

TABLE CNS 4A
SURVEILLANCE SYSTEMS

EXPLANATION OF THE TABLE

Column

1	Name of country and location of the facility or FIR
2	Air Traffic Services Unit served by the facility
3	PSR – Primary Surveillance Radar
4	Coverage of Primary Surveillance Radar in nautical miles
5	SSR – Secondary Surveillance Radar and Modes implemented will be indicated within Brackets, namely Mode A, C & S
6	Coverage of Secondary Surveillance Radar and/or ADS-B in nautical miles
7	ADS-B Automatic Dependent Surveillance Broadcast
8	ADS-C Automatic Dependent Surveillance Contract
9	SMR – Surface Movement Radar
10	A-SMGCS – Advanced Surface Movement Guidance and Control System
11	PAR – Precision Approach Radar
12	Remarks

Note:

The following codes are used in columns 3, 5, 7, 8, 9, 10, 11 and 12

I - required and implemented

for column 5, I - stands for implementation using conventional SSR while

MI - stands for implementation using Monopulse SSR

X - required but not implemented status not determined

N - required but not implemented

A - existing facility provided to supplement or substitute the requirement

F - future Plan

< - year planned commissioning year to be used as appropriate in conjunction with 'F' & 'N'

> - year planned decommissioning year to be used as appropriate in conjunction with 'A' & 'I'

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
AFGHANISTAN											
AUSTRALIA											
Hans Tableland	Cairns TUC Brisbane EC			MI(A/C)>14 MI(ACS) F<14	250	250 F<10					
Redden Creek	Cairns ACC Cairns APP Cairns TWR	I	50	MI(A/C)>08 MF(A/C/S)F<10	250	250F<12					
Tabletop	Brisbane ACC			MI(A/C)>14 MI(ACS)F<14	250	250 F<10					
Swampy Ridge	Brisbane ACC			MI(A/C)>14 MI(ACS)F<14	250	250 F<10					
Mount Alma	Brisbane ACC			MI(A/C)>14 MI(ACS)F<14	250	250 F<10					
Mount Hardgrave	Brisbane ACC Coolangatta APP Coolangatta TWR			MI(A/C)>14 MI(ACS)F<14	250	250 F<10					
Brisbane Airport	Brisbane APP Brisbane TWR	I	50	MI(A/C)>08 MF(A/C/S)<10	250	250 F<12					
Mount Sommersville	Coolangatta APP Coolangatta TWR	I	50	MI(A/C/S)	250	250 F<12					
Round Mountain	Brisbane ACC Sydney APP			MI(A/C)>14 MI(ACS)F<14	250	250 F<10					
Mount Boyce	Melbourne ACC Sydney APP Brisbane ACC Melbourne ACC			MI(A/C)>14 MI(ACS)F<14	250	250 F<10					
Sydney Airport	Sydney APP Sydney TWR	I	50	MI(A/C)>08 MF(A/C/S)<10	250	250F<12		I			

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Mount Majura	Canberra APP	I	50	MI(A/C)>08 MF(A/C/S)F<10	250	250F<12					in Melbourne
Mount Bobbara	Canberra TWR Melbourne ACC (in Melbourne) Canberra APP Canberra TWR			MI(A/C)>14 MI(ACS)F<14	250	250 F<10					
Mount Macedon	Melbourne ACC Melbourne APP Melbourne TWR			MI(A/C)>14 MI(ACS)F<14	250	250 F<10					
Gellibrand Hill	Melbourne ACC Melbourne APP Melbourne TWR	I	50	MI(A/C/S)	250	250F<12					
Summertown	Adelaide ACC Adelaide APP Adelaide TWR Melbourne ACC			MI(A/C)>14 MI(ACS)F<14	250	250 F<10					
Adelaide Airport	Adelaide ACC Adelaide APP Adelaide TWR	I	50	MI(A/C)>08 MF(A/C/S)F<10	250	250 F<12					
Kalamunda	Perth ACC Perth APP Perth TWR			MI(A/C)>14 MI(ACS)F<14	250	250 F<10					
Perth Airport	Perth ACC Perth APP Perth TWR	I	50	MI(A/C)>08 MF(A/C/S)F<10	250	250F<12					
Darwin (military ATC facility)	Brisbane ACC			MI(A/C)	160						SSR data only
Tindal (military ATC facility)	Brisbane ACC			MI(A/C)	250						SSR data only

