

SES		Active							EU+	
ITY-AGVCS2		8,33 kHz Air-Ground Voice Channel Spacing below FL195								
REG	ASP	MIL	APO	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:

- 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;
- 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:

- the emergency frequency (121,5 MHz);
- the auxiliary frequency for search and rescue operations (123,1 MHz);
- 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);
- 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)

<b>Applicability Area</b>	All ECAC+ States except: Armenia, Azerbaijan, Georgia, Israel, Maastricht UAC, Moldova, Morocco, Türkiye, Ukraine		
<b>Timescales:</b>	<b>From:</b>	<b>By:</b>	<b>Applicable to:</b>
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 EC		31/12/2018	Applicability Area
State aircraft equipped, except those exempted [Art 9(11)]		31/12/2020	Applicability Area

## References

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### European ATM Master Plan

OI step -	<a href="#">-No OI Link-</a>						
Enablers -	<b>CTE-C01a</b>						

Legend:	<b>WXYZ-001</b>	Covered by SLoA(s) in this objective	<b>WXYZ-002</b> zzz	Covered by SLoA(s) in another objective Objective covering the enabler	<b>WXYZ-003</b>	Not covered in the Implementation Plan
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### Applicable legislation

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

CNS Infrastructure and Services
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### SESAR Solution

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### ICAO GANP - ASBUs

- none -
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### Deployment Programme

- none -
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### European Plan for Aviation Safety

- none -
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### Operating Environments

Airport
En-Route
Network
Terminal Airspace

## Stakeholder Lines of Action (SLoAs)

SLoA ref.	Title	From	By
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	<b>FINALISED</b>	
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	<b>FINALISED</b>	
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	<b>FINALISED</b>	

Description of finalised and deleted SLoAs is available on the eATM Portal @ [https://www.eatmportal.eu/working/depl/essip\\_objectives](https://www.eatmportal.eu/working/depl/essip_objectives)

## Expected Performance Benefits

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<b>Safety:</b>	-
<b>Capacity:</b>	-
<b>Operational Efficiency:</b>	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.
<b>Cost Efficiency:</b>	-
<b>Environment:</b>	-
<b>Security:</b>	-

