

SES		Removed							EU+	
ITY-ADQ		Ensure Quality of Aeronautical Data and Aeronautical Information								
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

Subject matter and scope

This SES-related implementation objective is derived from Regulation (EU) No 73/2010 of 26 January 2010, amended by Commission Implementing Regulation (EU) No 1029 of 26 September 2014, laying down requirements on the quality of aeronautical data and aeronautical information for the single European sky (Official Journal L23/6, dated 27.01.2010). The Regulation lays down the requirements on the quality of aeronautical data and aeronautical information in terms of accuracy, resolution and integrity [Article 1].

It applies to European Air Traffic Management Network (EATM Network) systems, their constituents and associated procedures involved in the origination, production, storage, handling, processing, transfer and distribution of aeronautical data and aeronautical information [Article 2(1)].

The Regulation applies to the following aeronautical data and aeronautical information [Article 2(1)]:

- the integrated aeronautical information package (IAIP) made available by Member States, with the exception of aeronautical information circulars;
- electronic obstacle and electronic terrain data or elements thereof, where made available by Member States;
- aerodrome mapping data, where made available by Member States.

It applies to ANSPs, AIS Providers, operators of those aerodromes and heliports for which IFR or Special-VFR procedures have been published in national aeronautical information publications, public or private entities providing services for the origination and provision of survey data, procedure design services, electronic terrain data, electronic obstacle data and manufacturing industry [Article 2(2)].

It applies up to the moment when the aeronautical data and/or aeronautical information are made available by the aeronautical information service to the next intended user [Article 2(3)].

The terms used in this objective are defined in Article 2 of Regulation (EC) No 549/2004, complemented by definitions set in Article 3 of Regulation (EU) No 73/2010, amended by Commission Implementing Regulation (EU) No 1029 of 26 September 2014.

This SES-related implementation objective does not replace the EU legislation. It aims at facilitating the monitoring and reporting of the implementation of quality of aeronautical data and aeronautical information in terms of accuracy, resolution and integrity in European ATM in line with the EU regulations and through the SES implementation monitoring and reporting mechanism.

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)

Applicability Area	All ECAC States except: Israel, Maastricht UAC, Morocco. Plus: Israel, Morocco		
Timescales:	From:	By:	Applicable to:
Entry into force of the regulation	16/02/2010		Applicability Area
Article 5(4)(a), Article 5(4)(b) and Article 6 to 13 to be implemented by		30/06/2013	Applicability Area
Article 4, Article 5(1) and Article 5(2), Article 5(3) and Article 5(4)(c) to be implemented by		30/06/2014	Applicability Area
All data requirements implemented by		30/06/2017	Applicability Area

References

European ATM Master Plan

OI step -	[IS-0202]-Improved Supply Chain for Aeronautical Data through Common Quality Measures									
	Enablers -	AIMS-13								
OI step -	[IS-0204]-Facilitated Aeronautical Data Exchanges through Digitalised/Electronic Information									
	Enablers -	AIMS-19a	AIMS-19b AOM13.1	CTE-C06c	GGSWIM-11	GGSWIM-52	GGSWIM-53			

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

Regulation (EU) No 73/2010 of 26 January 2010 laying down requirements on the quality of aeronautical data and aeronautical information for the single European sky, amended by Regulation (EU) No 1029/2014 of 26 September 2014.

Essential Operational Changes

- none -

SESAR Solution**ICAO GANP - ASBUs**

DAIM-B1/1	Provision of quality-assured aeronautical data and information
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Deployment Programme

- none -

European Plan for Aviation Safety

RMT.0477	Technical requirements and operational procedures for aeronautical information services and aeronautical information management
RMT.0722	Provision of aeronautical data by the aerodrome operator

Operating Environments

Airport
En-Route
Network
Terminal Airspace

Stakeholder Lines of Action (SLoAs)

SLoA ref.	Title	From	By
ITY-ADQ-REG01	Verify the compliance with data quality requirements and supervise safety assessments		30/06/2013
ITY-ADQ-REG02	Verify the establishment of formal arrangements		30/06/2013
ITY-ADQ-REG03	Verify the compliance with the common dataset specifications and the data exchange format requirements	DELETED	
ITY-ADQ-REG04	Verify that all parties comply with all data requirements		30/06/2017
ITY-ADQ-ASP01	Implement data quality and process requirements		30/06/2013
ITY-ADQ-ASP02	Establish formal arrangements		30/06/2013
ITY-ADQ-ASP03	Establish consistency mechanisms and implement timeliness requirements		30/06/2013
ITY-ADQ-ASP04	Implement personnel and performance requirements		30/06/2013
ITY-ADQ-ASP05	Implement a quality management system and fulfil safety and security objectives		30/06/2013
ITY-ADQ-ASP06	Implement the common dataset and digital exchange format		30/06/2014
ITY-ADQ-ASP07	Implement all data requirements		30/06/2017
ITY-ADQ-APO01	Implement data quality and process requirements		30/06/2013
ITY-ADQ-APO02	Implement personnel and performance requirements		30/06/2013
ITY-ADQ-APO03	Implement a quality management system and fulfil safety and security objectives		30/06/2013
ITY-ADQ-APO04	Implement the common dataset and digital exchange format requirements		30/06/2014
ITY-ADQ-APO05	Implement all data quality requirements		30/06/2017
ITY-ADQ-IND01	Implement data quality and process requirements		30/06/2013
ITY-ADQ-IND02	Implement personnel and performance requirements		30/06/2013
ITY-ADQ-IND03	Implement a quality management system and fulfil safety and security objectives		30/06/2013
ITY-ADQ-IND04	Implement the common dataset and digital exchange format requirements		30/06/2014
ITY-ADQ-IND05	Implement all data quality requirements		30/06/2017