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Oakey (military ATC facility)	Brisbane ACC			MI(A/C)	250						SSR data only
East sale (military ATC facility)	Melbourne ACC			MI(A/C)	250						SSR data only
Darwin	Brisbane ACC			MI(A/C)>14 MI(ACS) F<14	250	250 F<10					
Bundaberg	Brisbane ACC				250	I					
Balgo Hill	Brisbane ACC				250	FF<2009					
Caiguna	Melbourne ACC				250	I					
Doongan	Brisbane ACC				250	FF<2009					
Esperance	Melbourne ACC				250	I					
Jackson	Brisbane ACC				250	FF<2009					
Thursday Island	Brisbane ACC				250	I					
Ayers Rock AP	Melbourne ACC				250	FF<2009					
Birdsville	Melbourne ACC				250	FF<2009					
Broken Hill	Melbourne ACC				250	I					
Mornington Island	Brisbane ACC				250	FF<2009					
West Gap (Alice Springs)	Brisbane ACC				250	I					
Warburton	Melbourne ACC				250	FF<2009					
Broome	Brisbane ACC				250	FF<2009					
Leonora	Brisbane ACC				250	I					
Longreach	Brisbane ACC				250	I					
Telfer	Brisbane ACC				250	I					
Meekatharra	Brisbane ACC				250	I					

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Mount Isa (DCA Hill)	Brisbane ACC				250	FF<2009					
Newman	Brisbane ACC				250	I					
Oodnadatta	Brisbane ACC				250	FF<2009					
Tennant Creek	Brisbane ACC				250	I					
Karratha	Brisbane ACC				250	I					
Billabong	Melbourne ACC				250	I					
Gove	Melbourne ACC				250	FF<2009					
Bourke	Melbourne ACC				250	I					
Nullabor	Melbourne ACC				250	FF<2009					
Woomera	Melbourne ACC				250	I					
TAS WAM Multilat	Melbourne ACC				100	FF<2009					MLAT F<2010
Sydney Airport	Sydney TCU				40	F<2010				I	MLAT F<2010
BANGLADESH											
Dhaka	Dhaka APP			I(A/C)	200						
BHUTAN											
BRUNEI DARUSALAM											
Brunei Airport	Brunei APP	I	80	I(A/C)	250						
CAMBODIA											
				I(A/C)	250						VDPP 2011, VDSV 2010
CHINA											
Beijing-1	Beijing TWR Beijing APP			MI(A/C)	200						Mode S when required

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Beijing-2	Beijing ACC Beijing TWR Beijing APP Beijing ACC	I	60	MI(A/C)	200						
Beijing-3	Beijing TWR Beijing APP Beijing ACC	I	200	MI(A/C)	250						
Tianjin	Tianjin TWR			MI(A/C)	200						
Shijiazhuang	Shijiazhuang TWR Beijing ACC			MI(A/C)	200						
Taiyuan	Taiyuan TWR Taiyuan ACC	I	60	MI(A/C)	200						
Hohhot	Hohhot TWR, ACC			MI(A/C)	200						
Manbanshan	Hohhot ACC			MI(A/C)	200						
Sunite	Hohhot ACC			MI(A/C)	200						
Guangzhou-1	Guangzhou TWR Guangzhou APP Guangzhou ACC	I	60	MI(A/C)	200						
Guangzhou-2	Guangzhou TWR Guangzhou APP Guangzhou ACC	I	60	MI(A/C)	200						
Guangzhou-3	Guangzhou TWR Guangzhou APP Guangzhou ACC			MI(A/C)	200						
Shenzhen	Shenzhen TWR Guangzhou APP Guangzhou ACC	I	60	MI(A/C)	200						
Shaoguan	Guangzhou ACC			MI(A/C)	200						
Zhuhai	Zhuhai TWR Zhuhai APP Zhuhai ACC	I	60	MI(A/C)	200						

