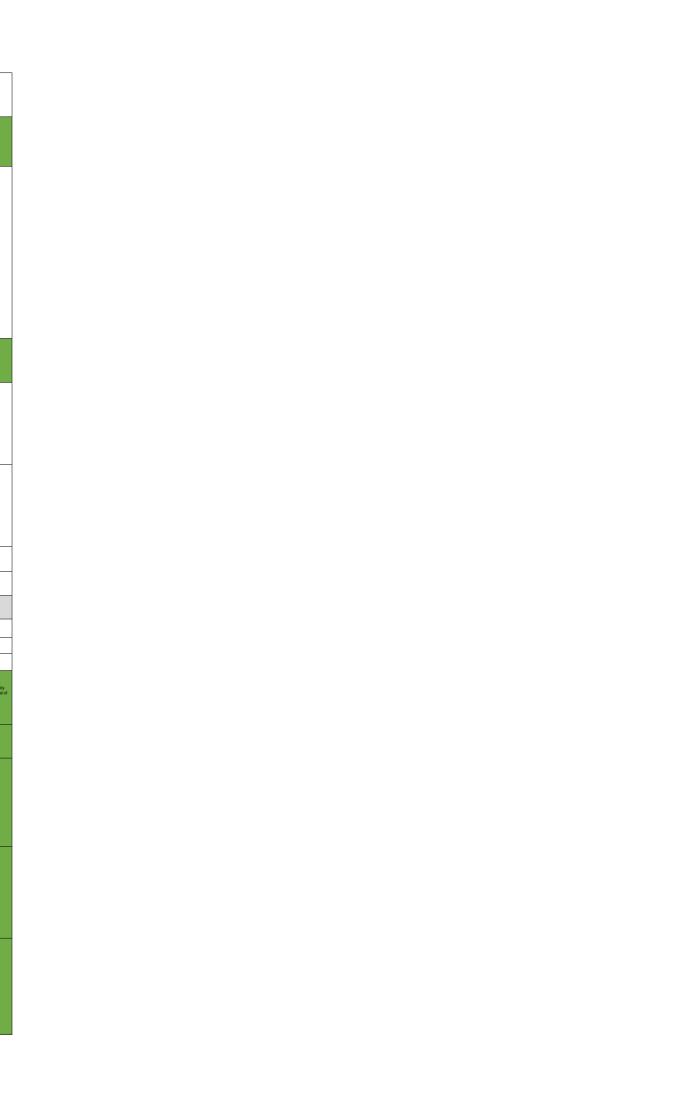
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M=modified		Secretary and the		Regulatory	Target date for regulatory	EASA UAS	Status	Standardisation		SDO	Target date for	Type of document (standard,	Status	Comments
		Regulatory activity	Content of the Regulation	organisation	material publication	categories	Status	activity	Short description of the deliverable	500	publication	supporting material etc.)	Status	Comments
1	General													
		Opinion No.1/2018	Art. 2 Definitions	EASA	Dec-18	open and specific								
									This data dictionary provides a mathematically coherent set of definitions for quantity types used in data models for urmanned systems. In this data dictionary, a quantity is defined as a property of a phenomenon, substance, or body whose value has magnitude.	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture	Mar-18	standard	ongoing	
								ARP6128 Unmanned Systems Terminology Based on the ALFUS Framework	This SAE Aerospace Recommended Practice (ARP) describes terminology specific to unmained systems (UMSs) and definitions for those terms. It locuses only on terms used exclusively for the development, testing, and other activities regarding UMSs. Terms that are used in the community but can be understood with common dictionary definitions are not included in this document. Further efforts to expand the scope of the seminology are hero obstanced.	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee		recommended practice	published	
								AS#### UAS Propulsion System Terminology		SAE E-39 Unmanned Aircraft Propulsion Committee	May-19	standard	planned	
								ASTM WK62416 New Standard Terminology for Unmanned Aircraft Systems	This terminology contains a listing of terms, abbreviations, acronyms, and symbols related to unmanned aircraft. It is intended to ensure the consistent use of terminology and nomenclature for unmanned aircraft.	ASTM F38 Unmanned Aircraft Systems	Jan-19		planned	Under development
								ISO 21895 - Requirements for the categorization and classification of civil UAS	Requirements for the categorization and classification of civil UAS. The standard applies to their industrial regulation, development and production, delivery and usage.	ISO TC20/SC16/WG1	Dec-18	standard	ongoing	
								ISO 21384-1 - General requirements for UAS for civil and commercial applications, UAS terminology and classification	Provides the foundation and common terms, definitions and references relevant to the whole Standard, the purpose of which is to provide a safety quality standard for the safe operation of all UAS through the provision of synergistic standards for manufacturing and operations.	ISO TC20/SC16/WG1	Dec-18	standard	ongoing	
	Manuals	Opinion No.1 2018	Appendix 2, 3, 4, UAS in class CT, CZ and CS shall write menual providing the class CT, CZ and CS shall write menual providing the characteristics of the UA (including but not limited to the mass of the UA, the MTOM, including its purplead, the freequency of the descence identification emission, the general characteristics of allowed provided in terms of the UA or the control of allowed provided in terms of the UA or the CA or the UA or the U	EASA	Dec-18	open	Opinion published							
	Manuals	Opinion No.1 2018	Appendix 1 to delegated act UAS in class COshell be placed on the market with clear operational instructions and warnings highlighting the risks related to UAS operations, which shall be adapted to the age of the user;	EASA	Dec-18	open	Opinion published							
	Manuals	Opinion No.1 2018	Appendix 50 delegated act UAS in class C4.shall be placed on the market with user's measual providing the besplaced on the market with user's measured to the seasor of the UA and is MTOM. Including the payload, and a description of the UA and is MTOM. Including its payload, and a description of the behaviour of the UA in case of a los of data link), clear operational instructions and operational limitations (including but on timed to interection) and visit of a description of similar to understood the control of the sixta markets to UAS operations.	EASA	Dec-18	open	Opinion published							
	Manuals	Opinion No.1 2018	Appendix 1, 2, 3, 4, to delegated act UAS in class C0, c1, C2, and C3 shall be safely controllable by a remote pilot following the manufacturer's instructions;	EASA	Dec-18	open	Opinion published							
	Serial number	Opinion No.1 2018	Appendix 2, 3, 4, 6to delegated act UAS in class C1, C2, C3 and E-ID add on shall have a unique serial number that must be affixed in a legible manner on the UA and the packaging or the user's manual;	EASA	Dec-18	open	Opinion published							
								ANSI/CTA - 2063 Small Unmanned Aerial Systems Serial	This standard outlines the elements and characteristics of a serial number to be used by small unmanned serial systems.	CTA R6 Portable Handled and In- Vehicle Electronics Committee WG 23		standard	published	
								Numbers	Si Dic Casta Ly amar Grander Santa Systems.	Unmanned Aerial Systems				
2	UAS Traffic Management													
	Electronic Identification	TBD	Network E-idensflication. It is linked to the U-Space	EASA	TBD	Open category and Specific								
								MASPS for UAS e- identification	"Minimun Aviation Systems Performance Standard for UAS e-identification" defining minimum system level end-to-end requirements for the implementation of the electronic identification function for UAS.	EUROCAE WG-105	Nov-18	standard	ongoing	
