

European Cyber security for aviation Standards Coordination Group (ECSCG) Rolling Development Plan (RDP)

V2.0

As defined in its Terms of Reference, the ECSCG is a joint coordination and advisory group established to coordinate the standardisation activities related to civil aviation cyber security. The RDP is periodically updated to reflect the current situation. It may therefore not be exhaustive in some areas. Its contents should be used for information purposes only and should not be used as any regulatory reference.

Standards related to UAS are covered by the European UAS Standards Coordination Group (EUSCG). The EUSCG RDP is available at www.euscg.eu
Standards related to ATM are covered by the European ATM Standards Coordination Group (EASCG). The EASCG RDP is available at www.eascg.eu

This document can be downloaded from <https://www.eurocae.net/about-us/ecscg/>

STANDARDISATION							REGULATION																							Comment				
Domain	Standardisation activity	Reference	Standardisation organisation	Target date for standard publication	Status	Joint activity	Regulatory activity	Regulatory organisation	Target date for regulatory material publication	Status	1. Cybersecurity Terminology	2. Trustworthiness	3. Privacy	4. Oversight	5. Risk assessment	6. Cyber resilience requirements	7. Transorganisational security requirements and interfaces	8. Civil-military interoperability, secure data exchange	9. Supply chain cyber security	10. Maintenance (MRO) Security	11. Cloud security	12. Development & Production Process Security	13. Product security	14. Cyber security verification	15. Risk and vulnerability management	16. Operation security	17. Security Incident, Event Management, Incidence Response and Recovery Management	18. Information sharing						
AERODROME																																		
Aerodrome	New Guide for Best Practices, Minimum Requirements, and General Recommendations for Reliable, Cyber Secure, and Upgradable Security Control Systems	ASTM WK44589	ASTM	TBD	Ongoing									X	X												X						Focus on detention facility cyber security requirements - may have relevance to aerodrome security	
AIRCRAFT																																		
Aircraft	Guidance for Security Event Logging in an IP Environment	ARINC 852	ARINC	2017	Published												X		X	X	X							X						
Aircraft	Guidance for Security of Loadable Software Parts Using Digital Signatures	ARINC 835-1	ARINC	2014	Published														X				X											
Aircraft	Guidance for Usage of Digital Certificates	ARINC 842-1	ARINC	2013	Published												X	X	X	X	X													
Aircraft	Datalink Security Part 1 - ACARS Message Security	ARINC 823P1	ARINC	2007	Published																		X											
Aircraft	Commercial Aircraft Information Security Concepts of Operation and Process Framework	ARINC 811	ARINC	2005	Published																		X										Old and more of a process framework, so added for the sake of completeness than for relevance.	
Aircraft	Aviation Industry Standards for Digital Information Security	ATA 42 rev 2020.1	ATA (now A4E)	2020	Published												X		X	X	X													
Aircraft							Rule Making Task.0648	EASA	2020	Ongoing					X								X	X	X	X	X	X					Update of Certification Specifications and AMC to include Cybersecurity objectives and considerations for products. Certification specification CS-25, CS-23, CS-29, CS-27, CS-P, CS-E, CS-ETSO and AMC 2042 NPA 1Q2019	
Aircraft	Information Security Guidance For Continuing Airworthiness	ED-204A	EUROCAE WG-72	2020	Ongoing	RTCA DO-355A					X		X					X	X					X	X	X	X	X						
Aircraft	Information Security Guidance For Continuing Airworthiness	ED-204	EUROCAE WG-72	2014	Published	RTCA DO-355					X		X					X	X					X	X	X	X	X						
Aircraft	Airworthiness Security Process Specification	ED-202A	EUROCAE WG-72	2014	Published	RTCA DO-326A					X			X	X								X											
Aircraft	Airworthiness Security Methods And Considerations	ED-203A	EUROCAE WG-72	2018	Published	RTCA DO-356A					X	X		X	X				X				X		X									
Aircraft	MASPS for AMS(R)S Data and Voice Communications Supporting Required Communications Performance (RCP) and Required Surveillance Performance (RSP)	ED-242C	EUROCAE WG-82	2021	Draft	RTCA DO-343D																	X			X								Details are captured in EASCG RDP (www.eascg.eu).

