SES				Active				E	EU+
ITY-AGVCS2			8,33 kHz Air	-Ground V	oice Chann	nel Spacing	below FL19	5	
REG ASP	MIL	ΑΡΟ	USE	INT	IND	NM	MET	AIS	USP

Subject matter and scope

This SES-type objective is derived from Implementing Regulation (EU) No 1079/2012 of 16 November 2012, amended by Commission Implementing Regulation (EU) No 657/2013 of 10 July 2013, laying down requirements for voice channels spacing for the single European sky.

The Regulation applies to:

1. all radios operating in the 117,975-137 MHz band ('the VHF band') allocated to the aeronautical mobile route service, including systems, their constituents and associated procedures;

2. all flights operating as general air traffic, within the airspace of the ICAO EUR region where States are responsible for the provision of air traffic services in accordance with Regulation (EC) No 550/2004.

The conversion requirements of the Regulation do NOT apply to frequency assignments:

(a) that will remain in 25 kHz channel spacing on the following frequencies:

(i) the emergency frequency (121,5 MHz);

(ii) the auxiliary frequency for search and rescue operations (123,1 MHz);

(iii) the VHF digital link (VDL) frequencies (136,725 MHz, 136,775 MHz, 136,825 MHz, 136,875 MHz, 136,925 MHz and 136,975 MHz);

(iv) the aircraft communications addressing and reporting system (ACARS) frequencies (131,525 MHz, 131,725 MHz and 131,825 MHz);

(b) where offset carrier operation within a 25 kHz channel spacing is utilised.

According to Article 14 of Regulation (EU) No 1079/2012, for cases having limited impact on the network, States may take local measures granting exemptions from compliance with:

• Article 4(5) on the obligation for all radios to have 8,33 kHz channel spacing capability by 31 December 2017 at the latest (except ground radios operated by air navigation service providers);

• Article 5(4) on the obligation for aircraft to be equipped with an 8,33 kHz-capable radio from 1 January 2018 to operate in airspace where carriage of radio is required;

• and 6(10) on the obligation to convert all frequency assignments to 8,33 kHz channel spacing by 31 December 2018 at the latest (except frequency assignments that stay in 25 kHz as a result of a safety requirement, or 25 kHz frequency assignments used to accommodate State aircraft).

However, the State shall provide the Commission with detailed information justifying the exemption at the latest one year before the dates identified in the relevant articles. Within six months of receiving the information and after consultation with the Network Manager, the Commission may review the exemption if the impact on the network is not limited.

The terms used in this objective are defined in Article 2 of Regulation (EC) No 549/2004 and Article 2 of Regulation (EU) No 1079/2012.

NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each military authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the military authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions EXCLUSIVE to military authorities.

Applicability Area(s) & Timescale(s)

	ECAC+ States except: Armenia, rkiye, Ukraine	Azerbaijan, Ge	orgia, Israel, Maastricht UAC, Moldova, Morocco
Timescales:	From:	By:	Applicable to:
Entry into force	07/12/2012		Applicability Area
New and upgraded radio equipment	17/11/2013		Applicability Area
New or upgraded radios on State aircraft	01/01/2014		Applicability Area
Interim target for freq. conversions		31/12/2014	Applicability Area
All radio equipment		31/12/2017	Applicability Area
All frequencies converted		31/12/2018	Applicability Area
State aircraft equipped, except those notified to E	C	31/12/2018	Applicability Area
State aircraft equipped, except those exempted [A		31/12/2020	Applicability Area

References

European ATM Master Plan

OI step -	<u>- No OI Link</u>	<u>-</u>				
	Enablers -	CTE-C01a				
Legend:	WXYZ-001	Covered by SLoA(s) in this objective	WXYZ-002 zzz	Covered by SLoA(s) in another objective Objective covering the enabler	WXYZ- 003	Not covered in the Implementation Plan

Applicable legislation

Regulation (EU) No 1079/2012 of 16 November 2012 laying down requirements for voice channels spacing.

