

TABLE CNS 4B

ATS AUTOMATION SYSTEMS

EXPLANATION OF THE TABLE

Column

- | | | | | | | | | | | | |
|--|---|--|--------------------------------|---|-----------------------------|------------------------|-----------------------------|----------------------|---------------------|----------------------------------|--|
| 1 | Name of State/Territory and location of ATS automation systems within the State | | | | | | | | | | |
| 2 | Air traffic services unit served by the ATS automation systems | | | | | | | | | | |
| | <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">AACC — Area approach control centre</td> <td style="width: 50%;">SMC — Surface movement control</td> </tr> <tr> <td>ACC — Area control</td> <td>TCU — Terminal control unit</td> </tr> <tr> <td>APP — Approach control</td> <td>TMA — Terminal control area</td> </tr> <tr> <td>EC — En-route centre</td> <td>TWR — Tower control</td> </tr> <tr> <td>FIS — Flight information service</td> <td></td> </tr> </table> | AACC — Area approach control centre | SMC — Surface movement control | ACC — Area control | TCU — Terminal control unit | APP — Approach control | TMA — Terminal control area | EC — En-route centre | TWR — Tower control | FIS — Flight information service | |
| AACC — Area approach control centre | SMC — Surface movement control | | | | | | | | | | |
| ACC — Area control | TCU — Terminal control unit | | | | | | | | | | |
| APP — Approach control | TMA — Terminal control area | | | | | | | | | | |
| EC — En-route centre | TWR — Tower control | | | | | | | | | | |
| FIS — Flight information service | | | | | | | | | | | |
| 3 | Surveillance sensor linked to the ATS automation systems. Four-letter FIR identifier, enclosed in parenthesis, shown for surveillance sensors outside the FIR. | | | | | | | | | | |
| 4 | Radar data processing system | | | | | | | | | | |
| 5 | Flight data processing system | | | | | | | | | | |
| 6 | Minimum safe altitude warning system | | | | | | | | | | |
| 7 | Automatic dependent surveillance | | | | | | | | | | |
| | <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">ADS B — Automatic dependent surveillance broadcast</td> <td style="width: 50%;"></td> </tr> <tr> <td>ADS C — Automatic dependent surveillance contract</td> <td></td> </tr> </table> | ADS B — Automatic dependent surveillance broadcast | | ADS C — Automatic dependent surveillance contract | | | | | | | |
| ADS B — Automatic dependent surveillance broadcast | | | | | | | | | | | |
| ADS C — Automatic dependent surveillance contract | | | | | | | | | | | |
| 8 | Controller-pilot data link communications | | | | | | | | | | |
| 9 | ATS interfacility data link communications | | | | | | | | | | |
| 10 | Processing area of the radar data processing system in nautical miles | | | | | | | | | | |
| 11 | Number of ATS positions | | | | | | | | | | |

12 Remarks

Note.— The following codes are used in columns 4 to 11:

I — Required and implemented

X — Required but implementation 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” and “N”

> Year - Planned decommissioning year, to be used as appropriate in conjunction with “A” and “I”

State/Territory Location	ATS unit served	Data source	RDP	FDP	MSAW	ADS	CPDLC	AIDC	Processing area (NM)	Operator positions	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
AFGHANISTAN											
AUSTRALIA											
Adelaide	TCU TWR	Adelaide PSR/SSR Summertown SSR				**	**	F<2011	Maximum 2600x3000	5	** Available – not used
Brisbane	EC	Brisbane PSR/SSR Darwin SSR Tindal SSR Mt. Alma SSR Mt. Boyce SSR Mt. Hardgrave SSR Mt. Somerville SSR Oakey SSR Sydney PSR/SSR Tabletop Mt. SSR The Round Mountain SSR							Maximum 2600x3000 2600x3000	47	
Brisbane	Brisbane and Coolangatta TMA's TWR	Brisbane PSR/SSR Mt. Boyce SSR Mt. Hardgrave SSR Mt. Somerville SSR Oakey SSR				**	**	F<2011	Maximum 2600x3000	8	
Cairns	TCU TWR	Hanns Tableland SSR Redden Creek PSR/SSR				**	**	F<2011	Maximum 2600x3000	5	
Melbourne	EC	Brisbane PSR/SSR Darwin SSR Tindal SSR Mt. Alma SSR Mt Boyce SSR Mt. Hardgrave SSR Mt. Somerville SSR Oakey SSR Sydney PSR/SSR Tabletop Mt. SSR The Round Mountain SSR							Maximum 2600x3000	45	
Melbourne	Melbourne and Canberra TMA's TWRs	Gellibrand Hill PSR/SSR Adelaide SSR East Sale SSR Mt. Bobbara SSR Mt. Boyce SSR Mt. Macedon SSR Mt Majura SSR Sydney SSR Summer town SSR				**	**	F<2011	Maximum 2600x3000	10	
Perth	TCU	Perth PSR/SSR							Maximum		