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Aircraft	MASPS for AMS(R)S Data and Voice Communications Supporting Required Communications Performance (RCP) and Required Surveillance Performance (RSP)	ED-242B	EUROCAE WG-82	2020	Published	RTCA DO-343C																	X			X					Details are captured in EASCG RDP (www.eascg.eu).																			
Aircraft	Process management for avionics – Counterfeit prevention – Part 1: Avoiding the use of counterfeit, fraudulent and recycled electronic components	IEC 62668-1	IEC	2019	Published														X																															
Aircraft	Process management for avionics – Counterfeit prevention – Part 2: Managing electronic components from non-franchised sources	IEC 62668-2	IEC	2019	Published														X																															
Aircraft	Process management for avionics – Management plan – Part 1: Preparation and maintenance of an electronic components management plan	IEC 62239-1	IEC	2018	Published														X												Not directly cyber standard but support ED-203A on establishing an ECMP to avoid counterfeit and other suspect components.																			
Aircraft	Process management for avionics – Management plan – Part 2: Preparation and maintenance of an electronic COTS assembly management plan	IEC TS 62239-2	IEC	2017	Published														X												Not directly cyber standard but support ED-203A on establishing an ECMP to avoid counterfeit and other suspect components.																			
Aircraft	Counterfeit Electrical, Electronic, and Electromechanical (EEE) Parts; Avoidance, Detection, Mitigation, and Disposition	SAE AS 5553C	SAE	2019	Published														X																															
Aircraft	Requirements for an Electronic Components Management Plan	SAE EIA STD 4899C	SAE	2017	Published														X																															
Aircraft	Requirements for a COTS Assembly Management Plan	SAE EIA 993B	SAE	2015	Published														X																															
Aircraft	Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection, Mitigation, and Disposition - Authorized/Franchised Distribution	SAE AS 6496	SAE	2014	Published														X																															
Aircraft	Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection, Mitigation, and Disposition - Distributors	SAE AS 6081	SAE	2012	Published														X																															
ATM/ANS																																																		
ATM/ANS	Air Traffic Management - Information security for organisations supporting civil aviation operations	EN 16495:2014	CEN	2014	Published	ISO/IEC									X	X		X											X			European Standard																		

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ATM/ANS	Air Traffic Management - Specification for software assurance levels	CEN/TS 16501:2013	CEN	2013	Published	ISO/IEC																									Technical Specification
ATM/ANS	Interoperability of Flight Data Processing (Air Traffic Control - Air Traffic Control) for application under the Single European Sky - Interoperability Regulation EC 552/2004	CEN/TS 16071:2010	CEN	2010	Published	ISO/IEC												X												Technical Specification	
ATM/ANS	Security Certification and Declaration of ATM ANS Ground Systems	ED-205	EUROCAE WG-72	2019	Published						X				X	X		X					X	X	X				X		
ATM/ANS	Security Management Handbook - A Framework	Edition 1.0, May 2008	EUROCONTR OL	2008	Published										X			X							X						
ATM/ANS	ICT Security Guidance	Edition 1.0, May 2008	EUROCONTR OL	2008	Published						X		X	X	X									X	X	X					
ATM/ANS	ATM Security Risk Management Toolkit - Guidance Material	Edition 1.0, September 2010	EUROCONTR OL	2010	Published													X						X							
ATM/ANS	ATM Security Risk Management Toolkit - Guidance Material - Appendices	Edition 1.0, September 2010	EUROCONTR OL	2010	Published													X						X							
ATM/ANS	Manual for National ATM Security Oversight	Edition 3.0, December 2016	EUROCONTR OL	2016	Published									X				X													
ATM/ANS	ATM Security Policy - Guidelines for Implementation		EUROCONTR OL/NATO	2015	Published	NATO									X			X						X						ATM Security Coordination Group, (NEASCOG)	
ATM/ANS	Security Risk Assessment Methodology for SESAR 2020 (SecRAM 2.0 + corresponding catalogue)		SESAR 2020	?	Published						X				X	X		X					X	X	X					Internal S2020 standard	
TRANSVERSAL																															
Transversal	Supplement 1 to ARINC Report 645: Common Terminology and Functions for Software Distribution and Loading	ARINC 645 Supplement 1	ARINC	2022	Ongoing														X	X			X	X							Applies to manufacturers and operators.
Transversal	Electronic Distribution of Software by Crate (EDS Crate)	ARINC 827	ARINC	2010	Published												X		X	X			X	X							
Transversal	New Practice for Aircraft Systems Information Security Protection	ASTM WK56374	ASTM F44.50	2020	Ongoing						X			X									X								
Transversal	Standard Guide for Cybersecurity and Cyberattack Mitigation	ASTM F3286-17	ASTM	2017	Published																						X				
Transversal							ESCP - Regulatory Processes Work Stream	EASA	2021/4Q	Ongoing	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Coordinating the discussion about Rule Making Task.0720 (aka "horizontal rule") - Implementing Rule NPA June 2019, Opinion 2Q2020
Transversal							ESCP - Regulatory Processes Work Stream	EASA	2021/4Q	Ongoing	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Coordinating the discussion about Rule Making Task.0720 (aka "horizontal rule") - AMC

