05/2019	APSAR/WG/4 63%	Brunei	2019	U
Cambodia	Asia/Pacific SAR Plan	6/07/2015	<del>APSAR/WG/4 76%</del> APSAR/WG/9 76%	Cambodia	2019	U
Macao, China	Asia/Pacific SAR Plan	6/07/2015	<del>APSAR/WG/4 85%</del> APSAR/WG/9 88%	Macao, China	2019	U
Cook Islands	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/8 62%	Cook Islands	2019	U
DPR Korea	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/8 71%	DPR Korea	2019	U

	Deficiencies			Corrective Action		
States/facilities	Description	Date first reported	Remarks	Executing body	Target date	Priority **
French Polynesia	Asia/Pacific SAR Plan	17/05/2019	APSAR/WG/8 84%	French Polynesia	2019	U
Kiribati	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 26%	Kiribati	2019	U
Lao PDR	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 57%	Lao PDR	2019	U
Malaysia	Asia/Pacific SAR Plan	17/05/2019	APSAR/WG/8 85% APSAR/WG/8 92%	Malaysia	2019	U
Maldives	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/8 78%	Maldives	2019	U
Marshall Islands	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/5 17%	Marshall Islands	2019	U
Micronesia	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/5 17%	Micronesia	2019	U
Mongolia	Asia/Pacific SAR Plan	17/05/2019	APSAR/WG/5 73% APSAR/WG/9 89%	Mongolia	2019	U
Myanmar	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 67% APSAR/WG/9 69%	Myanmar	2019	U
Nauru	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 0%	Nauru	2019	U
Nepal	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/7 56% APSAR/WG/9 66%	Nepal	2019	U
New Caledonia	Asia/Pacific SAR Plan	17/05/2019	APSAR/WG/8 78%	New Caledonia	2019	U
Pakistan	Asia/Pacific SAR Plan	17/05/2019	APSAR/WG/8 89% APSAR/WG/9 89%	Pakistan	2019	U
Palau	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/5 17%	Palau	2019	U
Papua New Guinea	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/7 54%	Papua New Guinea	2019	U
Philippines	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/8 86% APSAR/WG/9 90%	Philippines	2019	U
Samoa	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 0%	Samoa	2019	U
Solomon Islands	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 0%	Solomon Islands	2019	U

States/facilities	Deficiencies			Corrective Action		
	Description	Date first reported	Remarks	Executing body	Target date	Priority **
Sri Lanka	Asia/Pacific SAR Plan	17/05/2019	<del>APSAR/WG/8 83%</del> APSAR/WG/9 84%	Sri Lanka	2019	U
Thailand	Asia/Pacific SAR Plan	17/05/2019	<del>APSAR/WG/8 82%</del> APSAR/WG/9 85%	Thailand	2019	U
Timor-Leste	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 0%	Timor-Leste	2019	U
Tonga	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 70%	Tonga	2019	U
Tuvalu	Asia/Pacific SAR Plan	28/05/2022	APSAR/WG/7 0%	Tuvalu	2024	U
Vanuatu	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 0%	Vanuatu	2019	U
	<b><u>Non Provision of Safety-related Data Requirement of Paragraph 3.3.5.1 of Annex 11 (provision of data for monitoring the height-keeping performance of aircraft) and APANPIRG Conclusion 16/6 – Non Provision of safety related data by States</u></b>					
Afghanistan	Non-provision of safety related data	12/07/2019	Failure to submit Kabul LHD data for January-December 2018 and 2020. Afghanistan had submitted data for the period January to July 2021, but no further LHD reports were received after August 2021.	Afghanistan	<del>RASMAG/27</del> TBD	U
French Polynesia	Non-provision of safety related data	RASMAG/29	Failure to submit Tahiti's LHD data for January-December 2023.	French Polynesia	RASMAG/30	U
	<b>State Responsibility to comply with the Annex 6 Height-Keeping Monitoring Requirement Annex 6 Part I Section 7.2.9 (10<sup>th</sup> Ed.) and Part II Section 2.5.2.10 (9<sup>th</sup> Ed.)</b>					
Afghanistan	Non-compliance with LTHM	RASMAG/23	Remaining monitoring burden of	Afghanistan	RASMAG/24	A