State/Territory Location	ATS unit served	Data source	RDP	FDP	MSAW	ADS	CPDLC	AIDC	Processing area (NM)	Operator positions	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
	ACC										
Xiamen	APP ACC		2						1024x1024		
Zhanjiang	APP		2						1024x1024		
Zhengzhou	APP ACC		2						1024x1024		
Zhuhai	APP		2						1024x1024		
COOK IS.											
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA											
	APP ACC		1						Radius 200	6	
FIJI											
Nadi	ACC			1		ADSC-I ADSB-F<2010	1	1	250		
Suva/Nausori	APP/TWR					ADSB-F<2010					
FRENCH POLYNESIA (France)											
Tahiti	TWR APP ACC			2							
Tahiti	ACC					ADS-C <1998					
GUAM (United States)											
Anderson	ACC		2						200x200		
HONG KONG, China											
Hong Kong	APP ACC TWR		2	2		ADS-B<2013		1	250x250		AIDC in operational use with Sanya since Feb. 2007
INDIA											
Chennai	TWR APP ACC	Chennai PSR/MSSR	2	2	1	1	1			17	
Delhi	TWR APP ACC	Delhi PSR/MSSR	2	2	1	1	1			24	
Kolkata	TWR APP ACC	Kolkata PSR/MSSR	4	4	1	1	1			5	

State/Territory Location	ATS unit served	Data source	RDP	FDP	MSAW	ADS	CPDLC	AIDC	Processing area (NM)	Operator positions	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Mumbai	TWR APP ACC	Mumbai PSR/MSSR	2	2	1	1	1			21	
Bangalore	TWR APP	Bangalore PSR/MSSR	3	2	1					14	
Shamshabad (HIAL)	TWR APP ACC	Mumbai PSR/MSSR	2	2	1					20	
INDONESIA											
Bali	Bali ACC APP	N<2003	2						1024x1024	4	
Jakarta	Jakarta ACC APP Soekamo-Hatta TWR Jakarta FIC	1	2	2	1	1	1	N<2002	2048x2048	40	SSR (Banda Aceh/ Medan/Pekanbaru/ Tanjung Pinang/ Benjarmasin/ Yogyakarta/ Surabaya) Cengkareng MSSR will be connected to RDP F<2000
Medan	Medan ACC	F<2003	2								
Ujung Pandang	Ujung Pandang ACC APP	N<2003	2					N<2003	4036x4036	20	SSR(Balikpupen, Banjanhasin, Maiden, Surabaya, Bali, Waingapu, Kendar, Biak)
JAPAN											
Chubu	APP		2	2					70x70		
Fukuoka	APP		2	2					70x70		
Fukuoka	ACC		2	2					500x800		
Haneda	Tokyo APP		2	2					70x70		
Narita	APP		2	2					70x70		
Okinawa	Naha APP		2	2					360x700		
Osaka	APP		2	2					80x80		
Sapporo	ACC		2	2					500x700		
Tokyo	ACC		2	2					500x875		
KIRIBATI											
LAO PEOPLE'S DEMOCRATIC REPUBLIC											

