

Airspace

Regulation (EU) 29/2009 as retained (and amended in UK domestic law) under the European Union (Withdrawal) Act 2018

Law downloaded on 23 June 2023

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Commission Regulation (EC) No 29/2009 of 16 January 2009 laying down requirements on data link services for the single European sky (Text with EEA relevance) (Retained EU Legislation)

Preamble



Law In Force

Version 1 of 1

Date not available - Present

Subjects

Aviation; Information technology

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Having regard to Regulation (EC) No 552/2004 of the European Parliament and of the Council of 10 March 2004 on the interoperability of the European Air Traffic Management Network (the interoperability Regulation) ¹ and in particular Article 3(1) thereof,

Having regard to Regulation (EC) No 549/2004 of the European Parliament and of the Council of 10 March 2004 laying down the framework for the creation of the single European sky (the framework Regulation) ², and in particular Article 8(2) thereof,

Whereas:

(1)

Observed and expected increases in air traffic levels within Europe require parallel increases in air traffic control capacity. This leads to a demand for operational improvements, in particular to improve efficiency of communications between controllers and pilots. Voice communications channels are becoming progressively congested and should be supplemented by air-ground data link communications.

(2)

A number of studies and trials performed within the Community and Eurocontrol confirmed the capability of data link services to enable the provision of additional air traffic control capacity. These services should be introduced in a coordinated manner to optimise the potential benefits arising from them.

(3)

Eurocontrol has been mandated in accordance with Article 8(1) of Regulation (EC) No 549/2004 to develop requirements for the coordinated introduction of data link services. This Regulation is based on the resulting mandate report of 19 October 2007.

(4)

This Regulation should not cover military operations and training as referred to in Article 1(2) of Regulation (EC) No 549/2004.

(5)

The early introduction of data link services to complement voice controller pilot communications in the en route phase is foreseen by the European Air Traffic Management Master Plan (the ATM Master Plan) resulting from the definition phase

of the SESAR project based on Council Regulation (EC) No 219/2007 of 27 February 2007 on the establishment of a Joint Undertaking to develop the new generation European air traffic management system (SESAR)³.

(6)

Data link services should be introduced in continuous and homogeneous parts of the airspace in the single European sky, starting with high density upper airspace. Considering the importance of data link services for the further development of the European Air Traffic Management Network (hereinafter EATMN), their use should be progressively expanded to the largest part of the airspace of the single European sky as defined in Article 1(3) of Regulation (EC) No 551/2004 of the European Parliament and of the Council of 10 March 2004 on the organisation and use of the airspace in the single European sky (the airspace Regulation)⁴.

(7)

A significant number of data link services have been defined by the International Civil Aviation Organisation (hereinafter ICAO) and by the European Organisation for Civil Aviation Equipment (hereinafter Eurocae). Only those which have been sufficiently validated at Eurocontrol level should be the subject of mandatory introduction, based on the standards defined by these organisations.

(8)

Traffic capacity increase enabled by data link services is dependent upon the percentage of flights operated with data link capability. A significant percentage of flights, not less than 75 %, should be equipped with such capability in order to allow sufficient capacity increase.

(9)

Operators need sufficient notice to equip their aircraft with new capabilities, both for new aircraft and for existing fleet. This should be taken into account when setting dates for mandatory equipment.

(10)

A number of aircraft, mainly for long haul oceanic operations, have already been equipped with data link capability using standards known as Future Air Navigation Systems (FANS) 1/A. It would not be economically justified to request operators to install further data link equipment on such aircraft to comply with the requirements of this Regulation. However, convergence should be achieved in the longer term between technical solutions used for oceanic operations and those defined by this Regulation. A suitable date should therefore be set in this respect.

(11)

The conditions for the dispatch of an aircraft with data link constituents temporarily inoperative should be specified in the applicable minimum equipment list required by Annex III to Council Regulation (EEC) No 3922/91 of 16 December 1991 on the harmonisation of technical requirements and administrative procedures in the field of civil aviation⁵ and by Regulation (EC) No 216/2008 of the European Parliament and of the Council of 20 February 2008 on common rules in the field of civil aviation and establishing a European Aviation Safety Agency, and repealing Council Directive 91/670/EEC, Regulation (EC) No 1592/2002 and Directive 2004/36/EC⁶ and its implementing rules.

(12)

Criteria for possible exemption, based in particular on economic or compelling technical considerations, should be identified allowing operators exceptionally not to equip specific types of aircraft with data link capability.

(13)

Transport type State aircraft represent the largest category of State aircraft flying as general air traffic in the airspace in which this Regulation applies. When Member States decide to equip such type of new aircraft with data link capability relying upon standards which are not specific to military operational requirements, they should implement technical solutions complying with this Regulation.

(14)

The uniform application within the airspace of the single European sky of specific procedures relating to the use of data link is critical for the achievement of interoperability and seamless operations.

(15)

ICAO has defined standardised air-ground applications context management (hereinafter CM) and controller-pilot data link communications (hereinafter CPDLC) for the introduction of data link services. Air traffic service providers and operators should support these applications and use a common standardised message set to ensure end-to-end interoperable implementations of data link services.

(16)

Several communication protocols can be used for exchanging data between air-ground applications. However a common set should be deployed as a minimum on the ground side to secure overall interoperability within the airspace of applicability of this Regulation. The protocols defined by ICAO based on the Aeronautical Telecommunication Network (hereinafter ATN) and the very high frequency digital link Mode 2 (hereinafter VDL 2) are currently considered to be the only validated solution for harmonised deployment. Member States should therefore ensure the availability of this solution.