States/facilities	Deficiencies			Corrective Action		
	Description	Date first reported	Remarks	Executing body	Target date	Priority **
	requirement (remaining monitoring burden more than 30%)		50% (RASMAG/29) MAAR informed ICAO that all known airframes in Afghanistan have complied with the monitoring requirement (November 2022). Deficiency retained due to the unknown status of the Afghanistan aeronautical authority responsible for ensuring monitoring is conducted.		TBD	
India	Non-compliance with LTHM requirement (remaining monitoring burden more than 30%)	RASMAG/29	Remaining monitoring burden of 48% (RASMAG/29)	India	TBD	A
Mongolia	Non-compliance with LTHM requirement (remaining monitoring burden more than 30%)	RASMAG/28	Remaining monitoring burden of 43% (RASMAG/28) Remaining monitoring burden of 18% (RASMAG/29)	Mongolia	TBD	A
Nepal	Non-compliance with LTHM requirement (remaining monitoring burden more than 30%)	RASMAG/28	Remaining monitoring burden of 45% (RASMAG/28) Remaining monitoring burden of 45% (RASMAG/29)	Nepal	TBD	A
New Zealand	Non-compliance with LTHM requirement (remaining monitoring burden more than 30%)	RASMAG/28	Remaining monitoring burden of 36% (RASMAG/28) Remaining monitoring burden of 11% (RASMAG/29)	New Zealand	TBD	A
Pakistan	Non-compliance with LTHM requirement (remaining monitoring burden more than 30%)	RASMAG/22	Remaining monitoring burden of 45% (RASMAG/26) Remaining monitoring burden of 27% (RASMAG/29)	Pakistan	RASMAG/24	A
Papua New Guinea	Non-compliance with LTHM requirement (remaining monitoring burden more than 30%)	RASMAG/28	Remaining monitoring burden of 69% (RASMAG/28) Remaining monitoring burden of 15% (RASMAG/29)	Papua New Guinea	TBD	A
Philippines	Non-compliance with LTHM requirement (remaining monitoring burden more than 30%)	RASMAG/29	Remaining monitoring burden of 40% (RASMAG/29)	Philippines	TBD	A

States/facilities	Deficiencies			Corrective Action		
	Description	Date first reported	Remarks	Executing body	Target date	Priority **
	burden more than 30%)					
Solomon Islands	Non-compliance with LTHM requirement (remaining monitoring burden more than 30%)	RASMAG/28	Remaining monitoring burden of 50% (RASMAG/28) Remaining monitoring burden of 0% (RASMAG/29)	Solomon Islands	TBD	A
	<b>Data Link Performance Monitoring and Analysis Requirements of Paragraph 2.28 and/or 3.3.5.2 of Annex 11 not met</b>					
India	Post-implementation monitoring not implemented	13/07/2017	Performance monitoring and analysis was reported for the Chennai and Kolkata FIRs, but was not reported for the Mumbai FIR.	India	TBD	A
Maldives	Post-implementation monitoring not implemented	29/5/2015	Problem Reports not provided to CRA. Performance monitoring and analysis not reported to FIT. (FIT-Asia/14): Disabled the ADS-C function from the ATM system due to an application issue, and CPDLC/HF is used beyond VHF coverage.	Maldives	TBD	A

\*\* Note: In accordance with the *APANPIRG Handbook - Asia/Pacific Supplement to the Uniform Methodology for the Identification, Assessment and Reporting of Air Navigation Deficiencies*, priority for Air Navigation Deficiencies is guided by the principle that a deficiency with respect to an ICAO Standard is accorded a “U” status, while a non-compliance with a Recommended Practice or a PANS is considered as “A” or “B” subject to additional expert evaluation. The final prioritization of deficiencies is the prerogative of APANPIRG.



