SE	S				Remove	t			l I	EU+
ITY-	ADQ		Ensu	re Quality o	of Aerona	utical Data	and Aeronau	ıtical Inforn	nation	
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 11.

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 exce Plus: Israel, Morocco		stricht UAC, Mo	procco.
Timescales:		From:	Ву:	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 1 by	13 to be implemented		30/06/2013	Applicability Area
Article 4, Article5(1) and Article 5(2), Article 5(to be implemented by	(3) and Article 5(4)(c)		30/06/2014	Applicability Area
All data requirements implemented by			30/06/2017	Applicability Area

References

European ATM Master Plan

OI step -	[IS-0202]-Im	proved Supply	Chain for Aeron	autical Data th	rough Common	Quality Measur	<u>res</u>	
	Enablers -	AIMS-13						
OI step -	[IS-0204]-Fa	acilitated Aerona	utical Data Exc	hanges through	h Digitalised/Ele	ctronic Informa	<u>tion</u>	
	Enablers -	AIMS-19a	AIMS-19b AOM13.1	CTE-C06c	GGSWIM-11	GGSWIM-52	GGSWIM-53	
		1						

ITY-ADQ

Ensure Quality of Aeronautical Data and Aeronautical Information

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

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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	Ву
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

ITY-ADQ Ensure Quality of Aeronautical Data	a and Aeronautical Information
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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

	Detailed OLOA Descriptions		Design				
ITY-ADQ-REG01	Verify the compliance with data quality requirements and	From:	By: 30/06/2013				
	supervise safety assessments	-	30/00/2013				
ction by:	State Authorities						
Description & purpose:	Verify that data quality and process requirements are fulfilled in accorda (3), see ITY-ADQ-REG02) and Annex IV Parts A, B, D, E and F of Regu						
	Supervise that a safety assessment is conducted in accordance with Ar review the safety assessment report. If applicable review the safety arguments Notify the acceptance of the change to the ANSP/ANS.	· · · · · · · · · · · · · · · · · · ·	U) No 73/2010 and				
Supporting material(s):	EUROCONTROL - NSA Coordination Platform - Guidelines on Interope	rability Oversight - Edition	on 1.0 / 06/2012				
	Url: https://eurocontrol.int/sites/default/files/article/files/reg-nsa-guidelin	es-iop-v1-0.pdf					
	EUROCONTROL - CHAIN Preliminary Safety Case						
	Url: https://www.eurocontrol.int/service/aeronautical-data-and-informati	on-quality					
	EUROCONTROL - SPEC-148 - EUROCONTROL Specification for Data	a Assurance Levels - Ed	ition 1.1 / 03/2018				
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-da	ta-assurance-levels-dal					
	EUROCONTROL - SPEC-154 - EUROCONTROL Specification for the 0 02/2013	Origination of Aeronaution	cal Data - Edition 1.0 /				
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-origination-aeronautical-data-do						
	EUROCONTROL - SPEC-152 - EUROCONTROL Specification for Data Quality Requirements - Edition 1.2 / 02/2016						
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-da	ta-quality-requirements-	<u>dqr</u>				
	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-suppeu-732010	orting-implementation-co	ommission-regulation-				
	EUROCONTROL - GUID-137 - EUROCONTROL Guidelines on conformation of the single European sky - Edition 3.0 / 02/2012	nity assessment for the	interoperability				
	Url: https://www.eurocontrol.int/publication/eurocontrol-guidelines-confosingle	ormity-assessment-intere	operability-regulation-				
Finalisation criteria:	1 - An EN ISO 9001 certificate has been submitted to the NSA by releva 2 - (For ANSPs, APOs and IND certified as ANS): A safety assessment applicable, has been received and reviewed.	· ·	arguments where				
	 3 - (For ANSPs, APOs and IND certified as ANS): Proposed changes have relevant organisation. 4 - (For ANSPs, APOs and IND certified as ANS): An EC declaration of containing evidence of compliance with the relevant regulatory provision 	verification of systems a	and technical file				
	EUROCONTROL specifications or other acceptable means of complian	ce received and assess	ed.				
		From:	Ву:				
ITY-ADQ-REG02	Verify the establishment of formal arrangements	-	30/06/2013				
action by:	State Authorities						
escription & purpose:	Verify that appropriate formal arrangements, respecting at least the min	imum content, are estab	olished between the				
p	relevant parties in accordance with Article 6(3) and Annex IV Part C of F						