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Sanya	Sanya TWR Sanya APP Sanya ACC	I	150	MI(A/C)	250						
Sanya-2	Sanya TWR,APP,ACC			MI(A/C)	250						
Haikou	Haikou TWR Haikou ACC	I	60	MI(A/C)	200						
Changsha	Changsha TWR Changsha ACC	I	60	MI(A/C)	200						
Changsha-2	Changsha TWR, ACC			MI(A/C)	200						
Enshi	Enshi TWR Wuhan ACC			MI(A/C)	200						
Wuhan	Wuhan TWR Wuhan ACC	I	60	MI(A/C)	200						
Wuhan-2	Wuhan TWR , ACC			MI(A/C)	200						
Zhengzhou-1	Zhengzhou TWR Zhengzhou ACC	I	60	I(A/C)	200						
Zhengzhou-2	Zhengzhou TWR Zhengzhou ACC	I	60	MI(A/C)	200						
Zhoukou	Zhengzhou ACC			MI(A/C)	200						
Guilin -1	Guilin TWR Guilin ACC			I(A/C)	200						
Guilin - 2	Guilin TWR Guilin ACC	I	60	MI(A/C)	200						
Nanning	Nanning TWR Nanning ACC			MI(A/C)	200						
Zhanjiang	Zhanjiang TWR Zhanjiang ACC			I (A/C)	200						
Shantou	Shantou TWR Shantou ACC	I	60	MI(A/C)	200						

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Jieyang	Shantou TWR Shantou ACC			MI(A/C)	200						
Kunming	Kunming TWR Kunming ACC	I	60	I(A/C)	200		I				
Chengdu	Chengdu TWR Chengdu ACC	I	60	I(A/C)	200		I				
Guiyang - 1	Guiyang TWR Guiyang ACC			I(A/C)	200						
Guiyang - 2	Guiyang TWR Guiyang ACC	I	60	MI(A/C)	200						
Chongqing	Chongqing TWR Chongqing ACC	I	60	MI(A/C)	200						
Shanghai-1	Shanghai TWR Shanghai APP Shanghai ACC	I	60	MI(A/C)	200						
Shanghai-2	Shanghai TWR Shanghai APP Shanghai ACC	I	60	I(A/C)	200						
Jinan	Jinan TWR, ACC			MI(A/C)	200						
Jinan-2	Jinan TWR, ACC			MI(A/C)	200						
Qingdao	Qingdao TWR Qingdao ACC			MI(A/C)	200						
Hefei	Hefei TWR Hefei ACC	I	60	MI(A/C)	200						
Nanjing	Nanjing TWR Nanjing ACC	I	60	MI(A/C)	200						
Lianyungang	Lianyungang TWR Lianyungang ACC			MI(A/C)	200						
Xuzhou	Xuzhou TWR			MI(A/C)	200						
Hangzhou	Hangzhou TWR Hangzhou ACC	I	60	MI(A/C)	200						

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Nanchang	Nanchang TWR Nanchang ACC	I	60	I(A/C)	200						
Nanchang-2	Nanchang TWR, ACC			I(A/C)	200						
Ganzhou	Nanchang ACC			MI(A/C)	200						
Shangrao	Nanchang ACC			MI(A/C)	200						
Fuzhou	Fuzhou TWR Fuzhou ACC	I	60	MI(A/C)	200						
Wenzhou	Wenzou TWR			MI(A/C)	200						
Xiamen	Xiamen TWR Xiamen ACC	I	60	MI(A/C)	200						
Xiamen	Xiamen TWR, ACC			MI(A/C)	200						
Shenyang	Shenyang TWR Shenyang ACC	I	60	MI(A/C)	200						
Shenyang-2	Shenyang TWR Shenyang ACC	I	60	MI(A/C)	200						
Dalian	Dalian TWR Dalian ACC	I	60	I(A/C)	200						
Dalian-2	Dalian TWR, ACC			MI(A/C)	200						
Harbin	Harbin TWR Harbin ACC	I	60	MI(A/C)	200						
Xi'an	Xi'an TWR Xi'an ACC	F<2000	60	I(A/C)	200						
Lanzhou	Lanzhou TWR Lanzhou ACC			MI(A/C)	200		I				
Urumqi	Urumqi TWR Urumqi ACC	I	60	MI(A/C)	200		I				
HONG KONG, CHINA Beacon Hill	Hong Kong ACC Hong Kong APP			MI(A/C)	250						