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## LIST OF FOCAL POINT FOR AIR NAVIGATION DEFICIENCIES

Updated: 24 May 2024

STATE/ADMINISTRATION	FOCAL CONTACT PERSON
<b>Afghanistan</b>	<b>Name:</b> Mr. Mohammad Hamid Amiry <b>Designation:</b> Aerodrome Certification Inspector <b>Address:</b> Ministry of Transport & Aviation (MoTA) <b>Tel:</b> +0786888011 <b>Email:</b> <a href="mailto:mhamidamiry@gmail.com">mhamidamiry@gmail.com</a> ;
<b>Australia</b>	<b>Name:</b> Mr. Chris Kumar <b>Designation:</b> ATS Specialist Lead <b>Address:</b> Airservices Australia <b>Tel:</b> +61 3 8340 8270 <b>Email:</b> <a href="mailto:chris.kumar@airservicesaustralia.com">chris.kumar@airservicesaustralia.com</a> ;
<b>Bangladesh</b>	<b>Name:</b> Ms. Sabera Rahman <b>Designation:</b> Deputy Director (ATM) <b>Address:</b> Civil Aviation Authority of Bangladesh Air Traffic Management Division <b>Tel:</b> – <b>Fax:</b> – <b>Email:</b> <a href="mailto:sabera_atm@caab.gov.bd">sabera_atm@caab.gov.bd</a> ;
<b>Bhutan</b>	<b>Name:</b> Mr. Pema Tashi <b>Designation:</b> Superintendent, ANS <b>Address:</b> Bhutan Civil Aviation Authority <b>Tel:</b> +975 8271912 <b>Fax:</b> 00975 8 271944 <b>Email:</b> <a href="mailto:ptashi@bcaa.gov.bt">ptashi@bcaa.gov.bt</a> ;
<i>Alternate</i>	<b>Name:</b> Ms. Devi Maya Adikari <b>Designation:</b> COM/NAV Officer <b>Address:</b> Department of Air Transport, Paro <b>Tel:</b> +975 8 271511 <b>Fax:</b> +975 8 271407 <b>Email:</b> <a href="mailto:dmadhikari@doat.gov.bt">dmadhikari@doat.gov.bt</a> ;
<b>Brunei Darussalam</b>	<b>Name:</b> Mr. Mohamad Fauzi bin Mohamad Sidek <b>Designation:</b> Acting Deputy Director of Civil Aviation (Regulator) <b>Address:</b> Department of Civil Aviation, Brunei Darussalam <b>Tel:</b> +673 2330142 <b>Mob:</b> +673 8168909 <b>Email:</b> <a href="mailto:fauzi.sidek@dca.gov.bn">fauzi.sidek@dca.gov.bn</a> ; <a href="mailto:ddca.regulatory@dca.gov.bn">ddca.regulatory@dca.gov.bn</a> ;

