

*International Civil Aviation Organization*

ICAO

**Eighth Meeting of the Surveillance Implementation  
Coordination Group (SURICG/8)***Bangkok, Thailand, 6 – 9 June 2023*

Agenda Item 5: Review of regional requirements for Surveillance in the e-ANP, Seamless ANS Plan and the reported implementation status

b) Review Table CNS II-APAC-3 in APAC e-ANP Volume II

**REVIEW REGIONAL SURVEILLANCE REQUIREMENTS**

(Presented by the Secretariat)

**SUMMARY**

This paper reviews regional requirements specified in Table CNS II-APAC-3 in APAC e-ANP Volume II.

**1. INTRODUCTION**

1.1 The regional surveillance requirements and objectives are specified in the Regional ANP Vol. I and Vol. II, the Seamless ANS Plan and the regional surveillance strategy.

1.2 The secretariat presented WP/10 to SURICG/2, WP/05 to SURICG/6 and WP06 to SURICG/7 to review regional requirements and invited feedback to maintain the currency and accuracy of the relevant information.

**2. DISCUSSION**

2.1 In November 2022, APANPIRG/33 adopted the Revised Surveillance Strategy for the APAC Region through Conclusion APANPIRG/33/11, which replaced the previous version adopted in November 2019. States/Administrations are therefore requested to make reference of the revised strategy as guidance for Implementation of the Surveillance Systems to support Air Navigation Service in respective Administration.

2.2 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 all facilities listed in Table CNS II-APAC-3 SURVEILLANCE under the Specific Regional Requirements in e-ANP Volume II against the revised regional strategy and verify that the information provided for their States/Administrations is up-to-date and correct.

2.3 In case of updates of any information required, States/Administrations should submit the updates to ICAO APAC Regional Office via PFA Process.

2.4 The approved version of Table CNS II-APAC-3 SURVEILLANCE is provided in

**Attachment A** to this Paper for review by the meeting.

2.16 The revised surveillance Strategy is placed at the **Attachment C** to **WP02** of SURICG/8 for easy reference.

**3. ACTION REQUIRED BY THE MEETING**

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) review planning requirements provided in **Attachment A**; and
- c) discuss any related issues as appropriate.

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**Table CNS II-APAC-3 SURVEILLANCE**

## EXPLANATION OF THE TABLE

*Column*

- 1 ATS Units to consider are ACC units and Approach units responsible for International airports and alternate aerodromes, International airports and alternate aerodromes.
- 2 The category may be: R, S, T or AD. Categories R,S, T are defined in the Seamless ATM plan. AD means Aerodrome.
- 3 Indicate Yes if part(s) of the airspace referred to in Column 2 is (are) not covered by surveillance listed in column 6, and in column remarks when such gaps are planned to be bridged
- 4 Indicate Yes or No.  
  
Indicate No in case of standalone displays of ATS surveillance data (should not be used operationally)
- 5 Indicate Yes or No
- 6 List all types of surveillance used:  
  
PSR  
SSRmS  
SSRmAC  
ADS-B  
ADS-C  
MLAT  
WAM  
PRM
- 7 According to the definition in Doc 9830 Appendix B
- 8 Remarks