(17)

ICAO supplementary regional procedures applicable in Europe are being modified in order to permit the mandatory carriage of data link constituents in the airspace of some Member States.

(18)

The possibility should be left for operators and organisations providing communication services for the exchange of data between air-ground applications to use different protocols other than ATN/VDL 2. These protocols should, however, comply with appropriate requirements ensuring that the end-to-end interoperability between air traffic services units and aircraft is maintained.

(19)

Air traffic service (hereinafter ATS) providers may choose to rely upon other organisations for the provision of air-ground data link communications services. To ensure appropriate safety, security and efficiency of these services, service level agreements should in this case be established between the parties concerned.

(20)

In order to ensure end-to-end interoperability of data link services, aircraft and ATS units with data link capability should be able to establish data link communications irrespective of the arrangements made by operators and ATS providers to ensure the availability of air-ground communications services. Appropriate measures should therefore be taken to this effect.

(21)

The information about the data link capability of flights should be included in the flight plan, processed and transmitted between the ATS units. The logon information allowing the use of air-ground data link applications and the possibility for the next ATS unit to start exchanging data with aircraft should also be processed and transmitted between ATS units.

(22)

Measures should be taken by air navigation service providers and other entities providing air-ground data link communications services to ensure appropriate security of information exchanges.

(23)

The quality of service of air-ground data link communications should be regularly monitored by ATS providers.

(24)

A common addressing scheme should be used to identify in an unambiguous manner all air and ground stations concerned by data link exchanges.

(25)

With a view to maintaining or enhancing existing safety levels of operations, Member States should be required to ensure that the parties concerned carry out a safety assessment, including hazard identification, risk assessment and mitigation processes.

(26)

In accordance with Article 3(3)(d) of Regulation (EC) No 552/2004, implementing rules for interoperability should describe the specific conformity assessment procedures to be used to assess the conformity or suitability for use of constituents as well as the verification of systems.

(27)

The measures provided for in this Regulation are in accordance with the opinion of the Single Sky Committee,

HAS ADOPTED THIS REGULATION:

Notes

- 1 OJ L 96, 31.3.2004, p. 26.
- 2 OJ L 96, 31.3.2004, p. 1.
- 3 OJ L 64, 2.3.2007, p. 1.
- 4 OJ L 96, 31.3.2004, p. 20.
- 5 OJ L 373, 31.12.1991, p. 4.
- 6 OJ L 79, 19.3.2008, p. 1.

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art. 1 Subject matter and scope



Law In Force

Version 2 of 2

31 December 2020 - Present

Subjects

Aviation; Information technology

Article 1 Subject matter and scope

1.

This Regulation lays down requirements for the [...] ¹ introduction of data link services based on air-ground point-to-point data communications as defined in Article 2(5).

2.

This Regulation shall apply to:

- (a) flight data processing systems, their constituents and associated procedures, and human-machine interface systems, their constituents and associated procedures, serving air traffic control units providing services to general air traffic;
- (b) airborne human-machine interface constituents and associated procedures;
- (c) air-ground communication systems, their constituents and associated procedures.

3.

This Regulation shall apply to all flights operating as general air traffic in accordance with instrument flight rules within the airspace above FL285 [under the responsibility of the United Kingdom] ² .

4.

This Regulation shall apply to air traffic service providers (hereinafter ATS providers) providing services to general air traffic within the airspace referred to in paragraph 3 and in accordance with the relevant dates of application.

Notes

- ¹ Word repealed by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 [Pt 3\(5\) reg.125\(2\)](#) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))
- ² Words substituted by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 [Pt 3\(5\) reg.125\(3\)](#) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))

Enacting Terms > art. 1 Subject matter and scope

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art. 2 Definitions



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Subjects

Aviation; Information technology

Article 2 Definitions

For the purpose of this Regulation the definitions in Article 2 of Regulation (EC) No 549/2004 shall apply.

The following definitions shall also apply:

1. '*data link service*' means a set of related air traffic management transactions, supported by air-ground data link communications, which have a clearly defined operational goal and begin and end on an operational event;
2. '*operator*' means a person, organisation or enterprise engaged in, or offering to engage in, an aircraft operation;
3. '*air traffic services unit*' (hereinafter ATS unit) means a unit, civil or military, responsible for providing air traffic services;
4. '*service level agreement*' means that part of a service contract between organisations in which a certain level of service is agreed, in particular in relation to the quality and performance of the data communications service;
5. '*air-ground point-to-point data communication*' means a two-way communication between an aircraft and a ground communication entity relying upon a set of distributed functions to achieve:
 - (a) the transmission and reception of uplink and downlink bit frames over a mobile data link between ground and aircraft communication systems;
 - (b) the transmission and reception of data units between ground and aircraft systems hosting the air-ground applications with:
 - (i) the relay of data units throughout ground communication paths and mobile data links;
 - (ii) the cooperative mechanisms of both ends for the transport of data units;
6. '*State aircraft*' means any aircraft used for military, customs and police;
7. '*transport type State aircraft*' means fixed wing State aircraft that are designed for the purpose of transporting persons and/or cargo;
8. '*air-ground application*' means a set of cooperative air-ground functions in support of air traffic services;
9. '*end-to-end communication*' means the transfer of information between peer air-ground applications;
10. '*air-ground communication*' means a two-way communication between aircraft and ground communication systems;
11. '*security policy*' means a set of objectives, rules of behaviour for users and administrators, and requirements for system configuration and management that collectively are designed to safeguard systems and communication resources concerned with the provision of data link services against acts of unlawful interference;
12. '*addressing information*' means information pertaining to the system or network address of an entity participating in air-ground data link communication and enabling the location of the entity to be unambiguously determined;

13. ‘*integrated initial flight plan processing system*’ (hereinafter IFPS) means a system [...] ¹ through which a centralised flight planning processing and distribution service, dealing with the reception, validation and distribution of flight plans, is provided within the airspace [under the responsibility of the States participating in that service] ² ;

14. ‘*inoperative*’ in relation to an airborne constituent means that the constituent does not accomplish its intended purpose or is not consistently functioning within its operating limits or tolerances.