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Transversal	Guidance On Security Event Management	ED-XXX	EUROCAE WG-72	2021	Ongoing	RTCA DO-XYZ										X		X							X	X	X	X		ED-XXX ISEM will provide more detailed guidance than F3286-17 and tailoring toward proposed regulation. F3286-17 "Standard Guide for Cybersecurity and Cyberattack Mitigation" by ASTM was published 09-Jul-05.	
Transversal	Aeronautical Information System Security (Aiss) Framework Guidance	ED-201A	EUROCAE WG-72	2020	Ongoing	RTCA DO-XYZ					X	X			X	X	X	X	X	X		X	X	X	X	X	X	X	X		
Transversal	Aeronautical Information System Security (Aiss) Framework Guidance	ED-201	EUROCAE WG-72	2015	Published						X	X			X	X	X	X	X	X		X	X	X	X	X	X	X	X		
	Security and Privacy Controls for Information Systems and Organizations	US NIST 800-53 rev.5	NIST	2020	Draft						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	Security and Privacy Controls for Federal Information Systems and Organizations	US NIST 800-53 rev.4	NIST	2015	Published						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Transversal	G-32 Cyber Physical Systems Security	G-32 AS and AIRs	SAE G-32	2021	Ongoing						X				X		X		X			X	X		X	X	X		SAE G-32 is working on 1 AS and 2 AIRs on hardware assurance and software assurance aspects of supply chain security. These are JA7496 – Cyber Physical Systems Security Engineering Plan, JA 6801 – Cyber Physical Systems Security Hardware Assurance and JA6678 – Cyber Physical Systems Security Software Assurance.		
OTHER AVAILABLE STANDARDS																															
Other available standards	mobile networks security; 3G, 4G, 5G	all security work 3G and beyond	.3GPP SA3		Published												X							X							
Other available standards	Standard Guide for Credentialing for Access to an Incident or Event Site	ASTM E2842-14	ASTM	2014	Published									X													X	X			
Other available standards	Protection profiles for secure signature creation device - Part 1: Overview	EN 419211-1:2014	CEN	2014	Published						X																			European Standard	
Other available standards	Protection profiles for secure signature creation device - Part 2: Device with key generation	EN 419211-2:2013	CEN	2013	Published									X	X	X						X		X		X				European Standard	
Other available standards	Protection profiles for secure signature creation device - Part 3: Device with key import	EN 419211-3:2013	CEN	2013	Published										X	X						X		X		X				European Standard	
Other available standards	Protection profiles for secure signature creation device - Part 4: Extension for device with key generation and trusted channel to certificate generation application	EN 419211-4:2013	CEN	2013	Published										X	X						X		X		X				European Standard	

