

# RVSM Approval Audit Process

2023-2024

## WP04

### Evaluation of Non-State Approved Operators Using RVSM Airspace in the Caribbean and South America

TRAFFIC SAMPLES FROM DECEMBER 2023 AND JANUARY 2024 WERE USED FOR THE EVALUATION, ALONG WITH RVSM APPROVAL RECORDS UP TO JUNE 2024



# RVSM Approval Audit Process

According to Annex 6, aircraft operators intending to operate in RVSM airspace must be approved by the State exercising operational authority over that aircraft and/or operator.

CARSAMMA monitors approval status to identify aircraft operating in RVSM without approval, violating ICAO Doc 7030, Requirement 2.1.6.1.

CARSAMMA cross-checks the data contained in air traffic samples with the combined approval database from all RMAs, which includes approval records provided by RMAs.



If confirmed that the aircraft has a valid RVSM approval, its data is added to the database.



If the aircraft is not approved, the AAC is notified, and it remains the State's responsibility to take appropriate action with the operator.

# RVSM Approval Audit Process

- The main issues arising in the verification process are:
- Lack of communication or delayed response from Civil Aviation Authorities (CAAs);
- Lack of communication or delayed response from State Aviation Authorities;
- Lack of registration number in the traffic sample (responsible for filing a flight plan);
- Delay in updating the RMA approval database (responsible for filing a flight plan); and
- Typographical errors in the original traffic data (responsible for filing a flight plan).

# RVSM Approval Audit Process

- The LHD and CRM/ASE sectors use data from the Records and Audit sectors for their analyses. Therefore, it is essential for State certification and airworthiness Points of Contact to maintain transparent communication with CAR SAMMA and be aware of the implications of their work with the RMA.
- CAR SAMMA constantly responds to verification requests regarding the RVSM approval status from other RMAs. **Depending on the authority contacted, we never receive a response.**

Table 1, extracted from **WP04**, summarises the audit results. For aircraft listed in the flight plan, an RVSM approval statement was presented in field 10, and an RVSM flight level was requested in field 15. As there is no current certification record for operations in RVSM airspace in the CARSAMMA database, a notification was sent to the Civil and Military Aviation Authorities of their registration/operation states to confirm the RVSM approval status.

State	Registration	Operator	ICAO Type	Notification Sent	Response in 30 Days	Current RVSM Status
ARGENTINA	LVKEF	FBO	B738	SI	NO	NO APROBADA
ARGENTINA	LVKJE	FBO	B738	SI	NO	NO APROBADA
ARGENTINA	LVKHU	ARG	A332	SI	NO	NO APROBADA
ARGENTINA	LVKHO	FBO	B738	SI	NO	NO APROBADA
ARGENTINA	LVKHT	ARG	A332	SI	NO	NO APROBADA
ARGENTINA	LVKJF	FBO	B738	SI	NO	NO APROBADA
ARGENTINA	LVKJA	JES	A320	SI	NO	NO APROBADA
ARGENTINA	LVKKE	ARG	B38M	SI	NO	NO APROBADA
ARGENTINA	LVKJD	FB LINEAS AEREAS	B738	SI	NO	NO APROBADA
ARGENTINA	LVFUT	SOMA SRL	LJ60	SI	NO	NO APROBADA
ARGENTINA	LVGQK	SOMA SRL	F900	SI	NO	NO APROBADA
ARGENTINA	LVKFW	ANDES LINEAS AEREAS	B738	SI	NO	NO APROBADA
ARGENTINA	FBZ3813	FBO - FLYBONDI	A320	SI	NO	NO APROBADA
ARGENTINA	FBZ5903	FBO - FLYBONDI	A330	SI	NO	NO APROBADA
ARGENTINA	LVBMS	LA GLORIOSA S.A.	BE20	SI	NO	NO APROBADA
ARGENTINA	LVFVY	INTER JET S.A.	C510	SI	NO	NO APROBADA
ARGENTINA	LVHEF	FB LINEAS AEREAS	B738	SI	NO	NO APROBADA
ARGENTINA	LVHKS	FB LINEAS AEREAS	B738	SI	NO	NO APROBADA
ARGENTINA	LVKEB	NUEVO BANCO DE SANTA FE	F900	SI	NO	NO APROBADA
ARGENTINA	LVKFQ	SEA S.A.	CL60	SI	NO	NO APROBADA
ARGENTINA	LVKKD	ARG	B38M	SI	NO	NO APROBADA
ARGENTINA	LVKLE	CHEYENNE S.A.	GL5T	SI	NO	NO APROBADA
ARGENTINA (MILITAR)	T99	FUERZA AEREA ARGENTINA	B737	SI	NO	NO APROBADA

XXXXX

\*Aircraft audited for over a month.