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

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Expected Performance Benefits

Safety:	Improved consistency, reliability and integrity of aeronautical data and aeronautical information.
Capacity:	-
Operational Efficiency:	-
Cost Efficiency:	-
Environment:	-
Security:	Enhanced security due to the implementation of security requirements.

Detailed SLoA Descriptions

ITY-ADQ-REG01	Verify the compliance with data quality requirements and supervise safety assessments	From: -	By: 30/06/2013
Action by:	State Authorities		
Description & purpose:	<p>Verify that data quality and process requirements are fulfilled in accordance with Article 6 (with the exception of Article 6 (3), see ITY-ADQ-REG02) and Annex IV Parts A, B, D, E and F of Regulation (EU) No 73/2010.</p> <p>Supervise that a safety assessment is conducted in accordance with Article 10 of Regulation (EU) No 73/2010 and review the safety assessment report. If applicable review the safety arguments. Notify the acceptance of the change to the ANSP/ANS.</p>		
Supporting material(s):	<p>EUROCONTROL - NSA Coordination Platform - Guidelines on Interoperability Oversight - Edition 1.0 / 06/2012 Url : https://eurocontrol.int/sites/default/files/article/files/reg-nsa-guidelines-iop-v1-0.pdf</p> <p>EUROCONTROL - CHAIN Preliminary Safety Case Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality</p> <p>EUROCONTROL - SPEC-148 - EUROCONTROL Specification for Data Assurance Levels - Edition 1.1 / 03/2018 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-data-assurance-levels-dal</p> <p>EUROCONTROL - SPEC-154 - EUROCONTROL Specification for the Origination of Aeronautical Data - Edition 1.0 / 02/2013 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-origination-aeronautical-data-do</p> <p>EUROCONTROL - SPEC-152 - EUROCONTROL Specification for Data Quality Requirements - Edition 1.2 / 02/2016 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-data-quality-requirements-dqr</p> <p>EUROCONTROL - Guidelines supporting the implementation of the Regulation on Aeronautical Data and Information Quality Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality</p> <p>EUROCONTROL - GUID-163 - EUROCONTROL Guidelines for Supporting the Implementation of Commission Regulation (EU) 73/2010 - Edition 1.6 / 01/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-supporting-implementation-commission-regulation-eu-732010</p> <p>EUROCONTROL - GUID-137 - EUROCONTROL Guidelines on conformity assessment for the interoperability Regulation of the single European sky - Edition 3.0 / 02/2012 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-conformity-assessment-interoperability-regulation-single</p>		
Finalisation criteria:	<p>1 - An EN ISO 9001 certificate has been submitted to the NSA by relevant organisations.</p> <p>2 - (For ANSPs, APOs and IND certified as ANS): A safety assessment report, including safety arguments where applicable, has been received and reviewed.</p> <p>3 - (For ANSPs, APOs and IND certified as ANS): Proposed changes have been accepted and formally notified to the relevant organisation.</p> <p>4 - (For ANSPs, APOs and IND certified as ANS): An EC declaration of verification of systems and technical file containing evidence of compliance with the relevant regulatory provisions and with the relevant parts of EUROCONTROL specifications or other acceptable means of compliance received and assessed.</p>		
ITY-ADQ-REG02	Verify the establishment of formal arrangements	From: -	By: 30/06/2013
Action by:	State Authorities		
Description & purpose:	Verify that appropriate formal arrangements, respecting at least the minimum content, are established between the relevant parties in accordance with Article 6(3) and Annex IV Part C of Regulation (EU) No 73/2010.		