STATE/ADMINISTRATION	FOCAL CONTACT PERSON
<b>Brunei Darussalam</b> <i>Alternate</i>	<b>Name:</b> Mr. Pengiran Rasman bin Pengiran Sulaiman <b>Designation:</b> Aerodrome Inspector <b>Address:</b> Department of Civil Aviation, Brunei Darussalam <b>Tel:</b> +673 2330142 <b>Mob:</b> +673 8854714 <b>Email:</b> <a href="mailto:rasman.sulaiman@dca.gov.bn">rasman.sulaiman@dca.gov.bn</a> ;
	<b>Name:</b> Ms. Norhidayah Haji Ismail <b>Designation:</b> Air Traffic Control Officer <b>Address:</b> Department of Civil Aviation, Brunei Darussalam <b>Tel:</b> +673 2330142 <b>Mob:</b> +673 883 4614 <b>Email:</b> <a href="mailto:norhidayah.ismail@civil-aviation.gov.bn">norhidayah.ismail@civil-aviation.gov.bn</a> ;
<b>Cambodia</b>	<b>Name:</b> Mr. Chhun Sivorn <b>Designation:</b> Director of Air Navigation Standards and Safety Department <b>Address:</b> State Secretariat of Civil Aviation <b>Tel:</b> +855 23 224 258 <b>Mob:</b> +755 12 866 659 <b>Email:</b> <a href="mailto:ans.ssca@gmail.com">ans.ssca@gmail.com</a> ; <a href="mailto:ans.ssca@civilaviation.gov.kh">ans.ssca@civilaviation.gov.kh</a> ;
<b>China</b>	<b>Name:</b> Ms. Zhang Ying <b>Designation:</b> Engineer of AirSpace Management Division <b>Address:</b> Air Traffic Management Bureau, CAAC <b>Tel:</b> +86 (10) 8778 6837 <b>Fax:</b> +86 (10) 2778 6830 <b>Email:</b> <a href="mailto:zhangying@atmb.net.cn">zhangying@atmb.net.cn</a> ;
<b>Hong Kong, China</b>	<b>Name:</b> Ms. Erin YY Siu <b>Designation:</b> Senior Safety Manager <b>Address:</b> 2/F, Office Building, Civil Aviation Department Headquarters, 1 Tung Fai Road, Hong Kong International Airport, Lantau, Hong Kong <b>Tel:</b> +852 2910 6442 <b>Fax:</b> +852 2910 0186 <b>Email:</b> <a href="mailto:eyysiu@cad.gov.hk">eyysiu@cad.gov.hk</a> ;
<b>Macao, China</b>	<b>Name:</b> —
<i>Alternate</i>	<b>Name:</b> Mr. Lam Tat Ming <b>Designation:</b> Director of Airport Infrastructure & Air Navigation <b>Address:</b> Civil Aviation Authority of Macao Alameda Dr. Carlos D'Assumpção, 336-342, Centro Comercial Cheng Feng, 18 Andar, Macao, China <b>Tel:</b> +853 2851 1213 <b>Fax:</b> +853 2833 8089 <b>Email:</b> <a href="mailto:taftlam@aacm.gov.mo">taftlam@aacm.gov.mo</a> ;

STATE/ADMINISTRATION	FOCAL CONTACT PERSON
<b>Macao, China</b> <i>Alternate</i>	<b>Name:</b> Mr. Lo Veng Tong <b>Designation:</b> Safety Officer of Airport Infrastructure & Air Navigation <b>Address:</b> Civil Aviation Authority of Macao <b>Tel:</b> +853 8796 4132 <b>Fax:</b> +853 2833 8089 <b>Email:</b> <a href="mailto:freemanlo@aacm.gov.mo">freemanlo@aacm.gov.mo</a> ;
<b>Fiji Islands</b>	<b>Name:</b> Ms. Theresa Levestam <b>Designation:</b> Controller Ground Safety <b>Address:</b> Civil Aviation Authority of the Fiji Islands <b>Tel:</b> +679 672 1555 <b>Mob:</b> +679 9995206 <b>Fax:</b> +679 672 1500 <b>Email:</b> <a href="mailto:cgs@caaf.org.fj">cgs@caaf.org.fj</a> ;
<b>India</b>	<b>Name:</b> Mr. A. P. Gajbe <b>Designation:</b> General Manager (ATM) <b>Address:</b> Directorate of Air Traffic Management Airports Authority of India Safdarjung Airport, New Delhi -110003 <b>Tel:</b> +91 (11) 2465 2236 <b>Email:</b> <a href="mailto:anandraopg@aai.aero">anandraopg@aai.aero</a> ;
<b>Indonesia</b>	<b>Name:</b> Mr. Wahyudi Nugroho <b>Designation:</b> Head of Standardization of Air Navigation Section <b>Address:</b> Directorate General of Civil Aviation, Ministry of Transportation <b>Email:</b> <a href="mailto:wahyudinugroho2012@gmail.com">wahyudinugroho2012@gmail.com</a> ;
	<b>Name:</b> Mr. Tian Kusdinar <b>Designation:</b> Head of Air Traffic Management Section <b>Address:</b> Directorate General of Civil Aviation, Ministry of Transportation <b>Email:</b> <a href="mailto:tian231182@gmail.com">tian231182@gmail.com</a> ;
<b>Japan</b>	<b>Name:</b> Ms. Hanae NODA <b>Designation:</b> Special Assistant to the Director <b>Address:</b> Air Traffic International Affairs Office Japan Civil Aviation Bureau Ministry of Land, Infrastructure Transport and Tourism <b>Tel:</b> +81 3 5253 8740 <b>Fax:</b> +81 3 5253 1664 <b>Email:</b> <a href="mailto:noda-h46nk@mlit.go.jp">noda-h46nk@mlit.go.jp</a> ;