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Mount Parker	Hong Kong TWR Hong Kong ACC Hong Kong APP Hong Kong TWR	I	200	MI(A/C)	250						
Tai Mo Shan	Hong Kong ACC Hong Kong APP Hong Kong TWR	I	140	MI(A/C)	250						
Sha Chau	Hong Kong APP Hong Kong TWR	I	80	MI(A/C)	250						
Hong Kong Int'l Airport	Hong Kong APP Hong Kong ACC Hong Kong TWR					F<2013		I	I		PRM I in 2000
MACAO, CHINA Macao	Macao TWR			MI(A/C)	200			F<2010			
COOK ISLANDS											
DPR KOREA Pyongyang	Pyongyang ACC Pyongyang APP Pyongyang TWR	I	60	MI(A/C) MI(A/C)	200 200					I	
FIJI	Naid ACC Nadi APP					F<2010 F<2010	I				
FRENCH POLYNESIA	Tahiti ACC Tahiti APP			N<2008(A/C) N<2008(A/C)	250	F<2012	I				
INDIA Ahmadabad		I	60	MI	256						
Trivandrum		I	60	MI	256						
Shamshabad (HIAL)		I	60	MI	256				I		
Guwahati		I	60	MI	256						
Kolkata		I	60	MI	256		I		F<2011		

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Bangalore (BIAL)		I	60	MI	256				I		
Bellary				F<2013	256						
Bhopal				F<2013	256						
Jharsuguda				F<2013	256						
Jodhpur				F<2013	256						
Raiganj				F<2013	256						
Vizag				F<2013	256						
Porbandar				F<2013	256						
Amritsar		F<2013	60	F<2013	256						
Chennai		I	60	MI	256		I		F<2011		
Cohin		F<2013	60	F<2013	256						
Delhi		I	60/220	MI	256		I		I		RSR=220NM
Mumbai		I	60/220	MI	256		I		F<2011		"
Mangalore				MI	256						
Berhampur				MI	256						
Varanasi				MI	256						
Nagpur				MI	256						
INDONESIA											
Banda Aceh	Medan ACC Jakarta ACC			I(A/C) MI (A/C)	240 240	I 2008					
Medan	Medan APP Jakarta ACC	I	90	MI(A/C)	240	I <2008					Pre-operation, ADS-B not integrated to ATC system
Natuna	Jakarta ACC			I(A/C)	240						

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Tanjung Pinang	Tanjung Pinang APP Jakarta ACC	I	90	I(A/C)	240	I<2008					
Pontianak	Pontianak APP Jakarta ACC	I	90	I(A/C)	240	I<2008					
Pekanbaru	Pekanbaru APP Medan ACC Jakarta ACC	I	90	I(A/C)	240	I<2008					
Palembang	Palembang APP Jakarta ACC	I	90	MI(A/C)	240	I 2008					
Jakarta/Cengkareng	Jakarta APP Jakarta ACC Jakarta FIR	I	90	I(A/C) MI(A/C)	240 240	I 2008 F<2007	X		F 2010		ADS-C Trial ADS-B Trial
Jakarta/Halim	Jakarta ACC					F<2007					
Semarang	Ujung Pandang ACC Jarkata ACC			I(A/C)	240	I<2009					
Banjarmasin	Banjarmasin APP Ujung Pandang ACC			MI (A/C)	240	I<2009					
Balikpapan	Balikpapan APP Ujung Pandang ACC	I	90	MI(A/C)	240	I<2009					
Yogyakarta	Yogyakarta APP Ujung Pandang ACC Jakarta ACC	I	90	MI(A/C)	240						
Surabaya	Surabaya APP Ujung Pandang ACC Jakarta ACC	I	90	MI(A/C)	240	I<2009			F 2011		
Bali	Bali APP Ujung Pandang ACC	I	90	MI(A/C)	240	I<2009			F 2011		
Waingapu	Ujung Pandang ACC			I(A/C)	240	I<2008					
Ujung Pandang	Ujung Pandang APP Ujung Pandang ACC Ujung Pandang FIR	I	90	I(A/C) I(A/C)	240 240	I<2008 F<2007	X		F 2011		ADS-C Trial ADS-B Trial
Manado	Ujung Pandang ACC			I(A/C)	240	I<2010					
Ambon	Ujung Pandang ACC			I(A/C)	240	I<2008					
Kendari	Ujung Pandang ACC			I(A/C)	240	I<2010					