Essential Operational Changes

CNS Infrastructure and Services

SESAR Solution

ICAO GANP - ASBUs

- none -

Deployment Programme

- none -

European Plan for Aviation Safety

- none -

Operating Environments

Airport En-Route Network Terminal Airspace

Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	Ву
ITY-AGVCS2-REG01	Ensure radios have 8,33 kHz channel spacing capability		31/12/2017
ITY-AGVCS2-REG02	Ensure the achievement of the interim target for 8,33 kHz frequency conversions	FINALISED	
ITY-AGVCS2-REG03	Ensure compliance with the requirements on 8,33 kHz frequency conversions		31/12/2018
ITY-AGVCS2-ASP01	Ensure conformity of voice communications systems and associated procedures		31/12/2018
ITY-AGVCS2-ASP02	Convert 25 kHz frequencies to 8,33 kHz to achieve the interim target	FINALISED	
ITY-AGVCS2-ASP03	Convert all 25 kHz frequencies to 8,33 kHz		31/12/2018
ITY-AGVCS2-ASP04	Develop safety assessment		31/12/2018
ITY-AGVCS2-ASP05	Organise personnel training and awareness		31/12/2018
ITY-AGVCS2-MIL01	Equip State aircraft with radio equipment with 8,33 kHz channel spacing capability		31/12/2020
ITY-AGVCS2-MIL02	Organise personnel training and awareness of military aircrew		31/12/2020
ITY-AGVCS2-APO01	Convert all 25 kHz frequencies to 8,33 kHz		31/12/2018
ITY-AGVCS2-APO02	Accommodate non-equipped vehicles		31/12/2017
ITY-AGVCS2-APO03	Organise personnel training and awareness		31/12/2018
ITY-AGVCS2-USE01	Equip aircraft with radio equipment with 8,33 kHz channel spacing capability		31/12/2017
ITY-AGVCS2-USE02	Organise personnel training and awareness		31/12/2017
ITY-AGVCS2-NM01	Ensure the centralised flight planning processing and distribution service complies with the Regulation	FINALISED	

Description of finalised and deleted SLoAs is available on the eATM Portal @ https://www.eatmportal.eu/working/depl/essip_objectives

Expected Performance Benefits

Safety:	-
Capacity:	-
Operational Efficiency:	Optimisation of the use of the bandwidth, which is a prerequisite to a number of crucial operational improvements that will deliver benefits such as reduced delays and increased capacity. Such benefits will be postponed or even impossible if the additional frequencies required are not readily available.
Cost Efficiency:	-
Environment:	-
Security:	-

Detailed SLoA Descriptions

	· · · · · · · · · · · · · · · · · · ·					
	Ensure radios have 9.22 kHz shannel angeing sanshiller	From:	By:			
ITY-AGVCS2-REG01	Ensure radios have 8,33 kHz channel spacing capability	-	31/12/2017			
Action by:	State Authorities					
Description & purpose:	 Take the necessary measures to ensure compliance of ANSPs, operators and other users of radios with the interoperability and performance requirements as specified in Article 4 of Regulation (EU) No 1079/2012. In particular i) From entry into force of the Regulation, ensure that all radios having the 8,33 kHz channel spacing capability: Are able to tune to 25 kHz spaced channels [Art. 4(6)]; The performance of these radios and the transmitter/receiver ground constituent complies with the ICAO standards referred to in the supporting material of this SLoA [Art. 4(7) & 4(8)]. ii) From 17 November 2013: all radio equipment put into service or subject to radio upgrades by ANSPs, operators and other users or owner of radios includes the 8,33 kHz channel spacing capability [Art. 4(2) & 4(4)]; aircraft for which the individual certificates of airworthiness or individual flight permits are first issued in the Station the applicability area of this objective from 17 November 2013 and have a radio equipage requirement ar fitted with radios having the 8,33 kHz channel spacing capability [Art. 4(3)]. iii) By 31 December 2017 at the latest all radios have the 8,33 kHz channel spacing capability with the exception of ground radios operated by air navigation service providers [Art. 4(5)]. Note :Note that Regulation (EU) No 1079/2012 applies to 'all radios operating in the VHF band allocated to the 					
	aeronautical mobile route service' which goes beyond ATM and might af ESSIP/LSSIP process, however this objective is limited to ATM in line with the service of the service					
Supporting material(s):	ICAO - Doc 4444 - Air Traffic Management, Section 12.3.1.4 '8,33 kHz c	hannel spacing' - Editio	n 16			
	Url : <u>https://store.icao.int/</u>					
	EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementation handbook					
	Url : https://www.eurocontrol.int/publication/833khz-voice-channel-spacing-vcs-implementation-handbook					
	ICAO - Annex 10, Volume III, Part 2 - Aeronautical Telecommunications, Volume III Communication Systems, Part 2 (incorporating Amendment No 85), Chapter 2, Sections 2.1, 2.2, 2.3.1 and 2.3.2 (excluding Subsection 2.3.2.8) - Second Edition / 07/2007					
	Url : http://store1.icao.int/					
Finalisation criteria:	 Where applicable, the State has published the additional local exemptions as per Article 14 of Regulation (EU) N 1079/2012. From 17 November 2013: Measures have been taken to ensure that all radio equipment put into service or subjer radio upgrades by ANSPs, operators and other users or owners of radios includes the 8,33 kHz channel spacing capability. From 17 November 2013: Measures have been taken to ensure that aircraft for which the individual certificates or airworthiness or individual flight permits are first issued from 17 November 2013 and have a radio equipage requirer are fitted with radios having the 8,33 kHz channel spacing capability. By 31 December 2017: The NSA has evidence that all radios in the State have 8,33 kHz channel spacing capability except where derogations apply and/or exemptions have been granted. 					
	Ensure the achievement of the interim target for 8,33 kHz	From:	By:			
ITY-AGVCS2-REG02	frequency conversions	-	31/12/2014			
Action by:	State Authorities					
Description & purpose:	 Ensure the requirements of Article 6(3) to 6(9) of the of Regulation (EU) met. In particular: i) By 31 December 2013: With the support of the ANSP, establish the 25% target for frequency (4) of the Regulation; Notify the Commission of the 25% target including, if this target cann achieve the target and an alternative date for achieving it. The communic assignments that cannot be converted and the reasons for it [Art. 6(5), 6 ii) By 31 December 2014: Ensure the 25% target for frequency conversions has been achieved frequency assignments and shall not include operational control communic - Ensure all operational control communication (OPC) frequency assigned (8)]; Where due to technical reasons, not all operational control communic converted, notify the Commission which frequency assignments will not include the converted and the reasons will not be converted. 	v conversions as specifi ot be met, a justification cation shall also identify (6) & 6(7)]. I. These conversions sh nication frequency assig naments in the central re cation frequency assigr	ied by Articles 6(3) and 6 in for not being able to it the frequency nall not be limited to ACC gnments [Art 6(3)]; egister are 8,33 kHz [Art iments can be			