STATE/ADMINISTRATION	FOCAL CONTACT PERSON
<b>Kiribati</b>	<b>Name:</b> Mr. Tiamwa Teaiwa <b>Designation:</b> Air Navigation and Aerodrome Inspector <b>Address:</b> Civil Aviation Authority of Kiribati <b>Tel:</b> 686 74026003 <b>Email:</b> <a href="mailto:ans.ai@mcttd.gov.ki">ans.ai@mcttd.gov.ki</a> ;
<b>Lao PDR</b>	<b>Name:</b> Mr. Sohnsacksit Khamkeo <b>Designation:</b> Director of Air Navigation Standards Division <b>Address:</b> Department of Civil Aviation of Laos Wattay International Airport, P.O.Box 119, Vientiane <b>Mob:</b> +856 20 22499936 <b>Email:</b> <a href="mailto:sohnsacksit@yahoo.com">sohnsacksit@yahoo.com</a> ; <a href="mailto:saykhamkeo@gmail.com">saykhamkeo@gmail.com</a> ;
<b>Malaysia</b>	<b>Name:</b> Mr. Nasuruddin Bin Zainol Abidin <b>Designation:</b> Deputy Director Air Traffic Management <b>Address:</b> Civil Aviation Authority of Malaysia Level 1-4 , Block Podium, 62618 Putrajaya ,Malaysia <b>Tel./Mob:</b> 603-88714000 / 60123247089 <b>Fax:</b> 603 88810530 <b>Email:</b> <a href="mailto:nasuruddin@caam.gov.my">nasuruddin@caam.gov.my</a> ;
<b>Maldives</b>	<b>Name:</b> Mrs. Fathimath Ramiza <b>Designation:</b> Director, Air Navigation and Aerodromes <b>Address:</b> Maldives Civil Aviation Authority 11 <sup>th</sup> Floor, Velaanaage, Ameeru Ahmed Magu, Male' 20096, Maldives <b>Tel:</b> +960 332 4983 <b>Fax:</b> +960 332 3039 <b>Email:</b> <a href="mailto:ramiza@caa.gov.mv">ramiza@caa.gov.mv</a> ;
<b>Mongolia</b>	<b>Name:</b> Mr. Odgerel Davaadorj <b>Designation:</b> Senior officer of the Air Navigation Services Department <b>Address:</b> Civil Aviation Authority of Mongolia 17120 Buyant Ukhaa, Khan Uul District, Ulaanbaatar <b>Tel:</b> +976 11 282081 <b>Fax:</b> +976 7004 9640 <b>Email:</b> <a href="mailto:odgerel@mcaa.gov.mn">odgerel@mcaa.gov.mn</a> ;
<b>Myanmar</b>	<b>Name:</b> Mr. Soe Paing <b>Designation:</b> Director (Air Navigation Safety) <b>Address:</b> Department of Civil Aviation Myanmar <b>Tel:</b> +95 1 533008 <b>Fax:</b> +95 1 533000 <b>Email:</b> <a href="mailto:soepng1@gmail.com">soepng1@gmail.com</a> ;