Notes

1 Words repealed by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 [Pt 3\(5\) reg.126\(a\)](#) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))

2 Words substituted by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 [Pt 3\(5\) reg.126\(b\)](#) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))

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art. 3 Data link services



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Subjects

Aviation; Information technology

Article 3 Data link services

1.

ATS providers shall ensure that ATS units providing air traffic services within the airspace referred to in Article 1(3) have the capability to provide and operate the data link services defined in Annex II.

2.

Without prejudice to paragraph 3, operators shall ensure that aircraft operating flights referred to in Article 1(3) have the capability to operate the data link services defined in Annex II as from 5 February 2020.

3.

Paragraph 2 shall not apply to:

- (a) aircraft with an individual certificate of airworthiness first issued before 1 January 1995;
- (b) aircraft which have an individual certificate of airworthiness first issued before 31 December 2003 and which will cease operation in the airspace referred to in paragraph 3 of Article 1 before 31 December 2022;
- (c) aircraft with an individual certificate of airworthiness first issued before 1 January 2018 and fitted prior to this date with data link equipment compliant with the requirements of one of the Eurocae documents specified in point 10 of Annex III;
- (d) aircraft which have a certified maximum seating capacity of 19 passengers or less and a maximum certified take-off mass of 45359 Kg (100000 lbs) or less and with a first individual certificate of airworthiness issued before 5 February 2020;
- (e) State aircraft;
- (f) aircraft flying in the airspace referred to in paragraph 3 of Article 1 for testing, delivery or for maintenance purposes or with data link constituents temporarily inoperative under conditions specified in the applicable minimum equipment list required by point 1 of Annex III.

4.

[If the Secretary of State decides]¹ to equip new transport type State aircraft entering into service after 1 January 2019 with data link capability relying upon standards which are not specific to military operational requirements, [the Secretary of State]² shall ensure that those aircraft have the capability to operate the data link services defined in Annex II.

Notes

- 1 Words substituted by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 Pt 3(5) reg.127(a) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))
 - 2 Words inserted by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 Pt 3(5) reg.127(b) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))
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art. 4 Associated procedures



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Date not available - Present

Subjects

Aviation; Information technology

Article 4 Associated procedures

ATS providers providing air traffic services and operators using air traffic services supported by the data link services defined in Annex II shall apply common standardised procedures consistent with relevant provisions of the International Civil Aviation Organisation (hereinafter ICAO) for:

1. the establishment of controller — pilot data link communications (hereinafter CPDLC);
2. the exchange of operational CPDLC messages;
3. the transfer of CPDLC;
4. the temporary discontinuation of the use of CPDLC pilot requests;
5. failure and shutdown of CPDLC;
6. the filing of flight plans regarding information pertaining to data link capability.

Enacting Terms > art. 4 Associated procedures

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art. 5 Obligations of ATS providers for data link communications



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Subjects

Aviation; Information technology

Article 5 Obligations of ATS providers for data link communications

1.

ATS providers shall ensure that the ground systems referred to in Article 1(2) and their constituents support the air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III.

2.

ATS providers shall ensure that the ground systems referred to in Article 1(2)(c) and their constituents apply end-to-end communications in compliance with the requirements of Part A of Annex IV for data exchanges of the air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III.

3.

ATS providers that rely upon other organisations for the provision of communication services for data exchanges with aircraft which are necessary for air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III shall ensure that those services are provided in accordance with the terms and conditions of a service level agreement, including in particular:

- (a) the description of communication services in accordance with the requirements of the data link services defined in Annex II;
- (b) the description of the security policy put in place to secure data exchanges of the air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III;
- (c) the relevant materials to be supplied for the monitoring of the quality of service and performances of communication services.

4.

ATS providers shall make appropriate arrangements to ensure that data exchanges can be established with all aircraft flying in the airspace under their responsibility and having data link capability in accordance with the requirements of this Regulation, with due regard to possible coverage limitations inherent in the communication technology used.

5.

ATS providers shall implement in their flight data processing systems the log on forward and next authority notification processes between ATC units in accordance with Commission Regulation (EC) No 1032/2006¹ as far as the requirements for automatic systems for the exchange of flight data supporting data link services are concerned.

6.

ATS providers shall monitor the quality of service of communication services and verify their conformance with the level of performance required for the operational environment under their responsibility.

Notes

1 OJ L 186, 7.7.2006, p. 27.

Enacting Terms > art. 5 Obligations of ATS providers for data link communications

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art. 6 Obligations of operators for data link communications



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Subjects

Aviation; Information technology

Article 6 Obligations of operators for data link communications

1.

Operators shall ensure that airborne systems referred to in Article 1(2)(c) and their constituents installed on-board aircraft referred to in Article 3(2) support the air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III.