### Detailed SLoA Descriptions

<b>ITY-AGVCS2-REG01</b>	<b>Ensure radios have 8,33 kHz channel spacing capability</b>	From: -	By: 31/12/2017
<b>Action by:</b>	<b>State Authorities</b>		
<b>Description &amp; purpose:</b>	<p>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:</p> <p>i) From entry into force of the Regulation, ensure that all radios having the 8,33 kHz channel spacing capability:</p> <ul style="list-style-type: none"> <li>- Are able to tune to 25 kHz spaced channels [Art. 4(6)];</li> <li>- 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) &amp; 4(8)].</li> </ul> <p>ii) From 17 November 2013:</p> <ul style="list-style-type: none"> <li>- all radio equipment put into service or subject to radio upgrades by ANSPs, operators and other users or owners of radios includes the 8,33 kHz channel spacing capability [Art. 4(2) &amp; 4(4)];</li> <li>- aircraft for which the individual certificates of airworthiness or individual flight permits are first issued in the States included in the applicability area of this objective from 17 November 2013 and have a radio equipage requirement are fitted with radios having the 8,33 kHz channel spacing capability [Art. 4(3)].</li> </ul> <p>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)].</p>		
	<p><b>Note :</b> 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 affect stakeholders that are not part of the ESSIP/LSSIP process, however this objective is limited to ATM in line with the scope of ESSIP/LSSIP.</p>		
<b>Supporting material(s):</b>	<p>ICAO - Doc 4444 - Air Traffic Management, Section 12.3.1.4 '8,33 kHz channel spacing' - Edition 16          Url : <a href="https://store.icao.int/">https://store.icao.int/</a></p> <p>EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementation handbook          Url : <a href="https://www.eurocontrol.int/publication/833khz-voice-channel-spacing-vcs-implementation-handbook">https://www.eurocontrol.int/publication/833khz-voice-channel-spacing-vcs-implementation-handbook</a></p> <p>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 : <a href="http://store1.icao.int/">http://store1.icao.int/</a></p>		
<b>Finalisation criteria:</b>	<p>1 - Where applicable, the State has published the additional local exemptions as per Article 14 of Regulation (EU) No 1079/2012.</p> <p>2 - From 17 November 2013: Measures have been taken to ensure that all radio equipment put into service or subject to radio upgrades by ANSPs, operators and other users or owners of radios includes the 8,33 kHz channel spacing capability.</p> <p>3 - From 17 November 2013: Measures have been taken to ensure that aircraft for which the individual certificates of airworthiness or individual flight permits are first issued from 17 November 2013 and have a radio equipage requirement are fitted with radios having the 8,33 kHz channel spacing capability.</p> <p>4 - 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.</p>		
<b>ITY-AGVCS2-REG02</b>	<b>Ensure the achievement of the interim target for 8,33 kHz frequency conversions</b>	From: -	By: 31/12/2014
<b>Action by:</b>	<b>State Authorities</b>		
<b>Description &amp; purpose:</b>	<p>Ensure the requirements of Article 6(3) to 6(9) of the of Regulation (EU) No 1079/2012 on 8,33 kHz conversions are met. In particular:</p> <p>i) By 31 December 2013:</p> <ul style="list-style-type: none"> <li>- With the support of the ANSP, establish the 25% target for frequency conversions as specified by Articles 6(3) and 6(4) of the Regulation;</li> <li>- Notify the Commission of the 25% target including, if this target cannot be met, a justification for not being able to achieve the target and an alternative date for achieving it. The communication shall also identify the frequency assignments that cannot be converted and the reasons for it [Art. 6(5), 6(6) &amp; 6(7)].</li> </ul> <p>ii) By 31 December 2014:</p> <ul style="list-style-type: none"> <li>- Ensure the 25% target for frequency conversions has been achieved. These conversions shall not be limited to ACC frequency assignments and shall not include operational control communication frequency assignments [Art 6(3)];</li> <li>- Ensure all operational control communication (OPC) frequency assignments in the central register are 8,33 kHz [Art 6(8)];</li> <li>- Where due to technical reasons, not all operational control communication frequency assignments can be converted, notify the Commission which frequency assignments will not be converted and a justification for it [Art 6(9)].</li> </ul>		