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Supporting material(s):	EUROCONTROL - NSA Coordination Platform - Guidelines on Interoper	, ,	- Edition 1.0 / 06/2012				
	Url: https://eurocontrol.int/sites/default/files/article/files/reg-nsa-guidelines-iop-v1-0.pdf						
	EUROCONTROL - Service Level Agreements (SLA) package						
	Url: http://www.eurocontrol.int/articles/adq-library						
	EUROCONTROL - SPEC-148 - EUROCONTROL Specification for Data						
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-data						
	EUROCONTROL - SPEC-154 - EUROCONTROL Specification for the C 02/2013						
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-orig						
	EUROCONTROL - Guidelines supporting the implementation of the Reg Quality	ulation on Aeror	autical Data and Information				
	Url: https://www.eurocontrol.int/service/aeronautical-data-and-informatio EUROCONTROL - GUID-163 - EUROCONTROL Guidelines for Support		ntation of Commission				
	Regulation (EU) 73/2010 - Edition 1.6 / 01/2017						
	Url: https://www.eurocontrol.int/publication/eurocontrol-guidelines-suppoeu-732010	orting-implement	ation-commission-regulation-				
inalisation criteria:	1 - Formal arrangements have been established and signed by relevant	parties.					
		From:	Ву:				
ITY-ADQ-REG04	Verify that all parties comply with all data requirements	-	30/06/2017				
ction by:	State Authorities		<u> </u>				
Description & purpose:	Verify that those aeronautical data and aeronautical information items pu since are brought in line by 30 June 2017, at the latest, and that all partie Article 14 of Regulation (EU) No 73/2010.		,				
Supporting material(s):	EUROCONTROL - NSA Coordination Platform - Guidelines on Interoper	ability Oversight	- Edition 1.0 / 06/2012				
.,	Url: https://eurocontrol.int/sites/default/files/article/files/reg-nsa-guideline	es-iop-v1-0.pdf					
inalisation criteria:	1 - All parties publishing aeronautical data and/or aeronautical informatio		I the requirements set in				
	Regulation (EU) No 73/2010 and an according statement of compliance						
ITV 400 4004		From:	By:				
ITY-ADQ-ASP01	Implement data dijality and process requirements		-) -				
	Implement data quality and process requirements	-	30/06/2013				
	ANS Providers	-	30/06/2013				
Action by:		nd Annex IV Par ements are met e origination, pro- tion in accordan- cordance with A ment and mitiga	n requirements in accordance tts A, B, D, E and F of duction, storage, handling, ce with Article 8 and Annex V rticle 9 and Annex VI of tion in accordance with Article				
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ATM Master Plan relationship:	[AIMS-13]-Controlled & Harmonised Aeronautical Information Network A	Activity (CHAIN)	
Finalisation criteria:	1 - Data quality requirements have been implemented and are documen 2 - A safety assessment report, including safety arguments where applic 3 - The introduction of the change into service was accepted by the NSA received. 4 - An EC declaration of verification of systems and a technical file conta regulatory provisions and with the relevant parts of EUROCONTROL sp. compliance has been submitted to the NSA.	cable, has been provided and a notification of a caining evidence of com	ed to the NSA. acceptance has been upliance with the relevant
		From:	By:
ITY-ADQ-ASP02	Establish formal arrangements	-	30/06/2013
Action by:	ANS Providers		·
Description & purpose:	Establish formal arrangements with other relevant parties for the exchan information in accordance with Article 6(3) and Annex IV Part C of Regu		
Supporting material(s):	EUROCONTROL - Service Level Agreements (SLA) package Url: http://www.eurocontrol.int/articles/adq-library EUROCONTROL - SPEC-148 - EUROCONTROL Specification for Data Url: https://www.eurocontrol.int/publication/eurocontrol-specification-dat EUROCONTROL - SPEC-154 - EUROCONTROL Specification for the C 02/2013	a-assurance-levels-da Drigination of Aeronau	<u>l</u> iical Data - Edition 1.0 /
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-orig EUROCONTROL - Guidelines supporting the implementation of the Reg Quality Url: https://www.eurocontrol.int/service/aeronautical-data-and-informatic EUROCONTROL - GUID-163 - EUROCONTROL Guidelines for Suppor Regulation (EU) 73/2010 - Edition 1.6 / 01/2017	gulation on Aeronautic on-quality ting the Implementation	al Data and Information
	Url: https://www.eurocontrol.int/publication/eurocontrol-guidelines-supporteu-732010	orting-implementation-	commission-regulation-
Finalisation criteria:	1 - Formal arrangements signed by all relevant parties have been estable	lished.	
ITY-ADQ-ASP03	Establish consistency mechanisms and implement timeliness requirements	From:	By: 30/06/2013
Action by:	ANS Providers	ı	I .
Description & purpose:	Establish and document mechanisms to ensure consistency and implem with Article 7(1), 7(2) and 7(3) of Regulation (EU) No 73/2010.	nent the timeliness req	uirements in accordance
Supporting material(s):	EUROCONTROL - Guidelines supporting the implementation of the Reg Quality Url: https://www.eurocontrol.int/service/aeronautical-data-and-informatic EUROCONTROL - GUID-163 - EUROCONTROL Guidelines for Suppor Regulation (EU) 73/2010 - Edition 1.6 / 01/2017 Url: https://www.eurocontrol.int/publication/eurocontrol-guidelines-support	on-quality ting the Implementation	n of Commission
	! Au-732010		
Finalisation criteria:	eu-732010 1 - Mechanisms ensuring consistency and, if relevant, annotating AIP ite have been established and documented	ems not meeting the d	ata quality requirements
Finalisation criteria:	1 - Mechanisms ensuring consistency and, if relevant, annotating AIP ite	ems not meeting the definition of the definition	By: 30/06/2013
ITY-ADQ-ASP04	1 - Mechanisms ensuring consistency and, if relevant, annotating AIP ite have been established and documented	_	By:
ITY-ADQ-ASP04 Action by:	1 - Mechanisms ensuring consistency and, if relevant, annotating AIP ite have been established and documented Implement personnel and performance requirements ANS Providers Develop and maintain awareness material and implement training and carticles 7(4) and 7(5) of Regulation (EU) No 73/2010. Develop and maintain operating manuals and request security clearance.	From: - ompetence requireme	By: 30/06/2013 Ints in accordance with
Finalisation criteria: ITY-ADQ-ASP04 Action by: Description & purpose: Supporting material(s):	1 - Mechanisms ensuring consistency and, if relevant, annotating AIP ite have been established and documented Implement personnel and performance requirements ANS Providers Develop and maintain awareness material and implement training and controllers 7(4) and 7(5) of Regulation (EU) No 73/2010.	From: - ompetence requireme es in accordance with 0/2010 TROL%202017/FINAL	By: 30/06/2013 Ints in accordance with Article 13 of Regulation %20%20PDF% Information Publication