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Biak	Biak APP Ujung Pandang ACC			I(A/C)	240	I<2010					
Jayapura	APP ACC	2009									
Kupang	APP ACC					I<2010					
Tarakan	ACC	F<2010				I<2009					
Batam	APP ACC				F(S)<2009 F(S)<2009	I<2009					
Sorong	ACC				F(S)<2009	I<2008					
JAPAN											
Fukuoka OCA	Fukuoka ATMC						I				
Narita Airport - 1	Narita TWR							I			
Narita Airport - 2	Narita TWR							I			
Haneda Airport - 1	Haneda TWR							I			
Haneda Airport - 2	Haneda TWR							I			
Chubu Airport	Chubu TWR							I			
Osaka Airport	Osaka TWR							I			
Kansai Airport	Kansai TWR							I			
Fukuoka Airport	Fukuoka TWR							I			
Naha Airport	Naha TWR							I			
Hakodate Airport	Hakodate APP	I	60	I(A/C)	60						
Sendai Airport	Sendai APP	I	60	I(A/C)	60						
Narita Airport - 1	Tokyo APP	I	80	MI(A/C/S)	100						
Narita Airport - 2	Tokyo APP	I	80	MI(A/C/S)	100						
Handeda Airport - 1	Tokyo APP	I	80	MI(A/C/S)	100						
Handeda Airport - 2	Tokyo APP	I	80	MI(A/C/S)	100						
Niigata Airport	Niigata APP	I	60	I(A/C)	60						

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Nagoya Airport	Chubu APP	I	60	I(A/C)	60						
Chubu Airport - 1	Chubu APP	I	80	MI(A/C/S)	100						
Chubu Airport - 2	Chubu APP	I	80	MI(A/C/S)	100						
Osaka Airport - 1	Osaka APP	I	80	MI(A/C/S)	100						
Osaka Airport - 2	Osaka APP	I	80	MI(A/C/S)	100						
Kansai Airport - 1	Kansai APP	I	80	MI(A/C/S)	100						
Kansai Airport - 2	Kansai APP	I	80	MI(A/C/S)	100						
Hiroshima Airport	Hiroshima APP	I	60	I(A/C)	60						
Takamatsu Airport	Takamatsu APP	I	60	I(A/C)	60						
Kochi Airport	Kochi APP	I	60	I(A/C)	60						
Matsuyama Airport	Matsuyama TWR			I(A/C)	60						
Fukuoka Airport - 1	Fukuoka APP	I	60	MI(A/C/S)	60						
Fukuoka Airport - 2	Fukuoka APP	I	60	MI(A/C/S)	60						
Kitakyusyu Airport	Kitakyusyu TWR			I(A/C)	60						
Nagasaki Airport	Nagasaki APP	I	60	MI(A/C)	60						
Oita Airport	Oita APP	I	60	I(A/C)	60						
Kumamoto Airport	Kumamoto APP	I	60	I(A/C)	60						
Miyazaki Airprot - 1	Miyazaki APP	I	60	MI(A/C)	60						
Miyazaki Airport - 2	Miyazaki APP	I		I(A/C)	60						
Kagoshima Airport - 1	Kagoshima APP	I	60	I(A/C)	60						
Kagoshima Airport - 2	Kagoshima APP	I	60	MI(A/C)	60						
Naha Airport - 1	Naha APP	I	60	MI(A/C/S)	60						
Naha Airport - 2	Naha APP	I	60	MI(A/C/S)	60						
Shimajima Airport	Shimajima APP	I	60	I(A/C)	60						
Kushiro	Sapporo ACC	I	200	MI(A/C)	250						