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<b>Specific applicability:</b>	This SLoA only applies to the States listed in Annex I of the Regulation (i.e. Germany, Ireland, France, Italy, Luxembourg, Hungary, Netherlands, Austria, United Kingdom).		
<b>Finalisation criteria:</b>	1 - 25% target for frequency conversions as per Articles 6(5) to 6(7) of the Regulation notified to the Commission. 2 - 25% target for frequency conversions achieved. 3 - All OPC frequency assignments converted to 8,33 kHz or, where applicable, OPC frequencies not converted and justification for it notified to the Commission.		
<b>ITY-AGVCS2-REG03</b>	<b>Ensure compliance with the requirements on 8,33 kHz frequency conversions</b>	<b>From:</b> -	<b>By:</b> 31/12/2018
<b>Action by:</b>	<b>State Authorities</b>		
<b>Description &amp; purpose:</b>	Ensure that, by 31 December 2018 at the latest, all frequency assignments are converted to 8,33 kHz [Art 6(10)]. Where the State decides not to convert a 25 kHz frequency assignment as a result of a safety requirement (see Derogations below) this shall be subject to a safety assessment.		
<b>Derogations:</b>	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").		
<b>Supporting material(s):</b>	EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementation handbook Url : <a href="https://www.eurocontrol.int/publication/833khz-voice-channel-spacing-vcs-implementation-handbook">https://www.eurocontrol.int/publication/833khz-voice-channel-spacing-vcs-implementation-handbook</a>		
<b>Finalisation criteria:</b>	1 - All applicable frequencies converted to 8.33 kHz are published in the national AIP.		
<b>ITY-AGVCS2-ASP01</b>	<b>Ensure conformity of voice communications systems and associated procedures</b>	<b>From:</b> -	<b>By:</b> 31/12/2018
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	Ensure that voice communication systems and associated communication procedures comply with the following articles of Regulation (EU) No 1079/2012: i) From entry into force: - Articles 4(6), 4(7) and 4(8) on interoperability and performance requirements; - Article 7(1) on operational coverage; - Article 8(1) on the identification of the transmitting channel; - Article 8(2) on air-ground voice communication procedures; - Article 8(3) 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 new radio equipment or equipment subject to radio upgrades; iii) By 31 December 2017: - Article 4(5) on the 8,33 kHz channel spacing capability of all radios.		
<b>Supporting material(s):</b>	ICAO - Doc 4444 - Air Traffic Management, Section 12.3.1.4 '8,33 kHz channel spacing' - Edition 16 Url : <a href="https://store.icao.int/">https://store.icao.int/</a> EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementation handbook Url : <a href="https://www.eurocontrol.int/publication/833khz-voice-channel-spacing-vcs-implementation-handbook">https://www.eurocontrol.int/publication/833khz-voice-channel-spacing-vcs-implementation-handbook</a> 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 : <a href="http://store1.icao.int/">http://store1.icao.int/</a>		
<b>Finalisation criteria:</b>	1 - Voice communication systems have been upgraded. 2 - The technical file (TF) with evidences of compliance and the EC declaration of verification of systems (DoV) has been delivered to the competent National Supervisory Authority (NSA). 3 - Procedures have been updated (including e.g. LoAs between centres). 4 - Upgraded communication systems have been put into service.		
<b>ITY-AGVCS2-ASP02</b>	<b>Convert 25 kHz frequencies to 8,33 kHz to achieve the interim target</b>	<b>From:</b> -	<b>By:</b> 31/12/2014
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	Ensure that the interim requirements for frequency conversions to 8,33 kHz channel spacing as specified in Articles 6(3) and 6(4) of Regulation (EU) No 1079/2012 are complied with. In particular: - By 31 December 2013, support the Regulator in the calculation and establishment of the 25% target for frequency conversions as specified by Articles 6(3) and 6(4) of the Regulation; - By 31 December 2014, ensure that the 25% target for frequency conversions referred to above and notified to the Commission is met. These conversions shall not be limited to ACC frequency assignments and shall not include operational control communication frequency assignments [Art 6(3)].		
<b>Specific applicability:</b>	This SLoA only applies to the ANSPs providing services in the States listed in Annex I of the Regulation (i.e. Germany, Ireland, France, Italy, Luxembourg, Hungary, Netherlands, Austria, United Kingdom).		
<b>ATM Master Plan relationship:</b>	<a href="#">[CTE-C01a]-Existing Voice radio (VHF 25/8.33KHz)</a>		