III-ADQ			
Finalisation criteria:	 Awareness material and training records have been published. Competence requirements for staff have been met. Operating manuals have been provided. Security clearances for authorised staff have been provided. 		
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:	Implement and maintain a quality management system meeting the sa objectives in accordance with Article 10 and Annex VII of Regulation (t and the security management
	Note: An EN ISO 9001 certificate issued by an appropriately accredit means of compliance for the quality management system.	ed organisation sh	nall be considered as a sufficient
Supporting material(s):	EUROCONTROL - Guidelines supporting the implementation of the R Quality	egulation on Aero	nautical Data and Information
	Url: https://www.eurocontrol.int/service/aeronautical-data-and-informa EUROCONTROL - GUID-163 - EUROCONTROL Guidelines for Supp Regulation (EU) 73/2010 - Edition 1.6 / 01/2017		entation of Commission
	Url: https://www.eurocontrol.int/publication/eurocontrol-guidelines-supeu-732010	porting-implemen	tation-commission-regulation-
Finalisation criteria:	 A quality management system meeting the safety and security mandocumented and is maintained. An EN ISO 9001 certificate has been obtained. Documentation related to certification has been provided to the NS 4 - Access authorisations have been provided. 	A.	
ITY-ADQ-ASP06	Implement the common dataset and digital exchange format	From:	By: 30/06/2014
Action by:	ANS Providers	'	
Description & purpose:	Implement the common dataset, provide and document the IAIP, aero electronic terrain data and metadata in accordance with Article 4 and Implement a common data exchange for IAIP, aerodrome mapping, e allowing digital data exchange and verify that all aeronautical data and amendments and AIP supplements are made available to the next into II of Regulation (EU) No 73/2010.	Annex I of Regular lectronic obstacle disconnection in a decomposition of the second control of the second con	tion (EU) No 73/2010. data and electronic terrain data rmation within the IAIP, AIP
Description & purpose:	lmplement a common data exchange for IAIP, aerodrome mapping, e allowing digital data exchange and verify that all aeronautical data and amendments and AIP supplements are made available to the next into II of Regulation (EU) No 73/2010. Conduct a safety assessment including hazard identification, risk assess 10 of Regulation (EU) No 73/2010 and provide a safety assessment rearguments to the NSA. Note: (1). Digital NOTAM may be excluded from the data exchange for digital NOTAM work progressed).	Annex I of Regular lectronic obstacle d aeronautical info ended user in acco essment and mitiga eport to the NSA. I	tion (EU) No 73/2010. data and electronic terrain data rmation within the IAIP, AIP ordance with Article 5 and Anne ation in accordance with Article If applicable provide safety (3) (subject to revision once
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Derogations:	lmplement a common data exchange for IAIP, aerodrome mapping, e allowing digital data exchange and verify that all aeronautical data and amendments and AIP supplements are made available to the next into II of Regulation (EU) No 73/2010. Conduct a safety assessment including hazard identification, risk asses 10 of Regulation (EU) No 73/2010 and provide a safety assessment rearguments to the NSA. Note: (1). Digital NOTAM may be excluded from the data exchange for digital NOTAM work progressed). Note: (2). Concerning the provision of Electronic obstacle data, electrodaticle 2(1)(b-d). Refer to Article 15(2) of Regulation (EU) No 73/2010. EUROCONTROL - SPEC 151 - EUROCONTROL Specification for Aeronautical through the provision of the Section of	Annex I of Regular lectronic obstacle of aeronautical information are remarked and are rema	tion (EU) No 73/2010. data and electronic terrain data rmation within the IAIP, AIP ordance with Article 5 and Anne ation in accordance with Article If applicable provide safety (3) (subject to revision once and aerodrome mapping data, restaion Exchange - Edition 1.0 / mation-exchange-aix rels - Edition 1.1 / 03/2018 rels - Edition 1.1 / 03/2018 rels - Edition 1.0 / utical-data-do mautical Data and Information restaion Publication eai