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Supporting material(s):	<p>EUROCONTROL - NSA Coordination Platform - Guidelines on Interoperability Oversight - Edition 1.0 / 06/2012 Url : https://eurocontrol.int/sites/default/files/article/files/reg-nsa-guidelines-iop-v1-0.pdf</p> <p>EUROCONTROL - Service Level Agreements (SLA) package Url : http://www.eurocontrol.int/articles/adq-library</p> <p>EUROCONTROL - SPEC-148 - EUROCONTROL Specification for Data Assurance Levels - Edition 1.1 / 03/2018 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-data-assurance-levels-dal</p> <p>EUROCONTROL - SPEC-154 - EUROCONTROL Specification for the Origination of Aeronautical Data - Edition 1.0 / 02/2013 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-origination-aeronautical-data-do</p> <p>EUROCONTROL - Guidelines supporting the implementation of the Regulation on Aeronautical Data and Information Quality Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality</p> <p>EUROCONTROL - GUID-163 - EUROCONTROL Guidelines for Supporting the Implementation of Commission Regulation (EU) 73/2010 - Edition 1.6 / 01/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-supporting-implementation-commission-regulation-eu-732010</p>		
Finalisation criteria:	1 - Formal arrangements have been established and signed by relevant parties.		
ITY-ADQ-REG04	Verify that all parties comply with all data requirements	From: -	By: 30/06/2017
Action by:	State Authorities		
Description & purpose:	Verify that those aeronautical data and aeronautical information items published before 1 July 2013 and not amended since are brought in line by 30 June 2017, at the latest, and that all parties fulfil the requirements in accordance with Article 14 of Regulation (EU) No 73/2010.		
Supporting material(s):	<p>EUROCONTROL - NSA Coordination Platform - Guidelines on Interoperability Oversight - Edition 1.0 / 06/2012 Url : https://eurocontrol.int/sites/default/files/article/files/reg-nsa-guidelines-iop-v1-0.pdf</p>		
Finalisation criteria:	1 - All parties publishing aeronautical data and/or aeronautical information comply with all the requirements set in Regulation (EU) No 73/2010 and an according statement of compliance has been received.		
ITY-ADQ-ASP01	Implement data quality and process requirements	From: -	By: 30/06/2013
Action by:	ANS Providers		
Description & purpose:	<p>Implement the data quality, evidence, origination, process, error reporting and rectification requirements in accordance with Article 6 (with the exception of Article 6(3), see: ITY-ADQ-ASP02) and Annex IV Parts A, B, D, E and F of Regulation (EU) No 73/2010 and provide written evidence that the requirements are met.</p> <p>Validate and verify all tools used to support or automate processes in the origination, production, storage, handling, processing and transfer of aeronautical data and/or aeronautical information in accordance with Article 8 and Annex V of Regulation (EU) No 73/2010. Protect data against loss or alteration in accordance with Article 9 and Annex VI of Regulation (EU) No 73/2010.</p> <p>Conduct a safety assessment including hazard identification, risk assessment and mitigation in accordance with Article 10 of Regulation (EU) No 73/2010 and provide a safety assessment report to the NSA. If applicable provide safety arguments to the NSA.</p> <p>Conduct a verification of the systems demonstrating the conformity with the interoperability, performance and safety requirements in accordance with Article 12 and Annex IX and X of Regulation (EU) No 73/2010 and draw up an EC declaration of verification of systems together with a technical file.</p>		
Supporting material(s):	<p>EUROCONTROL - CHAIN Preliminary Safety Case Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality</p> <p>EUROCONTROL - SPEC-148 - EUROCONTROL Specification for Data Assurance Levels - Edition 1.1 / 03/2018 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-data-assurance-levels-dal</p> <p>EUROCONTROL - SPEC-154 - EUROCONTROL Specification for the Origination of Aeronautical Data - Edition 1.0 / 02/2013 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-origination-aeronautical-data-do</p> <p>EUROCONTROL - SPEC-152 - EUROCONTROL Specification for Data Quality Requirements - Edition 1.2 / 02/2016 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-data-quality-requirements-dqr</p> <p>EUROCONTROL - Guidelines supporting the implementation of the Regulation on Aeronautical Data and Information Quality Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality</p> <p>EUROCONTROL - GUID-163 - EUROCONTROL Guidelines for Supporting the Implementation of Commission Regulation (EU) 73/2010 - Edition 1.6 / 01/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-supporting-implementation-commission-regulation-eu-732010</p>		