ITY-A	GV	CS2
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Specific applicability:	This SLoA only applies to the States listed in Annex I of the Regulation Luxembourg, Hungary, Netherlands, Austria, United Kingdom).	(i.e. Germany, Ire	eland, France, Italy,		
Finalisation criteria:	 1 - 25% target for frequency conversions as per Articles 6(5) to 6(7) of t 2 - 25% target for frequency conversions achieved. 3 - All OPC frequency assignments converted to 8,33 kHz or, where ap justification for it notified to the Commission. 	-			
	Ensure compliance with the requirements on 8,33 kHz frequency	From:	By:		
ITY-AGVCS2-REG03	conversions	-	31/12/2018		
Action by:	State Authorities				
Description & purpose:	Ensure that, by 31 December 2018 at the latest, all frequency assignment Where the State decides not to convert a 25 kHz frequency assignment Derogations below) this shall be subject to a safety assessment.				
Derogations:	The conversion requirements to 8,33 kHz channel spacing do not apply to frequency assignments: a) that are outside the scope of the Regulation [Art 2(4)]; b) that stay in 25 kHz as a result of a safety requirement [Art. 6(10)]; c) 25 kHz frequency assignments used to accommodate State aircraft [Art. 6(10)]. States may grant additional local exemptions as per Article 14 of Regulation (EU) No 1079/2012 (see Objective "Subject Matter and Scope").				
Supporting material(s):	EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementation handbook				
	Url : https://www.eurocontrol.int/publication/833khz-voice-channel-space	ing-vcs-implemer	ntation-handbook		
Finalisation criteria:	1 - All applicable frequencies converted to 8.33 kHz are published in the	e national AIP.			
ITY-AGVCS2-ASP01	Ensure conformity of voice communications systems and associated procedures	From:	By: 31/12/2018		
Action by:	ANS Providers				
Description & purpose: Supporting material(s):	Ensure that voice communication systems and associated communication of Regulation (EU) No 1079/2012: i) From entry into force: - Articles 4(6), 4(7) and 4(8) on interoperability and performance requi- Article 4(6), 4(7) and 4(8) on interoperability and performance requi- Article 8(1) on the identification of the transmitting channel; - Article 8(1) on the identification of the transmitting channel; - Article 8(2) on air-ground voice communication procedures; - Article 8(2) on the accommodation of non-equipped aircraft; - Article 12(1) and 12(2) on the verification of systems. ii) From 17 November 2013: - Articles 4(2) and 4(4) on the 8,33 kHz channel spacing capability of radio upgrades; iii) By 31 December 2017: - Article 4(5) on the 8,33 kHz channel spacing capability of all radios. ICAO - Doc 4444 - Air Traffic Management, Section 12.3.1.4 '8,33 kHz Url : https://store.icao.int/ EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementa Url : https://www.eurocontrol.int/publication/833khz-voice-channel-space ICAO - Annex 10, Volume III, Part 2 - Aeronautical Telecommunications (incorporating Amendment No 85), Chapter 2, Sections 2.1, 2.2, 2.3.1 a Second Edition / 07/2007 Url : http://store1.icao.int/ 1 - Voice communication systems have been upgraded. 2 - The technical file (TF) with evidences of compliance and the EC dec	irements; new radio equipr channel spacing' tion handbook ing-vcs-implemer s, Volume III Corr nd 2.3.2 (excludi	nent or equipment subject to - Edition 16 ntation-handbook imunication Systems, Part 2 ng Subsection 2.3.2.8) -		
ITY-AGVCS2-ASP02	 been delivered to the competent National Supervisory Authority (NSA). 3 - Procedures have been updated (including e.g. LoAs between centre 4 - Upgraded communication systems have been put into service. Convert 25 kHz frequencies to 8,33 kHz to achieve the interim	From:	By:		
111-AGV032-A3FU2	target	-	31/12/2014		
Action by:	ANS Providers				
Description & purpose:	Ensure that the interim requirements for frequency conversions to 8,33 and 6(4) of Regulation (EU) No 1079/2012 are complied with. In particu- - By 31 December 2013, support the Regulator in the calculation and es- conversions as specified by Articles 6(3) and 6(4) of the Regulation; - By 31 December 2014, ensure that the 25% target for frequency conv Commission is met. These conversions shall not be limited to ACC freq operational control communication frequency assignments [Art 6(3)].	lar: stablishment of th ersions referred t	e 25% target for frequency o above and notified to the		
	This SLoA only applies to the ANSPs providing services in the States listed in Annex I of the Regulation (i.e. Germany,				
Specific applicability:	This SLoA only applies to the ANSPs providing services in the States lis Ireland, France, Italy, Luxembourg, Hungary, Netherlands, Austria, Unit	sted in Annex I of ed Kingdom).	the Regulation (i.e. Germany,		