ATS Units Served	Category of airspace	Surveillance Gaps	Integration of Surveillance Information into ATC Situation Display	Multi-Surveillance Data Processing Capability	Surveillance Used	Level of A-SMGCS Implemented	Remarks
1	2	3	4	5	6	7	8
<b>AUSTRALIA</b>							
<b>International Airports</b>							
<b>Adelaide</b>	C						Adelaide, Summertown
TCU			YES	YES	PSR+SSRmS+SSRmAC		
APP			YES	YES	PSR+SSRmS+SSRmAC		
TWR			YES	YES	PSR+SSRmS+SSRmAC		
<b>Cairns</b>	C						Redden Creek, Hanns Tableland
TCU			YES	YES	PSR+SSRmS+SSRmAC		
APP			YES	YES	PSR+SSRmS+SSRmAC		
TWR			YES	YES	PSR+SSRmS+SSRmAC		
<b>Brisbane</b>	C						Mt Hardgrave, Brisbane, Mt Sommerville
EC			YES	YES	PSR+SSRmAC+SSRmS+ADS-B		
APP			YES	YES	PSR+SSRmAC+SSRmS+		
ACC			YES	YES	PSR+SSRmAC+SSRmS+ADS-B		
TWR			YES	YES	PSR+SSRmAC+SSRmS+A-SMGCS+SMR	2	
<b>Gold Coast</b>	C						Mt Sommerville, Mt Hardgrave
APP			YES	YES	PSR+SSRmS+SSRmAC		
TWR			YES	YES	PSR+SSRmS+SSRmAC		
<b>Melbourne</b>	C						Gelliebrand Hill, Mt Macedon
EC			YES	YES	PSR+SSRmAC+SSRmS+ADS-B+		
APP			YES	YES	PSR+SSRmAC+SSRmS		
ACC			YES	YES	PSR+SSRmAC+SSRmS+ADS-B		
TWR			YES	YES	PSR+SSRmAC+SSRmS+ADS-B+A-SMGCS+SMR	2	
<b>Perth</b>	C						Perth, Kalamunda, Eclipse Hill
TCU			YES	YES	PSR+SSRmAC+SSRmS		
APP			YES	YES	PSR+SSRmAC+SSRmS		
TWR			YES	YES	PSR+SSRmAC+SSRmS+A-SMGCS+SMR	2	
<b>Sydney</b>	C						Sydney, Mt Boyce, Cecil Park
TCU			YES	YES	PSR+SSRmS+SSRmAC+WAM+MLAT		
APP			YES	YES	PSR+SSRmS+SSRmAC+WAM+MLAT		

ATS Units Served	Category of airspace	Surveillance Gaps	Integration of Surveillance Information into ATC Situation Display	Multi-Surveillance Data Processing Capability	Surveillance Used	Level of A-SMGCS Implemented	Remarks
1	2	3	4	5	6	7	8
TWR			YES	YES	PSR+SSRmS+SSRmAC+A-SMGCS+WAM+MLAT+SMR	2	Darwin, Knuckeyes Lagoon
<b>Darwin</b> APP	<b>C</b>		YES	YES	PSR+SSRmS+SSRmAC		
TWR			YES	YES	PSR+SSRmS+SSRmAC		
<b>Hobart</b> APP	<b>D</b>		YES	YES	WAM+ADS-B		Hobart
TWR			YES	YES	WAM+ADS-B		
<b>Karratha</b> APP	<b>D</b>		YES	YES	ADS-B		Karratha
TWR			YES	YES	ADS-B		
<b>Alternate aerodromes</b> <b>Alice Springs</b> APP	<b>D</b>		YES	YES	ADS-B		Alice Springs
TWR			YES	YES	ADS-B		
<b>Avalon</b> APP	<b>D</b>		YES	YES	PSR+ SSRm(S)+SSRm(A/C)		Gellibrand Hill, Mt Macedon
TWR			YES	YES	PSR+ SSRm(S)+SSRm(A/C)		
<b>Canberra</b> APP	<b>C</b>		YES	YES	PSR+ SSRm(S)+SSRm(A/C)		Mt Majura, Mt Bobbara
TWR			YES	YES	PSR+ SSRm(S)+SSRm(A/C)		
<b>Coffs Harbour</b> APP	<b>D</b>		YES	YES	SSRm(S)+SSRm(A/C)+ADS-B		The Round Mountain, Point Lookout
TWR			YES	YES	SSRm(S)+SSRm(A/C)+ADS-B		
<b>Kalgoorlie</b>	<b>G</b>	Over aerodrome	YES	YES	-		
<b>Launceston</b> APP	<b>D</b>		YES	YES	WAM+ ADS-B		Launceston
TWR			YES	YES	WAM+ ADS-B		
<b>Learmonth</b> <b>Port Hedland</b>	<b>G</b>		YES	YES	ADS-B		Learmonth
	<b>G</b>	Over aerodrome	YES	YES	-		
<b>Rock Hampton</b> APP	<b>D</b>		YES	YES	SSRm(S)+SSRm(A/C)		Mt Alma
TWR			YES	YES	SSRm(S)+SSRm(A/C)		