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ATM Master Plan relationship:	[AIMS-13]-Controlled & Harmonised Aeronautical Information Network Activity (CHAIN)					
Finalisation criteria:	<p>1 - Data quality requirements have been implemented and are documented for verification and audit.</p> <p>2 - A safety assessment report, including safety arguments where applicable, has been provided to the NSA.</p> <p>3 - The introduction of the change into service was accepted by the NSA and a notification of acceptance has been received.</p> <p>4 - An EC declaration of verification of systems and a technical file containing evidence of compliance with the relevant regulatory provisions and with the relevant parts of EUROCONTROL specifications or other acceptable means of compliance has been submitted to the NSA.</p>					
ITY-ADQ-ASP02	Establish formal arrangements	<table border="1"> <tr> <td>From:</td> <td>By:</td> </tr> <tr> <td>-</td> <td>30/06/2013</td> </tr> </table>	From:	By:	-	30/06/2013
From:	By:					
-	30/06/2013					
Action by:	ANS Providers					
Description & purpose:	Establish formal arrangements with other relevant parties for the exchange of aeronautical data and/or aeronautical information in accordance with Article 6(3) and Annex IV Part C of Regulation (EU) No 73/2010.					
Supporting material(s):	<p>EUROCONTROL - Service Level Agreements (SLA) package Url : http://www.eurocontrol.int/articles/adq-library</p> <p>EUROCONTROL - SPEC-148 - EUROCONTROL Specification for Data Assurance Levels - Edition 1.1 / 03/2018 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-data-assurance-levels-dal</p> <p>EUROCONTROL - SPEC-154 - EUROCONTROL Specification for the Origination of Aeronautical Data - Edition 1.0 / 02/2013 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-origination-aeronautical-data-do</p> <p>EUROCONTROL - Guidelines supporting the implementation of the Regulation on Aeronautical Data and Information Quality Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality</p> <p>EUROCONTROL - GUID-163 - EUROCONTROL Guidelines for Supporting the Implementation of Commission Regulation (EU) 73/2010 - Edition 1.6 / 01/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-supporting-implementation-commission-regulation-eu-732010</p>					
Finalisation criteria:	1 - Formal arrangements signed by all relevant parties have been established.					
ITY-ADQ-ASP03	Establish consistency mechanisms and implement timeliness requirements	<table border="1"> <tr> <td>From:</td> <td>By:</td> </tr> <tr> <td>-</td> <td>30/06/2013</td> </tr> </table>	From:	By:	-	30/06/2013
From:	By:					
-	30/06/2013					
Action by:	ANS Providers					
Description & purpose:	Establish and document mechanisms to ensure consistency and implement the timeliness requirements in accordance with Article 7(1), 7(2) and 7(3) of Regulation (EU) No 73/2010.					
Supporting material(s):	<p>EUROCONTROL - Guidelines supporting the implementation of the Regulation on Aeronautical Data and Information Quality Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality</p> <p>EUROCONTROL - GUID-163 - EUROCONTROL Guidelines for Supporting the Implementation of Commission Regulation (EU) 73/2010 - Edition 1.6 / 01/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-supporting-implementation-commission-regulation-eu-732010</p>					
Finalisation criteria:	1 - Mechanisms ensuring consistency and, if relevant, annotating AIP items not meeting the data quality requirements have been established and documented					
ITY-ADQ-ASP04	Implement personnel and performance requirements	<table border="1"> <tr> <td>From:</td> <td>By:</td> </tr> <tr> <td>-</td> <td>30/06/2013</td> </tr> </table>	From:	By:	-	30/06/2013
From:	By:					
-	30/06/2013					
Action by:	ANS Providers					
Description & purpose:	<p>Develop and maintain awareness material and implement training and competence requirements in accordance with Articles 7(4) and 7(5) of Regulation (EU) No 73/2010.</p> <p>Develop and maintain operating manuals and request security clearances in accordance with Article 13 of Regulation (EU) No 73/2010.</p>					
Supporting material(s):	<p>EUROCONTROL - Common AIS Staff Profiling (CASP) - Edition 2.0 / 10/2010 Url : https://www.icao.int/ESAF/Documents/ICAO-IATA-EURO%20CONTROL%202017/FINAL%20%20PDF%20Papers/DP-3%20B-%20Eurocontrol%20CASP-%20Document.pdf</p> <p>EUROCONTROL - SPEC-146 - EUROCONTROL Specification for the Electronic Aeronautical Information Publication (eAIP) - Edition 2.1 / 10/2015 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-electronic-aeronautical-information-publication-eaip</p> <p>EUROCONTROL - AIS Training Development Guidelines - Edition 1.1 / 10/2011 Url : https://www.eurocontrol.int/sites/default/files/2019-05/20111001-aidtdg.pdf</p>					

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Finalisation criteria:	<p>1 - Awareness material and training records have been published. 2 - Competence requirements for staff have been met. 3 - Operating manuals have been provided. 4 - Security clearances for authorised staff have been provided.</p>		
ITY-ADQ-ASP05	Implement a quality management system and fulfil safety and security objectives	From: -	By: 30/06/2013
Action by:	ANS Providers		
Description & purpose:	<p>Implement and maintain a quality management system meeting the safety management and the security management objectives in accordance with Article 10 and Annex VII of Regulation (EU) No 73/2010.</p> <p><i>Note : An EN ISO 9001 certificate issued by an appropriately accredited organisation shall be considered as a sufficient means of compliance for the quality management system.</i></p>		
Supporting material(s):	<p>EUROCONTROL - Guidelines supporting the implementation of the Regulation on Aeronautical Data and Information Quality Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality EUROCONTROL - GUID-163 - EUROCONTROL Guidelines for Supporting the Implementation of Commission Regulation (EU) 73/2010 - Edition 1.6 / 01/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-supporting-implementation-commission-regulation-eu-732010</p>		
Finalisation criteria:	<p>1 - A quality management system meeting the safety and security management objectives has been implemented, documented and is maintained. 2 - An EN ISO 9001 certificate has been obtained. 3 - Documentation related to certification has been provided to the NSA. 4 - Access authorisations have been provided.</p>		
ITY-ADQ-ASP06	Implement the common dataset and digital exchange format	From: -	By: 30/06/2014
Action by:	ANS Providers		
Description & purpose:	<p>Implement the common dataset, provide and document the IAIP, aerodrome mapping, electronic obstacle data, electronic terrain data and metadata in accordance with Article 4 and Annex I of Regulation (EU) No 73/2010.</p> <p>Implement a common data exchange for IAIP, aerodrome mapping, electronic obstacle data and electronic terrain data allowing digital data exchange and verify that all aeronautical data and aeronautical information within the IAIP, AIP amendments and AIP supplements are made available to the next intended user in accordance with Article 5 and Annex II of Regulation (EU) No 73/2010.</p> <p>Conduct a safety assessment including hazard identification, risk assessment and mitigation in accordance with Article 10 of Regulation (EU) No 73/2010 and provide a safety assessment report to the NSA. If applicable provide safety arguments to the NSA.</p> <p><i>Note :(1). Digital NOTAM may be excluded from the data exchange format ref. Article 5(3) (subject to revision once digital NOTAM work progressed).</i></p> <p><i>Note: (2). Concerning the provision of Electronic obstacle data, electronic terrain data and aerodrome mapping data, ref. Article 2(1)(b-d).</i></p>		
Derogations:	Refer to Article 15(2) of Regulation (EU) No 73/2010.		
Supporting material(s):	<p>EUROCONTROL - SPEC 151 - EUROCONTROL Specification for Aeronautical Information Exchange - Edition 1.0 / 12/2012 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-aeronautical-information-exchange-aix EUROCONTROL - CHAIN Preliminary Safety Case Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality EUROCONTROL - SPEC-148 - EUROCONTROL Specification for Data Assurance Levels - Edition 1.1 / 03/2018 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-data-assurance-levels-dal EUROCONTROL - SPEC-154 - EUROCONTROL Specification for the Origination of Aeronautical Data - Edition 1.0 / 02/2013 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-origination-aeronautical-data-do EUROCONTROL - Guidelines supporting the implementation of the Regulation on Aeronautical Data and Information Quality Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality EUROCONTROL - SPEC-146 - EUROCONTROL Specification for the Electronic Aeronautical Information Publication (eAIP) - Edition 2.1 / 10/2015 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-electronic-aeronautical-information-publication-eaip EUROCONTROL - GUID-163 - EUROCONTROL Guidelines for Supporting the Implementation of Commission Regulation (EU) 73/2010 - Edition 1.6 / 01/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-supporting-implementation-commission-regulation-eu-732010</p>		