STATE/ADMINISTRATION	FOCAL CONTACT PERSON
<b>Myanmar</b> <i>Alternate</i>	<b>Name:</b> Mr. Thein Naing <b>Designation:</b> Deputy Director (ANSD) <b>Address:</b> Department of Civil Aviation DCA Headquarters Building, P.O. Box 11021, Mingaladon, Myanmar <b>Tel:</b> +95 1 533215 <b>Fax:</b> +95 1 533016 <b>Email:</b> <a href="mailto:ansd.myanmar@gmail.com">ansd.myanmar@gmail.com</a> ; <a href="mailto:chittwo975.c@gmail.com">chittwo975.c@gmail.com</a> ;
<b>New Zealand</b>	<b>Name:</b> Mr. Sean Rogers <b>Designation:</b> Manager Aeronautical Services <b>Address:</b> Civil Aviation Authority of New Zealand P.O. Box 3555, Wellington 6140 <b>Tel: / Mob:</b> +64 (4) 560 9522 / +64 27 807 4875 <b>Fax:</b> +64 4 569 2024 <b>E-mail:</b> <a href="mailto:sean.rogers@caa.govt.nz">sean.rogers@caa.govt.nz</a> ;
<b>Nepal</b>	<b>Name:</b> Mr. Dinesh Raj Ghimire <b>Designation:</b> Deputy Director, Air Traffic Management Department <b>Address:</b> Civil Aviation Authority of Nepal (CAAN) Kathmandu, Nepal <b>Tel:</b> +977 1 4266139 <b>Fax:</b> +977 1 4262516 <b>Mob:</b> +977 9841216175 <b>E-mail:</b> <a href="mailto:dineshr.ghimire@caanepal.gov.np">dineshr.ghimire@caanepal.gov.np</a> ; <a href="mailto:dnghimire@gmail.com">dnghimire@gmail.com</a> ;
<b>Philippines</b>	<b>Name:</b> Mr. Arnold R. Balucating <b>Designation:</b> Assistant Director General I, Air Navigation Service <b>Address:</b> Civil Aviation Authority of the Philippines <b>Tel:</b> +632 879 9244 <b>Fax:</b> +632 879 9189 <b>E-mail:</b> <a href="mailto:arbalucating@caap.gov.ph">arbalucating@caap.gov.ph</a> ; <a href="mailto:arnoldrbalucating@yahoo.com">arnoldrbalucating@yahoo.com</a> ;
<i>Alternate</i>	<b>Name:</b> Mr. Michael E. Mapanao <b>Designation:</b> Acting Assistant Director General I, Air Navigation Service <b>Address:</b> Civil Aviation Authority of the Philippines <b>Tel:</b> +632 879 9129 <b>E-mail:</b> <a href="mailto:mikeecho905@yahoo.com">mikeecho905@yahoo.com</a> ;
	<b>Name:</b> Mr. Luciano R Macuse <b>Designation:</b> Officer-In-Charge, Aerodrome and Air Navigation Safety Oversight Office <b>Address:</b> Civil Aviation Authority of the Philippines <b>E-mail:</b> <a href="mailto:lrm.aansoo2014@gmail.com">lrm.aansoo2014@gmail.com</a> ;