ATS Units Served	Category of airspace	Surveillance Gaps	Integration of Surveillance Information into ATC Situation Display	Multi-Surveillance Data Processing Capability	Surveillance Used	Level of A-SMGCS Implemented	Remarks
1	2	3	4	5	6	7	8
<b>Tindal</b> APP TWR	C		YES YES	YES YES	PSR+SSRm(A/C) PSR+SSRm(A/C)		Tindal
<b>Townsville</b> APP TWR	C		YES YES	YES YES	PSR+ SSRm(S)+SSRm(A/C) PSR+ SSRm(S)+SSRm(A/C)		Townsville, Tabletop
<b>Other aerodromes</b>  Broome Albury Tamworth Mackay Hamilton Island	D D D D D		YES YES YES YES YES	YES YES YES YES YES	ADS-B Higher level SSR coverage ? SSRm(A/C) SSRm(A/C)		Broome Mt Bobbara The Round Mountain Swampy Ridge Swampy Ridge
<b>BANGLADESH</b> Dhaka APP	C				PSR+SSRm AC		
<b>BRUNEI DARUSALAM</b> Brunei APP					PSR + SSRmAC		
<b>CAMBODIA</b>					SSRmAC		
<b>CHINA</b> Beijing ACC Beijing APP Beijing TWR  Tianjin APP Tianjin TWR  Shijiazhuang APP Shijiazhuang TWR  Taiyuan ACC Taiyuan APP					PSR + SSRmAC PSR + SSRmAC PSR + SSRmAC  SSRmAC  SSRmAC  PSR + SSRmAC		

ATS Units Served	Category of airspace	Surveillance Gaps	Integration of Surveillance Information into ATC Situation Display	Multi-Surveillance Data Processing Capability	Surveillance Used	Level of A-SMGCS Implemented	Remarks
1	2	3	4	5	6	7	8
Taiyuan TWR  Hohhot ACC Hohhot APP Hohhot TWR  Guangzhou ACC Guangzhou APP Guangzhou TWR  Shenzhen APP Shenzhen TWR  Zhuhai ACC Zhuhai APP Zhuhai TWR  Sanya ACC Sanya APP Sanya TWR  Haikou ACC Haikou APP Haikou TWR  Changsha ACC Changsha APP Changsha TWR  Enshi TWR					PSR + SSRmAC  SSRmAC  SSRmAC  PSR + SSRmAC PSR + SSRmAC PSR + SSRmAC  PSR + SSRmAC  PSR + SSRmAC PSR + SSRmAC PSR + SSRmAC  PSR + SSRmAC  PSR + SSRmAC  SSRmAC		
Wuhan ACC Wuhan APP Wuhan TWR  Zhengzhou ACC Zhengzhou APP Zhengzhou TWR					PSR + SSRmAC  PSR + SSRmAC  PSR + SSRmAC  PSR + SSRmAC		

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1	2	3	4	5	6	7	8
Guilin ACC Guilin APP Guilin TWR  Nanning ACC Nanning TWR  Zhanjiang ACC Zhanjiang APP Zhanjiang TWR  Shantou ACC Shantou APP Shantou TWR  Kunming ACC Kunming APP Kunming TWR  Chengdu ACC Chengdu APP Chengdu TWR  Guiyang ACC Guiyang APP Guiyang TWR  Chongqing ACC Chongqing APP Chongqing TWR  Shanghai ACC Shanghai APP Shanghai TWR					PSR + SSRmAC  PSR + SSRmAC  SSRmAC SSRmAC  SSRmAC  SSRmAC  PSR + SSRmAC  PSR + SSRmAC  PSR + SSRmAC + AC  PSR + SSRmAC  PSR + SSRmAC + ADS-C  PSR + SSRmAC  PSR + SSRmAC  PSR + SSRmAC  PSR + SSRmAC  PSR + SSRmAC PSR + SSRmAC PSR + SSRmAC		
Jinan ACC Jinan APP					SSRmAC		

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1	2	3	4	5	6	7	8
Jinan TWR					SSRmAC		
Qingdao ACC Qingdao APP Qingdao TWR					SSRmAC		
Hefei ACC Hefei APP Hefei TWR					PSR + SSRmAC		
Nanjing ACC Nanjing APP Nanjing TWR					PSR + SSRmAC		
Lianyungang ACC Lianyungang APP Lianyungang TWR					SSRmAC		
Xuzhou TWR					SSRmAC		
Hangzhou ACC Hangzhou APP Hangzhou TWR					PSR + SSRmAC		
Nanchang ACC Nanchang APP Nanchang TWR					PSR + SSRmAC		
Fuzhou ACC Fuzhou APP Fuzhou TWR					PSR + SSRmAC		
Wenzou TWR					SSRmAC		
Xiamen ACC Xiamen APP Xiamen TWR					PSR + SSRmAC		