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Finalisation criteria:	<p>1 - The common dataset and digital exchange format requirements have been implemented.</p> <p>2 - A safety assessment report, including safety arguments where applicable, has been provided to the NSA.</p> <p>3 - The introduction of the change into service was accepted by the NSA and a notification of acceptance has been received.</p> <p>4 - An EC declaration of verification of systems and a technical file containing evidence of compliance with the relevant regulatory provisions and with the relevant parts of EUROCONTROL specifications or other acceptable means of compliance has been submitted to the NSA.</p>		
ITY-ADQ-ASP07	Implement all data requirements	From: -	By: 30/06/2017
Action by:	ANS Providers		
Description & purpose:	Update those aeronautical data and aeronautical information items which were published before 1 July 2013 and not amended since in accordance with Article 14 of Regulation (EU) No 73/2010.		
Finalisation criteria:	1 - All electronic data is compliant to all requirements and a statement of compliance has been provided to the NSA.		
ITY-ADQ-APO01	Implement data quality and process requirements	From: -	By: 30/06/2013
Action by:	Aerodrome & heliport Operators for which IFR or Special-VFR procedures have been published in national AIPs		
Description & purpose:	<p>Implement the data quality and data origination requirements in accordance with Article 6 and Annex IV Parts A - F of Regulation (EU) No 73/2010 and provide written evidence that the requirements are met.</p> <p>Validate and verify all tools used to support or automate processes in the origination, production, storage, handling, processing and transfer of aeronautical data and/or aeronautical information and document the validation in a technical file in accordance with Article 8 and Annex V of Regulation (EU) No 73/2010. Protect data against loss or alteration in accordance with Article 9 and Annex VI of Regulation (EU) No 73/2010.</p> <p>Conduct a safety assessment including hazard identification, risk assessment and mitigation in accordance with Article 10 of Regulation (EU) No 73/2010. If certified as ANS, provide a safety assessment report to the NSA and if applicable provide safety arguments to the NSA.</p>		
Supporting material(s):	<p>EUROCONTROL - CHAIN Preliminary Safety Case Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality</p> <p>EUROCONTROL - SPEC-148 - EUROCONTROL Specification for Data Assurance Levels - Edition 1.1 / 03/2018 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-data-assurance-levels-dal</p> <p>EUROCONTROL - SPEC-154 - EUROCONTROL Specification for the Origination of Aeronautical Data - Edition 1.0 / 02/2013 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-origination-aeronautical-data-do</p> <p>EUROCONTROL - SPEC-152 - EUROCONTROL Specification for Data Quality Requirements - Edition 1.2 / 02/2016 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-data-quality-requirements-dqr</p> <p>EUROCONTROL - Guidelines supporting the implementation of the Regulation on Aeronautical Data and Information Quality Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality</p> <p>EUROCONTROL - GUID-163 - EUROCONTROL Guidelines for Supporting the Implementation of Commission Regulation (EU) 73/2010 - Edition 1.6 / 01/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-supporting-implementation-commission-regulation-eu-732010</p>		
Finalisation criteria:	<p>1 - Data quality requirements have been implemented and are documented for verification and audit.</p> <p>2 - (For APOs certified as ANS): A safety assessment report, including safety arguments where applicable, has been provided to the NSA.</p> <p>3 - (For APOs certified as ANS): The introduction of the change into service was accepted by the NSA and a notification of acceptance has been received.</p> <p>4 - (For APOs certified as ANS): An EC declaration of verification of systems and a technical file containing evidence of compliance with the relevant regulatory provisions and with relevant parts of EUROCONTROL specifications or other acceptable means of compliance has been submitted to the NSA.</p>		
ITY-ADQ-APO02	Implement personnel and performance requirements	From: -	By: 30/06/2013
Action by:	Aerodrome & heliport Operators for which IFR or Special-VFR procedures have been published in national AIPs		
Description & purpose:	<p>Develop and maintain awareness material and implement training and competence requirements in accordance with Article 7(4) and Article 7(5) of Regulation (EU) No 73/2010.</p> <p>Develop and maintain operating manuals and request security clearances in accordance with Article 13 of Regulation (EU) No 73/2010.</p>		
Supporting material(s):	<p>EUROCONTROL - Common AIS Staff Profiling (CASP) - Edition 2.0 / 10/2010 Url : https://www.icao.int/ESAF/Documents/ICAO-IATA-EURO%20CONTROL%202017/FINAL%20%20PDF%20Papers/DP-3%20B-%20Eurocontrol%20CASP-%20Document.pdf</p> <p>EUROCONTROL - AIS Training Development Guidelines - Edition 1.1 / 10/2011 Url : https://www.eurocontrol.int/sites/default/files/2019-05/20111001-aistdg.pdf</p>		