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Other available standards	Protection profiles for secure signature creation device - Part 5: Extension for device with key generation and trusted channel to signature creation application	EN 419211-5:2013	CEN	2013	Published											X	X					X			X							European Standard
Other available standards	Protection profiles for secure signature creation device - Part 6: Extension for device with key import and trusted channel to signature creation application	EN 419211-6:2014	CEN	2014	Published											X	X					X			X							European Standard
Other available standards	Security requirements for device for authentication - Part 1: Protection profile for core functionality	EN 419251-1:2013	CEN	2013	Published											X	X					X			X							European Standard
Other available standards	Security requirements for device for authentication - Part 2: Protection profile for extension for trusted channel to certificate generation application	EN 419251-2:2013	CEN	2013	Published											X	X					X			X							European Standard
Other available standards	Security requirements for device for authentication - Part 3: Additional functionality for security targets	EN 419251-3:2013	CEN	2013	Published											X	X					X			X							European Standard
Other available standards	Protection profile for trustworthy systems supporting time stamping	FprEN 419231	CEN	2019	Ongoing											X	X					X			X							European Standard
Other available standards	Information technology - Security techniques - Information security management systems - Overview and vocabulary (ISO/IEC 27000:2016)	EN ISO/IEC 27000:2017	CEN and CENELEC	2017	Published	ISO/IEC					X																					European Standard
Other available standards	Information technology - Security techniques - Information security management systems - Overview and vocabulary (ISO/IEC 27000:2018)	prEN ISO/IEC 27000 rev	CEN and CENELEC	2019	Ongoing	ISO/IEC					X																					European Standard
Other available standards	Information technology - Security techniques - Information security management systems - Requirements (ISO/IEC 27001:2013 including Cor 1:2014 and Cor 2:2015)	EN ISO/IEC 27001:2017	CEN and CENELEC	2017	Published	ISO/IEC					X			X	X	X			X	X		X		X		X						European Standard
Other available standards	Information technology - Security techniques - Code of practice for information security controls (ISO/IEC 27002:2013 including Cor 1:2014 and Cor 2:2015)	EN ISO/IEC 27002:2017	CEN and CENELEC	2017	Published	ISO/IEC					X			X	X	X			X	X		X		X		X						European Standard
Other available standards	Information technology - Security techniques - Guidelines for identification, collection, acquisition and preservation of digital evidence (ISO/IEC 27037:2012)	EN ISO/IEC 27037:2016	CEN and CENELEC	2016	Published	ISO/IEC					X			X	X	X			X	X		X		X		X						European Standard

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Other available standards	Information technology - Security techniques - Specification for digital redaction (ISO/IEC 27038:2014)	EN ISO/IEC 27038:2016	CEN and CENELEC	2016	Published	ISO/IEC					X				X	X	X		X	X		X			X							European Standard
Other available standards	Information technology - Security techniques - Guidance on assuring suitability and adequacy of incident investigative method (ISO/IEC 27041:2015)	EN ISO/IEC 27041:2016	CEN and CENELEC	2016	Published	ISO/IEC					X				X	X	X		X	X		X			X							European Standard
Other available standards	Information technology - Security techniques - Guidelines for the analysis and interpretation of digital evidence (ISO/IEC 27042:2015)	EN ISO/IEC 27042:2016	CEN and CENELEC	2016	Published	ISO/IEC					X				X	X	X		X	X		X			X							European Standard
Other available standards	Information technology - Security techniques - Incident investigation principles and processes (ISO/IEC 27043:2015)	EN ISO/IEC 27043:2016	CEN and CENELEC	2016	Published	ISO/IEC					X				X	X	X		X	X		X			X							European Standard
Other available standards	Security for industrial automation and control systems - Part 4-1: Secure product development lifecycle requirements	EN IEC 62443-4-1:2018	CENELEC	2018	Published	IEC					X				X	X	X					X			X							European Standard
Other available standards	Security for industrial automation and control systems - Part 4-2: Technical security requirements for IACS components	PrEN IEC 62443-4-2:2018	CENELEC	2019	Ongoing	IEC					X				X	X						X			X							European Standard
Other available standards	Security for industrial automation and control systems - Part 3-2: Security risk assessment and system design	prEN 62443-3-2:2018	CENELEC	2019	Ongoing	IEC					X				X	X						X			X							European Standard
Other available standards	Industrial communication networks - Network and system security - Part 3-3: System security requirements and security levels	prEN IEC 62443-3-3:2018	CENELEC	2019	Ongoing	IEC					X				X	X						X			X							European Standard
Other available standards	Security for industrial automation and control systems - Part 2-4: Security program requirements for IACS service providers	prEN 62443-2-4	CENELEC	2019	Ongoing	IEC					X				X	X	X					X			X							European Standard
Other available standards	Industrial-process measurement, control and automation - Evaluation of system properties for the purpose of system assessment - Part 1: Terminology and basic concepts	EN 61069-1:2016	CENELEC	2016	Published	IEC					X																					European Standard
Other available standards	Industrial-process measurement, control and automation - Evaluation of system properties for the purpose of system assessment - Part 2: Assessment methodology	EN 61069-2:2016	CENELEC	2016	Published	IEC									X	X									X							European Standard