ITY-AGVCS2

	1 - 25% target for frequency conversions has been achieved.				
ITY-AGVCS2-ASP03	Convert all 25 kHz frequencies to 8,33 kHz	From: -	By: 31/12/2018		
Action by:	ANS Providers				
Description & purpose:	Ensure that, by 31 December 2018 at the latest, all 25 kHz frequencies	are converted 8,3	33 kHz [Art. 6(10)].		
Derogations:	The conversion requirements to 8,33 kHz channel spacing do not apply a) that are outside the scope of the Regulation [Art 2(4)]; b) that stay in 25 kHz as a result of a safety requirement [Art. 6(10)]; c) 25 kHz frequency assignments used to accommodate State aircraft [States may grant additional local exemptions as per Article 14 of Regul Matter and Scope").	Art. 6(10)].	•		
Supporting material(s):	EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementa	tion handbook			
	Url : https://www.eurocontrol.int/publication/833khz-voice-channel-spac	urocontrol.int/publication/833khz-voice-channel-spacing-vcs-implementation-handbook			
ATM Master Plan relationship:	[CTE-C01a]-Existing Voice radio (VHF 25/8.33KHz)				
Finalisation criteria:	1 - All applicable frequencies converted to 8.33 kHz are published in the	e national AIP.			
		From:	By:		
ITY-AGVCS2-ASP04	Develop safety assessment	-	31/12/2018		
Action by:	ANS Providers		1		
	 notify the NSA of planned changes; 				
	 conduct hazard identification, risk assessment and mitigation; develop safety assessment; deliver safety assessment report to the NSA, if new standards are app 1 or 2. The assessment shall be based in full validated/recognised method and requirements of Annex III to the Regulation. 				
Supporting material(s):	 conduct hazard identification, risk assessment and mitigation; develop safety assessment; deliver safety assessment report to the NSA, if new standards are app 1 or 2. The assessment shall be based in full validated/recognised method and 	d shall take into co			
Supporting material(s):	 conduct hazard identification, risk assessment and mitigation; develop safety assessment; deliver safety assessment report to the NSA, if new standards are app 1 or 2. The assessment shall be based in full validated/recognised method and requirements of Annex III to the Regulation. 	d shall take into co tion handbook	onsideration, as a minimum, th		
Supporting material(s):	 conduct hazard identification, risk assessment and mitigation; develop safety assessment; deliver safety assessment report to the NSA, if new standards are app 1 or 2. The assessment shall be based in full validated/recognised method and requirements of Annex III to the Regulation. EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementation 	d shall take into co ition handbook ing-vcs-implemen	bnsideration, as a minimum, th		
Supporting material(s):	 conduct hazard identification, risk assessment and mitigation; develop safety assessment; deliver safety assessment report to the NSA, if new standards are app 1 or 2. The assessment shall be based in full validated/recognised method and requirements of Annex III to the Regulation. EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementa Url : https://www.eurocontrol.int/publication/833khz-voice-channel-space 	d shall take into co tion handbook ting-vcs-implemen n in ATM - Editior	bnsideration, as a minimum, th		
	 conduct hazard identification, risk assessment and mitigation; develop safety assessment; deliver safety assessment report to the NSA, if new standards are app 1 or 2. The assessment shall be based in full validated/recognised method and requirements of Annex III to the Regulation. EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementa Url : https://www.eurocontrol.int/publication/833khz-voice-channel-space EUROCONTROL - EAM 4 - ESARR 4 - Risk Assessment and Mitigation 	d shall take into co ition handbook ing-vcs-implemen n in ATM - Editior id-mitigation-atm	nsideration, as a minimum, th tation-handbook 1.0 / 04/2001		
Finalisation criteria:	 conduct hazard identification, risk assessment and mitigation; develop safety assessment; deliver safety assessment report to the NSA, if new standards are app 1 or 2. The assessment shall be based in full validated/recognised method and requirements of Annex III to the Regulation. EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementa Url : https://www.eurocontrol.int/publication/833khz-voice-channel-space EUROCONTROL - EAM 4 - ESARR 4 - Risk Assessment and Mitigation Url : https://www.eurocontrol.int/publication/esarr-4-risk-assessment-and 1 - Safety assessment report including safety arguments for the change notification of acceptance was received. 	d shall take into co ition handbook ing-vcs-implemen n in ATM - Editior id-mitigation-atm	nsideration, as a minimum, th tation-handbook 1.0 / 04/2001		