III-ADQ	Ensure Quality of Aeronautical Data and I	Aeronauticai iiiioi	Illation
Finalisation criteria:	The common dataset and digital exchange format requirements have been implemented. A safety assessment report, including safety arguments where applicable, has been provided to the NSA. The introduction of the change into service was accepted by the NSA and a notification of acceptance has been		
	 received. 4 - An EC declaration of verification of systems and a technical file contaregulatory provisions and with the relevant parts of EUROCONTROL sp compliance has been submitted to the NSA. 		
		From:	Ву:
ITY-ADQ-ASP07	Implement all data requirements	-	30/06/2017
ction by:	ANS Providers		'
escription & 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.		
inalisation criteria:	1 - All electronic data is compliant to all requirements and a statement o	f compliance has been p	
ITY-ADQ-APO01	Implement data quality and process requirements	From:	By: 30/06/2013
ction by:	Aerodrome & heliport Operators for which IFR or Special-VFR proc	edures have been pub	lished in national AIP
Description & purpose:	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. 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. 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.		
inalisation criteria:	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-152 - EUROCONTROL Specification for Data Quality Requirements - Edition 1.2 / 02/2016 Url: https://www.eurocontrol.int/publication/eurocontrol-specification-data-quality-requirements-dqr 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		
inalisation criteria:	 1 - Data quality requirements have been implemented and are documented for verification and audit. 2 - (For APOs certified as ANS): A safety assessment report, including safety arguments where applicable, has been provided to the NSA. 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. 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. 		
ITY-ADQ-APO02	Implement personnel and performance requirements	From:	By:
7-	. ,	_	30/06/2013
ction by:	Aerodrome & heliport Operators for which IFR or Special-VFR proc	·	
escription & purpose:	Develop and maintain awareness material and implement training and competence requirements in accord Article 7(4) and Article 7(5) of Regulation (EU) No 73/2010.		
	Develop and maintain operating manuals and request security clearances in accordance with Article (EU) No 73/2010.		
upporting 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-ais	<u>sag.par</u>	