STATE/ADMINISTRATION	FOCAL CONTACT PERSON
Republic of Korea	<b>Name:</b> Mr. Kyutae Kim <b>Designation:</b> Assistant Director of Air Traffic Division <b>Address:</b> Ministry of Land, Infrastructure and Transportation (MOLIT) <b>E-mail:</b> <a href="mailto:kimkt23@korea.kr">kimkt23@korea.kr</a> ;
Singapore	<b>Name:</b> Mr. Hermizan Jumari <b>Designation:</b> Deputy Director (Planning), ATS <b>Address:</b> Civil Aviation Authority of Singapore Singapore Changi Airport, P.O. Box 1, Singapore 918141 <b>E-mail:</b> <a href="mailto:hermizan_jumari@caas.gov.sg">hermizan_jumari@caas.gov.sg</a> ;
Alternate	<b>Name:</b> Mr. Teo Tian Hong, Magnus <b>Designation:</b> Senior Chief (ATM), ATS <b>Address:</b> Civil Aviation Authority of Singapore Singapore Changi Airport, P.O. Box 1, Singapore 918141 <b>E-mail:</b> <a href="mailto:teo_tian_hong@caas.gov.sg">teo_tian_hong@caas.gov.sg</a> ;
Sri Lanka	<b>Name:</b> Mr. Rohan Manukulasooriya <b>Designation:</b> Head of Section - Air Navigation Services <b>Address:</b> Civil Aviation Authority of Sri Lanka No. 64, Galle Road, Colombo 3 <b>Tel:</b> +94 (11) 235 8910 <b>E-mail:</b> <a href="mailto:hosans@caa.lk">hosans@caa.lk</a> ;
Thailand	<b>Name:</b> Mr. Sarun Benjanirat <b>Designation:</b> Deputy Director General Acting for Director General <b>Address:</b> The Civil Aviation Authority of Thailand (CAAT) <b>Tel:</b> +662 568 8800 <b>E-mail:</b> <a href="mailto:Sarun.b@caat.or.th">Sarun.b@caat.or.th</a> ;
Alternate	<b>Name:</b> Ms. Tawika Huayhongthong <b>Designation:</b> Manager, Air Navigation Services Standard Department <b>Address:</b> The Civil Aviation Authority of Thailand (CAAT) <b>Tel:</b> +662 568 8824 <b>E-mail:</b> <a href="mailto:tawika.h@caat.or.th">tawika.h@caat.or.th</a> ;
Timor-Leste	<b>Name:</b> Mr. Carlito Noronha <b>Designation:</b> - <b>Address:</b> Civil Aviation Authority of Timor-Leste <b>E-mail:</b> <a href="mailto:manewalun88@gmail.com">manewalun88@gmail.com</a> ;
Tonga	<b>Name:</b> Dr. Vinolia Salesi <b>Designation:</b> Director for Civil Aviation <b>Address:</b> Ministry of Infrastructure – Civil Aviation Division <b>Tel:</b> + 676 28 024 <b>E-mail:</b> <a href="mailto:vinolia.fifita@gmail.com">vinolia.fifita@gmail.com</a> ; <a href="mailto:vfifita@infrastructure.gov.to">vfifita@infrastructure.gov.to</a> ;

STATE/ADMINISTRATION	FOCAL CONTACT PERSON
<b>United States</b>	<b>Name:</b> Mr. Braks Etta <b>Designation:</b> Senior Air Traffic Representative, Asia Pacific <b>Address:</b> Federal Aviation Administration American Embassy Singapore 27 Napier Road, Singapore 258508 <b>Tel:</b> + 65 6476-9170 <b>E-mail:</b> <a href="mailto:braks.etta@faa.gov">braks.etta@faa.gov</a> ;
<b>Viet Nam</b>	<b>Name:</b> Mr. Nguyen The Hung <b>Designation:</b> Director, Air Navigation Department <b>Address:</b> Civil Aviation Administration of Viet Nam 119 Nguyen Son Street, Gia Thuy Ward Long Bien District, Hanoi 10000 <b>Tel:</b> +84 24 38727912 <b>Fax:</b> +84 24 3927 4194 <b>E-mail:</b> <a href="mailto:hungand@caa.gov.vn">hungand@caa.gov.vn</a> ; <a href="mailto:hungand_caav@yahoo.com">hungand_caav@yahoo.com</a>
<i>Alternate</i>	<b>Name:</b> Mr. Dao Xuan Hoach <b>Designation:</b> Director, Airport Management Department <b>Address:</b> Civil Aviation Administration of Viet Nam 119 Nguyen Son Street, Gia Thuy Ward Long Bien District, Hanoi 10000 <b>Tel:</b> +84-24-38727912 <b>Fax:</b> +84-24-38271933 <b>E-mail:</b> <a href="mailto:hoachdx@caa.gov.vn">hoachdx@caa.gov.vn</a> ;