								MOPS for UAS e- identification	"Minimum Operational Performance Standard for UAS e-identification" defining minimum requirements for the e-identification function at the level of individual components.	EUROCAE WG-105	Jun-19	standard	planned	
								ASTM WK27055 New Practice for UAS Remote ID and Tracking	Identify the requirements for meeting the security and public safety needs of the law enforcement, homeland defense, and national security communities for the remote identification and tracking of UAS. Evaluate the need to provide information that could assist in threat discrimination and determination of hostile intent.	ASTM F38 Unmanned Aircraft Systems	TBD	standard	planned	Working group forming
								AIR6388 Remote Identification and Interrogation of Unmanned Aerial	commission or rotation return. The information presented in this ARR is intended to provide information about current remote identification methods and practical considerations return the process of t	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture	Dec-18	information report	ongoing	
								ASTERIX Category 129 UAS Identification Reports	Defines a message structure allowing transmitting the identification of a UAS as well as its the aircraft's current position. This data is required in order to establish the basic principles of UTM (UAS Traffic Management) which shall enable the safe integration of UAS into non-segregated airspace.	EUROCONTROL	Apr-18	standard	ongoing	To be reviewed in line with EASA Opinion
	Local Identification	Opinion No.1/2018	Appendix 2.3.4 is to Delegated Act A UAS Class C1, C2 and C3 and a add-on module shall: A UAS Class C1, C2 and C3 and a add-on module shall: An electronic destinations shall: 1. slave the user to insent the C1-digit UAS operator registration 2. provide in real time during the whole duration of the flight the following informations through electronic data: (a) the UAS capacity of the UAS control of the UAS con	EASA	Dec-18	open category and specific	Opinion published							

Comments
Inder development
Working group forming
To be reviewed in line with EASA Opinion

Marking	Opinion No.1/2018	LUAS OPEN AND 3. LUAS operator shall display the registration information on the LUA AMC. The registration number should be stated on a tre-resistant line registration for the control of	EASA	Dec-18	Open category and Specific	Opinion published							
							ASTM F2851-10 Standard Practice for UAS Registration and Marking (Excluding Small Unmanned Aircraft Systems)	This practice follows ICAO Arnex 7 SARPS except in areas where the unique aspects of UAS may not allow compliance. In these cases, this document will address the issue and recommend the need for an alternate compliance method.	ASTM F38 Unmanned Aircraft Systems		standard	published	Ballotting for renewal
Registration	Opinion No.1/2018	Art 7: Elach registered UAS operator shall obtain a registration number according to the format defined by EASA. AMCI Article 7 Registration number The registration number activates of 10 digits organised as the titosen; The registration number should consist of 10 digits organised as the titosen; The registration number activates of 10 digits organised as the titosen; The registration removes the registration of 10 digits organised as the titosen; The registration removes the registration of 10 digits organised to the registration of 10 digits organised to remove the registration as required by the competent authority. AMCI UAS.OPEN.600(1) and UAS.SPEC.600(1) Registration form 1. The UAS operator should complete the registration process ordine and provide at least their. 1. The UAS operator should complete the registration process ordine and provides at least their. 1. The UAS operator should complete the registration process ordine and provides at least their. 1. The UAS operator should complete the registration and provides and telephone number; (i) invariance pulcip rumber, and in the properties of the registration and provides and telephone number; (ii) invariance pulcip rumber, and its large pulcip registration and provides and telephone number; (ii) invariance pulcip rumber, and its large pulcip rumber and pulcip rumber and pulcip rumber. 2. If it is an organism the relaxation and to UAS with be operated only by remote pilots with the appropriate level of completency.	EASA	Dec-18	Open category and Specific	Opinion published							
							ASTM F2851-10 Standard Practice for UAS Registration and Marking (Excluding Small Unmanned Aircraft Systems)	This practice follows ICAO Annex 7 SARPS except in areas where the unique aspects of UNS may not allow compliance. In these cases, this document will address the issue and recommend the need for an alternate compliance method.	ASTM F38 Unmanned Aircraft Systems		standard	published	
Geofencing/ Geo- awareness	Opinion No.1 2018	Appendix 2,34 to delegated act — Geodewareness system A UAS Class C1. C2 and C3 shaft. THE UAS shaft be exployed with a good—exameness system. The UAS shaft be exployed with a good and a special case of the ca	EASA	Dec-18	Open category and Specific	Opinion published							