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<b>Finalisation criteria:</b>	1 - 25% target for frequency conversions has been achieved.		
<b>ITY-AGVCS2-ASP03</b>	<b>Convert all 25 kHz frequencies to 8,33 kHz</b>	<b>From:</b> -	<b>By:</b> 31/12/2018
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	Ensure that, by 31 December 2018 at the latest, all 25 kHz frequencies are converted 8,33 kHz [Art. 6(10)].		
<b>Derogations:</b>	<p>The conversion requirements to 8,33 kHz channel spacing do not apply to frequency assignments:</p> <p>a) that are outside the scope of the Regulation [Art 2(4)];</p> <p>b) that stay in 25 kHz as a result of a safety requirement [Art. 6(10)];</p> <p>c) 25 kHz frequency assignments used to accommodate State aircraft [Art. 6(10)].</p> <p>States may grant additional local exemptions as per Article 14 of Regulation (EU) No 1079/2012 (see Objective "Subject Matter and Scope").</p>		
<b>Supporting material(s):</b>	EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementation handbook Url : <a href="https://www.eurocontrol.int/publication/833khz-voice-channel-spacing-vcs-implementation-handbook">https://www.eurocontrol.int/publication/833khz-voice-channel-spacing-vcs-implementation-handbook</a>		
<b>ATM Master Plan relationship:</b>	<a href="#">[CTE-C01a]-Existing Voice radio (VHF 25/8.33KHz)</a>		
<b>Finalisation criteria:</b>	1 - All applicable frequencies converted to 8.33 kHz are published in the national AIP.		
<b>ITY-AGVCS2-ASP04</b>	<b>Develop safety assessment</b>	<b>From:</b> -	<b>By:</b> 31/12/2018
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	<p>Develop a safety assessment of any changes to existing systems or introduction of new systems referred to in Article 2 (1) of Regulation (EU) No 1079/2012 [Art 10].</p> <p>The tasks to be performed are as follows:</p> <ul style="list-style-type: none"> <li>- notify the NSA of planned changes;</li> <li>- conduct hazard identification, risk assessment and mitigation;</li> <li>- develop safety assessment;</li> <li>- deliver safety assessment report to the NSA, if new standards are applicable or if the severity class of identified risks is 1 or 2.</li> </ul> <p>The assessment shall be based in full validated/recognised method and shall take into consideration, as a minimum, the requirements of Annex III to the Regulation.</p>		
<b>Supporting material(s):</b>	EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementation handbook Url : <a href="https://www.eurocontrol.int/publication/833khz-voice-channel-spacing-vcs-implementation-handbook">https://www.eurocontrol.int/publication/833khz-voice-channel-spacing-vcs-implementation-handbook</a> EUROCONTROL - EAM 4 - ESARR 4 - Risk Assessment and Mitigation in ATM - Edition 1.0 / 04/2001 Url : <a href="https://www.eurocontrol.int/publication/esarr-4-risk-assessment-and-mitigation-atm">https://www.eurocontrol.int/publication/esarr-4-risk-assessment-and-mitigation-atm</a>		
<b>Finalisation criteria:</b>	1 - Safety assessment report including safety arguments for the changes has been submitted to the NSA and notification of acceptance was received.		
<b>ITY-AGVCS2-ASP05</b>	<b>Organise personnel training and awareness</b>	<b>From:</b> -	<b>By:</b> 31/12/2018
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	<p>Ensure that:</p> <ul style="list-style-type: none"> <li>- personnel are made duly aware of the requirements of the Regulation and adequately trained [Art 13.(1)]</li> <li>- operations manuals, working methods and operating procedures comply with Article 13(3) of the Regulation.</li> </ul>		
<b>Finalisation criteria:</b>	1 - The training plans have been updated and a training package has been developed. 2 - All concerned personnel have been trained.		
<b>ITY-AGVCS2-MIL01</b>	<b>Equip State aircraft with radio equipment with 8,33 kHz channel spacing capability</b>	<b>From:</b> -	<b>By:</b> 31/12/2020
<b>Action by:</b>	<b>Military Authorities</b>		