2.

Operators shall ensure that airborne systems referred to in Article 1(2)(c) and their constituents installed on-board aircraft referred to in Article 3(2) apply end-to-end communications in compliance with the requirements of Part A of Annex IV for data exchanges of the air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III.

3.

Operators shall ensure that airborne systems referred to in Article 1(2)(c) and their constituents installed on-board aircraft referred to in Article 3(2) apply air-ground communications in compliance with the requirements of Part B or Part C of Annex IV for data exchanges of the air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III.

4.

Operators referred to in paragraph 3 shall make appropriate arrangements to ensure that data exchanges can be established between their aircraft having data link capability and all ATS units which may control the flights they operate in the airspace referred to in Article 1(3), with due regard to possible coverage limitations inherent in the communication technology used.

Enacting Terms > art. 6 Obligations of operators for data link communications

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art. 7 General obligations of the CAA for data link communications



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Subjects

Aviation; Information technology

Article 7 General obligations of [the CAA]¹ for data link communications

1.

[The CAA]² shall ensure that air-ground communications services applying the requirements of Part B of Annex IV are available to operators for aircraft flying within that airspace under [its]³ responsibility for data exchanges of the air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III, with due regard to possible coverage limitations inherent in the communication technology used.

2.

[The CAA]⁴ shall ensure that air navigation service providers and other entities providing communication services implement an appropriate security policy for data exchanges of the data link services defined in Annex II, notably by applying common security rules to protect distributed physical resources supporting those data exchanges.

3.

[The CAA]⁴ shall ensure that harmonised procedures apply for the management of addressing information in order to unambiguously identify air and ground communications systems supporting data exchanges of the air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III.

Notes

- 1 Words substituted by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 [Pt 3\(5\) reg.128\(2\)](#) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))
- 2 Words substituted by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 [Pt 3\(5\) reg.128\(3\)\(a\)](#) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))
- 3 Word substituted by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 [Pt 3\(5\) reg.128\(3\)\(b\)](#) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))
- 4 Words substituted by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 [Pt 3\(5\) reg.128\(4\)](#) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))

Enacting Terms > art. 7 General obligations of the CAA for data link communications

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art. 8 Data link communication for transport type State aircraft



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Subjects

Aviation; Information technology

Article 8 Data link communication for transport type State aircraft

1.

[The Secretary of State]¹ shall ensure that airborne systems referred to in Article 1(2)(c) and their constituents installed on-board transport type State aircraft referred to in Article 3(4) support the air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III.

2.

[The Secretary of State]¹ shall ensure that airborne systems referred to in Article 1(2)(c) and their constituents installed on-board transport type State aircraft referred to in Article 3(4) apply end-to-end communications in compliance with requirements of Part A of Annex IV for data exchanges of the air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III.

3.

[The Secretary of State]¹ shall ensure that airborne systems referred to in Article 1(2)(c) and their constituents installed on-board transport type State aircraft referred to in Article 3(4) apply air-ground communications in compliance with requirements specified in Part B or Part C of Annex IV for data exchanges of the air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III.

Notes

- 1 Words substituted by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 [Pt 3\(5\)](#) [reg.129](#) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))

Enacting Terms > art. 8 Data link communication for transport type State aircraft

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art. 9 Obligations of air navigation services providers and other entities for data link communications



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Subjects

Aviation; Information technology

Article 9 Obligations of air navigation services providers and other entities for data link communications

Air navigation service providers and other entities providing communication services for data exchanges of the air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III shall ensure that the ground systems referred to in Article 1(2)(c) apply air-ground communications in compliance with requirements of Part B or Part C of Annex IV.

Enacting Terms > art. 9 Obligations of air navigation services providers and other entities for data link communications

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art. 10 Safety requirements



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31 December 2020 - Present

Subjects

Aviation; Information technology

Article 10 Safety requirements

[The CAA]¹ shall take the necessary measures to ensure that any changes to the existing systems referred to in Article 1(2) or the introduction of new systems are preceded by a safety assessment, including hazard identification, risk assessment and mitigation, conducted by the parties concerned.

Notes

- 1 Words substituted by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 Pt 3(5) reg.130 (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))

Enacting Terms > art. 10 Safety requirements

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art. 11 Conformity or suitability for use of constituents



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Subjects

Aviation; Information technology

Article 11 Conformity or suitability for use of constituents

[1.

Before issuing a declaration of conformity or suitability for use referred to in Article 5 of Regulation (EC) No 552/2004, manufacturers of constituents of the systems referred to in Article 1(2) of this Regulation, or if the manufacturer is not established in the United Kingdom their authorised representatives established in the United Kingdom, shall assess the conformity or suitability for use of those constituents in accordance with the requirements set out in Annex V.

2.

However, certification airworthiness processes complying with Regulation (EC) No 216/2008, when applied to airborne constituents referred to in Article 1(2)(b) and (c) of this Regulation, shall be considered acceptable procedures for the conformity assessment of those constituents if they include the demonstration of compliance with the interoperability, performance and safety requirements of this Regulation.

] ¹

Notes

- 1 Existing text renumbered as art.11 paras 1 and 2 and words amended by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 [Pt 3\(5\) reg.131](#) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))

Enacting Terms > art. 11 Conformity or suitability for use of constituents

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art. 12 Verification of systems



Law In Force

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31 December 2020 - Present

Subjects

Aviation; Information technology

Article 12 Verification of systems

1.