Geo-awareness Definition of zones	Opinion No.1 2018	Article 11 Anique conditions for UAS operations 1. Member States may establish airspace restrictions on zones in which one or more of the following conditions applies: (a) cestim UAS operations are not permitted without prior (a) cestim UAS operations are not permitted without prior (b) access is only allowed for certiful UAS capacity (c) access is only allowed for UAS equipped with electronic dereficiation and/or go-avaneriess system (c) UAS operations comply with especified environmental conditions are exempled from one or more of the open categories systems are exempled from one or more of the open categories requirements of the Regulation, and which operations are not required to had an authorisation or staffine a declaration.	EASA	Jan-18	Open category and Specific	Opinion published							
							MASPS for UAS Geo- Fencing	"Minimun Aviation Systems Performance Standard for UAS geo-fencing" defining minimum system level end-to-end requirements for the implementation of the geo-fencing function for UAS.	EUROCAE WG-105	Nov-18	standard	ongoing	
							MOPS for UAS Geo- Fencing	"Minimum Operational Performance Standard for UAS geo-fencing" defining minimum requirements for the geo-fencing function at the level of individual components.	EUROCAE WG-105	Jun-19	standard	planned	
Command, Control and Communication	n												
(Terrestrial and Satellite)							MOPS (Terrestrial LOS)	Minimum Operational Performance Standard for the terrestrial Line of Sight Command and Control Data Link Minimum Operational Performance Standard for the satellite Command	EUROCAE WG-105	Dec-17	standard	ongoing	
							MOPS (SATCOM) MASPS	and Control Data Link Minimum Aviation System Performance Standard for the Command and	WG-105 EUROCAE	Apr-18 Jun-18	standard standard	ongoing	
							ASTM F3002-14a Standard Specification for Design of the Command and Control System for Small Unmanned Aircraft Systems (sUAS)	Control Link This specification is provided as a consensus standard in support of an application to a nation's governing available subtractly (GAI) for a permit to use purposes. This standard outlines the general, spectrum and link requirements for C2.	ASTM F38 Unmanned Aircraft Systems		standard	published	FAA Notice Of Availability (NOA) Pending approval of ASTM WKS7859 as foundational document
СЗ							AIR6514 UxS Control Segment (UCS) Architecture: Interface Control Document (ICD)	This interface control document (ICD) specifies all software services in the Unmanned Systems (UxS) Control Segment Architecture, including interfaces, messages, and data model.	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture		information report	published	
							AIR6515 Unmanned Systems (UxS) Control Segment (UCS) Architecture: EA Version of UCS ICD Model	This blare Guide describes the content of the Enterprise Architect (EA) version of the UCS Architectural Model and how to use this model with version of the UCS Architectural Model and now to use this model without the Art modeling of university of the EA version of EA version (EAS) and Philippool models (ARESTS and ARESTS). The ARRESTS EA Model has been COS Collections - 40 COS CO desides of each COS CO version of EA version of			information report	published	
							AIR6516 Unmanned Systems (USS) Central Segment (UCS) Architecture: RSA Version of UCS ICD Model	This bland Guide describes the content of the Rational Software Architect (RSA) vession of the USS Architectural Model and how to use this model with the RSA modeling bod environment. The purpose of the RSA version RSA was not received to the RSA version. The purpose of the RSA version RSA version Rational Software Architect (RSAS) users, devived from the Enterprise Architect (RSAS) to RSA Model, seen, devived from the Enterprise Architect (RSAS) to RSA Model, seen, devived from the Enterprise Architect (RSAS) to RSAS Model, these been validated to contain the CSAS of the RSAS Model and by deviration, the RATIOS RSAS Model and by deviration, the RATIOS RSAS Model and the RATIOS RSAS MO	SAE AS-4UCS Unmanned Systems (UnS) Control Segment Architecture		Information Report	published	
							AIR6517 Unmanned Systems (UAS) Control Segment (UCS) Architecture: Rhappody Version UCS ICD Model	This blace Guide describes the content of the Rhappody vension of the UCS Architectural Model and how to use this model within the Rhappody and modeling look entiroperate. The purpose of the Rhappody service of the modeling both entiroperate. The purpose of the Rhappody service of the smooth for Rhappody sucres, derived from the Enreptise Architect (EA) and of the Rhappody sucres, derived from the Enreptise Architect (EA) Action from the ARRISIST All Allows of UCS COI treatment of UCS CO	SAE AS-4UCS Urmanned Systems (UxS) Control Segment Architecture		information report	published	



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				AIR6519 UxS Control Segment (UCS) Architecture: UCTRACE	Department of Defense Unmarrord Control Segment (UCS), Architectura. This document is the SEP publication of the Department of Defense USC Control Segment (UCS), Architecture: Use Case Trace (UCTRACE) Version 1.4(PR) publication of Defension of Apublic Intelless 155: 1569. This reformation is produced from a corpt run against the System Use Case Model contrained in the UCS Architecture (Indeel ASSIS MADICEL sep configuration limit. The System Use Case Model includes, all to Isseet Architecture (Indeel ASSIS ASSISTED ASSIS	20-Dec-16		information report	published	