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<b>Description &amp; purpose:</b>	<p>Ensure that aircraft are equipped with 8,33 kHz channel spacing capability in compliance with the following articles of Regulation (EU) No 1079/2012:</p> <p>i) From entry into force of the Regulation, ensure that all radios having the 8,33 kHz channel spacing capability comply with:</p> <ul style="list-style-type: none"> <li>- Articles 4(6), 4(7) and 4(8) on interoperability and performance requirements;</li> <li>- Articles 8(4) and 8(5) on flight plan requirements, where applicable;</li> <li>- Article 8(6) on the notification to the IFPS, where applicable.</li> </ul> <p>ii) From 1 January 2014:</p> <ul style="list-style-type: none"> <li>- ensure all new State aircraft entering into service are equipped with radios having the 8,33 kHz channel spacing capability [Art. 9.(6)]</li> <li>- ensure that whenever the radios installed on-board State aircraft are subject to radio upgrades, the new radios have the 8,33 kHz channel spacing capability [Art. 9.(7)].</li> </ul> <p>iii) By 30 June 2018:</p> <ul style="list-style-type: none"> <li>- communicate to the Commission the list of State aircraft that cannot be equipped with 8,33 kHz radios due to compelling technical or budgetary constraints or procurement constraints [Art. 9(9)].</li> </ul> <p>iv) By 31 December 2018:</p> <ul style="list-style-type: none"> <li>- ensure all State aircraft, except those communicated to the Commission as per the previous bullet, are equipped with radios having the 8,33 kHz channel spacing capability [Art. 9(8)].</li> </ul> <p>v) By 31 December 2020:</p> <ul style="list-style-type: none"> <li>- ensure the State aircraft not equipped by 31 December 2018 due to procurement constraints (as communicated to the Commission by 30 June 2018) are equipped with radios having the 8,33 kHz channel spacing capability [Art. 9(10)].</li> </ul>		
<b>Derogations:</b>	<p>The obligation does not apply to State aircraft that will be withdrawn from operational service by 31 December 2025 [Art 9(11)].</p> <p>The State can grant additional exemptions to State aircraft that cannot be equipped with radios having the 8,33 kHz channel spacing capability due to compelling technical or budgetary constraints.</p>		
<b>Supporting material(s):</b>	<p>ICAO - Doc 4444 - Air Traffic Management, Section 12.3.1.4 '8,33 kHz channel spacing' - Edition 16          Url : <a href="https://store.icao.int/">https://store.icao.int/</a></p> <p>EUROCONTROL - GUID-174 - EUROCONTROL Guidelines on 8.33kHz Channel Spacing for Military Operators - Edition 2.0 / 07/2018          Url : <a href="https://www.eurocontrol.int/publication/eurocontrol-guidelines-833khz-channel-spacing-military-operators">https://www.eurocontrol.int/publication/eurocontrol-guidelines-833khz-channel-spacing-military-operators</a></p> <p>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 : <a href="http://store1.icao.int/">http://store1.icao.int/</a></p>		
<b>Finalisation criteria:</b>	<p>1 - List of State aircraft that cannot be equipped with 8,33 kHz radios by 31 December 2018 has been communicated to the Commission.</p> <p>2 - State aircraft have been equipped.</p>		
<b>ITY-AGVCS2-MIL02</b>	<b>Organise personnel training and awareness of military aircrew</b>	From: -	By: 31/12/2020
<b>Action by:</b>	<b>Military Authorities</b>		
<b>Description &amp; purpose:</b>	Military Authorities shall ensure that the personnel operating radio equipment are made duly aware of Regulation (EU) No 1079/2012 that they are adequately trained to use this equipment and that instructions are available in the cockpit where feasible.		
<b>Supporting material(s):</b>	<p>EUROCONTROL - GUID-174 - EUROCONTROL Guidelines on 8.33kHz Channel Spacing for Military Operators - Edition 2.0 / 07/2018          Url : <a href="https://www.eurocontrol.int/publication/eurocontrol-guidelines-833khz-channel-spacing-military-operators">https://www.eurocontrol.int/publication/eurocontrol-guidelines-833khz-channel-spacing-military-operators</a></p>		
<b>Finalisation criteria:</b>	<p>1 - Training manuals have been updated, as required.</p> <p>2 - All personnel operating radio equipment have been trained.</p>		
<b>ITY-AGVCS2-APO01</b>	<b>Convert all 25 kHz frequencies to 8,33 kHz</b>	From: -	By: 31/12/2018
<b>Action by:</b>	<b>Airport Operators</b>		
<b>Description &amp; purpose:</b>	Ensure that, by 31 December 2018 at the latest, all 25 kHz frequencies are converted 8,33 kHz [Art. 6(10)].		
<b>Derogations:</b>	<p>The conversion requirements to 8,33 kHz channel spacing do not apply to frequency assignments:</p> <p>a) that are outside the scope of the Regulation [Art 2(4)];</p> <p>b) that stay in 25 kHz as a result of a safety requirement [Art. 6(10)];</p> <p>c) 25 kHz frequency assignments used to accommodate State aircraft [Art. 6(10)].</p> <p>States may grant additional local exemptions as per Article 14 of Regulation (EU) No 1079/2012 (see Objective "Subject Matter and Scope").</p>		
<b>Supporting material(s):</b>	<p>EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementation handbook          Url : <a href="https://www.eurocontrol.int/publication/833khz-voice-channel-spacing-vcs-implementation-handbook">https://www.eurocontrol.int/publication/833khz-voice-channel-spacing-vcs-implementation-handbook</a></p>		
<b>ATM Master Plan relationship:</b>	<a href="#">[CTE-C01a]-Existing Voice radio (VHF 25/8.33KHz)</a>		
<b>Finalisation criteria:</b>	1 - All applicable frequencies converted to 8.33 kHz are published in the national AIP.		
<b>ITY-AGVCS2-APO02</b>	<b>Accommodate non-equipped vehicles</b>	From: -	By: 31/12/2017

