



AP/ATM/6  
WP/05  
10/09/03

**International Civil Aviation Organization  
UNDP/ICAO Regional Project RLA/98/003  
Transition to CNS/Atm Systems in the CAR and SAM Regions**

**Sixth Meeting/Workshop of ATM authorities and planners in the CAR/SAM Regions for  
RVSM, RNAV routes and RNP Implementation (AP/ATM/6 RVSM-RNAV-RNP)**

(San Jose, Costa Rica, 29 September to 3 October 2003)

**Agenda Item 3: Review of the issues related with RVSM Implementation in the  
CAR/SAM Regions**

**Tracking table for the Safety and Airspace Monitoring (SAM), Air traffic Control  
Management (ATC) and Aircraft Operations and Airworthiness (OPS/AIR) Areas**

(Working Paper presented by the Secretariat)

**Summary**

This working paper presents a tracking table for the safety and airspace monitoring (SAM), air traffic control management (ATC) and aircraft operations and airworthiness (OPS/AIR) areas for its adoption by the meeting, if such were the case.

**1. Background**

1.1 While it should be recognized that RVSM implementation will provide a great number of advantages, it should also be recognized that the RVSM implementation programme for the CAR/SAM Regions is requiring a great effort by all the acting parts, either service providers through the modification of equipment, documentation and, procedures, development, training of personnel; the aircraft operators through the modification of aircraft, airworthiness and operations approval, etc.

1.2 This situation means that, in order to implement and put this programme in operation, enough financial resources being invested by all the community are required.

2. **Discussion**

2.1 In view of these important investments, States and International Organizations must be aware of the fact that any delay in RVSM implementation will have a regional impact with the consequential loss of investments made by other States or services providers, as well as by users of the CAR/SAM Regions.

2.2 In the light of the above, and in addition to the tracking table presented in WP/04, which is addressed basically to the most important activities of the RVSM programme in the ATC area, it was considered appropriate to prepare a table by States/International Organizations covering all aspects related to RVSM; that is to say related with the monitoring, other ATC operational issues not shown in the Tracking Table of WP/04, airworthiness and aircraft operations aspects and other general requirements. This Table will have the aim to enable all aeronautical authorities of the CAR/SAM Regions to acknowledge the progress reached by each of the parties involved, and will permit a harmonized implementation of RVSM.

3. **Suggested Action**

3.1 The meeting is invited to take note of the information presented in this working paper and, if deemed pertinent, requests all States and Services Providers involved to complete the same, to be incorporated in the final report of the Sixth Meeting/Workshop of ATM authorities and planners in the CAR/SAM Regions for RVSM, RNAV routes and RNP Implementation (APATM/6).

FORMULARIO DE EVALUACION DE REQUERIMIENTOS DE IMPLANTACIÓN RVSM CAR/SAM EVALUATION FORM CHECKLIST CAR/SAM RVSM IMPLEMENTATION REQUIREMENTS				
ESTADO/ORGANISMO INTERNACIONAL STATE/ INTERNATIONAL ORGANIZATION				
FECHA EVALUACIÓN/ EVALUATION DATE:				
ASPECTOS DE SEGURIDAD Y MONITOREO DEL ESPACIO AÉREO / SAFETY AND AIRSPACE MONITORING ASPECTS				
Nº	REQUISITOS / REQUIREMENTS	ACCION TOMADA/ ACTION TAKEN		OBSERVACIONES/ REMARKS
		SÍ/YES	NO	
<b>1. ASPECTOS DE MONITOREO / MONITORING ASPECTS</b>				
1.1	Verificar si los siguientes informes son regularmente enviados a CAR/SAMMA/ To verify whether the following reports are regularly being sent to CARSAMMA:			
1.2	Formularios de Desviación de Altitud Asignada (incluyendo errores de asignación de nivel)/ Assigned Altitude Deviation (AAD) forms (including level assignments errors)			
1.3	Total movimientos IFR requeridos por CARSAMMA / Total IFR movements required by CARSAMMA			
1.4	Fallas de coordinación ATC/ATC / ATC/ATC Coordination failures			
1.5	Informes de datos de turbulencia / Turbulence data reports			
<b>2. ASPECTOS DE OPERACIONES ATC / ATC OPERATIONS ASPECTS</b>				
2.1	Se ha evaluado la necesidad de compra para mejoramiento de equipo para los sistemas ATC/Have appropriate orders been made for purchase of equipment upgrade for ATC systems			
2.2	Se han elaborado planes de contingencia en caso que mejora de equipo no se reciba a tiempo? / Have contingency plans been made in case equipment upgrade not received on time			
2.3	Se han evaluado requerimientos de entrenamiento y se ha conducido entrenamiento local? / Have training requirements been assessed and conduct local training for air traffic controllers?			
2.4	Emisión del AIC inicial (17/04/03) / Issue of Advance AIC (17/04/03)			
2.5	Emisión del Suplemento AIP (02/09/04) / Issue of AIP Supplement (02/09/04)			Deberá ser emitido el (02/09/04) / it should be issued in (02/09/04)