				AIR6520 Unmanned Systems (UxS) Control Segment (UCS) Architecture: Version Description Document	Governance of the Dimanned Aircraft System (UAS) Control Segment (UCS) Air/Indicate was transferred from the United States Office of the Societary of Colleges (OSI) to SEE transmiss or layer 2015. ACRIS (Section 2) Colleges (OSI) to SEE transmiss or layer 2015. ACRIS (Section 2) Colleges (OSI) to SEE transmiss of Systems (USC) Control (OSI) to Section 2015. ACRIS (Section 2) Colleges (USC) Control (OSI) described to the Colleges of the Universal Colleges (USC) Control (OSI) described the correspondence and differences between the two architectures forces.	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture		Information Report	published	
				AIR6521 Unmanned Systems (UxS) Control Segment (UCS) Architecture: Data Distribution Service (DDS)	This platform specific Interface Control Document (ICD) provides an example reapping to the Object Management Group's (OMC) Data Ostantouton Service (OSIG) instructions General Conditions (ICS) Control Segment (ICS) obtained to the Segment of the Control Segment (ICS) obtained to the Segment of the Control Segment (ICS) obtained to the Segment of the Control Segment (ICS) obtained to the Segment (IC	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture		information report	published	
				AS6512 Unmanned Systems (UxS) Control Segment (UCS) Architecture: Architecture Description	This document is the Architecture Description (AD) for the SAE Unmanned Systems (LLG) Control Segment (LCS) Architecture. This AD service as the official designation of the LCS Architecture - SAE ASSIST. The LCS Architecture is egypened by a library of SAE policiations are referenced herein. The other publications in the LCS Architecture Lobery are ASSISTA ARCSISTA, ARCSISTA, AR	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture		standard	published	
				AS6513 Unmanned Systems (UKS) Control Segment (UCS) Architecture: Conformance Specification	This document is the surficitions specification within the SAE Unmanned Systems (ULS) Control Segment (ULS) Architecture for establishing conformance requirements for UCS) products. The UCS products and selected by this specification are UCS otherwave components and UCS otherwave configurations that provide one or more UCS sentimes, and UCS otherwave configurations that provide one or more UCS sentimes, and uCS otherwave for other UCS or more UCS sentimes, and uCS otherwave for other UCS or more UCS or more UCS ordered and under the UCS Architecture. The UCS product description includes test artifacts.	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture		standard	published	
				AS8518 Unmanned Systems (U.S) Cortrol Segment (U.CS) Architecture U.CS Architecture Model	This bird User Guide reages the content of the ASSS18 UCS Architectural Model discribed in cellar in ASSS18 UCS Architecture Architecture. Architecture Architecture Conception, The purpose of the UCS Architecture Model is to provide the authorisative source for other models and products within the UCS Architecture. Architecture architecture architecture architecture architecture architecture architecture. Architecture architecture of the ASSS10 EA Model include: -cooperative of programme architecture for highly compared Editors - of prepierate Architecture (Included) UCS JMOL amil add in for Spars Enterprise Architect per instructions below	SAE AS-4UCS Unmarned Systems (U.S) Control Segment Architecture		standard	published	
				AS6522 Unmanned Systems (UxS) Control Segment (UCS) Architecture: Architecture Technical Governance	The UCS schrönical governance comprises a set of policies, processes, and standard definitions is establish consistency and quality in the development of architecture without and comments. It provides guidance for the use of stablest development of architecture without and comments. It provides not be used of builded stablest and the control of the comment of the	SAE AS-4UCS Urmanned Systems (U-S) Control Segment Architecture		standard	p.ä.fished	
				WK58931 Evaluating AerialResponse RobotManeuvering: Maintain Position and Orientation	A suite of standard test methods has been developed to measure manuversality, endurance, communications, durability, logistics, automay, and safety to guide purchasing decisions, support operator training and measure proficiency.	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	Publication Delayed -Full Committee Meting Feb 28- Mar 2 2018 for adudication of comments
				WK58932 Evaluating AerialResponse RobotManeuvering: Orbit a Point	A suite of standard test methods has been developed to measure manusevershilly, endurance, communications, durability, logistics, sustnormy, and safety to guide purchasing decisions, support operator training and measure proficiency.	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	Publication Delayed -Full Committee Meting Feb 28- Mar 2 2018 for adudication of comments
				WK58933 Evaluating AerialResponse RobotManeuvering: Avoid Static Obstacles	A suite of standard test methods has been developed to measure manuveretability, endurance, communications, durability, logistica, sutonomy, and safety to guide purchasing decisions, support operator training and measure proliciency.	ASTM E54 Homeland Security Applications	Jun-18	standard	ongoing	
				WK58934 Evaluating AerialResponse RobotManeuvering: Pass Through Openings	A suite of standard test methods has been developed to measure manuscerability, endurance.communications, durability, logistics, autonomy, and safety to guide purchasing decisions, support operator training and measure proficiency.	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	Publication Delayed -Full Committee Meting Feb 28- Mar 2 2018 for adudication of comments