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Finalisation criteria:	<p>1 - Awareness material and training records have been published. 2 - Competence requirements for staff have been met. 3 - Operating manuals have been provided. 4 - Security clearances for authorised staff have been provided.</p>		
ITY-ADQ-APO03	Implement a quality management system and fulfil safety and security objectives	From: -	By: 30/06/2013
Action by:	Aerodrome & heliport Operators for which IFR or Special-VFR procedures have been published in national AIPs		
Description & purpose:	<p>Implement and maintain a quality management system meeting the safety management and the security management objectives in accordance with Article 10 and Annex VII of Regulation (EU) No 73/2010.</p> <p>Note : An EN ISO 9001 certificate issued by an appropriately accredited organisation shall be considered as a sufficient means of compliance for the quality management system.</p>		
Supporting material(s):	<p>EUROCONTROL - Guidelines supporting the implementation of the Regulation on Aeronautical Data and Information Quality Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality EUROCONTROL - GUID-163 - EUROCONTROL Guidelines for Supporting the Implementation of Commission Regulation (EU) 73/2010 - Edition 1.6 / 01/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-supporting-implementation-commission-regulation-eu-732010</p>		
Finalisation criteria:	<p>1 - A quality management system meeting the safety and security management objectives have been implemented, documented and is maintained. 2 - An EN ISO 9001 certificate has been obtained. 3 - Documentation related to certification has been provided to the NSA. 4 - Access authorisations have been provided.</p>		
ITY-ADQ-APO04	Implement the common dataset and digital exchange format requirements	From: -	By: 30/06/2014
Action by:	Aerodrome & heliport Operators for which IFR or Special-VFR procedures have been published in national AIPs		
Description & purpose:	<p>Implement the common dataset, provide and document the IAIP, aerodrome mapping, electronic obstacle data, electronic terrain data and metadata in accordance with Article 4 and Annex I of Regulation (EU) No 73/2010.</p> <p>If certified as ANS, implement a common data exchange for IAIP, aerodrome mapping, electronic obstacle data and electronic terrain data allowing digital data exchange and verify that all aeronautical data and aeronautical information within the IAIP, AIP amendments and AIP supplements are made available to the next intended user in accordance with Article 5 and Annex II of Regulation (EU) No 73/2010.</p> <p>Conduct a safety assessment including hazard identification, risk assessment and mitigation in accordance with Article 10 of Regulation (EU) No 73/2010. If certified as ANS, provide a safety assessment report to the NSA and if applicable provide safety arguments to the NSA.</p> <p>Note : Digital NOTAM may be excluded from the data exchange format ref. Article 5(3) (subject to revision once digital NOTAM work progressed).</p>		
Supporting material(s):	<p>EUROCONTROL - SPEC 151 - EUROCONTROL Specification for Aeronautical Information Exchange - Edition 1.0 / 12/2012 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-aeronautical-information-exchange-aix EUROCONTROL - CHAIN Preliminary Safety Case Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality EUROCONTROL - SPEC-148 - EUROCONTROL Specification for Data Assurance Levels - Edition 1.1 / 03/2018 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-data-assurance-levels-dal EUROCONTROL - SPEC-154 - EUROCONTROL Specification for the Origination of Aeronautical Data - Edition 1.0 / 02/2013 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-origination-aeronautical-data-do EUROCONTROL - Guidelines supporting the implementation of the Regulation on Aeronautical Data and Information Quality Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality EUROCONTROL - SPEC-146 - EUROCONTROL Specification for the Electronic Aeronautical Information Publication (eAIP) - Edition 2.1 / 10/2015 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-electronic-aeronautical-information-publication-eaip EUROCONTROL - GUID-163 - EUROCONTROL Guidelines for Supporting the Implementation of Commission Regulation (EU) 73/2010 - Edition 1.6 / 01/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-supporting-implementation-commission-regulation-eu-732010</p>		