Finalisation criteria:	 Awareness material and training records have been published. Competence requirements for staff have been met. Operating manuals have been provided. Security clearances for authorised staff have been provided. 			
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			
Description & purpose:	Implement and maintain a quality management system meeting the sar objectives in accordance with Article 10 and Annex VII of Regulation (E		and the security management	
	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.			
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-			
Finalisation criteria:	 eu-732010 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. 			
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 pro	cedures have be	en published in national AIP	
	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 ANS, provide a safety assessment report to the NSA and if applicable provide safety arguments to the NSA.			
	Note: Digital NOTAM may be excluded from the data exchange format ref. Article 5(3) (subject to revision once digital NOTAM work progressed).			
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 - 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			
	(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			

ITY-ADQ	Ensure Quality of Aeronautical Data and Aeronautical Information			
Finalisation criteria:	The common dataset requirements have been implemented. (For APOs certified as ANS): The common digital exchange format requirements have been implemented. (For APOs certified as ANS): A safety assessment report, including safety arguments where applicable, has been provided to the NSA. (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. (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.	From:	By:	
ITY-ADQ-APO05	Implement all data quality requirements	-	30/06/2017	
action by:	Aerodrome & heliport Operators for which IFR or Special-VFR prod	edures have bee	n published in national AIPs	
Description & purpose:	Update those aeronautical data and aeronautical information items whice amended since in accordance with Article 14 of Regulation (EU) No 73/		before 1 July 2013 and not	
inalisation criteria:	1 - All electronic data is compliant to all requirements and a statement of	f compliance has l	been provided to the NSA.	
ITY-ADQ-IND01	Implement data quality and process requirements	From:	By:	
II I-ADQ-INDUI	implement data quality and process requirements	-	30/06/2013	
action by:	Public/private entities providing services for the origination/provis	ion of survey, ele	ectronic terrain & obstacle	
Description & purpose:	data and procedures design services Implement the data quality and data origination requirements in accorda Regulation (EU) No 73/2010 and provide written evidence that the requ		and Annex IV Parts A - F of	
	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 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. 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. 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 technic			
	file.			
Supporting material(s):	EUROCONTROL - CHAIN Preliminary Safety Case Url : https://www.eurocontrol.int/service/aeronautical-data-and-informati	on-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-152 - EUROCONTROL Specification for Data Quality Requirements - Edition 1.2 / 02/2016			
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-data-quality-requirements-dqr 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			
inalisation criteria:	 Data quality requirements have been implemented and are documented for verification and audit. (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. (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. (For Manufacturers of constituents): An EC declaration of conformity of constituents or of suitability for use has been issued. (For IND certified as ANS): A safety assessment report, including safety arguments where applicable, has been provided to the NSA. 			
ITY-ADQ-IND02	Implement personnel and performance requirements	From:	By:	
II I -ADQ-INDUZ	implement personner and performance requirements	-	30/06/2013	
Action by:	Public/private entities providing services for the origination/provis data and procedures design services	ion of survey, ele	ectronic terrain & obstacle	

