

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

22 NOVEMBER 2003

Prepared by the APIRG RVSM Implementation Task Force

AFI STRATEGY/ACTION PLAN FOR RVSM IMPLEMENTATION

EXECUTIVE SUMMARY

1 INTRODUCTION

It will be recalled that the Air Navigation Commission in approving APIRG Conclusion 13/85 relating to initial implementation of RVSM in the AFI Region, recommended that the Commission, prior to determination of a Target implementation date, make an Implementation Strategy available for approval. APIRG 14 mandated the AFI RVSM Task Force to develop a strategy for the implementation of RVSM in the AFI Region.

2 OBJECTIVES

To implement RVSM in the AFI Region the following objectives must be achieved:

- Develop an AFI RVSM Implementation Plan;
- Develop an AFI RVSM Implementation Program

3 RVSM IMPLEMENTATION PLAN

An AFI RVSM Implementation Plan shall be developed to set out the scope of the work needed to safely implement RVSM at the earliest realistic date, in an efficient manner and taking into account RVSM plans in adjacent Regions. Work completed by the AFI RVSM Task Force (ARTF) will be incorporated in the AFI Plan (See Appendix A)

4 RVSM PROGRAM MANAGEMENT

Successful and timely implementation of RVSM will be dependent on the establishment of a Program Office to manage the RVSM Program and appointment of dedicated staff with the required expertise. The Program Office will act as the AFI RVSM Implementation focal point, report to the ARTF and provide guidance to National Program Managers, who will in-turn report to the Program Office. (See Attachment B).

5 RVSM Program Management Plan

The AFI RVSM Task Force (ARTF) should direct the development of an RVSM Program Plan to implement the RVSM Plan. This should be accomplished in consultation with National Program Managers and other RVSM stakeholders. The Program Office shall develop a detailed Program Management Plan, which will provide a baseline and communication tool against which to monitor the cost, schedule and performance aspects of the RVSM Program. (See Attachment B)

5.1 National RVSM Program Manager (NPM)

States shall appoint National RVSM Program Manager. These managers will be responsible for the day-to-day management of the National RVSM Program, coordinate RVSM activities at national level and provide required inputs to the Program Office.

5.2 RVSM Program Structure

The RVSM Program will include many stakeholder activities up to and including the implementation of RVSM, as well as activities following implementation. Identified activities should be developed into a Work Schedule. The Work Schedule can be summarized into five sub-programs. (*See Appendix B.*)

5.2.1 Sub-Program 1 - RVSM Program Management.

The main deliverable is the RVSM Plan and full Stakeholder commitment to the implementation of RVSM at the agreed date. It includes program management activities throughout the required period, in particular progress monitoring and progress/status reports to States and the ARTF.

5.2.2 Sub-Program 2 - Aircraft Operations and Airworthiness

To ensure timely RVSM approvals for Aircraft Operations and Airworthiness by States, technical, operational and regulatory directives shall be available for airspace users. It will also assist and monitor the approval process. Aircraft height-keeping accuracy must be verified through the operation of a height-monitoring infrastructure system. The monitoring program will provide the technical data to confirm that safety objectives are met.

5.2.3 Sub-Program 3 – Air Traffic Management (ATM)

This sub-program will ensure that all ATS provider units are well prepared and ready for the introduction of RVSM on the agreed date. Tasks should be identified to allow States to make airspace restructuring, introduce RVSM Procedures. Modify ATC systems, provide ATC Training and resolve legislative issues, etc.

5.2.4 Sub-Program 4 - RVSM Safety Assurance

RVSM safety assurance constitutes the safety assessments necessary prior to implementation, just after implementation and at the end of the RVSM Program to ensure that the agreed safety objectives are met. This includes amongst others the development of an agreed RVSM safety policy, and identifies the possible need for States to prepare RVSM safety cases.

5.2.5 Sub-Program 5 - Regional Monitoring Agency (RMA)

It is recognised that there is a requirement for monitoring of aircraft height keeping performance as part of RVSM implementation program. An AFI Regional Monitoring Agency needs to be established by the AFI RVSM Task Force to provide Safety Oversight Services in connection with implementation and continued safe use of RVSM within the designated airspace.

6 RVSM Program Schedule

A schedule for all the activities must be developed in conjunction with the various stakeholders and, in particular, the RVSM National Program Managers (NPM). The schedule will serve as the benchmark against which the program progress will be assessed. (See *Attachment C*)