Air navigation service providers who demonstrate or have demonstrated that they fulfil the conditions set out in Annex VI shall conduct a verification of the systems referred to Article 1(2)(a) and (c) in compliance with the requirements set out in Part A of Annex VII.

2.

Air navigation service providers which cannot demonstrate that they fulfil the conditions set out in Annex VI shall subcontract to [an appointed]¹ body a verification of the systems referred to in Article 1(2)(a) and (c). That verification shall be conducted in accordance with the requirements set out in Part B of Annex VII.

Notes

- ¹ Words substituted by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 Pt 3(5) reg.132 (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))

Enacting Terms > art. 12 Verification of systems

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art. 13 Additional requirements



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31 December 2020 - Present

Subjects

Aviation; Information technology

Article 13 Additional requirements

1.

ATS providers shall ensure that air-ground data exchanges of the air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III, are recorded in accordance with the ICAO standards specified in points 6, 7 and 8 of Annex III, insofar as they relate to the ground-based recording function of data link communications.

2.

The Eurocae document specified in point 9 of Annex III shall be considered sufficient means of compliance with regard to the requirements for recording of air-ground data exchanges referred to in paragraph 1 identified in the ICAO standards specified in points 6, 7 and 8 of Annex III.

3.

ATS providers shall:

- (a) develop and maintain operations manuals containing the necessary instructions and information to enable all personnel concerned to apply this Regulation;
- (b) ensure 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 configuration management;
- (c) ensure that the working methods and operating procedures comply with this Regulation.

4.

[The Secretary of State]¹ shall take the necessary measures to ensure that the centralised flight planning processing and distribution service:

- (a) develops and maintains operations manuals containing the necessary instructions and information to enable all personnel concerned to apply this Regulation;
- (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 configuration management;
- (c) ensures that the working methods and operating procedures comply with this Regulation.

5.

Air navigation service providers shall ensure that all personnel concerned are made duly aware of the relevant provisions of this Regulation and that they are adequately trained for their job functions.

6.

Operators shall take the necessary measures to ensure that the personnel operating data link equipment are made duly aware of this Regulation and that they are adequately trained for their job functions, and that instructions about how to use data link equipment are available in the cockpit where feasible.

7.

[The Secretary of State] ¹ shall take the necessary measures to ensure that the personnel involved in flight planning who operate the IFPS are made duly aware of the requirements laid down in this Regulation and that they are adequately trained for their job functions.

8.

[The Secretary of State] ¹ shall ensure that relevant information on the use of data link services is published in the national aeronautical information publications.

Notes

- ¹ Words substituted by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 Pt 3(5) reg.133 (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))

Enacting Terms > art. 13 Additional requirements

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art. 14 Exemptions



Repealed

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Subjects

Aviation; Information technology

[...] ¹

Notes

- ¹ Repealed by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 [Pt 3\(5\)](#) [reg.134](#) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))

Enacting Terms > art. 14 Exemptions

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art. 15 Entry into force and application



Repealed

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Subjects

Aviation; Information technology

[...] ¹

Notes

- ¹ Repealed by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 [Pt 3\(5\)](#) [reg.135](#) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))

Enacting Terms > art. 15 Entry into force and application

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Signatures



Law In Force

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Subjects

Aviation; Information technology

[...] ¹

Done at Brussels, 16 January 2009.

For the Commission

Antonio Tajani

Vice-President

Notes

- 1 Words repealed by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 [Pt 3\(5\) reg.136](#) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))

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Annex I Airspace referred to in Article 1(3) para. 1



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Subjects

Aviation; Information technology

[...] ¹

Notes

- 1 Repealed by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 [Pt 3\(5\)](#) [reg.137](#) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))

Annex I Airspace referred to in Article 1(3) > Annex partA > para. 1

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Annex I Airspace referred to in Article 1(3) para. 1



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Subjects

Aviation; Information technology

[...] ¹

Notes

- 1 Repealed by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 [Pt 3\(5\)](#) [reg.137](#) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))

Annex I Airspace referred to in Article 1(3) > Annex partB > para. 1

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Annex II Definition of data link services referred to in Articles 3, 4, 5 and 7 and Annex IV para. 1



Law In Force

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Date not available - Present

Subjects

Aviation; Information technology

1. Definition of Data Link Communications Initiation Capability (DLIC)

The DLIC service shall enable the exchange of the necessary information for the establishment of data link communications between ground and aircraft data link systems.

The DLIC service shall be available to support:

- the unambiguous association of flight data from the aircraft with flight plan data used by an ATS unit,
- the exchange of the supported air–ground application type and version information,
- and the delivery of the addressing information of the entity hosting the application.

The exchanges between airborne and ground data link systems for the execution of DLIC service shall comply with:

- operating methods, time sequence diagrams and messages for the DLIC initiation and DLIC contact functions specified in Section 4.1 of the Eurocae document identified in point 11 of Annex III,
- safety requirements specified in Section 4.2.2 of the Eurocae document identified in point 11 of Annex III,
- performance requirements specified in Section 4.3.2 of the Eurocae document identified in point 11 of Annex III.

2. Definition of ATC Communications Management service (ACM)

The ACM service shall provide automated assistance to flight crews and air traffic controllers for conducting the transfer of ATC communications (voice and data) comprising:

- the initial establishment of CPDLC with an ATS unit,
- the transfer of CPDLC and voice for a flight from one ATS unit to the next ATS unit, or to instruct a change of voice channel within an ATS unit or sector,
- the normal termination of CPDLC with an ATS unit.