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1	2	3	4	5	6	7	8
Shenyang ACC Shenyang APP Shenyang TWR					PSR + SSRmAC  PSR + SSRmAC		
Dalian ACC Dalian APP Dalian TWR  Harbin ACC Harbin APP Harbin TWR  Xi'an ACC Xi'an APP Xi'an TWR  Lanzhou ACC Lanzhou APP Lanzhou TWR  Urumqi ACC Urumqi APP Urumqi TWR					PSR + SSRmAC  PSR + SSRmAC  PSR + SSRmAC  PSR + SSRmAC  PSR + SSRmAC  SSRmAC + AC  SSRmAC  PSR + SSRmAC + AC  PSR + SSRmAC		
<b>HONG KONG, CHINA</b> Hong Kong ACC Hong Kong APP Hong Kong TWR	S T AD		Yes	Yes	PSR + SSRmAC + ADS-B PSR + SSRmAC PSR + SSRmAC + MLAT	2	SMR, A-SMGCS
<b>MACAO, CHINA</b> Macao TWR	AD		Yes	Yes	SSRmS+SSRmAC		SMR
<b>DPR KOREA</b> <b>Pyongyang</b> Pyongyang ACC Pyongyang APP Pyongyang TWR					PSR + SSRmAC + ADS-B PSR + SSRmAC + ADS-B		PAR

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1	2	3	4	5	6	7	8
<b>FIJI</b> Naid ACC Nadi APP					ADS-B + ADS-C ADS-B		
<b>FRENCH POLYNESIA</b> Tahiti ACC Tahiti APP Tahiti TWR					SSRmAC + ADS-B + ADS-C SSRmAC		
<b>INDIA</b> Chennai ACC Chennai APP Chennai TWR  Delhi ACC Delhi APP Delhi TWR  Kolkata ACC Kolkata APP Kolkata TWR  Mumbai ACC Mumbai APP Mumbai TWR  Bangalore APP Bangalore TWR  Shamshabad ACC Shamshabad APP Shamshabad TWR					PSR + ADS-C PSR + ADS-C PSR + ADS-C  PSR + ADS-C PSR + ADS-C PSR + ADS-C  PSR + ADS-C PSR + ADS-C PSR + ADS-C  PSR PSR  PSR PSR PSR		MI MI A-SMGCS  MI MI A-SMGCS  MI MI A-SMGCS  MI MI  MI MI MI
<b>INDONESIA</b> Jakarta ACC Jakarta APP  Medan ACC					PSR + SSRmAC + ADS-B PSR + SSRmAC + ADS-B  PSR + SSRmAC + ADS-B		ADS-B Trial ADS-C Trial, A-SMGCS

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1	2	3	4	5	6	7	8
Medan APP Tanjung Pinang APP Pontianak APP Pekanbaru APP Palembang APP Ujung Pandang ACC Ujung Pandang APP Banjarmasin APP Balikpapan APP					PSR + ADS-B SSRmAC ADS-B PSR + SSRmAC + ADS-B PSR + SSRmAC + ADS-B PSR + SSRmAC + ADS-B PSR + SSRmAC + ADS-B SSRmAC + ADS-B PSR + SSRmAC + ADS-B		ADS-C Trial, A-SMGCS
Yogyakarta APP Surabaya APP Bali ACC Bali APP Biak APP Jayapura ACC Jayapura APP Kupang ACC Kupang APP Tarakan ACC Batam ACC Batam APP Sorong ACC					PSR PSR ADS-B SSRmAC + ADS-B PSR PSR ADS-B ADS-B PSR + ADS-B SSRmS SSRmS + ADS-B SSRmS + ADS-B		A-SMGCS A-SMGCS

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1	2	3	4	5	6	7	8
<b>JAPAN</b> Fukuoka ATMC					ADS-C		
Narita APP Narita TWR					PSR + SSRmAC + SSRmS MLAT, PSRMLAT		SMR
Haneda TWR					MLAT		SMR
Chubu APP Chubu TWR					PSR + SSRmAC + SSRmS MLAT		SMR
Osaka APP Osaka TWR					PSR + SSRmAC + SSRmS MLAT		SMR
Kansai APP Kansai TWR					PSR + SSRmAC + SSRmS MLAT		SMR
Fukuoka ACC Fukuoka APP Fukuoka TWR					PSR + SSRmAC + SSRmS PSR + SSRmAC + SSRmS MLAT		SMR
Naha ACC Naha APP Naha TWR					PSR + SSRmAC + SSRmS PSR + SSRmAC + SSRmS MLAT		SMR
Hakodate APP					PSR + SSRmAC		
Sendai APP					PSR + SSRmAC		
Tokyo ACC Tokyo APP					PSR + SSRmAC + SSRmS PSR + SSRmAC + SSRmS		
Niigata APP					PSR + SSRmAC		
Chubu APP					PSR + SSRmAC + SSRmS		
Hiroshima APP					PSR + SSRmAC		