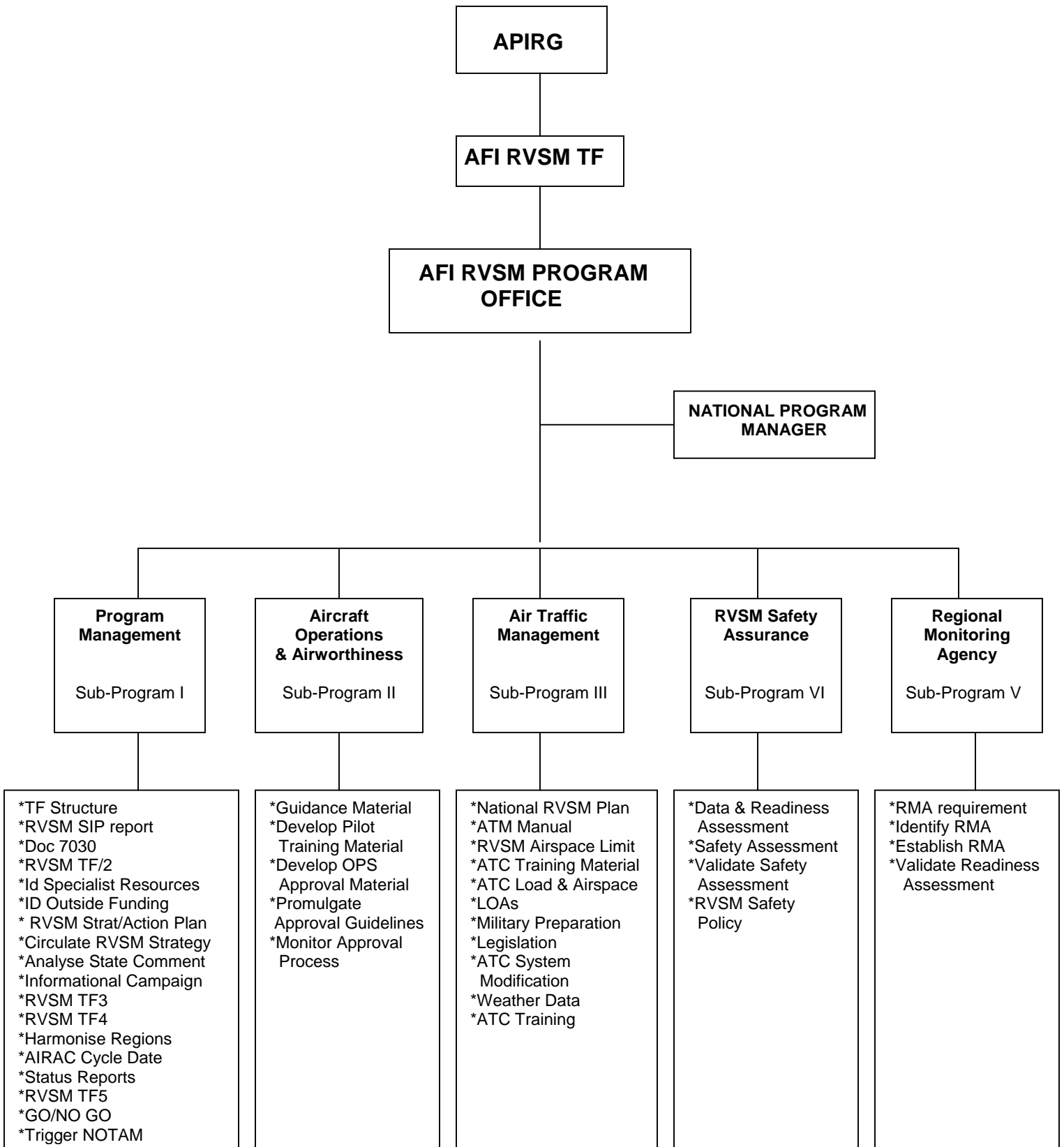
7 AFI RVSM COST

It is the responsibility of stakeholders to identify and gain approval for their own budget and resource requirements.

8 CONCLUSION

Implementation planning should be progressed as a priority item. A program for implementation in the earliest possible time frame should be actively pursued, with implementation planning being carried out by the ARTF under the direction of APIRG. The RVSM Program should be fully coordinated by the Program Office for the entire area of future application, and should take full account of the work carried out by the ARTF.

AFI RVSM PROGRAM



DRAFT SCHEDULE: AFI RVSM IMPLEMENTATION

ID	AFI RVSM PROJECT	2004												2005				
		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan		
1	PROGRAM MANAGEMENT	[Red shaded bar spanning all months]																
2	Task Force Structure	[Blue bar]																
3	RVSM SIP Report	[Blue bar]																
4	Develop Doc 7030	[Blue bar]																
5	RVSM ITF/2 Meeting	[Blue bar]																
6	Identify Resources	[Blue bar]																
7	Outside Funding Assistance	[Blue bar]																
8	RVSM Strategy/Action Plan	[Blue bar]																
9	Circulate RVSM Strategy/Action Plan	[Blue bar]																
10	Analyse State Comments		[Blue bar]															
11	Develop Informational Campaign		[Blue bar]															
12	RVSM Seminar/RVSM ITF/3						[Blue bar]											
13	RVSM ITF/4 Meeting									[Blue bar]								
14	Harmonize with adjacent Regions		[Blue bar]															
15	Confirm AIRAC Target Date		[Blue bar]															
16	Regional Status Reports			[Blue bar]														
17	RVSM ITF/5																[Blue bar]	
18	GO/NO GO Decision																	[Blue bar]
19	Publish Trigger NOTAM																	[Blue bar]
20	AIRCRAFT OPS & AIRWORTHINESS	[Red shaded bar spanning all months]																
21	Develop Guidance Material	[Blue bar]																
22	Develop Pilot Training Material	[Blue bar]																
23	Develop OPS Approval Manual		[Blue bar]															
24	Promulgate Approval Guidelines		[Blue bar]															
25	Monitor Approval Process		[Blue bar]															

ID	i	AFI RVSM PROJECT	2004														2005		
			Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan		
26	i	AIR TRAFFIC MANAGEMENT																	
27	i	Develop National Plan																	
28	i	Develop ATM Manual																	
29	i	Determine RVSM Airspace Limits																	
30	i	Develop ATC Training Material																	
31	i	Evaluate ATC Load & Airspace Changes																	
32	i	Identify LOA requirements																	
33	i	Military Aviation Preparation																	
34	i	Develop National RVSM Legislation																	
35	i	Evaluate ATC System Modifications																	
36	i	Collect Weather Data																	
37	i	Conduct ATC Training																	
38	i	RVSM SAFETY																	
39	i	Data & Readiness Assessment																	
40	i	Complete Safety Assessment																	
41	i	Validate Safety Assessment																	
42	i	Develop RVSM Safety Policy																	
43	i	REGIONAL MONITORING AGENCY																	
44	i	Evaluate RMA Requirement																	
45	i	Identify RMA																	
46	i	Establish AFI RMA																	
47	i	Validate Readiness Assessment																	