The exchanges between airborne and ground data link systems for the execution of ACM service shall comply with:

- operating methods and time sequence diagrams specified in Sections 5.1.1.1.1 to 5.1.1.1.7 and 5.1.1.2 of the Eurocae document identified in point 11 of Annex III,
- safety requirements specified in Section 5.1.2.3 of the Eurocae document identified in point 11 of Annex III, excluding requirements relating to downstream clearance,
- performance requirements for the en route phase specified in Section 5.1.3.2 of the Eurocae document identified in point 11 of Annex III.

3. Definition of ATC Clearances and Information service (ACL)

The ACL service shall provide flight crews and controllers with the ability to conduct operational exchanges comprising:

- requests and reports from flight crews to air traffic controllers,
- clearances, instructions and notifications issued by air traffic controllers to flight crews.

The exchanges between airborne and ground data link systems for the execution of ACL service shall comply with:

- operating methods and time sequence diagrams specified in Sections 5.2.1.1.1 to 5.2.1.1.4 and 5.2.1.2 of the Eurocae document identified in point 11 of Annex III,
- a common subset of the message elements specified in Section 5.2.1.1.5 of the Eurocae document identified in point 11 of Annex III as appropriate to the en route operational environment,
- safety requirements specified in Section 5.2.2.3 of the Eurocae document identified in point 11 of Annex III,
- performance requirements for the en route phase specified in Section 5.2.3.2 of the Eurocae document identified in point 11 of Annex III.

4. Definition of ATC Microphone Check service (AMC)

The AMC service shall provide air traffic controllers with the capability to send an instruction to several data link equipped aircraft, at the same time, in order to instruct flight crews to verify that their voice communication equipment is not blocking a given voice channel.

This instruction shall only be issued to those aircraft tuned to the frequency that is blocked.

The exchanges between airborne and ground data link systems for the execution of AMC service shall comply with:

- operating methods and time sequence diagrams specified in Sections 5.3.1.1.1, 5.3.1.1.2 and 5.3.1.2 of the Eurocae document identified in point 11 of Annex III,
- safety requirements specified in Section 5.3.2.3 of the Eurocae document identified in point 11 of Annex III,

— performance requirements specified in Section 5.3.3.2 of the Eurocae document identified in point 11 of Annex III.

Annex II Definition of data link services referred to in Articles 3, 4, 5 and 7 and Annex IV > para. 1

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Annex III

para. 1



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Subjects

Aviation; Information technology

1.

ORO.MLR.105 of Annex III to Commission Regulation (EU) No 965/2012 of 5 October 2012 laying down technical requirements and administrative procedures related to air operations, or ICAO Annex 6 — Operation of aircraft, Part I, (International Commercial Air Transport — Aeroplanes) (11th edition, July 2018, incorporating amendment 43), or ICAO Annex 6 — Operation of aircraft, Part II (International General Aviation — Aeroplanes) (Tenth edition, July 2018, incorporating amendment 36).

2.

Chapter 3 — Aeronautical Telecommunication Network, Section 3.5.1.1 ‘Context Management’ (CM) application items (a) and (b) of ICAO Annex 10 — Aeronautical Telecommunications — Volume III, Part I (Digital Data Communication Systems) (Second edition, July 2007, incorporating amendments 70-82).

3.

Chapter 3 — Aeronautical Telecommunication Network, Section 3.5.2.2 ‘Controller-Pilot Data Link Communications’ (CPDLC) application items (a) and (b) of ICAO Annex 10 — Aeronautical Telecommunications — Volume III, Part I (Digital Data Communication Systems) (Second edition, July 2007, incorporating amendments 70-82).

4.

Chapter 3 — Aeronautical Telecommunication Network, Sections 3.3, 3.4 and 3.6 of ICAO Annex 10 — Aeronautical Telecommunications — Volume III, Part I (Digital Data Communication Systems) (Second edition, July 2007, incorporating amendments 70-82).

5.

Chapter 6 — VHF air-ground digital link (VDL) of ICAO Annex 10 — Aeronautical Telecommunications — Volume III, Part I (Digital Data Communication Systems) (Second edition, July 2007, incorporating amendment 90).

6.

Chapter 3 — General procedures for the international aeronautical telecommunication service, Section 3.5.1.5 of ICAO Annex 10 — Aeronautical Telecommunications — Volume II (Communication Procedures including those with PANS status) (Seventh edition, July 2016, incorporating amendments 40-90).

7.

Chapter 2 — General — Section 2.26.3 of ICAO Annex 11 — Air Traffic Services (14th edition, July 2016, incorporating amendment 50-A).

8.

Chapter 6 — Air traffic services requirements for communications — Sections 6.1.1.2, of ICAO Annex 11 — Air Traffic Services (14th edition, July 2016, incorporating amendment 50-A).

9.

Eurocae ED-111, Functional specifications for CNS/ATM ground recording, July 2002, including Amendment 1 (30.7.2003).

10.

Eurocae ED-100 (September 2000) and ED-100A (April 2005), Interoperability requirements for ATS applications using ARINC 622 Data Communications.

11.

Eurocae ED-120 Safety and Performance Requirements Standard for Air Traffic Data Link Services in Continental Airspace, published in May 2004, including:

(a) for operators:

— Change 1, published in April 2007, and Change 2, published in October 2007, or

— Change 1, published in April 2007, Change 2, published in October 2007, and Change 3, published in September 2019;

(b) for ATS providers:

— Change 1, published in April 2007, Change 2, published in October 2007, and Change 3, published in September 2019.