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1	2	3	4	5	6	7	8
Takamatsu APP Kochi APP Matsuyama TWR Kitakyusyu TWR Nagasaki APP Oita APP Kumamoto APP Miyazaki APP Kagoshima APP Shimojishima APP Ishigaki APP Sapporo ACC					PSR + SSRmAC PSR + SSRmAC SSRmAC SSRmAC PSR + SSRmAC PSR + SSRmAC PSR + SSRmAC PSR + SSRmAC PSR + SSRmAC PSR + SSRmAC PSR + SSRmAC PSR + SSRmAC + SSRmS		
<b>LAO PDR</b> Vientiane ACC Vientiane APP					SSRmAC + SSRmS PSR		
<b>MALAYSIA</b> Langkawi APP Kuala Lumpur ACC Lumpur APP Johor Bharu APP Kota Bharu APP					PSR + SSRmAC PSR + SSRmAC + SSRmS PSR + SSRmAC + ADS-C PSR + SSRmS PSR + SSRmS		

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1	2	3	4	5	6	7	8
K. Kinabalu ACC K. Kinabalu APP  Kuching ACC Kuching APP Kuching TWR  Miri APP					PSR + SSRmAC PSR + SSRmAC  PSR + SSRmAC  PSR + SSRmAC  PSR + SSRmAC		
<b>MONGOLIA</b> Ulaanbaatar ACC Ulaanbaatar APP					ADS-C ADS-C		
<b>MYANMAR</b> Yangon ACC Yangon APP  Mandalay APP			Yes Yes  Yes	Yes Yes  Yes	SSRmAC + ADS-C SSRmAC + ADS-C  PSR + SSRmAC		
<b>NEPAL</b> Kathmandu APP					PSR + SSRmAC		
<b>NEW CALEDONIA</b> Tontouta ACC  Tontouta APP	A, D  G	Yes	Yes	Not applicable	ADS-B	Not applicable	ADS-B Tier 3 implemented, Tier 2 in progress
<b>NEW ZEALAND</b> Christchurch ACC Christchurch TWR					PSR + SSRmAC + SSRmS		
Auckland ACC Auckland TWR  Wellington TWR					SSRmAC + SSRmS		Auckland A-SMGCS has no SMR

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1	2	3	4	5	6	7	8
Queenstown TWR							Wide Area MDS planned for Queenstown in 2010
<b>PAKISTAN</b> Karachi ACC Karachi APP Karachi TWR  Lahore ACC Lahore APP Lahore TWR  Islamabad APP Islamabad TWR			Yes  Yes  Yes	Yes  Yes  No	PSR + SSRmAC PSR + SSRmAC PSR + SSRmAC  PSR + SSRmAC PSR + SSRmAC PSR + SSRmAC  PSR + SSRmAC PSR + SSRmAC	Nil  Nil  Nil	
<b>PAPUA NEW GUINEA</b> Jacksons APP  Moresby ACC					PSR + SSRmAC  PSR + SSRmAC		
<b>PHILIPPINES</b> Manila ATM Center  Manila ACC Manila APP  Clark APP  Mactan APP  Kalibo/Caticlan APP  Bacolod APP  Davao APP					SSRmAC + SSRmS + ADS-B  SSRmAC + SSRmS PSR + SSRmAC + SSRmS  PSR + SSRmAC  PSR + SSRmAC  PSR + SSRmAC + SSRmS  PSR + SSRmAC + SSRmS  PSR + SSRmAC + SSRmS		Planned implementation on Dec. 16       Planned implementation on Dec. 16  Planned implementation on Dec. 16  Planned implementation on Dec. 16

