



INTERNATIONAL CIVIL AVIATION ORGANIZATION
TWELFTH MEETING ON THE IMPROVEMENT OF THE AIR TRAFFIC SERVICES IN THE
SOUTH ATLANTIC

(Sal, Cape Verde, 15 – 17 December 2004)

Agenda Item 3: Air Traffic Management

Results from AFI RVSM Stakeholders Coordination Meeting
(Go/Delay Coordination Meeting)
(Dakar, Senegal 18 – 19 November 2004)

(Presented by the Secretariat)

Summary

This paper contains the list of conclusions of the AFI RVSM Stakeholders Coordination Meeting (Go/Delay Coordination Meeting) which was held in Dakar from 18 to 19 November 2004.

References:

- RVSM/RNAV/RNP/TF/5 Meeting Report
- RVSM Stakeholders Coordination Meeting Report.

1. The AFI RVSM Stakeholders Coordination Meeting (Go/Delay Coordination Meeting) was held in Dakar from 18 to 19 November 2004.

2. The meeting endorsed a number of conclusions from the Fifth Meeting of RVSM/RNAV/RNP (Dakar, 16-17 November 2004) which appear at the Attachment to this working paper.

Action by the Meeting

3. The meeting is invited to take note of the conclusions and the AFI Strategy/Action Plan at the **Appendices A** and **B** respectively and take appropriate action.

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**Conclusions of the Fifth RVSM/RNAV/RNP TF MEETING
(Dakar, 16 – 17 November 2004)**

Number	Title
Conclusion 5/1:	<p>Safety assessment data</p> <p>That States continue to provide the required safety assessment data to ARMA on monthly basis initially for a period of eight months.</p>
Conclusion 5/2:	<p>Civil/military coordination</p> <p>That in order to ensure the safe and coordinated implementation of RVSM in the AFI Region, States should ensure that the military aviation authorities are fully involved in the planning and implementation process.</p>
Conclusion 5/3:	<p>Nomination of a National RVSM programme manager</p> <p>That States providers who have not done so, as a matter of urgency, nominate, a National RVSM Programme Manager who will be responsible for ensuring that the proper mechanisms are put in place for the safe implementation of the RVSM programme and will also act as the focal point or contact person.</p>
Conclusion 5/4	<p>Reporting of data for monitoring and/or carrying out safety assessment</p> <p>That:</p> <ul style="list-style-type: none"> a) All States institute procedures for reporting of data, incidents and conditions necessary for performing the collision risk calculations prerequisite for RVSM implementation to the AFI monitoring agency. The data will include, but not necessarily be limited to: <ul style="list-style-type: none"> i) Height deviations of 300 ft or more. ii) Total number of IFR movements for each month. iii) The average time per movement spent in the level band FL 290 to FL 410. iv) ATC coordination failures. v) Turbulence; and vi) Traffic data. b) All States institute procedures for reporting to the AFI monitoring agency data, incidents and conditions necessary for performing the collision risk calculations prerequisite for RVSM implementation; and c) GMU will be used for height monitoring in AFI Region which will be coordinated by the ARMA.

Number	Title
Conclusion 5/5:	<p>Implementation of RVSM in the AFI Region</p> <p>That:</p> <ul style="list-style-type: none"> a) All RVSM implementation preparation works (safety, assessment, training) be done taking into consideration the FL band between 290 and 410 inclusive; b) RVSM implementation date of 20 January 2005 be postponed by one year to facilitate States/Operators to complete their required action Plan. c) Implementation of RVSM in the AFI Region be harmonized and coordinated within the AFI Region as well as the adjacent Regions.
Conclusion 5/6:	<p>Training of all personnel involved with the implementation of RVSM in the AFI Region</p> <p>That:</p> <ul style="list-style-type: none"> a) Seminars be organized in the Region for training of air traffic services personnel in the RVSM field; and b) States having difficulties in implementing RVSM implementation programme, may either individually or in group explore the possibility of seeking outside expertise. c) On site training be conducted to expedite the training process.
Conclusion 5/7:	<p>Guidance material for Airworthiness and Operational Approval</p> <p>That States in the AFI Region be urged to include in their national legislation and regulations the Airworthiness and Operational Approval process for aircraft and operators intending to operate within a designated RVSM airspace based on provisions of ICAO Annex 6 Part 1 Chapt 7 para. 7.2.3 and the guidance material contained in JAA Temporary Guidance Leaflet (TGL) N°6.</p>
Conclusion 5/8:	<p>Enforcement in national legislation</p> <p>That:</p> <p>States which have not done so, take the appropriate measures in order:</p> <ul style="list-style-type: none"> a) to publish as a matter of urgency, an AIC informing the users of their intention to implement RVSM; and

