



International Civil Aviation Organization

**THE SECOND MEETING OF AERONAUTICAL COMMUNICATION SERVICE (ACS) IMPLEMENTATION CO-ORDINATION GROUP OF APANPIRG (ACSICG/2)**

Bangkok, Thailand, 20 - 22 May 2015

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**Agenda Item 5: Review States' ATN/AMHS Implementation Status, Transition and Operational Issues**

**AMHS IMPLEMENTATION PLANNER**

(Presented by India)

**SUMMARY**

This paper reviews and updates ATN/AMHS implementation planner

**Strategic Objectives:**

A: Safety

C: Environmental Protection and Sustainable Development of Air Transport

**Global Plan Initiatives:**

GPI-17 Data link applications

GPI-22 Communication infrastructure

**1. INTRODUCTION**

1.1 The AMHS implementation planner maintained by ACSICG is being regularly updated based on the inputs received from the member states.

**2. DISCUSSION**

2.1 The last update of the planner was carried out during ACSICG/1 and based on the inputs the planner was updated in the month of May 2014.

2.2 Most of the BBIS circuits have been commissioned or are in final stage of commissioning due to active co-ordination amongst the states.

2.3 The progress of implementation with respect to BIS states has been slow and in some cases the implementation plan of states is not available.

2.4 To ensure completion of entire AMHS network in Asia/PAC region, states are requested to expedite the AMHS connectivity and commence operational trials.

2.1. The states who have already implemented the AMHS system and established connectivity with other states may share their experiences and constraints faced during the implementation. This will enable other states to overcome these issues and ensure smooth implementation.

3. Updated planner as per the feedback provided is enclosed.

**4. ACTION BY THE MEETING**

4.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) urge states to provide realistic target dates for the AMHS implementation at their end for early establishment of the circuits and AMHS network in Asia/Pac region.

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Interconnection, Connected to router of: Administration (Location of Router)	Stage	BBIS										Stage	Interconnection, Connected to router of: Administration (Location of Router)	Remarks	
		Australia	China	Hong Kong, China	India	Fiji	Japan	Singapore	Thailand	USA	Phillipines (Manila)				
		(Brisbane)	(Beijing)	(Hong Kong)	(Mumbai)	(Nadi)	(Fukuoka)	(Singapore)	(Bangkok)	(Salt Lake City / Atlanta)					
Australia (Brisbane)	A					Completed	Q3/17	Q4/14		Q2/13		A			
	B					Q3/12	Q4/17	Q4/14		Q2/13		B	Australia		
	C					Q2/13	Q1/18	Q4/14		Q3/13		C	(Brisbane)		
	D					Q3/14 Completed	Q2/18	Q1/15		Q3/17(After CRV)		D			
China (Beijing)	A			Q3/10	Q1/11		Q3/16		Q2/14			A			
	B			Q3/10	Q2/11		Q4/16		Beijing to Cfm			B	China		
	C			On-going	pre-operational trials completed July/13 & Aug 14		Q1/17		Beijing to Cfm			C	(Beijing)		
	D			Q1/16	Q2/15		Q2/17		Beijing to Cfm			D			
Hong Kong, China (Hong Kong)	A		Q3/10				Q2/16		Q1/13		Q1/15	A			
	B		Q3/10				Q3/16		Q4/12		Q2/15	B	Hong Kong, China		
	C		On-going				Q3/16		Q2/14		Q2/15	C	(Hong Kong)		
	D		Q1/16				Q4/16		completed		Q4/15	D			
India (Mumbai)	A		Q1/11					Q3/09	Q2/13			A			
	B		Q2/11					Q4/09	Q2/12			B	India		
	C		pre-operational trials completed July/13 & Aug/14					Q4/09	Q3/13			C	(Mumbai)		
	D		Q2/15					Completed	Q3/14 Completed			D			
Fiji (Nadi)	A	Completed								Completed		A			
	B	Q3/12								Completed		B	Fiji		
	C	Q2/13								Completed		C	(Nadi)		
	D	Q3/14 Completed								Completed		D			