				WK58935 Evaluating AerialResponse RobotManeuvering: Land Accurately (Vertical) WK58942 Evaluating	A suite of standards test methods has been developed to measure manuserability, endurance, communications, durability, logistics, automay, and safely to glude purchasing decisions, support operator training and measure proliciency.	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	Publication Delayed -Full Committee Meting Feb 28- Mar 2 2018 for adudication of comments
				AerialResponse RobotRadio Communication Range: Line of Sight WK58941 Evaluating	A suite of standards test methods has been developed to measure manueverability, ordurance, communications, durability, logistics, autonomy, and safety to guide purchasing decisions, support operator training and measure proficiency.	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	Publication Delayed -Full Committee Meting Feb 28- Mar 2 2018 for adudication of comments
				AerialResponse RobotRadio Communications Range: Non Line of Sight	A suite of standards test methods has been developed to measure manuserability, endurance communications, durability, logistics, automosy, and safety to gide purchasing decisions, support operator training and measure proficiency.	ASTM E54 Homeland Security Applications	Apr-18	standard	angaing	Publication Delayed -Full Committee Meting Feb 28- Mar 2 2018 for adudication of comments
				STANAG 4660 - Interoperable Command and Control Datalink for Unmanned Systems	Common standard Line-OF-Sight command and control data link for the safe and reliable operation of unmanned systems within a joint, coalition and controlled airspace operating environment.	NATO NNAG/JCGUAS		standard	published	
				SAE6856 Improving Navigation Solutions Using Raw Measurements from Global Navigation Satellite System (GNSS) Receivers	This recommended practice provides users with the technical requirements and methods for accessing, viewing, and processing raw children developments for improved unmarried vehicle rendigistion solutions.	SMCPNT Position, Navigation, and Timing Committee	Mar-19	standard	ongoing	

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							SAE6857 Requirements for a Terrestrial Based Position, Navigation, and Timing (PNT) System to Improve Navigation Solutions and Ensure Critical Infrastructure Security	This recommended practice defines the technical requirements for a terrestrick-based PRT system to improve vehicle (e.g. unmanned, serial, ground, marrialles policioning/havigland solutions and ensure critical infrastructure security, complementing GNSS technologies.	SMCPNT Position, Navigation, and Timing Committee	Mar-19	standard	ongoing	
Spectrum							MASPS on C3 Spectrum Management for the 5030/5091 MHz band	Minimun Aviation Systems Performance Standard defining requirements for the management of the 5030/5091 MHz band fir use by C2 Link Services	EUROCAE WG-105	Dec-18	standard	planned	
							Guidance on Spectrum Access, Use and Management	Guidance material describing considerations for the use of spectrum for UAS purposes	EUROCAE WG-105	Nov-17	guidance	ongoing	
Security	Opinion No.1 /2018	Appendix 3, 4 to Delegated Act A UAS Class C2 and C3 shall: be equipped with a remote pilot data link protected against unauthorised access to the command and control functions;	EASA	Dec-18	open	Opinion published							
							MASPS on RPAS C3 Security	Minimun Aviation Systems Performance Standard defining system level requirements for the application of Security measures to the UAS C3 Link	EUROCAE WG-105	Jun-19	standard	ongoing	
							Guidance on RPAS C3 security	Guidance material for the application of the MASPS listed above	EUROCAE WG-105	Jun-18	guidance	ongoing	
Detect and Avoid													
	SORA Step#9 Tactical Mitigation		EASA	Sep-18	Specific	ongoing							
DAA in IFR flight in Class A-C airspace							MASPS	Minimum Aviation System Performance Standard (End-to-end Requirements at system level) for DAA of IFR Flights in class A-C airspace.	EUROCAE WG-105	Dec-17	standard	ongoing	
							MOPS	Minimum Operational Performance Standard (Requirements at equipment level) for DAA of IFR Flights in class A-C airspace.	EUROCAE WG-105	Dec-18	standard	ongoing	
	SORA Step#9 Tactical Mitigation		EASA	Sep-18	Specific	ongoing							
DAA against conflicting traffic for RPAS operating under IFR and VFR in all airspace classes	1						OSED	Operational Services and Environment Description for DAA against conflicting traffic for RPAS operating under IFR and VFR in all airspace classes	EUROCAE WG-105	Dec-17	standard	ongoing	
							MASPS	Minimum Aviation System Performance Standard (End-to-end Requirements at system level) for DAA against conflicting traffic for RPAS operating under IFR and VFR in all airspace classes	EUROCAE WG-105	Dec-18	standard	ongoing	
							MOPS	Minimum Operational Performance Standard (Requirements at equipment level) for DAA against conflicting traffic for RPAS operating under IFR and	EUROCAE WG-105	Jun-20	standard	planned	
							OSED	VFR in all airspace classes Operational Services and Environment Description in Class D-G airspaces under VFR/IFR	EUROCAE WG-105	Jun-18	standard	ongoing	
	SORA Step#9 Tactical		EASA	Sep-18	Specific	ongoing							
DAA in VLL	Mitigation						MOPS	Minimum Operational Performance Standard (Requirements at equipment level) for DAA at Very Low Level (VLL)	EUROCAE WG-105	Dec-19	standard	planned	
							STANREC 4811 Ed. 1/ AEP 101 Ed. A Ver.1 "UAS sense and avoid"	To detail comprehensive guidance and recommended practice for the development of Sense and Avoid systems, referencing and growlding guidance regarding application of existing standards and best practice.	NATO FINAS	Feb-18	guide	ongoing	