Number	Title
	<p>b) to include the necessary provisions in their national legislation (AIPS).Guidance material for Airworthiness and Operational Approval</p>
Conclusion 5/9:	<p>Amendment to ICAO Doc. 7030</p> <p>That ICAO process as soon as possible an amendment proposal to the AFI SUPPs (Doc 7030) to include relevant provisions for RVSM implementation.</p>
Conclusion 5/10:	<p>Funding of the RVSM implementation programme</p> <p>That National Governments, Regulatory bodies, operators, service providers and other stakeholders be granted budgetary allocations for acquisitions and other activities necessary for ensuring that all the requirements are met in a timely manner in order to safely implement RVSM in the AFI Region.</p>
Conclusion 5/11:	<p>AFI RVSM Strategy/Action Plan</p> <p>That the updated RVSM Strategy/Action Plan at Appendix B to the report be circulated to States for action.</p>
Conclusion 5/12:	<p>Aircraft/Operators readiness survey</p> <p>That the results of ICAO/ARMA surveys be updated and presented at the RVSM TF/6 meeting for consideration.</p>
Conclusion 5/13:	<p>Monitoring of Height Deviations</p> <p>That:</p> <p>a) ICAO request the States of Botswana, Cape Verde, Egypt, Ghana, Kenya, Nigeria, South Africa, Spain, Tanzania and Tunisia to establish at the ACC where radar is implemented, a unit to conduct monitoring of aircraft height deviations in the AFI RVSM airspace; and</p> <p>b) The data collected at a) above be forwarded to AFI RMA for action.</p>
Conclusion 5/14:	<p>Organization of AFI airspace in respect of AFI RVSM airspace</p> <p>That the ATS/SG of APIRG consider as one of its tasks the issue of restructuring of the AFI Region airspace in light of the introduction of RVSM.</p>
Conclusion 5/15:	<p>Campaign to enhance RVSM Implementation</p> <p>That sensitisation of Civil Aviation CEO/DGs by Regional Directors of ICAO and IATA on importance of RVSM and the need for its early implementation in the AFI Region be accorded priority during ICAO and IATA missions to States.</p>

Number	Title
Conclusion 5/16:	<p>AFI Safety Policy</p> <p>That the States expedite the publication of national RVSM safety policy using the sample at Appendix C to the report.</p>
Conclusion 5/17:	<p>National Safety Plan</p> <p>That State expedite the publication of their National Safety Plan using the sample at Appendix D to the report.</p>
Conclusion 5/18:	<p>Strategic Lateral Offset Procedures</p> <p>That the APIRG ATS Sub-Group address the issue relating to Strategic Lateral Offset Procedures taking into account the work being done by the ICAO Separation and Airspace Safety Panel (SASP).</p>
Conclusion 5/19:	<p>State Readiness Assessment:</p> <p>That ICAO urge States which have not done so, to provide the State RVSM readiness assessment using the attached form at Appendix E to the report.</p>
Conclusion 5/20:	<p>Exchange of RVSM data:</p> <p>That ASECNA forward to AFI RMA the RVSM data collected from their member States.</p>
Conclusion 5/21:	<p>Exchange of RVSM data:</p> <p>That States send the RVSM data to ARMA in a timely manner.</p>
Conclusion 5/22:	<p>AFI RVSM Functional Hazard Assessment meetings:</p> <p>That the ARMA arrange for two FHA Sessions before March 2005.</p>
Conclusion 5/23:	<p>Functional Hazard Assessment</p> <p>That ARMA provide the FHA and all Safety objectives and requirements to ICAO for inclusion in the AFI Pre-Implementation Safety case.</p>
Conclusion 5/24:	<p>Collision Risk Assessment:</p> <p>That RMA provide the CRA to ICAO for inclusion in the AFI Pre-Implementation Safety Case.</p>
Conclusion 5/25:	<p>Continuation of AFI RVSM Programme Office (ARPO)</p> <p>That the AFI RVSM Programme Office (ARPO) be continued until the Pre-Implementation Safety Case (PISC) documents is completed.</p>