<b>ITY-AGVCS2</b>	<b>8,33 kHz Air-Ground Voice Channel Spacing below FL195</b>
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<b>Action by:</b>	<b>Airport Operators</b>		
<b>Description &amp; purpose:</b>	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].		
<b>Finalisation criteria:</b>	1 - Procedures for handling non-8,33 kHz equipped vehicles through airport areas using 8,33 kHz channel spacing have been published and are applied as appropriate.		
<b>ITY-AGVCS2-APO03</b>	<b>Organise personnel training and awareness</b>	<b>From:</b> -	<b>By:</b> 31/12/2018
<b>Action by:</b>	<b>Airport Operators</b>		
<b>Description &amp; purpose:</b>	Ensure that the personnel operating radio equipment are made duly aware of this Regulation, that they are adequately trained for their job functions [Art 13(1)].		
<b>Finalisation criteria:</b>	1 - The training plans have been updated and a training package has been developed. 2 - All personnel operating radio equipment have been trained.		
<b>ITY-AGVCS2-USE01</b>	<b>Equip aircraft with radio equipment with 8,33 kHz channel spacing capability</b>	<b>From:</b> -	<b>By:</b> 31/12/2017
<b>Action by:</b>	<b>Airspace Users</b>		
<b>Description &amp; purpose:</b>	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: - Articles 4(6), 4(7) and 4(8) on interoperability and performance requirements; - 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 capability of new radio equipment or equipment subject to radio upgrades; iii) By 31 December 2017: - Article 4(5) on the 8,33 kHz channel spacing capability of all radios.		
<b>Supporting material(s):</b>	ICAO - Doc 4444 - Air Traffic Management, Section 12.3.1.4 '8,33 kHz channel spacing' - Edition 16 Url : <a href="https://store.icao.int/">https://store.icao.int/</a> 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 : <a href="http://store1.icao.int/">http://store1.icao.int/</a>		
<b>Finalisation criteria:</b>	1 - Operators are able to demonstrate the conformity of airborne equipment.		
<b>ITY-AGVCS2-USE02</b>	<b>Organise personnel training and awareness</b>	<b>From:</b> -	<b>By:</b> 31/12/2017
<b>Action by:</b>	<b>Airspace Users</b>		
<b>Description &amp; purpose:</b>	Operators shall ensure that the personnel operating radio equipment are made duly aware of Regulation (EU) No 1079/2012, that they are adequately trained to use this equipment and that instructions are available in the cockpit where feasible.		
<b>Finalisation criteria:</b>	1 - Training manuals have been updated, as required. 2 - All personnel operating radio equipment have been trained.		
<b>ITY-AGVCS2-NM01</b>	<b>Ensure the centralised flight planning processing and distribution service complies with the Regulation</b>	<b>From:</b> -	<b>By:</b> 07/12/2012
<b>Action by:</b>	<b>NM</b>		
<b>Description &amp; purpose:</b>	The Network Manager shall ensure that the centralised flight planning processing and distribution service [Art. 13(4)]: a) develops and maintains operations manuals containing the necessary instructions and information to enable all relevant personnel to apply Regulation (EU) No 1079/2012; b) ensures that the manuals referred to in point (a) are accessible and kept up to date and that their update and distribution are subject to appropriate quality and documentation management; c) ensures that its working methods and operating procedures comply with the Regulation.		
<b>Supporting material(s):</b>	EUROCONTROL - 8.33kHz Voice Channel Spacing (VCS) implementation handbook Url : <a href="https://www.eurocontrol.int/publication/833khz-voice-channel-spacing-vcs-implementation-handbook">https://www.eurocontrol.int/publication/833khz-voice-channel-spacing-vcs-implementation-handbook</a>		
<b>Finalisation criteria:</b>	1 - Systems, operations manuals, working methods and operating procedures have been updated in compliance with the Regulation and documented.		