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Other available standards	Privacy; Identity management and naming schema protection mechanisms	Doc. Nb. TS 103 486	ETSI /TC CYBER	2019	Ongoing							X																								
Other available standards	Protection measures for ICT in the context of Critical Infrastructure	Doc. Nb. TR 103 303 Ver. 1.1.1	ETSI /TC CYBER	2016	Published																				X											
Other available standards	Critical Infrastructure; ICT Metrics for Identification of CI	Ref. DTR/CYBER: 0024	ETSI /TC CYBER	2020	Ongoing																				X											
Other available standards	Critical Security Controls for Effective Cyber Defence;	Doc. Nb. TR 103 305-1 Ver. 3.1.1	ETSI /TC CYBER	2018	Published																				X											
Other available standards	Critical Security Controls for Effective Cyber Defence;	Doc. Nb. TR 103 305-2 Ver. 2.1.1	ETSI /TC CYBER	2018	Published																				X											
Other available standards	Critical Security Controls for Effective Cyber Defence;	Doc. Nb. TR 103 305-3 Ver. 2.1.1	ETSI /TC CYBER	2018	Published																				X											
Other available standards	Critical Security Controls for Effective Cyber Defence;	Doc. Nb. TR 103 305-4 Ver. 2.1.1	ETSI /TC CYBER	2018	Published																				X											
Other available standards	Critical Security Controls for Effective Cyber Defence;	TR 103 305-5	ETSI /TC CYBER	2018	Published																				X											
Other available standards	Secure by Default - platform security technology	Doc. Nb. TR 103 309 Ver. 1.1.1	ETSI /TC CYBER	2015	Published																	X	X													
Other available standards	Structured threat information sharing	Doc. Nb. TR 103 331 Ver. 1.1.1	ETSI /TC CYBER	2016	Published																												X			
Other available standards	Design requirements ecosystem	Doc. Nb. TR 103 369 Ver. 1.1.1	ETSI /TC CYBER	2016	Published																		X													
Other available standards	Network Gateway Cyber Defence	Doc. Nb. TR 103 421 Ver. 1.1.1	ETSI /TC CYBER	2017	Published																	X														
Other available standards	Middlebox Security Protocol	TS 103 523-1	ETSI /TC CYBER	2019	Ongoing												X																			
Other available standards	Middlebox Security Protocol	Doc. Nb. TS 103 523-2	ETSI /TC CYBER	2019	Ongoing												X																			
Other available standards	Middlebox Security Protocol	TS 103 523-3	ETSI /TC CYBER	2018	Published												X																			