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Yokotsudake	Sapporo ACC	I		MI(A/C/S)	250						
Hachinohe	Sapporo ACC	I		MI(A/C/S)	250						
Jobonzan	Sapporo ACC Tokyo ACC	I		MI(A/C/S)	250						
Oginojo	Sapporo ACC Tokyo ACC	I	200	I(A/C)	250						
Yamada	Tokyo ACC	I		MI(A/C/S)	250						
Hakone	Tokyo ACC	I	200	I(A/C)	200						
Mikawa	Tokyo ACC	I	200	I(A/C)	200						
Mikuniyama	Tokyo ACC	I		MI(A/C/S)	250						
Hirata	Tokyo ACC Fukuoka ACC	I	200	MI(A/C/S)	250						
Imanoyama	Tokyo ACC Fukuoka ACC	I	200	I(A/C)	250						
Kaseda	Fukuoka ACC Naha ACC	I		MI(A/C/S)	250						
Sangunzan	Fukuoka ACC	I	200	I(A/C)	200						
Amami	Fukuoka ACC Naha ACC	I	200	I(A/C)	250						
Miyakojima	Naha ACC	I	200	I(A/C)	250						
Yaedake	Naha ACC	I	200	I(A/C)	250						
Iwaki	Tokyo ACC			MI(A/C/S)	250						
Hachijo	Tokyo ACC			MI(A/C/S)	250						
Fukue	Fukuoka ACC			MI(A/C/S)	250						
Oga	Sapporo ACC Tokyo ACC			MI(A/C)	250						
Memambetsu	Sapporo ACC			MI(A/C)	60						
Asahikawa	Sapporo ACC			MI(A/C)	150						

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
MICRONESIA (FEDERATED STATE OF)											
MONGOLIA	Ulaanbaatar ACC Ulaanbaatar APP					<2008 <2008	I I				
MYANMAR	Yangon APP Yangon ACC			MI(A/C/S)	200		I				
Mandalay Myeik	Mandalay APP Yangon ACC	I	60	MI(A/C/S) MI(A/C/S)	200 200						
NAURU											
NEPAL	Kathmandu APP	I	60	I (A/C)	200						
NEW CALEDONIA	Tontouta ACC Tontouta APP					TBD TBD					
NEW ZEALAND	Christchurch ACC	I	80								
Auckland OCA	Auckland ACC Auckland TWR						I		I		Auckland A-SMGCS has no SMR
Auckland TWR											
Ballance	Christchurch ACC			MI/A/C/S	250						
Cass Peak	Christchurch ACC			MI/A/C/S	250						
Christchurch	Christchurch ACC	I	80								
Hawkins Hill	Christchurch ACC	I	80	MI/A/C/S	250						
Mount Robertson	Christchurch ACC			MI/A/C/S	250						
Queenstown	Christchurch ACC Queenstown TWR										Wide Area MDS planned for Queenstown in 2010
Ruaotewhenua	Auckland ACC Christchurch ACC			MI/A/C/S	250						

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Teweraiti	Chrischurch ACC			MI(A/C/S)	250						
PAKISTAN											
Karachi Airport	Karachi ACC Karachi APP Karachi TWR	I	98	MI(A/C)	200						
Pasni	Karachi ACC			MI(A/C)	200						
Lak Pass	Karachi ACC Lahore ACC			MI(A/C)	200						
Rojhan	Karachi ACC Lahore ACC			MI(A/C)	200						
Lahore Airport	Lahore ACC Lahore APP Lahore TWR	I	98	MI(A/C)	200						
Islamabad Airport	Lahore ACC Islamabad APP Islamabad TWR	I	98	MI(A/C)	200						
PAPUA NEW GUINEA											
Jacksons airport	Jacksons APP Moresby ACC	I	60	I(A/C)	200						
PHILIPPINES											
Manila	Manila APP	I F<2012	60	I(A/C) M(A/C/S) F<2012	90						
Tagaytay	Manila ACC			MI(A/C/S)	250						
Clark	Clark APP	I	70	MI(A/C)	70						
Mactan	Mactan APP	I F<2012	70	I(A/C)	70						
Kalibo	Kalibo/Caticlan APP	F<2012		M(A/C/S) F<2012							
Bacolod	Bacolod APP	F<2012		M(A/C/S) F<2012							
Davao	Davao APP	F<2012		M(A/C/S) F<2012							
Subic	Subic APP	I	70	I(A/C)	70						
Laoag	Manila ACC Manila ATM Center			MI(A/C) M(A/C/S) F<2012	250 250						