II I ADQ				
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-aistdq.pdf			
Finalisation criteria:	Awareness material and training records have been published.	itag.pai		
mansation 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. 			
	•	From:	By:	
ITY-ADQ-IND03	Implement a quality management system and fulfil safety and security objectives	-	30/06/2013	
Action by:	Public/private entities providing services for the origination/provisi data and procedures design services	on of survey, electron	ic terrain & obstacle	
Description & purpose:	Implement and maintain a quality management system meeting the safe objectives in accordance with Article 10 and Annex VII of Regulation (EU		e security management	
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-informatic	on-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-suppo	orting-implementation-co	ommission-regulation-	
inalisation criteria:	eu-732010 1 - A quality management system meeting the safety and security mana	gement objectives has I	peen 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.			
	Implement the common dataset and digital exchange format	From:	Ву:	
ITY-ADQ-IND04	requirements	-	30/06/2014	
		on of survey, electron		
Action by:	requirements Public/private entities providing services for the origination/provisi	ome mapping, electroni inex I of Regulation (EU rome mapping, electron teronautical data and as	c obstacle data, No 73/2010. ic obstacle data and eronautical information	
Action by: Description & purpose:	Public/private entities providing services for the origination/provisidata and procedures design services Implement the common dataset, provide and document the IAIP, aerodrelectronic terrain data and metadata in accordance with Article 4 and An If certified as ANS, implement a common data exchange for IAIP, aerodelectronic terrain data allowing digital data exchange and verify that all a within the IAIP, AIP amendments and AIP supplements are made availa Article 5 and Annex II of Regulation (EU) No 73/2010. Conduct a safety assessment including hazard identification, risk assess 10 of Regulation (EU) No 73/2010. If certified as an ANS, provide a safet	ome mapping, electroninex I of Regulation (EU rome mapping, electronineronautical data and acidate to the next intended sment and mitigation in	ic terrain & obstacle c obstacle data, l) No 73/2010. ic obstacle data and eronautical information user in accordance with	
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Action by: Description & purpose:	Public/private entities providing services for the origination/provisidata and procedures design services Implement the common dataset, provide and document the IAIP, aerodrelectronic terrain data and metadata in accordance with Article 4 and An If certified as ANS, implement a common data exchange for IAIP, aerodelectronic terrain data allowing digital data exchange and verify that all a within the IAIP, AIP amendments and AIP supplements are made availated Article 5 and Annex II of Regulation (EU) No 73/2010. Conduct a safety assessment including hazard identification, risk assess 10 of Regulation (EU) No 73/2010. If certified as an ANS, provide a safe applicable provide safety arguments to the NSA. Note: (1). Digital NOTAM may be excluded from the data exchange form digital NOTAM work progressed). Note: (2). Concerning the provision of Electronic obstacle data, electronic Article 2(1)(b-d). EUROCONTROL - SPEC 151 - EUROCONTROL Specification for Aero	ome mapping, electroninex I of Regulation (EU rome mapping, electronineronautical data and active to the next intended sment and mitigation in the sessment report to the next intended that ref. Article 5(3) (subject terrain data and aerocal nautical Information Exceptions	c obstacle data,) No 73/2010. ic obstacle data and eronautical information user in accordance with Article the NSA and if ect to revision once drome mapping data, re change - Edition 1.0 /	
escription & purpose:	Public/private entities providing services for the origination/provisidata and procedures design services Implement the common dataset, provide and document the IAIP, aerodrelectronic terrain data and metadata in accordance with Article 4 and An If certified as ANS, implement a common data exchange for IAIP, aerod electronic terrain data allowing digital data exchange and verify that all a within the IAIP, AIP amendments and AIP supplements are made availa Article 5 and Annex II of Regulation (EU) No 73/2010. Conduct a safety assessment including hazard identification, risk assess 10 of Regulation (EU) No 73/2010. If certified as an ANS, provide a safe applicable provide safety arguments to the NSA. Note: (1). Digital NOTAM may be excluded from the data exchange form digital NOTAM work progressed). Note: (2). Concerning the provision of Electronic obstacle data, electronic Article 2(1)(b-d). EUROCONTROL - SPEC 151 - EUROCONTROL Specification for Aero 12/2012	ome mapping, electroninex I of Regulation (EU rome mapping, electronineronautical data and active to the next intended sment and mitigation in the sessment report to the next intended that ref. Article 5(3) (subject terrain data and aerocal nautical Information Exceptions	c obstacle data,) No 73/2010. ic obstacle data and eronautical information user in accordance with Article the NSA and if ect to revision once drome mapping data, re change - Edition 1.0 /	