Annex III > para. 1

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Annex IV Requirements referred to in Articles 5, 6, 7, 8 and 9 para. 1



Law In Force

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Date not available - Present

Subjects

Aviation; Information technology

1.

End-to-end data communications shall ensure seamless provision and use of communication services in the airspace referred to in Article 1(3).

2.

End-to-end data communications shall support the exchange of messages in support of the data link services defined in Annex II, in accordance with a common standardised messages set.

3.

End-to-end data communications shall support a common standardised end-to-end protection mechanism to ensure the integrity of messages received consistent with safety requirements of the data link services defined in Annex II.

*Annex IV Requirements referred to in Articles 5, 6, 7, 8 and 9 >
Annex part A Requirements for end-to-end communications > para. 1*

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Annex IV Requirements referred to in Articles 5, 6, 7, 8 and 9 para. 1



Law In Force

Version 1 of 1

Date not available - Present

Subjects

Aviation; Information technology

1.

Air-ground communications shall be designed to support end-to-end communications and to ensure seamless provision and use of communications services to air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III in the airspace referred to in Article 1(3).

2.

Air-ground communications shall comply with safety and performance requirements of the data link services defined in Annex II.

3.

Air-ground communications shall be based on a common addressing scheme.

4.

The transmission and reception of data units between ground and aircraft systems hosting the air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III shall be based on communication protocols which comply with the ICAO standards defining the Aeronautical Telecommunication Network referred to in point 4 of Annex III.

5.

The ground and aircraft communication system characteristics and the transmission and reception of bit frames between ground and aircraft communication systems shall comply with the ICAO standards defining the very high frequency digital link, VDL Mode 2, referred to in point 5 of Annex III.

*Annex IV Requirements referred to in Articles 5, 6, 7, 8 and 9 > Annex partB
Requirements for air-ground communications based on ATN and VDL Mode 2 > para. 1*

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Annex IV Requirements referred to in Articles 5, 6, 7, 8 and 9 para. 1



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Subjects

Aviation; Information technology

1.

Air-ground communications shall be designed to support end-to-end communications and to ensure seamless provision and use of communications services to air-ground applications defined in the ICAO standards specified in points 2 and 3 of Annex III in the airspace referred to in Article 1(3).

2.

Air-ground communications shall comply with safety and performance requirements of the data link services defined in Annex II.

3.

Air-ground communications shall be based on a common addressing scheme.

4.

The transmission and reception of bit frames between ground and aircraft communication systems shall be based on communication protocols fulfilling the conditions set out in Part D.

*Annex IV Requirements referred to in Articles 5, 6, 7, 8 and 9 > Annex partC Requirements
for air-ground communications based on other communication protocols > para. 1*

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Annex IV Requirements referred to in Articles 5, 6, 7, 8 and 9 para. 1



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Date not available - Present

Subjects

Aviation; Information technology

1.

Communication protocols must support end-to-end communications.

2.

Communication protocols must be subject to a safety case to demonstrate compliance with safety and performance requirements of the data link services defined in Annex II.

3.

Communication protocols must support bidirectional point-to-point communications using those parts of the radio frequency spectrum identified by ICAO as suitable for air-ground data communications in support of air traffic services.

4.

Communication protocols must include a mechanism to manage mobile connectivity between ground and airborne stations in a transparent way.

5.

Communication protocols must be specified and validated with respect to airworthiness regulations and operational approval regulations applicable to aircraft communication equipment.

6.

Communication systems supporting these protocols must not create harmful effects on airborne and ground installations supporting VDL 2.

Annex IV Requirements referred to in Articles 5, 6, 7, 8 and 9 > Annex partD Conditions referred to in Part C > para. 1

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Annex V Requirements for the assessment referred to in Article 11 of the conformity or suitability for use of constituents para. 1



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Subjects

Aviation; Information technology

1.

The verification activities shall demonstrate the conformity or suitability for use of constituents implementing the data link services, end-to-end communications and air-ground communications with the applicable requirements of this Regulation whilst those constituents are in operation in the test environment.

2.

The manufacturer shall manage the conformity assessment activities and shall in particular:

- determine the appropriate test environment,
- verify that the test plan describes the constituents in the test environment,
- verify that the test plan provides full coverage of applicable requirements,
- ensure the consistency and quality of the technical documentation and the test plan,
- plan the test organisation, staff, installation and configuration of test platform,
- perform the inspections and tests as specified in the test plan,
- write the report presenting the results of inspections and tests.

3.

The manufacturer shall ensure that the constituents implementing data link services, end-to-end communications and air-ground communications, integrated in the test environment meet the applicable requirements of this Regulation.

4.

Upon satisfying completion of verification of conformity or suitability for use, the manufacturer shall under its responsibility draw up the [...] ¹ declaration of conformity or suitability for use, specifying the applicable requirements of this Regulation met by the constituent and its associated conditions of use in accordance with point 3 of Annex III to Regulation (EC) No 552/2004.

Notes

- 1 Word repealed by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 Pt 3(5) reg.138 (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))
-

*Annex V Requirements for the assessment referred to in Article 11
of the conformity or suitability for use of constituents > para. 1*

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Annex VI Conditions referred to in Article 12 para. 1



Law In Force

Version 1 of 1

Date not available - Present

Subjects

Aviation; Information technology

1.