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		Australia	China	Hong Kong, China	India	Fiji	Japan	Singapore	Thailand	USA	Phillipines (Manila)					
		(Brisbane)	(Beijing)	(Hong Kong)	(Mumbai)	(Nadi)	(Fukuoka)	(Singapore)	(Bangkok)	(Salt Lake City / Atlanta)						
Japan (Fukuoka)	A	Q2/17	Q2/16	Q2/16				Q2/16		Q3/00 Renewal AMHS Q2/15		A		Note : Japan has plans to install a new AMHS system in 2015 and start testing the sytem initially with FAA and then schedule connectivity with other BBIS a nd Bis countries.		
	B	Q3/17	Q3/16	Q3/16				Q3/16		Q4/04 Renewal AMHS Q3/15		B	Japan			
	C	Q3/17	Q3/16	Q3/16				Q3/16		Q4/04 Renewal AMHS Q3/15		C	(Fukuoka)			
	D	Q4/17	Q4/16	Q4/16				Q4/16		Completed Renewal AMHS Q4/15		D				
Singapore	A	Q4/14			Q3/09		Q2/16		Q2/13		Q1/15	A				
	B	Q4/14			Q4/09		Q3/16		Q2/13		Q2/15	B	Singapore			
	C	Q4/14			Q4/09		Q3/16		Q3/13		Q2/15	C	(Singapore)			
	D	Q1/15			Completed		Q4/16		completed		Q4/15	D				
Thailand (Bangkok)	A		Q2/14	Q1/13	Q2/13			Q2/13				A				
	B		Beijing to Cfm	Q4/12	Q2/12			Q2/13				B	Thailand			
	C		Beijing to Cfm	Q2/14	Q3/13			Q3/13				C	(Bangkok)			
	D		Beijing to Cfm	completed	Q3/14 Completed			completed				D				
USA (Salt Lake City / Atlanta)	A	Q2/13				Completed	Completed Renewal AMHS Q2/15					A				
	B	Q2/13				Completed	Completed Renewal AMHS Q3/15					B	USA			
	C	Q3/13				Completed	Completed Renewal AMHS Q3/15					C	(Salt Lake City / Atlanta)			
	D	Q4/13				completed	Completed Renewal AMHS Q4/15					D				

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		(Brisbane)	(Beijing)	(Hong Kong)	(Mumbai)	(Nadi)	(Fukuoka)	(Singapore)	(Bangkok)	(Salt Lake City / Atlanta)					
Phillipines	A			Q1/15				Q1/15				Phillipines			
	B			Q2/15				Q2/15							
	C			Q2/15				Q2/15							
	D			Q4/15				Q4/15							
Bahrain	A							Q3/13				A	Bahrain		
	B							N/A				B			
	C							Completed				C			
	D							Q1/15				D			
Europe	A							TBD				A	Europe		
	B							TBD				B			
	C							TBD				C			
	D							TBD				D			
Italy	A									Q1/14		A	Italy		
	B									Q2/14		B			
	C									Q3/14		C			
	D									Q1/15		D			
Kuwait	A		TBD									A	Kuwait		
	B		TBD									B			
	C		TBD									C			
	D		TBD									D			
Russian Federation	A		TBD					Q3/17				A	Russian Federation		
	B		TBD					Q4/17				B			
	C		TBD					Q1/18				C			
	D		TBD					Q2/18				D			
South Africa	A	TBD										A	South Africa		
	B	TBD										B			
	C	TBD										C			
	D	TBD										D			
United Kingdom	A							Q4/11				A	United Kingdom		
	B							N/A				B			
	C							Q1/12				C			
	D							Completed				D			
Indonesia (Jakarta)	A	Q1/14						2009				A	Indonesia (Jakarta)		
	B	Q2/14						Completed				B			
	C	Q3/14						Completed				C			

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		(Brisbane)	(Beijing)	(Hong Kong)	(Mumbai)	(Nadi)	(Fukuoka)	(Singapore)	(Bangkok)	(Salt Lake City / Atlanta)						
	D	Q2/15						Q4/14				D				
New Zealand (Christchurch)	A	Q3/17(After CRV)								Q1/14		A				
	B	Q3/17(After CRV)								N/A		B	New Zealand			
	C	Q3/17(After CRV)								Q2/14		C	(Christchurch)			
	D	Q3/17(After CRV)								Q1/15		D				
Timor Leste (Dili)	A	UA										A				
	B	UA										B	Timor Leste			
	C	UA										C	(Dili)			
	D	Completed										D				
Nauru (Nauru)	A	UA										A				
	B	UA										B	Nauru			
	C	UA										C	(Nauru)			
	D	Completed										D				
Papau New Guinea (Port Moresby)	A	UA										A				
	B	UA										B	Papau New Guinea			
	C	UA										C	(Port Moresby)			
	D	Completed										D				
Solomon Islands (Honiara)	A	UA										A				
	B	UA										B	Solomon Islands			
	C	UA										C	(Honiara)			
	D	Completed										D				
Vanuatu (Port Vila)	A	UA										A				
	B	UA										B	Vanuatu			
	C	UA										C	(Port Vila)			
	D	Completed										D				
DPR Korea (Pyongyang)	A		TBD									A				
	B		TBD									B	DPR Korea			
	C		TBD									C	(Pyongyang)			
	D		TBD									D				