State/Territory Location	ATS unit served	Data source	RDP	FDP	MSAW	ADS	CPDLC	AIDC	Processing area (NM)	Operator positions	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
MACAO, China											
Colanne	Macao TWR		2	2<2010					500x500	3	
MALAYSIA											
Kinabalu	ACC APP TWR		I	I	I				20 000x20 000	3	
Kuching	APP ACC TWR		I	I	I				20 00x20 00	3	
Langkawi	APP		I	I	I				20 00x20 00	1	
Subang	Kuala Lumpur ACC APP TWR		I	I	I	F<2002	F<2002		20 00x20 00	11	
MALDIVES											
MARSHALL IS.											
MICRONESIA (FEDERATED STATES OF)											
MONGOLIA											
MYANMAR											
Yangon	APP ACC		I	I	X				600x250	1 2	
NAURU											
NEPAL											
Kathmandu	APP		2<1997			ADS-C <2000					
NEW ZEALAND											
Auckland	Auckland ACC TWR		I	I	I	ADS-C I	I	I	5500x2500	3 3	
Christchurch	Christchurch ACC TWR Wellington		I	I	I				1024x1024	22 3 3	

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1	2	3	4	5	6	7	8	9	10	11	12
	TWR										
PAPUA NEW GUINEA											
Port Moresby	ACC		2	2<1999		ADS-C <2000			200 Radius		
PHILIPPINES											
Laoag	Manila ACC		2	2		ADS-C <TBA			1024x1024		
Mactan	APP		2								
Manila	APP		2			ADS-C <TBA			200x200		
Mt. Majic	Manila ACC		2	2		ADS-C <TBA			1024x1024		
Subic	APP		2			ADS-C <TBA			200x200		
Tagaytay	Manila ACC		2	2		ADS-C <TBA			1024x1024		
REPUBLIC OF KOREA											
Daegu or Incheon	ACC	8 PSRs/SSRs	3 <2001	3 <2001					Radius 200	6	
Gimhae	APP		2	2	1 (low altitude alert)				60x60	3	
Incheon	APP	2 PSRs/SSRs in Incheon 1 PSR/SSR in Gimpo	2	2	1				60x60	8	
Jeju	APP	PSR/SSR	2	2	1 (low altitude alert)				60x60	3	
SINGAPORE											
Singapore	ACC APP TWR		1	1	1	ADS-C - I	I	F<2012	1024x1024		
SOLOMON IS.											
SRI LANKA											
Colombo	ACC		2	2<TBA		ADS-C & B TBA			200 Radius		
THAILAND											
Bangkok	APP ACC	Bangkok SSR, Chiang Mai SSR,								4	Providing approach control services for

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1	2	3	4	5	6	7	8	9	10	11	12
		Ubon Ratchathani SSR, Surat Thani SSR, Phuket SSR, Suvarnbhumi SSR	2	2					1024x1024	9	airports at Samui, Ubon Ratchathani, Chiang Rai and Khon Kaen
Samut Prakan	Suvarnbhumi APP TWR Donmueang APP DonmueangTWR	Suvarnbhumi PSR/SSR	2	2					1024 X 1024	7 5 2 3	
Chiang Mai	APP TWR	Chiang Mai PSR/SSR	2	2					1024x1024	2 1	
Phuket	APP TWR	Phuket SSR	2	2					1024x1024	2 1	
Hat Yai	APP TWR	Hat Yai PSR>2010 Hat Yai SSR<2010	2	2					1024x1024	2 1	
Phitsanulok	APP TWR	Phitsanulok PSR	2	2					256 X256	2 1	
Hua Hin	APP TWR	Hua Hin PSR	2	0					256 X256	2 1	
TONGA											
UNITED STATES											
Hilo	APP TWR		2						60x60		
Honolulu	ACC		2	2					500x500		
Honolulu	APP TWR		2						60x60		
VANUATU											
VIET NAM											
Ho Chi Minh	ACC		2	2	I	ADS-C I	I		1024x1024	16	
Hanoi	ACC		2	2	I				1024x1024	8	