The air navigation service provider must have in place reporting methods within the organisation which ensure and demonstrate impartiality and independence of judgement in relation to the verification activities.

2.

The air navigation service provider must ensure that the personnel involved in verification processes, carry out the checks with the greatest possible professional integrity and the greatest possible technical competence and are free of any pressure and incentive, in particular of a financial type, which could affect their judgement or the results of their checks, in particular from persons or groups of persons affected by the results of the checks.

3.

The air navigation service provider must ensure that the personnel involved in verification processes, have access to the equipment that enables them to properly perform the required checks.

4.

The air navigation service provider must ensure that the personnel involved in verification processes, have sound technical and vocational training, satisfactory knowledge of the requirements of the verifications they have to carry out, adequate experience of such operations, and the ability required to draw up the declarations, records and reports to demonstrate that the verifications have been carried out.

5.

The air navigation service provider must ensure that the personnel involved in verification processes, are able to perform their checks with impartiality. Their remuneration shall not depend on the number of checks carried out, or on the results of such checks.

Annex VI Conditions referred to in Article 12 > para. 1

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Annex VII

para. 1



Law In Force

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31 December 2020 - Present

Subjects

Aviation; Information technology

1.

The verification of systems identified in Article 1(2) shall demonstrate the conformity of these systems with the applicable requirements of this Regulation in an assessment environment that reflects the operational context of these systems.

2.

The verification of systems identified in Article 1(2) shall be conducted in accordance with appropriate and recognised testing practices.

3.

Test tools used for the verification of systems identified in Article 1(2) shall have appropriate functionalities.

4.

The verification of systems identified in Article 1(2) shall produce the elements of the technical file required by point 3 of Annex IV to Regulation (EC) No 552/2004, including the following elements:

- description of the implementation,
- the report of inspections and tests achieved before putting the system into service.

5.

The air navigation service provider shall manage the verification activities and shall in particular:

- determine the appropriate operational and technical assessment environment reflecting the operational environment,
- verify that the test plan describes the integration of systems identified in Article 1(2) in an operational and technical assessment environment,
- verify that the test plan provides full coverage of the interoperability and performance requirements of this Regulation,
- ensure the consistency and quality of the technical documentation and the test plan,
- plan the test organisation, staff, installation and configuration of the test platform,

- perform the inspections and tests as specified in the test plan,
- write the report presenting the results of inspections and tests.

6.

The air navigation service provider shall ensure that the systems identified in Article 1(2) operated in an operational assessment environment meet the applicable requirements of this Regulation.

7.

Upon satisfying completion of verification of compliance, air navigation service providers shall draw up the [...] ¹ declaration of verification of system and submit it to the [CAA] ² together with the technical file as required by Article 6 of Regulation (EC) No 552/2004.

Notes

- 1 Word repealed by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 Pt 3(5) reg.139(2)(a) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))
- 2 Words substituted by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 Pt 3(5) reg.139(2)(b) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))

Annex VII > Annex partA Requirements for the verification of systems referred to in Article 12(1) > para. 1

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Annex VII

para. 1



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Subjects

Aviation; Information technology

1.

The verification of systems identified in Article 1(2) shall demonstrate the conformity of these systems with the applicable requirements of this Regulation in an assessment environment that reflects the operational context of these systems.

2.

The verification of systems identified in Article 1(2) shall be conducted in accordance with appropriate and recognised testing practices.

3.

Test tools used for the verification of systems identified in Article 1(2) shall have appropriate functionalities.

4.

The verification of systems identified in Article 1(2) shall produce the elements of the technical file required by point 3 of Annex IV to Regulation (EC) No 552/2004, including the following elements:

— description of the implementation,

— the report of inspections and tests achieved before putting the system into service.

5.

The air navigation service provider shall determine the appropriate operational and technical assessment environment reflecting the operational environment and shall have verification activities performed by [an appointed] ¹ body.

6.

The [appointed] ² body shall manage the verification activities and shall in particular:

— verify that the test plan describes the integration of systems identified in Article 1(2) in an operational and technical assessment environment,

— verify that the test plan provides full coverage of the requirements of this Regulation,

— ensure the consistency and quality of the technical documentation and the test plan,

- plan the test organisation, staff, installation and configuration of the test platform,
- perform the inspections and tests as specified in the test plan,
- write the report presenting the results of inspections and tests.

7.

The [appointed]² body shall ensure that the systems identified in Article 1(2) operated in an operational assessment environment meet the applicable requirements of this Regulation.

8.

Upon satisfying completion of verification tasks, the [appointed]² body shall draw up a certificate of conformity in relation to the tasks it carried out.

9.

Then, the air navigation service provider shall draw up the [...] ³ declaration of verification of system and submit it to the [CAA] ⁴ together with the technical file as required by Article 6 of Regulation (EC) No 552/2004.

Notes

- 1 Words substituted by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 Pt 3(5) reg.139(3) (a) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))
- 2 Word substituted by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 Pt 3(5) reg.139(3) (b) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))
- 3 Word repealed by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 Pt 3(5) reg.139(3)(c) (i) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))
- 4 Words substituted by Air Traffic Management (Amendment etc.) (EU Exit) Regulations 2019/459 Pt 3(5) reg.139(3) (c)(ii) (December 31, 2020: shall come into force on IP completion day not exit day as specified in 2020 c.1 s.39(1) and Sch.5 para.1(1))

Annex VII > Annex partB requirements for the verification of systems referred to in Article 12(2) > para. 1

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