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Finalisation criteria:	<p>1 - The common dataset requirements have been implemented.</p> <p>2 - (For APOs certified as ANS): The common digital exchange format requirements have been implemented.</p> <p>3 - (For APOs certified as ANS): A safety assessment report, including safety arguments where applicable, has been provided to the NSA.</p> <p>4 - (For APOs certified as ANS): The introduction of the change into service was accepted by the NSA and a notification of acceptance has been received.</p> <p>5 - (For APOs certified as ANS): An EC declaration of verification of systems and a technical file containing evidence of compliance with relevant regulatory provisions and with the relevant parts of EUROCONTROL specifications or other acceptable means of compliance has been submitted to the NSA.</p>		
ITY-ADQ-APO05	Implement all data quality requirements	From: -	By: 30/06/2017
Action by:	Aerodrome & heliport Operators for which IFR or Special-VFR procedures have been published in national AIPs		
Description & purpose:	Update those aeronautical data and aeronautical information items which were published before 1 July 2013 and not amended since in accordance with Article 14 of Regulation (EU) No 73/2010.		
Finalisation criteria:	1 - All electronic data is compliant to all requirements and a statement of compliance has been provided to the NSA.		
ITY-ADQ-IND01	Implement data quality and process requirements	From: -	By: 30/06/2013
Action by:	Public/private entities providing services for the origination/provision of survey, electronic terrain & obstacle data and procedures design services		
Description & purpose:	<p>Implement the data quality and data origination requirements in accordance with Article 6 and Annex IV Parts A - F of Regulation (EU) No 73/2010 and provide written evidence that the requirements are met.</p> <p>Validate and verify all tools used to support or automate processes in the origination, production, storage, handling, processing and transfer of aeronautical data and/or aeronautical information in accordance with Article 8 and Annex V of Regulation (EU) No 73/2010. Protect data against loss or alteration in accordance with Article 9 and Annex VI of Regulation (EU) No 73/2010.</p> <p>Conduct a safety assessment including hazard identification, risk assessment and mitigation in accordance with Article 10 of Regulation (EU) No 73/2010. If certified as an ANS, provide a safety assessment report to the NSA and if applicable provide safety arguments to the NSA.</p> <p>Assess the conformity or suitability for use of constituents in accordance with Article 11 and Annex VIII of Regulation (EU) No 73/2010 and issue an EC declaration of conformity or suitability for use of constituents together with a technical file.</p>		
Supporting material(s):	<p>EUROCONTROL - CHAIN Preliminary Safety Case Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality</p> <p>EUROCONTROL - SPEC-148 - EUROCONTROL Specification for Data Assurance Levels - Edition 1.1 / 03/2018 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-data-assurance-levels-dal</p> <p>EUROCONTROL - SPEC-154 - EUROCONTROL Specification for the Origination of Aeronautical Data - Edition 1.0 / 02/2013 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-origination-aeronautical-data-do</p> <p>EUROCONTROL - SPEC-152 - EUROCONTROL Specification for Data Quality Requirements - Edition 1.2 / 02/2016 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-data-quality-requirements-dqr</p> <p>EUROCONTROL - Guidelines supporting the implementation of the Regulation on Aeronautical Data and Information Quality Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality</p> <p>EUROCONTROL - GUID-163 - EUROCONTROL Guidelines for Supporting the Implementation of Commission Regulation (EU) 73/2010 - Edition 1.6 / 01/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-supporting-implementation-commission-regulation-eu-732010</p>		
Finalisation criteria:	<p>1 - Data quality requirements have been implemented and are documented for verification and audit.</p> <p>2 - (For IND certified as ANS): The introduction of the change into service has been accepted by the NSA and a notification of acceptance was received.</p> <p>3 - (For IND certified as ANS): An EC declaration of verification of systems and a technical file containing evidence of compliance with the relevant regulatory provisions and with the relevant parts of EUROCONTROL specifications or other acceptable means of compliance has been submitted to the NSA.</p> <p>4 - (For Manufacturers of constituents): An EC declaration of conformity of constituents or of suitability for use has been issued.</p> <p>5 - (For IND certified as ANS): A safety assessment report, including safety arguments where applicable, has been provided to the NSA.</p>		
ITY-ADQ-IND02	Implement personnel and performance requirements	From: -	By: 30/06/2013
Action by:	Public/private entities providing services for the origination/provision of survey, electronic terrain & obstacle data and procedures design services		