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
SRI LANKA											
Bandaranaike Airport	Colombo APP	I	90								
Mount Piduruthalagala	Colombo ACC			MI(A/C)	200	F<2010	I				ADS-C trial
THAILAND											
Bangkok	Bangkok APP Bangkok ACC Bangkok TWR	I	80	MI(A/C)>2011 F(A/C/S)<2011	250 250	F<2010					
Bangkok/ Suvarnabhumi AP	Bangkok APP Bangkok ACC Bangkok/SVB TWR	I	80	MI(A/C/S)	250			I	I		A-SMGCSLevel2
Chiang Mai	Chiang Mai APP Bangkok ACC	I>2010	60	MI(A/C)>2010 F(A/C/S)<2010	250 250						
Ubon Rachathani	Bangkok ACC			MI(A/C/S)	250 250						
Surat Thani	Bangkok ACC Hat Yai APP Phuket APP			MI(A/C/S)	250 250						
Hat Yai	Hat Yai APP Bangkok ACC	I>2010	60	F(A/C/S)<2010	250						
Phuket	Phuket APP Bangkok ACC			MI(A/C/S)	250						
Phitsanulok	Phitsanulok APP	I	60								
Hua Hin	Hua Hin APP	I	60								
U Taphao (Military Installation)	U Taphao			I(A/C)	200						
TONGA						F<2010					

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
UNITED STATES											
Alaska	ACC					2003	I<2006				
Hilo, Hawaii	ACC APP TWR	I	60	I(A/C)	200						
Honolulu, Hawaii	ACC APP TWR	I	60	I(S)							
Kahului, Hawaii	APP TWR	I	60	I(A/C)							
Kokee, Hawaii	ACC	I	200								
Lihue, Hawaii	APP TWR	I	60	I(A/C)							
Mount Kaala, Hawaii	ACC	I	200	I(A/C)							
Pahoa, Hawaii	ACC			I(A/C)							
Kunianiau, Hawaii	ACC			I(A/C)							
Guam	ACC	I	200	I(A/C)							
Mount Santa Rosa, Guam	APP TWR	I	60	I(A/C)							
Mount Santa Rosa, Guam	ACC	I									
Kona, Hawaii	ACC			F(A/C)	200						
Mount Kaala, Hawaii	ACC	F	250								
Mount Santa Rosa, Guam	ACC	F<2000	250	F(S)<2000	250						
VANUATU											
VIET NAM											
Hanoi/Noibai	Hanoi ACC Noibai APP Noibai TWR	I	80	MI(A/C) MI (A/C)	200 250	F<2013					
								F<2011	F<2011		

Country/Location	ATS Units Served	PSR	Coverage of PSR (NM)	SSR(A/C/S)	Coverage of SSR/ADS-B (NM)	ADS-B	ADS-C	SMR	A-SMGCS	PAR	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Danang/Sontra	Ho Chi Minh ACC Danang APP Hanoi ACC	I I	80 80	MI (A/C)	250						
Qui Nhon	Ho Chi Minh ACC Danang APP Hanoi ACC			MI (A/C)	250						
Ca Mau	Ho Chi Minh ACC			MI (A/C)	250						
Nghe An/Vinh	Hanoi ACC			MI (A/C)	250						
Tansan Nhat	Tansan Nhat APP Ho Chi Minh ACC Tansan Nhat TWR	I F	80	MI (A/C)	250	F<2011	I (2006)	F<2012	F<2012		F<2010