	 - conduct hazard identification, risk assessment and mitigation; - develop safety assessment; - deliver safety assessment report to the NSA, if new standards are app 1 or 2. The assessment shall be based in full validated/recognised method and requirements of Annex III to the Regulation. EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementa Url : https://www.eurocontrol.int/publication/833khz-voice-channel-space EUROCONTROL - EAM 4 - ESARR 4 - Risk Assessment and Mitigation Url : https://www.eurocontrol.int/publication/esarr-4-risk-assessment-and 1 - Safety assessment report including safety arguments for the change 	d shall take into co ition handbook ing-vcs-implemen n in ATM - Editior d-mitigation-atm es has been subm	nsideration, as a minimum, th tation-handbook 1.0 / 04/2001 itted to the NSA and		
Finalisation criteria:	 conduct hazard identification, risk assessment and mitigation; develop safety assessment; deliver safety assessment report to the NSA, if new standards are app 1 or 2. The assessment shall be based in full validated/recognised method and requirements of Annex III to the Regulation. EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementa Url : https://www.eurocontrol.int/publication/833khz-voice-channel-space EUROCONTROL - EAM 4 - ESARR 4 - Risk Assessment and Mitigation Url : https://www.eurocontrol.int/publication/esarr-4-risk-assessment-and 1 - Safety assessment report including safety arguments for the change notification of acceptance was received. 	d shall take into co tion handbook ing-vcs-implemen n in ATM - Edition d-mitigation-atm es has been subm From:	onsideration, as a minimum, th tation-handbook 1.0 / 04/2001 litted to the NSA and By:		
Supporting material(s): Finalisation criteria: ITY-AGVCS2-ASP05 Action by: Description & purpose:	 conduct hazard identification, risk assessment and mitigation; develop safety assessment; deliver safety assessment report to the NSA, if new standards are app 1 or 2. The assessment shall be based in full validated/recognised method and requirements of Annex III to the Regulation. EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementa Url : https://www.eurocontrol.int/publication/833khz-voice-channel-space EUROCONTROL - EAM 4 - ESARR 4 - Risk Assessment and Mitigation Url : https://www.eurocontrol.int/publication/esarr-4-risk-assessment-and 1 - Safety assessment report including safety arguments for the change notification of acceptance was received. Organise personnel training and awareness 	d shall take into co ition handbook ing-vcs-implemen n in ATM - Edition d-mitigation-atm es has been subm From: - and adequately t	nsideration, as a minimum, th tation-handbook 1.0 / 04/2001 itted to the NSA and By: 31/12/2018 rained [Art 13.(1)]		
Finalisation criteria: ITY-AGVCS2-ASP05 Action by: Description & purpose:	 conduct hazard identification, risk assessment and mitigation; develop safety assessment; deliver safety assessment report to the NSA, if new standards are app 1 or 2. The assessment shall be based in full validated/recognised method and requirements of Annex III to the Regulation. EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementa Url : https://www.eurocontrol.int/publication/833khz-voice-channel-space EUROCONTROL - EAM 4 - ESARR 4 - Risk Assessment and Mitigation Url : https://www.eurocontrol.int/publication/esarr-4-risk-assessment-and 1 - Safety assessment report including safety arguments for the change notification of acceptance was received. Organise personnel training and awareness ANS Providers Ensure that: personnel are made duly aware of the requirements of the Regulation 	d shall take into co tion handbook ting-vcs-implemen n in ATM - Edition d-mitigation-atm es has been subm From: - and adequately t ply with Article 13	nsideration, as a minimum, th tation-handbook 1.0 / 04/2001 itted to the NSA and By: 31/12/2018 rained [Art 13.(1)]		
Finalisation criteria: ITY-AGVCS2-ASP05 Action by:	 conduct hazard identification, risk assessment and mitigation; develop safety assessment; deliver safety assessment report to the NSA, if new standards are app 1 or 2. The assessment shall be based in full validated/recognised method and requirements of Annex III to the Regulation. EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementa Url : https://www.eurocontrol.int/publication/833khz-voice-channel-space EUROCONTROL - EAM 4 - ESARR 4 - Risk Assessment and Mitigation Url : https://www.eurocontrol.int/publication/esarr-4-risk-assessment-an 1 - Safety assessment report including safety arguments for the change notification of acceptance was received. Organise personnel training and awareness ANS Providers Ensure that: personnel are made duly aware of the requirements of the Regulation operations manuals, working methods and operating procedures comp 1 - The training plans have been updated and a training package has b 	d shall take into co tion handbook ting-vcs-implemen n in ATM - Edition d-mitigation-atm es has been subm From: - and adequately t ply with Article 13	nsideration, as a minimum, th tation-handbook 1.0 / 04/2001 itted to the NSA and By: 31/12/2018 rained [Art 13.(1)]		