Detect and Avoid for sUAS							WKXXXX	Revised under new working group to be part of Comprehensive DAA Standard under annex to define test methods AND minimum performance standards for DAA systems and sensors applicable to smaller UAS BLVOS persistons for the protection of manned sizraft in lower	ASTM F38 Unmanned Aircraft Systems	Jun-19	standard	ongoing	Working Group formed under terms of reference
							WK60936 Specification for Acoustic-based Detect and Avoid for sUAS	altitude airprace. This specification defines the requirements for acoustic-based Detect And Avoid systems used in small Unmanned Aircraft Systems (pUAS):	ASTM F38 Unmanned Aircraft Systems	Jun-19	standard	ongoing	Revised under new working group (WIXODOX) to be part of Comprehensive DAA Standard under annex to define test methods for DAA systems and sensors applicable to smaller UAS BLVOS operations for the protection of manned aircraft in lower altitude airspace.
RPAS Automation													
							ASTM F3269 Standard Practice for Methods to Safety Bound Flight Behavior of Unmanned Aircraft Systems Containing Complex Functions	the civil aviation authority (CAA) that the flight behavior of an unmanned	ASTM F38 Unmanned Aircraft Systems		standard	published	FAA Notice Of Availability (NOA) Pending approval of ASTM WK57659 as foundational document
Automatic Take-off and Landing							OSED	Operational Services and Enironment Description for Automatic Take-Off and Landing.	EUROCAE WG-105	Nov-17	standard	ongoing	
							MASPS	Minimum Aviation System Performance Standard (End-to-end Requirements at system level) for Automatic Take-Off and Landing	EUROCAE WG-105	Jun-20	standard	planned	
Automatic Taxiing							OSED	Operational Services and Enironment Description for Automatic Taxling	EUROCAE WG-105	Nov-17	standard	ongoing	
Emergency Recovery	Opinion No.1 2018	Appendix 3 and 4 to delegated act A UAS Class C2 and C3 shall: in case of loss of data link, have a reliable and predictable	EASA	Dec-18	open category and specific	Opinion published	MASPS	Minimum Aviation System Performance Standard (End-to-end Requirements at system level) for Automatic Taxting	EUROCAE WG-105	Jun-20	standard	planned	
							OSED	Operational Services and Enironment Description for Automation and Emergency Recovery	EUROCAE WG-105	Nov-17	standard	ongoing	
							MASPS	Minimum Aviation System Performance Standard (End-to-end Requirements at system level) for automation and Emergency Recovery	EUROCAE WG-105	Jun-20	standard	planned	
Design & Airworthiness													
	Opinion No.1 2018	Appendix 1, 2, 3, 4, 5 to delegated act A UAS Class CO, C1, C2, C3 and C4 shall: be designed and manufactured to fly safely;	EASA	Dec-18	open	Opinion published							
							AS6009A JAUS Mobility Service Set	This document defines a set of annitrad application layer interfaces called JULY Mobility Secret. AUIS Services provide the meant for harmst- erities in an unmanned system of opstem of unmanned systems to communicate and conditions their activities. The Mobility Services represent the vehicle platform-independent capabilities commonly bound and the provided of the provided of the provided of the provided of the Appresent, over 5 services are defined in this columner many of which were upstated in this revision to support Unmanned Underwater Vehicles (UVIV).	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee		standard	published	
							AS5684B JAUS Service Interface Definition Language	The SAE Aerospace Information Report ARESTS - Generic Open Architecture (COM) define it is transversit to identify in the face classes for system; Tasay Albac Sorver (Series and Series Series (Series Series) (Series Series) (Series) (Ser	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee		standard	published	

			AS6062 JAUS Mission Spooling Service Set	This document defines a set of standard application layer interfaces called MUSI Mission Sporing Services. AUSI Services provide the means for software entities in an unmarrand systems or system of unmarrand systems to communicate and condrainte bere scientises. The Mission Spording Services represent the platform-independent capabilities commonly found across all domains and types of unmarried systems. A present in the software stress are gained for flutter versions a defined in this document (into services are planned for flutter versions and services) of the scientification of the resistion plant for execution. The Mission Sporder service is described by a JAUS Service Definition. (TSQ) which specifies the message set and protocol required. The JSQ is fully compliant with the JAUS Service Interface Definition. The JSQ is fully compliant with the JAUS Service Interface	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee		standard	published	
			AS6060 JAUS Environment Sensing Service Set	This document defines a set of standard application layer interfaces called JAUS Environment Sensing Services. JAUS Services provide the means to software entities in an unamoned system or system of unamoned systems to communicate and coordinate than activities. The Disvicency systems or communicate and coordinate than activities. The Disvicency systems or commonly found across all domains and types of unamoned systems in a platform-independent manner. All present, five services are defined in this counsert. Finally Service Definition for the protection of objects in the counsert. Finally Service Definition for the protection of objects in the counsert. Finally Service Definition for a protection of the protection of objects of the counsert. Finally service the protection of the counsert of the service of the service of the counsert of the service o	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee		standard	published	