**ACTION PLAN FOR IMPLEMENTATION OF
REDUCED VERTICAL SEPARATION MINIMA
IN THE AFRICA-INDIAN OCEAN REGION**

18 November 2004

Prepared by the AFI RVSM Program Office [ARPO]

AFI RVSM IMPLEMENTATION ACTION PLAN					
ID	Description	Target Date	Status	Resources	Remarks
Program Management					
1	Agree on structure of TF to enable efficient handling of specialist technical tasks	21/11/03	Completed	Secretariat Support Team: ASECNA, SA, IATA, Nigeria, Tunisia	Completed 21 Nov 2003
2	RVSM SIP Report	21/11/03	Completed	RVSM/ITF2	Completed 21 Nov 2003
3	RVSM/RNAV/RNP TF/2 Meeting	21/11/03	Completed	RVSM/ITF2	Completed 21 Nov 2003
4	Identify resources for performing specialist technical tasks	21/11/03	Completed	RVSM/ITF2	Completed 21 Nov 2003
5	Investigate methods of funding any outside assistance required	31/03/04	Completed	ICAO/IATA	To address future funding as/when required
6	Finalize the RVSM Implementation Strategy/Action Plan	31/12/03	Completed	ICAO	Sent 05 Dec 2003
7	Circulate RVSM Implementation Strategy/Action Plan for comments from States	5/01/04	Completed	ICAO	Sent 05 Dec 2003
8	(a) Doc 7030 amendment Proposal (b) Circulate proposal to States © ANC Approval	01/06/04 15/06/04 15/11/04	Completed Completed In Progress	ICAO ICAO ICAO	* Completed 31 May * Circulated to States - T/Date for comments 15 Aug
9	States comments on RVSM implementation Strategy/Action Plan	31/-3/04	Completed	States, ICAO RVSM/ITF3	Completed 31 March 04
10	Regional RVSM informational Website	31/03/04	Completed	ICAO/IATA/States	Completed 1 Feb 04
11	RVSM Seminar/RVSM ITF3	19-22/04/04	Completed	ICAO	Completed on Time
12	RVSM Seminar /RVSM/ITF/4	26-30/07/04	Completed	ICAO/RVSM ITF/4	Completed on Time
13	Coordination and harmonization of procedures with adjacent Regions	Ongoing	Ongoing	ICAO and AFI RMA	Continuous contact
14	States to send AIC re RVSM Implementation intention	31/05/04	In	ICAO/States	

AFI RVSM IMPLEMENTATION ACTION PLAN					
ID	Description	Target Date	Status	Resources	Remarks
			Progress		
15	Confirm target AIRAC implementation date (AIP Supplement to be published)	15/11/05	In progress	ICAO/States	TF8 to review requirement
16	Regional RVSM implementation status reports	Ongoing	Ongoing	ICAO	Monthly
17	State Readiness Assessment	May 2005	In Progress	ICAO	TF/6
18	RVSM/ARTF/5	15-16/11/04	Completed	ICAO/RVSM ITF/5	
19	Go/Delay Meeting	17-19/11/04	Completed	Meeting all Stakeholders	
20	RVSM/ARTF/6	May 2005	In Progress	ARTF	
21	RVSM/ARTF/7	August 2005	In Progress	ARTF	
22	RVSM/ARTF/8	October 05	In Progress	ARTF	
23	Go/Delay Meeting 2005	October 05	In Progress	Meeting all Stakeholders	
24	Publish Trigger NOTAM	October 05	In Progress	States	TF8 to confirm date
	Aircraft Operations and Airworthiness				
25	Regional OPS/Airworthiness RVSM Guidance Doc	21/11/03	Completed	ICAO	Sent 05 Dec 2003
26	Develop regional Pilot Training RVSM Guidance Material	30/04/04	Completed	IATA	
27	Aircraft Operational approval process guidelines	31/05/04	Completed	States, ICAO	
28	Aircraft RVSM Approval Survey	May 2005	In progress	ICAO/States	
29	Monitor aircraft/operator approval process	May 2005	In progress	ARMA/ICAO	
	Air Traffic Management				
30	National RVSM plan	31/03/04	Completed	States, ICAO	Sent to States – 05/05/04