ITY-AGVCS2

Description & purpose:	 Ensure that aircraft are equipped with 8,33 kHz channel spacing capability in compliance with the following articles of Regulation (EU) No 1079/2012: i) From entry into force of the Regulation, ensure that all radios having the 8,33 kHz channel spacing capability comply 					
	with: - Articles 4(6), 4(7) and 4(8) on interoperability and performance requirements;					
	 Articles 4(0), 4(7) and 4(0) on interoperability and performance requirements, where applicable; Article 8(6) on the notification to the IFPS, where applicable. 	nemento,				
	ii) From 1 January 2014:					
	- ensure all new State aircraft entering into service are equipped with radios having the 8,33 kHz channel spacing capability [Art. 9.(6)]					
	 ensure that whenever the radios installed on-board State aircraft are the 8,33 kHz channel spacing capability [Art. 9.(7)]. iii) By 30 June 2018: 	e subject to radio upູ	grades, the new radios have			
	 - communicate to the Commission the list of State aircraft that cannot compelling technical or budgetary constraints or procurement constraint iv) By 31 December 2018: 		33 kHz radios due to			
	 ensure all State aircraft, except those communicated to the Commis with radios having the 8,33 kHz channel spacing capability [Art. 9(8)]. v) By 31 December 2020: ensure the State aircraft not equipped by 31 December 2018 due to 					
	acing capability [Art. 9(10)].					
Derogations:	The obligation does not apply to State aircraft that will be withdrawn from operational service by 31 December 202 9(11)]. The State can grant additional exemptions to State aircraft that cannot be equipped with radios having the 8,33 kH					
	channel spacing capability due to compelling technical or budgetary com					
Supporting material(s):	ICAO - Doc 4444 - Air Traffic Management, Section 12.3.1.4 '8,33 kHz c Url : https://store.icao.int/	channel spacing' - Eo	dition 16			
	EUROCONTROL - GUID-174 - EUROCONTROL Guidelines on 8.33kH Edition 2.0 / 07/2018	z Channel Spacing f	or Military Operators -			
	Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-833khz-channel-spacing-military-operators					
	ICAO - Annex 10, Volume III, Part 2 - Aeronautical Telecommunications, Volume III Communication Systems, Part 2 (incorporating Amendment No 85), Chapter 2, Sections 2.1, 2.2, 2.3.1 and 2.3.2 (excluding Subsection 2.3.2.8) - Second Edition / 07/2007					
	Url : http://store1.icao.int/					
inalisation criteria:	 List of State aircraft that cannot be equipped with 8,33 kHz radios by the Commission. State aircraft have been equipped. 	31 December 2018	has been communicated to			
ITY-AGVCS2-MIL02	Organise personnel training and awareness of military aircrew	From:	By:			
TTT-AGVC32-WILU2	Organise personnel training and awareness of minitary ancrew	-	31/12/2020			
ction by:	Military Authorities					
escription & purpose:	Military Authorities shall ensure that the personnel operating radio equip No 1079/2012 that they are adequately trained to use this equipment an					
	where feasible.					
Supporting material(s):	where feasible. EUROCONTROL - GUID-174 - EUROCONTROL Guidelines on 8.33kH Edition 2.0 / 07/2018					
	where feasible. EUROCONTROL - GUID-174 - EUROCONTROL Guidelines on 8.33kH Edition 2.0 / 07/2018 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-833k					
	where feasible. EUROCONTROL - GUID-174 - EUROCONTROL Guidelines on 8.33kH Edition 2.0 / 07/2018					
inalisation criteria:	where feasible. EUROCONTROL - GUID-174 - EUROCONTROL Guidelines on 8.33kH Edition 2.0 / 07/2018 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-833k 1 - Training manuals have been updated, as required.					
inalisation criteria:	where feasible. EUROCONTROL - GUID-174 - EUROCONTROL Guidelines on 8.33kH Edition 2.0 / 07/2018 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-833k 1 - Training manuals have been updated, as required. 2 - All personnel operating radio equipment have been trained.	hz-channel-spacing-	military-operators By:			