			AS6040 JAUS HMI Service Set	This document defines a set of standard application layer interfaces called JAUS 19th Services. JAUS Services provide the means for software entitles in an unmanufed system or system of unmanufed systems to set a platform independent the size labels. Services in extending platform compared the same factors, set close 15th graph distinct commonly found across all domains and types of unmanufed systems. Five services are defined in this document "Transley Porting platform (or Keyboard * Toglist Control - Avising Control Each service is described by a JAUS Service Definion (JSD) which specifies the message platform of produce or compliance. Each JSD is fully compliant with the JAUS Service Definion Engineer (JSDL) (JASSGORG).	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee		standard	published	
			AS5710A JAUS Core Service Set	This document defines a set of standard application layer interfaces called JAUS Cree Bervices. JAUS Services provide the means for software effects in an unremand system or system of summarined systems in several collections. The contract of the interface system of system of several the interface system of system of several collections. A present, eight services are defined in the interface of	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee		standard	published	
			ARP6012A JAUS Compliance and Interoperability Policy	This document, the JAUS Compliance and Interoperability Policy (ARP8012), recommends an approach to documenting the complete interface of an unmarried system or component in regard to the application of the standard set. While non-S&A SA-JAUS documents are referenced in this ARP they are not within the scope of this document and should be viewed as examples only.	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee		recommended practice	published	
			AIR5645A JAUS Transport Considerations	This SAE Aerospace Information Report (AR) discusses characteristics of data communications for the Joint Architecture for Unmanned Systems (JAUS). This document provides guidance on the aspects of transport media, unmanned systems and the Characteristics of JAUS theif that are relevant to the definition of a JAUS transport specification.	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee		information report	published	
			ASSREGA JAUS/SDP Transport Specification	This S.R. Averagues (Bandred (I/S) perpline a data communications type to the transport female (I/S) perpline as the account of the transport female (I/S) to the Edither (I/S) the Air Activities (I/S) to the Edither (I/S) the I/S activities (I/S)	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee		standard	published	
			AS8091 JAUS Unmanned Ground Vehicle Service Set	This document defines a set of standard application layer interfaces called JNUS Umanned Ground Yelrick Services. JANUS Services provide the materia for standares entitles in an unmand objection or spland o	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee		standard	published	
			AS8057A JAUS Manipulator Service Set	This document delines a set of standard application layer interfaces called JUUS Manipulator Services. JUUS Services provide the means for software entries in an unmanned system or system of unmanned systems to communicate and coordinate feels activities. The Manipulator Services to communicate and coordinate feel activities. The Manipulator Services represent platform-independent capabilities commonly found across domains and types of unmanned systems. At present, twenty-five (25) services are defined in this document.	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee		standard	published	
			ARP6227 JAUS Messaging over the OMG Data Distribution Service (DDS)	This document defines a standard representation of JAUS ASS884A message data in DOS IDL defined by the Object Management Group (OMG) OORBA 3.2 specification. This document does NOT address how JAUS transport considerations or JAUS service protocols are implemented on OMG DDS platforms.	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee		recommended practice	published	
			AIRS665B Architecture Framework for Unmanned Systems	This SAR Aerospace Information Report (ARI) describes the Architecture Framework for Universities (Telephone (1998), AFUS comprise a Conceptual View, a Capabilities View, and an Interoperability View. The Conceptual View provides definitions and background for left years and the conceptual View provides definitions and background for left with an uses terms and concepts from the Conceptual View to describe qualified of unmained systems and coller entities in the unmained systems domain. The Interoperability View provides guidance on how design and develop systems in a way that apoptor latinoparties.	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee		information report	published	
			AIR5664A JAUS History and Domain Model	The purpose of this SAE Aerospace Information Report (ARI) is two-fold: to inform the reader of the extent of effort that went into the development of the birth Architecture for Urmanned Systems (ALIS); and to capture for posterily the domain analysis that provides the underpinnings for the work by the AS-4 Committee (Urmanned Systems).	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee		information report	published	