State	Registration	Operator	ICAO Type	Notification Sent	Response in 30 Days	Current RVSM Status	FPL Error	UPDATE
BRASIL	PSAES	AZU	E295	SI	SI	APROBADA		SI
BRASIL	PSTOT	ANIVIA	B733	SI	NO	NO APROBADA		
BRASIL	PRYYC	AZU	A20N	SI	SI	APROBADA		SI
BRASIL	PRXBO	TAM	A20N	SI	SI	APROBADA		SI
BRASIL	PRMXA	TAM	A321	SI	NO	NO APROBADA		
BRASIL	PRGPK	GOL	B738	SI	NO	NO APROBADA		
BRASIL	PRAQT	AZUL	A20N	SI	NO	NO APROBADA		
BRASIL	PTAUF	AZUL	E195	SI	NO	NO APROBADA		
BRASIL	PSGTE	GOL	B38M	SI	NO	NO APROBADA		
BRASIL	PSGPS	GOL	B38M	SI	NO	NO APROBADA		
BRASIL	PPMTE	HELISTAR TAXI AEREO	C680	SI	NO	NO APROBADA		
BRASIL	PPNOB	NOBRE EMPREENDIMENTOS E PARTICIPACOES	FA50	SI	NO	NO APROBADA		
BRASIL	PRAKL	AZUL	E195	SI	NO	NO APROBADA		
BRASIL	PRGPD	GOL	B38M	SI	NO	NO APROBADA		
BRASIL	PRGPG	GOL	B738	SI	NO	NO APROBADA		
BRASIL	PRGRB	GOL	B38M	SI	NO	NO APROBADA		
BRASIL	PSGEI	GOL	B38M	SI	NO	NO APROBADA		
BRASIL	PSPGE	GOL	B38M	SI	NO	NO APROBADA		
BRASIL	PSPGL	GOL	B38M	SI	NO	NO APROBADA		
BRASIL	PRMBHQ	TAM	A320	SI	SI	APROBADA	PRMBH	SI
BRASIL	PRTXBK	TAM	A320	SI	SI	APROBADA	PRXBK	SI
BRASIL	PTMPA	TAM	A321	SI	NO	NO APROBADA		
BRASIL	PPXOM	EMBRAER	E50P	SI	NO	NO APROBADA		
BRASIL	PPYBF	MODERN LOGISTICS	B738	SI	NO	NO APROBADA		
BRASIL	PRSLH	SIDERAL LINHAS AEREAS	B738	SI	NO	NO APROBADA		
BRASIL	PSRDR	MUNDIVOX COMUNICACOES	CL60	SI	SI	APROBADA		SI
BRASIL	PRDAD		GLF4	SI	NO	NO APROBADA		
BRASIL	PPJFZ	LIDER TAXI AEREO S.A.	H25B	SI	NO	NO APROBADA		
BRASIL	PSGRM	GOL	B38M	SI	NO	NO APROBADA		
BRASIL	PSAXK	AZUL	E295	SI	NO	NO APROBADA		
BRASIL	PRAKN	AZUL	E195	SI	NO	NO APROBADA		
BRASIL (MILITAR)	BRS2854	FAB	KC39	SI	NO	NO APROBADA		

XXXXX

aircraft received RVSM approval after the paper was sent to GTE24.

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aircraft audited for over a month.