2.6	Preparar NOTAM de lanzamiento el (13/01/04) para confirmar la implantación RVSM / Trigger NOTAM to be issued in (13/01/04) for confirming implementation of RVSM			Deberá ser emitido el (13/01/04) / it should be issued in (13/01/04)
2.7	Simulaciones para evaluar el volumen de trabajo del ATC y considerar posibles requisitos para espacio aéreo/ruta y/o reorganización del sector / Simulations to assess ATC workload and consideration of possible requirements for airspace/route and/or sector reorganization.			
2.8	Evaluación de necesidad de cambios a franjas de progreso de vuelo (no-RVSM, aeronaves de Estado, etc) / Evaluation of the need for changes to flight strips? (Non-RVSM, State aircraft, etc.)			
2.9	Hay necesidad de cambios en el FDPS? / Is there any need for changes to FDPS?			
2.10	Hay alguna necesidad de cambio en los sistemas de visualización del radar (donde sea aplicable) / Is there any need to changes in radar display systems? (Where applicable)			
2.11	Fue considerada la necesidad de cambios en las Alertas de Conflicto a Corto Plazo (STCAs)? (donde sea aplicable) /It was considered the need for changes to Short Term Conflict Alerts (STCAs)? (Where applicable)			
2.12	Se ha considerado la necesidad de cambiar el MTCD (Sistemas de Detección de Conflicto a Mediano Plazo? (Donde sea aplicable) / It was considered the need for changes to Medium Term Conflict Detection (MTCD) Systems (Where applicable)			
2.13	Se han elaborado los procedimientos de contingencia para la suspensión de RVSM / It were developed the contingency procedures for RVSM			
2.14	Se han elaborado los procedimientos para acomodar aeronaves sin aprobación RVSM (donde sea aplicable) / It were develop the procedures to accommodate Non RVSM approved aircraft (Where applicable)			
2.15	Evaluación de modificaciones en las cartas de acuerdo operacionales (LOAs) / Evaluation of amendments in operational letter of agreements (LOAs)			
2.16	Ha desarrollado el Plan nacional RVSM / Have you develop the RVSM domestic plan			
2.17	Punto de contacto de proveedor de servicios ATS / point of contact for ATS service provider			
2.18	Envío de comentarios sobre Borrador del Manual Guía para la implantación RVSM en las regiones CAR/SAM / Comments on the Draft Guidance Manual for RVSM implementation in the CAR/SAN Regions			
2.19	Mantiene relación con autoridades militares de su estado con relación a RVSM/ Maintain liaison with State military authorities regarding RVSM operation			

<b>3. ASPECTOS DE AERONAVEGABILIDAD Y OPERACIONES DE AERONAVES / AIRCRAFT OPERATIONS AND AIRWORTHINESS ASPECTS</b>			
3.1	Dispone de regulaciones nacionales para implantación RVSM? / National Regulations for RVSM Implementation is available?		
3.2	Dispone de orientación para aprobación de Aeronaves y Operadores? / Aircraft and Operators approval guidance material is available?		
3.3	Procedimientos para aeronaves que no cumplen los requisitos / Procedures for non-compliant aircraft		
3.4	Dispone de programas de entrenamiento RVSM para miembros de tripulación y despachadores? / RVSM Training Curricula for flight crew members and dispatchers is available?		
3.5	Cuál es el porcentaje de aeronaves nacionales que recibieron certificación de aeronavegabilidad RVSM / What is the percentage ratio of the national aircraft that received RVSM airworthiness certification		
3.6	¿Cuántos operadores nacionales tienen aprobación completa RVSM? / How many national operators have full RVSM approval		
3.7	¿Cuál es el porcentaje de flota de aeronave? / What is the percentage ratio of aircraft fleet?		
3.8	Ha proporcionado a CARSAMMA la documentación de aprobación RVSM? / Did you provide CARSAMMA with RVSM approval documentation?		
3.9	Punto de contacto del Estado para aprobación de aeronaves y operadores / Point of contact for the aircraft and operator approving State		
3.10	Ha otorgado su Estado aprobación RVSM individual a aeronaves de aviación general? / Have your State provided individual RVSM approval to general aviation aircraft?		
<b>4. OTROS REQUISITOS GENERALES / OTHER GENERAL REQUIREMENTS</b>			
4.1	Fondos/Asignación Presupuestaria/ Funding/Budgetary Allotment		
4.2	Difusión del programa RVSM / Dissemination of RVSM programme		