Action by:	Public/private entities providing services for the origination/provisidata and procedures design services Implement the common dataset, provide and document the IAIP, aerodr electronic terrain data and metadata in accordance with Article 4 and An If certified as ANS, implement a common data exchange for IAIP, aerod electronic terrain data allowing digital data exchange and verify that all a within the IAIP, AIP amendments and AIP supplements are made availa Article 5 and Annex II of Regulation (EU) No 73/2010. Conduct a safety assessment including hazard identification, risk assess 10 of Regulation (EU) No 73/2010. If certified as an ANS, provide a safe applicable provide safety arguments to the NSA. Note: (1). Digital NOTAM may be excluded from the data exchange form digital NOTAM work progressed). Note: (2). Concerning the provision of Electronic obstacle data, electronic Article 2(1)(b-d). EUROCONTROL - SPEC 151 - EUROCONTROL Specification for Aero 12/2012 Url: https://www.eurocontrol.int/publication/eurocontrol-specification-aero	ome mapping, electroninex I of Regulation (EU rome mapping, electronieronautical data and active to the next intended sment and mitigation in the sessment report to the next intended at the control of	c obstacle data,) No 73/2010. ic obstacle data and eronautical information user in accordance with Article the NSA and if ect to revision once drome mapping data, re change - Edition 1.0 /	
Action by: Description & purpose:	Public/private entities providing services for the origination/provisidata and procedures design services Implement the common dataset, provide and document the IAIP, aerodr electronic terrain data and metadata in accordance with Article 4 and An If certified as ANS, implement a common data exchange for IAIP, aerod electronic terrain data allowing digital data exchange and verify that all a within the IAIP, AIP amendments and AIP supplements are made availa Article 5 and Annex II of Regulation (EU) No 73/2010. Conduct a safety assessment including hazard identification, risk assess 10 of Regulation (EU) No 73/2010. If certified as an ANS, provide a safe applicable provide safety arguments to the NSA. Note: (1). Digital NOTAM may be excluded from the data exchange form digital NOTAM work progressed). Note: (2). Concerning the provision of Electronic obstacle data, electronic Article 2(1)(b-d). EUROCONTROL - SPEC 151 - EUROCONTROL Specification for Aero 12/2012 Url: https://www.eurocontrol.int/publication/eurocontrol-specification-aerocontrol control	ome mapping, electronic inex I of Regulation (EU rome mapping, electronic inex I of Regulation (EU rome mapping, electronic ineronautical data and ae ble to the next intended sment and mitigation in the same as a session of the same inext ref. Article 5(3) (subject terrain data and aeroconautical Information Exconautical Information—exconautical-information—exconautica	ic terrain & obstacle c obstacle data, No 73/2010. ic obstacle data and eronautical information user in accordance with accordance with Article the NSA and if ect to revision once drome mapping data, re change - Edition 1.0 /	
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ITY-ADQ	Ensure Quality of Aeronautical Data and Aeronautical Information		
Finalisation criteria:	 The common dataset requirements have been implemented. (For IND certified as ANS): The common digital exchange format requirements have been implemented. (For IND certified as ANS): A safety assessment report, including safety arguments where applicable, has been provided to the NSA. (For IND certified as ANS): The introduction of the change into service was accepted by the NSA and a notificati acceptance has been received. (For IND certified as ANS): An EC declaration of verification of systems and a technical file containing evidence 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. (For Manufacturers of constituents): An EC declaration of conformity of constituents or of suitability for use has be issued. 		
ITY-ADQ-IND05	Implement all data quality requirements	From:	By: 30/06/2017
Action by:	Public/private entities providing services for the origination/provis data and procedures design services	ion of survey, electron	nic terrain & obstacle
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.		