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Other available standards	Implementation of the Network and Information Security (NIS) Directive	Doc. Nb. TR 103 456 Ver. 1.1.1	ETSI /TC CYBER	2017	Published									X										X	X	X			
Other available standards	Quantum Computing Impact on security of ICT Systems;	Doc. Nb. EG 203 310 Ver. 1.1.1	ETSI /TC CYBER	2016	Published																			X					
Other available standards	Quantum-Safe Cryptography	All published work	ETSI /TC CYBER	2018	Published								X									X							
Other available standards	Quantum-Safe Cryptography	ongoing work	ETSI /TC CYBER	2019	Ongoing								X									X							
Other available standards	Methods and protocols; Threat, Vulnerability, Risk Analysis	Doc. Nb. TS 102 165-1 Ver. 5.2.3	ETSI /TC CYBER	2017	Published									X								X							
Other available standards	Methods and protocols; Part 2: Protocol Framework Definition; Security Counter Measures	Doc. Nb. TS 102 165-2	ETSI /TC CYBER	2019	Ongoing																	X	X						
Other available standards	Specifying a common interface to transfer sensitive functions to a trusted domain.	Doc. Nb. TS 103 457	ETSI /TC CYBER	2018	Published											X								X					
Other available standards	Security techniques for protecting software in a white box model	TR 103 642	ETSI /TC CYBER	2018	Published																	X							
Other available standards	Cyber Security for Consumer Internet of Things	TS 103 645	ETSI /TC CYBER	2019	Published																	X							
Other available standards	Techniques for assurance of digital material used in legal proceedings.	TS 103 643	ETSI /TC CYBER	2019	Ongoing							X						X											
Other available standards	Cryptography; Guide to Identity Based Encryption	DTR/CYBER-0045	ETSI /TC CYBER	2020	Ongoing											X						X							
Other available standards	Information Security Indicators	All published work	ETSI/ISG ISI	2019	Published																		X	X					
Other available standards	Digital signatures: creation and validation (formats, procedures, sign policies)	All published work	ETSI/TC ESI	2019	Published											X		X				X							
Other available standards	Digital signatures: formats conformance checkers (free access)	Sign format conformance checkers	ETSI/TC ESI	NA	Published																	X							

**EUROPEAN CYBER SECURITY FOR AVIATION
STANDARDS ROLLING DEVELOPMENT PLAN
Domain and category scopes**

The ECSCG is a joint coordination and advisory group established to coordinate the cyber security for aviation related standardisation activities. One of the tasks of the ECSCG is to develop, monitor and maintain an overarching European cyber security for aviation standards rolling development plan, in particular for those standards aimed at providing means to comply with cyber security rules under development initially based on the existing material contained in ER- 017.

The Rolling Development Plan intends:

1. to provide a table identifying European cyber security for aviation standards,
2. to ensure that the information is expressed in a way that is accessible and usable
3. to develop a format that can be updated in a structured fashioned

Scope of Domain	<p>To facilitate access to the relevant documents, the standards and regulations have been divided into mutually exclusive domains. Domains are common user group or base for standards that has similar lifecycle and environment; these are loosely aligned with organisational approvals.</p> <p>These domains are: 'Aerodrome', 'Aircraft', 'ATM/ANS', 'Transversal' (i.e. across aviation) and Other available standards (i.e. non-aviation).</p> <p>'Air Operators' may become a future domain once its scope is defined and potentially relevant documents are proposed.</p>
Scope of Category	<p>To facilitate access as well as the identification of gaps, the standards and regulations are associated with one or more categories. These categories are used to identify topics addressed by the standards and regulations. This categorisation is also used to identify common topics where security standardisation is needed.</p>
Information Security scope in the RDP	<p>In this context and with view to use a scope as broad as possible:</p> <ul style="list-style-type: none"> • "The practice of defending information from unauthorised access, use, disclose, disruption, modification, perusal, inspection, recording or destruction. It is a general term that can be used regardless of the form the data may take (electronic, physical, etc.)" (ER-013). • Information security includes here information technology, operational technology and embedded systems. • Information security here also includes the impact on safety, security and continuity of civil aviation.