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Finalisation criteria: ITY-AGVCS2-APO01 Action by: Description & purpose: Derogations: Supporting material(s):	 where feasible. EUROCONTROL - GUID-174 - EUROCONTROL Guidelines on 8.33kH Edition 2.0 / 07/2018 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-833k 1 - Training manuals have been updated, as required. 2 - All personnel operating radio equipment have been trained. Convert all 25 kHz frequencies to 8,33 kHz Airport Operators Ensure that, by 31 December 2018 at the latest, all 25 kHz frequencies The conversion requirements to 8,33 kHz channel spacing do not apply a) that are outside the scope of the Regulation [Art 2(4)]; b) that stay in 25 kHz as a result of a safety requirement [Art. 6(10)]; c) 25 kHz frequency assignments used to accommodate State aircraft [A States may grant additional local exemptions as per Article 14 of Regular Matter and Scope"). EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementation 	From: - are converted 8,33 k to frequency assign Art. 6(10)]. ation (EU) No 1079/2	military-operators By: 31/12/2018 Hz [Art. 6(10)]. ments: 2012 (see Objective "Subjective"			
Tinalisation criteria: ITY-AGVCS2-APO01 Action by: Description & purpose: Derogations: Supporting material(s): TTM Master Plan elationship:	 where feasible. EUROCONTROL - GUID-174 - EUROCONTROL Guidelines on 8.33kH Edition 2.0 / 07/2018 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-833ki 1 - Training manuals have been updated, as required. 2 - All personnel operating radio equipment have been trained. Convert all 25 kHz frequencies to 8,33 kHz Airport Operators Ensure that, by 31 December 2018 at the latest, all 25 kHz frequencies The conversion requirements to 8,33 kHz channel spacing do not apply a) that are outside the scope of the Regulation [Art 2(4)]; b) that stay in 25 kHz as a result of a safety requirement [Art. 6(10)]; c) 25 kHz frequency assignments used to accommodate State aircraft [/ States may grant additional local exemptions as per Article 14 of Regular Matter and Scope"). EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementat Url : https://www.eurocontrol.int/publication/833khz-voice-channel-spacing 	From: - are converted 8,33 k to frequency assign Art. 6(10)]. tion (EU) No 1079/2 ion handbook ng-vcs-implementati	military-operators By: 31/12/2018 Hz [Art. 6(10)]. ments: 2012 (see Objective "Subjective"			
Supporting material(s): Finalisation criteria: ITY-AGVCS2-APO01 Action by: Description & purpose: Derogations: Supporting material(s): ATM Master Plan elationship: Finalisation criteria: ITY-AGVCS2-APO02	 where feasible. EUROCONTROL - GUID-174 - EUROCONTROL Guidelines on 8.33kH Edition 2.0 / 07/2018 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-833k/ 1 - Training manuals have been updated, as required. 2 - All personnel operating radio equipment have been trained. Convert all 25 kHz frequencies to 8,33 kHz Airport Operators Ensure that, by 31 December 2018 at the latest, all 25 kHz frequencies The conversion requirements to 8,33 kHz channel spacing do not apply a) that are outside the scope of the Regulation [Art 2(4)]; b) that stay in 25 kHz as a result of a safety requirement [Art. 6(10)]; c) 25 kHz frequency assignments used to accommodate State aircraft [/ States may grant additional local exemptions as per Article 14 of Regular Matter and Scope"). EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementat Url : https://www.eurocontrol.int/publication/833khz-voice-channel-spacing [CTE-C01a]-Existing Voice radio (VHF 25/8.33KHz) 	From: - are converted 8,33 k to frequency assign Art. 6(10)]. tion (EU) No 1079/2 ion handbook ng-vcs-implementati	military-operators By: 31/12/2018 Hz [Art. 6(10)]. ments: 2012 (see Objective "Subjective"			