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1	2	3	4	5	6	7	8
<b>REPUBLIC OF KOREA</b>							
Jeju APP	T	No	Yes	Yes	PSR + SSRmAC + SSRmS	2	SMR, A-SMGCS
Jeju TWR	T	No	No	No	PSR + SSRmAC + SSRmS		
Jungwon APP	T	No	No	Yes	PSR + SSRmAC	3	SMR, A-SMGCS
Cheongju TWR	T	No	No	No	PSR + SSRmAC		
Incheon ACC	S	No		Yes	PSR + SSRmAC		
Incheon TWR	T	No	Yes	No	PSR + SSRmAC		
Seoul APP	T	No	Yes	Yes	PSR + SSRmAC		
Gimpo TWR	T	No	Yes	No	PSR + SSRmAC		
Gangneung APP	T	No	No	No	PSR + SSRmAC		
Yangyang TWR					PSR + SSRmAC		
Gimhae APP	T	No	No	Yes	PSR + SSRmAC	SMR	
Gimhae TWR	T	No	No	No	PSR + SSRmAC		
Daegu APP	T	No	No	No	PSR + SSRmAC		
Daegu TWR	T	No	No	No	PSR + SSRmAC		
Gwangju APP	T	No	No	Yes	PSR + SSRmAC		
Gwangju TWR	T	No	No	No			
Muan TWR	T	No	No	No	PSR + SSRmAC		
<b>SINGAPORE</b>							
Singapore ACC	S		Yes	Yes	PSR + SSRmS + ADS-B + ADS-C	2	
Singapore APP	T		Yes	Yes	PSR + SSRmS+SSRmAC		
Singapore TWR	AD		Yes	Yes	PSR+ADS-B+MLAT		
<b>SRI LANKA</b>							
Colombo ACC					SSRmAC + ADS-B + ADS-C		ADS-C Trial
Colombo APP					PSR		
<b>THAILAND</b>							
Bangkok ACC	S		YES	YES	PSR + SSRmAC + SSRmS		

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1	2	3	4	5	6	7	8
Bangkok APP Suvarnabhumi TWR Don Mueang TWR	T AD AD		YES YES YES	YES YES YES	PSR + SSRmAC + SSRmS SMR + MLAT + A-SMGCS SSRmAC	2	
Chiang Mai APP Chiang Mai TWR	T AD		YES YES	YES YES	SSRmS SSRmS		
Hat Yai APP Hat Yai TWR	T AD		YES YES	YES YES	SSRmS SSRmS		
Phuket APP Phuket TWR	T AD		YES YES	YES YES	SSRmS SSRmS		
Suratthani APP Suratthani TWR	T AD		YES YES	YES YES	SSRmS SSRmS		
Ubonratchathani APP Ubonratchathani TWR	T AD		YES YES	YES YES	SSRmS SSRmS		
Phitsanulok APP Phitsanulok TWR	T AD		YES YES	YES YES	PSR PSR		
Hua Hin APP Hua Hin TWR	T AD		YES YES	YES YES	PSR PSR		
U Taphao					SSRmAC		
<b>TONGA</b>					ADS-B		
<b>UNITED STATES</b> Alaska ACC					ADS-B + ADS-C		
Hilo, Hawaii ACC Hilo, Hawaii APP Hilo, Hawaii TWR					SSRmAC PSR		
Honolulu, Hawaii ACC					SSRmS		

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1	2	3	4	5	6	7	8
Honolulu, Hawaii APP Honolulu, Hawaii TWR					PSR		
Kahului, Hawaii APP Kahului, Hawaii TWR					PSR + SSRmAC		
Kokee, Hawaii ACC					PSR		
Lihue, Hawaii APP Lihue, Hawaii TWR					PSR + SSRmAC		
Mount Kaala, Hawaii ACC					PSR + SSRmAC		
Pahoa, Hawaii ACC					SSRmAC		
Kunianiau, Hawaii ACC					SSRmAC		
Guam ACC					PSR + SSRmAC		
Mount Santa Rosa, Guam ACC Mount Santa Rosa, Guam APP Mount Santa Rosa, Guam TWR					PSR + SSRmS PSR + SSRmAC		
Kona, Hawaii ACC					SSRmAC		
<b>VIET NAM</b> Hanoi ACC					PSR + SSRmAC + ADS-B		SMR, A-SMGCS
Noibai APP Noibai TWR					SSRmAC		
Ho Chi Minh ACC					PSR + SSRmAC + ADS-B + ADS-C		
Danang APP					PSR		
Hanoi ACC							
Tansan Nhat APP					PSR		

<b>ATS Units Served</b>	<b>Category of airspace</b>	<b>Surveillance Gaps</b>	<b>Integration of Surveillance Information into ATC Situation Display</b>	<b>Multi-Surveillance Data Processing Capability</b>	<b>Surveillance Used</b>	<b>Level of A-SMGCS Implemented</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
Tansan Nhat TWR							SMR, A-SMGCS