Domain	Agreed scope
1 Aerodrome	A defined area on land or in water (including buildings, installations and equipment) intended to be used either wholly or in part for the arrival, departure and movement of aircraft (ICAO). The domain includes all documents that provide requirements, specifications, guidelines or characteristics related to the design, construction and operation.
2 Aircraft	An aircraft is any machine that can derive support in the atmosphere from the reactions of the air other than the reactions of the air against the earth's surface (ICAO). The domain includes all documents that provide requirements, specifications, guidelines or characteristics related to the design, production and MRO.
3 ATM/ANS	<p>Air traffic management is an aviation term encompassing all systems that assist aircraft to depart from an aerodrome, transit airspace, and land at a destination aerodrome, including Air Traffic Services (ATS), Airspace Management (ASM), and Air Traffic Flow and Capacity Management (ATFCM).</p> <p>Air Navigation Services is a term that includes air traffic management (ATM), communications, navigation and surveillance systems (CNS), meteorological services for air navigation (MET), search and rescue (SAR) and aeronautical information services (AIS). These services are provided to air traffic during all phases of operations (approach, aerodrome and en-route).</p> <p>The domain includes both ATM and ANS as defined above and comprises all documents that provide requirements, specifications, guidelines or characteristics to ensure that materials, products, processes and services are fit developed for all systems that assist aircraft to depart from an aerodrome, transit airspace, and land at a destination aerodrome.</p>
4 Transversal	The domain includes all documents that could have a horizontal and/or vertical effect on specifications, guidelines or characteristics across two or more domains.
5 Other available standards	The domain includes all non-aviation standards that may be relevant to one or more domains and provided for information only. Where gaps in the categories exist for a particular domain, the available standards can be used directly, if appropriate, otherwise they can be modified with a supplement or used as a template for creating aviation standards.
Future domain	
6 Air Operators	<i>Scope to be characterised in a second stage, with the proposition of related regulatory and standardisation documents.</i>

Category	Scope agreed
1. Cybersecurity Terminology	Terminology either defined by standards being developed or already existing. Common recognition of definitions either used in or relevant to the field of cybersecurity or information security as used in the relevant domain.
2. Risk assessment	Overall process comprising a risk analysis and a risk evaluation (ISO/IEC Guide 73). For example, and without limitation: procedure for identifying all threat conditions, ranking of threat conditions, harmonising severity of threat conditions, use of threat catalogues, use of likelihood or probability, use and harmonisation of attacker profiles.
3. Risk and vulnerability management	<p>Risk management is the identification, evaluation, and prioritisation of risks followed by coordinated and economical application of resources to minimise, monitor, and control the probability or impact of unfortunate events or to maximise the realisation of opportunities.</p> <p>Vulnerability Management: Vulnerability management is a security practice specifically designed to proactively mitigate or prevent the exploitation of IT vulnerabilities which exist in a system or organization.</p> <p>The process involves the identification, classification, remedy, and mitigation of various vulnerabilities within a system. It is an integral part of computer and network security and is practiced together with risk management as well as other security practices.</p> <p>For example, and without limitation: continuously identifying vulnerabilities throughout lifecycle through automated means, private or public vulnerability disclosures, testing and ranking or scoring of vulnerabilities to identify and harmonise vulnerabilities posing risks that need to be remediated immediately, can be deferred or accepted</p>
4. Security Incident and Event Management	<p>‘Information security event’ means an identified occurrence of a system, service or network state indicating a possible breach of information security policy or failure of security controls, or a previously unknown situation that can be security relevant;</p> <p>“information security incident’ means a single or a series of unwanted or unexpected information security events which could potentially affect aviation safety,” security and continuity of civil aviation.</p> <p>Documents providing requirements, specifications, guidelines developed for the process of identifying, monitoring, recording and analysing security events or incidents as defined above.</p>
5. Incidence Response and Recovery Management	<p>Incident response is the methodology an organization uses to respond to and manage an Information Security Incident.</p> <p>An incident response aims to reduce this damage and recover as quickly as possible.</p> <p>Recovery Management involves a set of policies, tools and procedures to enable the recovery or continuation of vital technology infrastructure and systems following a natural or human-induced disaster. Recovery management focuses on the IT or technology systems supporting critical business functions, as opposed to business continuity, which involves keeping all essential aspects of a business functioning despite significant disruptive events. Disaster recovery can therefore be considered as a subset of business continuity.</p> <p>For example, and without limitation: cleaning of malware, forensics.</p>