ITY-AGVCS2

Action by:	Airport Operators				
Description & purpose:	Ensure that procedures for handling non-8,33 kHz equipped vehicles through airport areas using 8,33 kHz channel spacing are published and applied as appropriate [Annex III.8].				
Finalisation criteria:	1 - Procedures for handling non-8,33 kHz equipped vehicles through been published and are applied as appropriate.	n airport areas using	8,33 kHz channel spacing have		
		From:	By:		
ITY-AGVCS2-APO03	Organise personnel training and awareness	-	31/12/2018		
Action by:	Airport Operators	I			
Description & purpose:	Ensure that the personnel operating radio equipment are made duly trained for their job functions [Art 13(1)].	aware of this Regula	ation, that they are adequately		
Finalisation criteria:	 The training plans have been updated and a training package hat All personnel operating radio equipment have been trained. 	as been developed.			
	Equip aircraft with radio equipment with 8,33 kHz channel	From:	By:		
ITY-AGVCS2-USE01	spacing capability	-	31/12/2017		
Action by:	Airspace Users				
	 i) From entry into force: Articles 4(6), 4(7) and 4(8) on interoperability and performance in Articles 8(4) and 8(5) on flight plan requirements; Article 8(6) on the notification to the IFPS. ii) From 17 November 2013: Articles 4(2) and 4(4) on the 8,33 kHz channel spacing capabilitit radio upgrades; iii) By 31 December 2017: Article 4(5) on the 8,33 kHz channel spacing capability of all radio and the statement of t	y of new radio equipr	nent or equipment subject to		
Supporting material(s):	ICAO - Doc 4444 - Air Traffic Management, Section 12.3.1.4 '8,33 kHz channel spacing' - Edition 16 Url : https://store.icao.int/				
	ICAO - Annex 10, Volume III, Part 2 - Aeronautical Telecommunicat (incorporating Amendment No 85), Chapter 2, Sections 2.1, 2.2, 2.3 Second Edition / 07/2007				
	Url : http://store1.icao.int/				
Finalisation criteria:	1 - Operators are able to demonstrate the conformity of airborne eq	uipment.			
		From:	By:		
ITY-AGVCS2-USE02	Organise personnel training and awareness	-	31/12/2017		
Action by:	Airspace Users	· · · ·	·		
Description & purpose:	Operators shall ensure that the personnel operating radio equipmer 1079/2012, that they are adequately trained to use this equipment a				
Finalisation criteria:	where feasible. 1 - Training manuals have been updated, as required. 2 - All personnel operating radio equipment have been trained.				
Finalisation criteria:	where feasible. 1 - Training manuals have been updated, as required.	From:	By: 07/12/2012		
ITY-AGVCS2-NM01	 where feasible. 1 - Training manuals have been updated, as required. 2 - All personnel operating radio equipment have been trained. Ensure the centralised flight planning processing and distribution service complies with the Regulation 	From: -			
	 where feasible. 1 - Training manuals have been updated, as required. 2 - All personnel operating radio equipment have been trained. Ensure the centralised flight planning processing and 	- ng processing and dis ssary instructions and nd kept up to date an anagement;	07/12/2012 stribution service [Art. 13(4)]: I information to enable all d that their update and		
ITY-AGVCS2-NM01 Action by: Description & purpose:	 where feasible. 1 - Training manuals have been updated, as required. 2 - All personnel operating radio equipment have been trained. Ensure the centralised flight planning processing and distribution service complies with the Regulation NM The Network Manager shall ensure that the centralised flight planning a) develops and maintains operations manuals containing the necess relevant personnel to apply Regulation (EU) No 1079/2012; b) ensures that the manuals referred to in point (a) are accessible a distribution are subject to appropriate quality and documentation matching the contraction matching the result of the manuals referred to appropriate quality and documentation matching the result of the manuals containing the matching the matching the manuals referred to appropriate quality and documentation matching the result of the manuals containing the matching t	- ng processing and dis ssary instructions and nd kept up to date an anagement; bly with the Regulatio	07/12/2012 stribution service [Art. 13(4)]: I information to enable all d that their update and		
ITY-AGVCS2-NM01 Action by:	 where feasible. 1 - Training manuals have been updated, as required. 2 - All personnel operating radio equipment have been trained. Ensure the centralised flight planning processing and distribution service complies with the Regulation NM The Network Manager shall ensure that the centralised flight planning a) develops and maintains operations manuals containing the necess relevant personnel to apply Regulation (EU) No 1079/2012; b) ensures that the manuals referred to in point (a) are accessible a distribution are subject to appropriate quality and documentation matched operating procedures completed operating	- ng processing and dis ssary instructions and anagement; oly with the Regulatio entation handbook	07/12/2012 stribution service [Art. 13(4)]: l information to enable all d that their update and n.		