AFI RVSM IMPLEMENTATION ACTION PLAN					
ID	Description	Target Date	Status	Resources	Remarks
31	Regional ATC OPS Manual	31/03/04	Completed	ICAO	Sent to States – 05/05/04
32	Determine the limits of RVSM airspace	30/06/04	Completed	States/ICAO	TF4 to verify limits
33	Regional ATC Training Program & Guidance Material	31/03/04	Completed	South Africa/ ASECNA / Nigeria	
34	Simulations to assess ATC workload and possible need for airspace/air route Sector changes	31/05/05	In Progress	States	In National RVSM Plan
36	Identify issues to be addressed in Letters of Agreement	31/05/04	Completed	ICAO/States	
37	Military aviation preparation	31/05/05	In progress	States	In National RVSM Plan
38	National RVSM Regulatory Material	31/01/05	In progress	States, ICAO	To Identify requirements
39	States assess the impact of RVSM implementation on controller automation systems and plan for upgrades/ modifications	31/05/05	In progress	States	In National Plan
40	Collect weather and turbulence data for analysis	31 /05/05	In progress	ARMA ICAO/States	TF/6
41	States to conduct local ATC RVSM training	31/10/05	In progress	States	TF/6
	RVSM Safety Assurance				
42	Conduct preliminary data collection and readiness assessment	31/05/05	In progress	ARMA/ICAO	Ongoing
43	Develop AFI RVSM Safety Policy	30/06/04	Completed	RVSM/ARTF4	
44	Develop National RVSM Safety Plan	30/06/04	Completed	ICAO	
45	RVSM Functional Hazard Assessment	31/04/05	In progress	ARMA/ICAO	Subject data from States
46	Validate Functional Hazard Assessment	31/05/05	In progress	RVSM ARTF/6	TF/6
47	RVSM Collision Risk Assessment	30/06/05	In progress	ARMA/ICAO	
48	Validate Collision Risk Assessment	31/08/05	In progress	RVSM ARTF/7	TF/7
49	Develop AFI Pre-Implementation Safety Case	30/08/05	In Progress	ARPO	
50	AFI Pre-Implementation Safety Case: ANC Approval	31/09/05	In	ARPO/ANC	ANC Requirement

AFI RVSM IMPLEMENTATION ACTION PLAN					
ID	Description	Target Date	Status	Resources	Remarks
			Progress		
	Monitoring Agency				
51	Evaluate options for setting up AFI RMA	21/11/03	Completed	RVSM/ITF2	Completed on time
52	Identify an AFI RMA	21/11/03	Completed	RVSM/ITF/2	Completed on time
53	Establish an AFI RMA.	31/03/04	Completed	South Africa/ICAO	Completed on time
54	Validate implementation readiness assessment	May 2005	In Progress	ICAO/ARMA	Ongoing

DRAFT SCHEDULE FOR AFI RVSM PRE-IMPLEMENTATION SAFETY CASE														
	Nov.	Dec. 04	Jan 05	Feb	March	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec
FHA				2nd Meeting	3rd Meeting	Final Report	Review By TF							
CRA	State Data collected by ICAO	CRA Report												
Pre-Implementation Safety Case (PISC)									Pre-Implementation Safety Case	PISC Review by ARTF	PISC Review by ANC			
ARTF							ARTF/6			ARTF/ 7		ARTF/8		
GO/Delay												GO/ Delay		