6. Maintenance (MRO) Security	MRO Security refers to the set of procedures, processes and standards designed to provide information security assurance across organisations involved in aviation maintenance, repair and overhaul thus, including relevant supply chain organisations.
7. Development & Production Security	Development & Production Security refers to the set of procedures, processes and standards designed to provide information security assurance across organisations involved in the design, development and production of assets for aviation thus, including relevant supply chain organisations. For example, and without limitation: specific enterprise needs for development of certified parts and securing of Operational Technology used to produce aviation parts.
8. Transorganisational security requirements and interfaces	Refers to the set of procedures, processes and standards designed to provide information security assurance affecting the organisations which are part of the aviation functional chain thus, are required to exercise a level of risk management that results in (acceptable) levels of risks which are acceptable for other organisations.
9. Trustworthiness	The ability to be relied on as honest or truthful and to handle with best intent. In technology this refers to the application of appropriate procedures, processes and standards which allows it to be perceived as reliable by a human or another technical system. For example, and without limitation: Standards that establish trust in personnel and organisations such that credit can be taken for certification purposes, includes both technical means such as encryption and digital signatures, operational means such as policies, procedures and contracts, as well as external agreements.
10. Civil-military interoperability, secure data exchange	Standards relating to particular needs of civil-military interfaces
11. Cyber resilience requirements	Cyber resilience refers to an entity's ability to continuously deliver the intended outcome despite adverse cyber events. Refers to procedures, processes and standards an organisation, stakeholder or system must fulfil for cyber resilience assurance. For example, and without limitation: providing best practices for hardening parts and services
12. Cyber security verification	Cyber security verification is intended to check that a product, service, or system (or portion thereof, or set thereof) intended to ensure cyber security meets a set of (design) specifications. For example, and without limitation: Standards providing the processes for performing various forms of security testing to uncover vulnerabilities and assess security architecture and implementation of security requirements as well as the means for assessing the quality and coverage of testing performed.

13. Supply chain cyber security	<p>It refers to the set of procedures, processes and standards designed to provide information security assurance for organisations acting as suppliers for research, design, development, production, maintenance, repair, overhaul, operations and decommission of assets</p> <p>For example, and without limitation: documents related to securing risks to supply chain - either internal manufacturing or outsourced suppliers of software and hardware taking into consideration the relationship between the contracting organisations.</p>
14. Operation security	<p>It refers to the set of procedures, processes and standards designed to provide information security assurance across an organisation's operations.</p> <p>For example, and without limitation: documents providing means of consistently applying operational security controls for which credit can be taken</p>
15. Oversight	<p>Standards providing the means of consistently ensuring oversight in an economically viable manner including certification (by authorities and/or trusted third parties), auditing and inspection (by contracting organisation or trusted third party)</p>
16. Information sharing	<p>Information sharing describes the exchange of data between various organizations, people and technologies through documents providing requirements, specifications, guidelines related to the act of passing information, electronically or through other systems.</p> <p>For example, and without limitation: setting the framework for establishing the trust necessary to share sensitive security information</p>
17. Privacy	<p>Set of shared values governing the privacy protection of personally identifiable information (PII) when processed in information and communication technology systems (ISO/IEC 29100)</p> <p>For example, and without limitation: Standards related to particular security aspects related to privacy</p>
18. Product security	<p><i>Product security</i> refers to the set of procedures, processes and standards designed to provide information security assurance of a product or asset through documents providing requirements, specifications, guidelines fit developed for application security, infrastructure security, and incident response.</p> <p>For example, documents that establish the best practices and requirements for aviation products.</p>
19. Cloud security	<p>Cloud computing security refers to the set of procedures, processes and standards designed to provide information security assurance in a cloud computing environment with the objective of preserving the confidentiality, integrity and availability of information.</p> <p>Cloud computing security addresses both physical and logical security issues across all the different service models of software, platform and infrastructure. It also addresses how these services are delivered (public, private or hybrid delivery model).</p> <p>For example, and without limitation: documents that establish the best practices and requirements when using cloud technologies in aviation.</p>