Estado	Registro	Operador	OACI Tipo	Notificación enviada	Respuesta em 30 días	status actual RVSM	ACTUALIZACIÓN
BOLIVIA	CP3199	BOA	B738	SI	NO	<b>NO APROBADA</b>	
COLOMBIA	N519VJ		SF50	SI	SI	<b>NO APROBADA</b>	
PARAGUAY	ZPCRR	AZP	CRJ2	SI	SI	<b>APROBADA</b>	SI
PARAGUAY	ZPCRS	AZP	CRJ2	SI	SI	<b>APROBADA</b>	SI
PARAGUAY	ZPCRT	AZP	CRJ2	SI	SI	<b>NO APROBADA</b>	
PERU	CCCPI	LAN	A319	SI	NO	<b>NO APROBADA</b>	
PERU	CCCPL	LPE	A319	SI	NO	<b>NO APROBADA</b>	
PERU	CCCPI	LPE	A319	SI	NO	<b>NO APROBADA</b>	
PERU	CCCQK	LPE	A320	SI	NO	<b>NO APROBADA</b>	
PERU	CCDDE	SKYAIRLINE	A21N	SI	NO	<b>NO APROBADA</b>	
PERU	CCCPO	LAN PERU	A319	SI	NO	<b>NO APROBADA</b>	
PERU	CCCQL	LAN PERU	A319	SI	NO	<b>NO APROBADA</b>	
VENEZUELA	YV3250	SERVICIOS AEREOS AYH C.A	LJ50	SI	NO	<b>NO APROBADA</b>	

**XXXXX**

aircraft received RVSM approval after the paper was sent to GTE24.

**XXXXX**

aircraft audited for over a month.

RMA	Operador	OACI Tipo	Notificación enviada	Respuesta em 30 días	status actual RVSM	Actualización
ARMA	ETH801	ETHIOPIAN AIRLINES	B77W	SI	<b>NO APROBADA</b>	
EUR RMA	26901	AFP	E390	SI	<b>NO APROBADA</b>	
EUR RMA	9H649FX	FLEXJET MALTA	GLF6	SI	<b>APROBADA</b>	SI
EUR RMA	9HVISTA	VISTAJET	GL7T	SI	<b>APROBADA</b>	SI
EUR RMA	AFR401	AIR FRANCE	B77W	SI	<b>APROBADA</b>	SI
EUR RMA	IBE2602	IBERIA	A330	SI	<b>APROBADA</b>	SI
PARMO	HL8226	KOREAN AIR	B77L	SI	<b>APROBADA</b>	
PARMO	HL8251	KOREAN AIR	B77L	SI	<b>APROBADA</b>	

**XXXXX**

*aircraft received RVSM approval after the paper was sent to GTE24*





# RVSM Approval Audit Process

	DEC/23	JAN/24	FEB/24	MAR/24	APR/24	MAY/24
Percentage of notifications answered by CAAs from CAR/SAM regions and RMAs, confirming <b>non-approved</b> status or correcting to <b>approved</b> status via F2 form (CAAs):	53%	81%	45%	45%	68%	75%
Percentage of aircraft obtaining RVSM approval after CAAs and RMA notifications and response to CAR SAMMA:	56%	74%	33%	32%	78%	19%

# RVSM Approval Audit Process

1. The meeting is invited to observe and review the content of the CAR SAMMA audit work presented in this document:
  - a) Notify CAR SAMMA of the current aircraft status listed in Table 1 as "not approved."
  - b) Ensure that the information described in Appendix A is up-to-date and inform CAR SAMMA of any discrepancies by submitting the F1 form to the RMA.
  - c) Adhere to the deadlines established in Table 1 of point 2.2.13 of the Guidance Manual for Points of Contact.



# RVSM Approval Audit Process

2023-2024

WP04 -

FL400  
FL380  
FL360  
FL410  
FL390  
FL370  
FL350  
FL330  
FL310  
FL290

CARSAMMA

- END -



# Certification and Operation of State Aircraft

WP09 -



**CERTIFICATION AND OPERATION OF  
STATE AIRCRAFT IN CAR/SAM  
RVSM AIRSPACE**



# CERTIFICACIÓN Y OPERACIÓN DE AERONAVES DE ESTADO

Regarding the Conclusion GTE/16/2, "USE OF HANDBOOK CERTIFICATION AND OPERATION OF STATE AIRCRAFT IN CAR/SAM RVSM AIRSPACE," the GTE/21 final report states that:

*"the meeting considered it should remain valid until the Handbook on Certification and Operation of State Aircraft in CAR/SAM airspace is published. To this end, ICAO offices will send a reminder letter to States in both regions about the use of this guidance document, and the handbook will be uploaded to the GTE website" (GTE/21 Final Report, p. 1-1).*

Given the requests received by the RMA regarding RVSM approvals for State aircraft and the requests made by CAR SAMMA to the States of the CAR/SAM Regions, the final report of GTE/23 considers the decision completed.