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Description & purpose:	Develop and maintain awareness material and implement training and competence requirements in accordance with Articles 7(4) and 7(5) of Regulation (EU) No 73/2010. Develop and maintain operating manuals and request security clearances in accordance with Article 13 of Regulation (EU) No 73/2010.		
Supporting material(s):	EUROCONTROL - Common AIS Staff Profiling (CASP) - Edition 2.0 / 10/2010 Url : https://www.icao.int/ESAF/Documents/ICAO-IATA-EURO%20CONTROL%202017/FINAL%20%20PDF%20Papers/DP-3%20B-%20Eurocontrol%20CASP-%20Document.pdf EUROCONTROL - AIS Training Development Guidelines - Edition 1.1 / 10/2011 Url : https://www.eurocontrol.int/sites/default/files/2019-05/20111001-aistdgd.pdf		
Finalisation criteria:	1 - Awareness material and training records have been published. 2 - Competence requirements for staff have been met. 3 - Operating manuals have been provided. 4 - Security clearances for authorised staff have been provided.		
ITY-ADQ-IND03	Implement a quality management system and fulfil safety and security objectives	From: -	By: 30/06/2013
Action by:	Public/private entities providing services for the origination/provision of survey, electronic terrain & obstacle data and procedures design services		
Description & purpose:	Implement and maintain a quality management system meeting the safety management and the security management objectives in accordance with Article 10 and Annex VII of Regulation (EU) No 73/2010		
Supporting material(s):	EUROCONTROL - Guidelines supporting the implementation of the Regulation on Aeronautical Data and Information Quality Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality EUROCONTROL - GUID-163 - EUROCONTROL Guidelines for Supporting the Implementation of Commission Regulation (EU) 73/2010 - Edition 1.6 / 01/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-supporting-implementation-commission-regulation-eu-732010		
Finalisation criteria:	1 - A quality management system meeting the safety and security management objectives has been implemented documented and is maintained. 2 - Access authorisations have been provided. 3 - An EN ISO 9001 certificate has been obtained. 4 - Documentation related to certification has been provided to the NSA.		
ITY-ADQ-IND04	Implement the common dataset and digital exchange format requirements	From: -	By: 30/06/2014
Action by:	Public/private entities providing services for the origination/provision of survey, electronic terrain & obstacle data and procedures design services		
Description & purpose:	Implement the common dataset, provide and document the IAIP, aerodrome mapping, electronic obstacle data, electronic terrain data and metadata in accordance with Article 4 and Annex I of Regulation (EU) No 73/2010. If certified as ANS, implement a common data exchange for IAIP, aerodrome mapping, electronic obstacle data and electronic terrain data allowing digital data exchange and verify that all aeronautical data and aeronautical information within the IAIP, AIP amendments and AIP supplements are made available to the next intended user in accordance with Article 5 and Annex II of Regulation (EU) No 73/2010. Conduct a safety assessment including hazard identification, risk assessment and mitigation in accordance with Article 10 of Regulation (EU) No 73/2010. If certified as an ANS, provide a safety assessment report to the NSA and if applicable provide safety arguments to the NSA.		
	Note : (1). Digital NOTAM may be excluded from the data exchange format ref. Article 5(3) (subject to revision once digital NOTAM work progressed). Note: (2). Concerning the provision of Electronic obstacle data, electronic terrain data and aerodrome mapping data, ref. Article 2(1)(b-d).		
Supporting material(s):	EUROCONTROL - SPEC 151 - EUROCONTROL Specification for Aeronautical Information Exchange - Edition 1.0 / 12/2012 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-aeronautical-information-exchange-aix EUROCONTROL - CHAIN Preliminary Safety Case Url : https://www.eurocontrol.int/service/aeronautical-data-and-information-quality EUROCONTROL - SPEC-148 - EUROCONTROL Specification for Data Assurance Levels - Edition 1.1 / 03/2018 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-data-assurance-levels-dal EUROCONTROL - SPEC-154 - EUROCONTROL Specification for the Origination of Aeronautical Data - Edition 1.0 / 02/2013 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-origination-aeronautical-data-do EUROCONTROL - SPEC-146 - EUROCONTROL Specification for the Electronic Aeronautical Information Publication (eAIP) - Edition 2.1 / 10/2015 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-electronic-aeronautical-information-publication-eaip		

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Finalisation criteria:	<p>1 - The common dataset requirements have been implemented.</p> <p>2 - (For IND certified as ANS): The common digital exchange format requirements have been implemented.</p> <p>3 - (For IND certified as ANS): A safety assessment report, including safety arguments where applicable, has been provided to the NSA.</p> <p>4 - (For IND certified as ANS): The introduction of the change into service was accepted by the NSA and a notification of acceptance has been received.</p> <p>5 - (For IND certified as ANS): An EC declaration of verification of systems and a technical file containing evidence of compliance with the relevant regulatory provisions and with the relevant parts of EUROCONTROL specifications or other acceptable means of compliance has been submitted to the NSA.</p> <p>6 - (For Manufacturers of constituents): An EC declaration of conformity of constituents or of suitability for use has been issued.</p>		
ITY-ADQ-IND05	Implement all data quality requirements	From:	By:
		-	30/06/2017
Action by:	Public/private entities providing services for the origination/provision of survey, electronic terrain & obstacle data and procedures design services		
Description & purpose:	Update those aeronautical data and aeronautical information items which were published before 1 July 2013 and not amended since in accordance with Article 14 of Regulation (EU) No 73/2010.		
Finalisation criteria:	1 - All electronic data is compliant to all requirements and a statement of compliance has been provided to the NSA.		