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		(Brisbane)	(Beijing)	(Hong Kong)	(Mumbai)	(Nadi)	(Fukuoka)	(Singapore)	(Bangkok)	(Salt Lake City / Atlanta)						
Macao, China (Macao)	A		Q1/09	Q3/09								A				
	B		Q1 - Q2/09	Q3 - Q4/09								B	Macao, China			
	C		Q1 - Q2/09	Q3 - Q4/09								C	(Macao)			
	D		Q4/13	Completed								D				
Mongolia (Ulaanbaatar)	A		TBD									A				
	B		TBD									B	Mongolia			
	C		TBD									C	(Ulaanbaatar)			
	D		TBD									D				
Myanmar (Yangoon)	A		TBD						Q2/14			A				
	B		TBD						Q2/14			B	Myanmar			
	C		TBD						Q3/14			C	(Yangoon)			
	D		TBD						Q4/14			D				
Nepal (Kathmandu)	A		Q2/12* No physical connection yet, testing through VSAT		Q4/12							A				
	B		Q3/12		Q2/13							B	Nepal			
	C		Q4/12		Q1/14							C	(Kathmandu)			
	D		Q2/13		Q2/14 Completed							D				
Pakistan (Karachi)	A		TBD		Q3/10							A				
	B		TBD		N/A							B	Pakistan			
	C		TBD		Q3/10							C	(Karachi)			
	D		TBD		Q2/15							D				
Republic of Korea (Seoul)	A		Q2/10				Q3/16					A				
	B		Q3/10				Q4/16					B	Republic of Korea			
	C		Q3-Q4/10				Q1/17					C	(Seoul)			
	D		Completed				Q2/17					D				
Vietnam (Ho Chi)	A			Q4/14				Q3/14	Q1/15			A				
	B			Q4/14				Q3/14	Q2/15			B	Vietnam			

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		(Brisbane)	(Beijing)	(Hong Kong)	(Mumbai)	(Nadi)	(Fukuoka)	(Singapore)	(Bangkok)	(Salt Lake City / Atlanta)				
Vietnam (Ho Chi Minh / Hanoi)	C			Q4/14				Q3/14	Q2/15			C	(Ho Chi Minh / Hanoi)	
	D			Q1/15				Q4/14	Q2/15			D		
Taipei	A			TBD				Q3/17				A	Taipei	
	B			TBD				Q4/17				B		
	C			TBD				Q1/18				C		
	D			TBD				Q2/18				D		
Bangladesh (Dhaka)	A				Q2/13				Q2/14			A	Bangladesh (Dhaka)	
	B				Q2/13				Q2/14			B		
	C				Q3/14				Q2/14			C		
	D				Q1/15 Completed				Q3/13			D		
Bhutan (Paro)	A				Plans not received							A	Bhutan (Paro)	
	B				Plans not received							B		
	C				Plans not received							C		
	D				Plans not received							D		
Kenya (Nairobi)	A				Q3/13							A	Kenya	
	B				Q4/13							B		
	C				Awaiting firm plans from Nairobi Q3/15							C		
	D				Awaiting firm plans from Nairobi Q4/15							D		
Oman (Muscat)	A				Q1/10							A	Oman (Muscat)	
	B				N/A							B		
	C				Q2/15							C		
	D				Q3/15							D		
Sri Lanka (Colombo)	A				Q4/14			Q4/14				A	Sri Lanka (Colombo)	
	B				N/A			Q4/14				B		
	C				Q1/15			Q4/14				C		
	D				Q3/15			Q4/14				D		
Kiribati (Tarawa)	A					UA						A	Kiribati (Tarawa)	
	B					UA						B		
	C					UA						C		
	D					Q3/15						D		



Interconnection, Connected to router of: Administration (Location of Router)	Stage	BBIS									Phillipines (Manila)	Stage	Interconnection, Connected to router of: Administration (Location of Router)	Remarks
		Australia	China	Hong Kong, China	India	Fiji	Japan	Singapore	Thailand	USA				
		(Brisbane)	(Beijing)	(Hong Kong)	(Mumbai)	(Nadi)	(Fukuoka)	(Singapore)	(Bangkok)	(Salt Lake City / Atlanta)				
New Caledonia (Noumea)	A					Q4/14						A		
	B					NA						B	New Caledonia	
	C					Q2/15						C	(Noumea)	
	D					Q3/15						D		
Tuvalu (Funafuti)	A					UA						A		
	B					UA						B	Tuvalu	
	C					UA						C	(Funafuti)	
	D					Q3/15						D		
Wallis Island (Wallis)	A					UA						A		
	B					UA						B	Wallis Island	
	C					UA						C	(Wallis)	
	D					Q3/15						D		
Brunei Darussalam (Brunei)	A							2015				A		
	B							2015				B	Brunei Darussalam	
	C							2015				C	(Brunei)	
	D							2015				D		
Malaysia (Kuala Lumpur)	A							2007	Q2/13			A		
	B							N.A.	NA			B	Malaysia	
	C							Completed	Q2/14			C	(Kuala Lumpur)	
	D							Q4/14	Q4/14			D	(Kuala Lumpur)	
Cambodia (Phnom Penh)	A								Q2/13			A	(Kuala Lumpur)	
	B								Q3/13			B	Cambodia	
	C								Q3/13			C	(Phnom Penh)	
	D								completed			D		
Lao PDR (Vientiane)	A								Q1/13			A		
	B								Q2/13			B	Lao PDR	
	C								Q2/14			C	(Vientiane)	
	D								Q4/14			D		
American Samoa (Pago Pago)	A									UA		A		
	B									UA		B	American Samoa	
	C									UA		C	(Pago Pago)	
	D									UA		D		
Marshall Islands	A									UA		A		
	B									UA		B	Marshall Islands	