# Certification and Operation of State Aircraft

CARSAMMA received several reports from other RMAs requesting the RVSM status of State aircraft registered in the CAR/SAM regions that filled "W" in the FPL and flew in RVSM airspace under the responsibility of these RMAs but do not appear in CARSAMMA's RVSM approval database.

Table 1, in the following slide, shows the State aircraft for which other RMAs have requested RVSM approval confirmation from CARSAMMA or for which CARSAMMA has requested confirmation from the CAR/SAM region authorities.



# Certification and Operation of State Aircraft

RMA/YEAR	Registration	ICAO Type	FL Entry	No. of Flights	Operator	Current Status
EurRMA Audit Q2_2021	FAH001	E35L	F390	6	FUERZA AEREA HONDURAS	no aprobada
EurRMA Audit Q2_2021	T23	LJ35	F340	5	FUERZA AEREA ARGENTINA	no aprobada
EurRMA Audit Q3_2021	T99	B737	F380	4	FUERZA AEREA ARGENTINA	no aprobada
EurRMA Audit Q4_2021	FAE052	FA7X	F410	3	FUERZA AEREA DE ECUADOR	aprobada
EurRMA Audit Q4_2021	FAH001	E35L	F370	4	FUERZA AEREA HONDURAS	no aprobada
EurRMA Audit Q4_2021	T23	LJ35	F320	1	FUERZA AEREA ARGENTINA	no aprobada
EurRMA Audit Q1_2022	FAE052	FA7X	F410	2	FUERZA AEREA DE ECUADOR	aprobada
EurRMA Audit Q1_2022	FAC0001	B737	F330	8	FUERZA AEREA COLOMBIANA	aprobada
EurRMA Audit Q1_2022	985	B767	F410	8	FUERZA AEREA DE CHILE	no aprobada
EurRMA Audit Q2_2022	FAE052	FA7X	F410	4	FUERZA AEREA DE ECUADOR	aprobada
EurRMA Audit Q3_2022	985	B763	F390	4	FUERZA AEREA DE CHILE	no aprobada
EurRMA Audit Q3_2022	BRS2901	A332	F410	3	FUERZA AEREA BRASILEÑA	aprobada
EurRMA Audit Q3_2022	T99	B737	F380	8	FUERZA AEREA ARGENTINA	no aprobada
EurRMA Audit Q1_2023	BRS2901	A332	F410	2	FUERZA AEREA BRASILEÑA	aprobada
EurRMA Audit Q1_2023	FAC0001	B737	F400	3	FUERZA AEREA COLOMBIANA	aprobada
EurRMA Audit Q1_2023	FAE052	FA7X	F410	5	FUERZA AEREA DE ECUADOR	aprobada
EurRMA Audit Q1_2023	T99	B737	F380	12	FUERZA AEREA ARGENTINA	no aprobada
EurRMA Audit Q3_2023	ARG01	B752	F400	3	FUERZA AEREA ARGENTINA	aprobada
EurRMA Audit Q3_2023	FAE052	FA7X	F410	4	FUERZA AEREA DE ECUADOR	aprobada

\*Approved after CAR SAMMA requested the RVSM status of the aircraft from the State Certification Authority.

# Certification and Operation of State Aircraft

Fechas de Observación		Registration	ICAO Type	FL Entry	No. of Flights	Operator	Current Status
CARSAMMA	jan/24	BRS2854	KC39	330	1	FUERZA AEREA BRASILEÑA	no aprobada
CARSAMMA	fev/24	BRS2854	KC39	F290	14	FUERZA AEREA BRASILEÑA	no aprobada
CARSAMMA	fev/24	BRS2858	KC39	F290	10	FUERZA AEREA BRASILEÑA	no aprobada
CARSAMMA	fev/24	T99	B737	F360	9	FUERZA AEREA ARGENTINA	no aprobada
CARSAMMA	mar/24	BRS2854	KC39	F350	35	FUERZA AEREA BRASILEÑA	no aprobada
CARSAMMA	abr/24	BRS2854	KC39	F300	10	FUERZA AEREA BRASILEÑA	no aprobada

## The meeting is invited to:

- note and review the contents of this working paper;
- share experiences and express opinions concerning CARSAMMA's actions in this matter; and
- take the necessary actions to submit this paper and its ANNEX for consideration by GREPECAS.





# Certification and Operation of State Aircraft

WP09 -



- END -