			AS8062A JAUS Mission Spooling Service Set	This document defines a set of standard application layer interfaces called NUS Mission Sporing Services. AUNG Services provide the means for software erifice in an urmanned systems or system of urmanned systems to communicate and coordinate their activiste. The Mission Sporing Services represent the platform-independent capubilities commonly and services represent the platform-independent capubilities commonly of the decimal control of the services of the document (- Mission Sporier Stores mission plans, coordinates mission plans, and parcels out elements of the mission plan for execution The Mission Sporier services is described by a JAUS Service Definition (LSG) which specifies the mission plan and protocol required for compliance. The JSD is fully compliant with the JAUS Service Interface Definition.	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee	May-19	standard	ongoing	
			AS6111 JAUS Unmanned Maritime Vehicle Service Set	This document defines a message-passing interface for services representing the platform-specific capabilities common across unmanned maritime vehicles.	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee	Jun-19	standard	ongoing	
			AS8971 Test Protocol for UAS Reciprocessing (intermittent) Forman as Primary Thrust Mechanism	his absorded is intended to provide a method for nethodal) to obtain impossible and consistent reinsuscensition to infect these engine performance and distribility in customer. Standardisade methodology is needed to romatize sengine performance to failing rate engine performance to failing rate engine performance to failing rate engine performance or sold representations and parameters. Operational protocots will be defined according ornitrositions and/or sequences will be determined. The scope will include combinations and/or sequences will be determined. The scope will include operations to the setting and statio properle-hased experiments. The industry consists of many platforms that use reciprocating engines as the main (or sold provided or distalland energy to propeller. These labor sellors are sellors of hot will be designed as the sellors of the sellors of the expected to have different operational requirements. This standard will stock on those using the engine as the main thrust provider, but allowances will also be considered for hybrid designs. The scope will include power correction methodologies to provide a more accurate description of performance.	SAE E-39 Immanned Aircraft Propulsion Committee	May-19	standard	ongoing	

			ASIBEBE Ground support equipment (preheaters, starters, tuel pumps, tuel couplings, fuel mixing, fuel filters, preflight weighthsalance, boresighting of psyload, storage containers, alignment hardware, wheel chocks. "remove before flight" items, electronic and software links.		SAE E-39 Urmanned Aircraft Propulsion Committee	Jun-19	standard	planned	
			AS#### Propeller hubs		SAE E-39 Unmanned Aircraft Propulsion Committee	Jul-19	standard	planned	
			ARP#### Propeller Information Report		SAE E-39 Unmanned Aircraft Propulsion Committee	Aug-19	information report	ongoing	
			AIR6962 Ice Protection for Unmanned Aerial Vehicles	A review of icing materials that would be educational to a designer of a UAV ice protection system is provided. Additionally, the differences between unmanned and manned ice protection systems are explored along with a discussion on how these differences can be addressed.	SAE E-39 Unmanned Aircraft Propulsion Committee	Dec-18	information report	ongoing	
			ARP94910 Aerospace - Vehicle Management Systems - Flight Control Design, Installation and Test of, Military Umnanned Aircraft, Specification Guide For	This document establishes recommended practices for the specification of general polynomeros, design, test, development, and quality saturance requirements for the fifty control related functions of the Verbick Management Systems (VMS) or initiary thereared Aircraft (UA), the advance desired of Universal Aircraft (VMS) as of selected by ACMILE 25640°C. The document all versal topics (UAS) as of belief by ACMILE 25640°C. The document of several topics are some con- posed to the comment of the comment of the comment of the comment of the provides a foundation for considerations applicable to safe flight in all classes of ampace.	SAE A-6 Aerospace Actuation, Control and Fluid Power Systems		recommended practice	published	
			ARP5724 Aerospace - Testing of Electromechanical Actuators, General Gudelines For	This document provides an overview of the tests, and assume related to testing, that are unique to Electromechanical Actuators (EMA). The tests and issues documental, are not necessaryly shrindusine. This document are considered to the control of	A-6 Aerospace Actuation, Control and Fluid Power Systems		recommended practice	published	
			AIRT44 TM Aerospace Auditary Power Sources	This SAE Aemopace Information Report (ART) is a review of the general daracteristics of power sources that may be used to provide secondary, analizary, or emergency power for use in sincertal, power eventure, analizary, or emergency power for use in sincerta, power eventure, incording policies derical power for eventure in which aemopace sectoristics, surface effect ships, or contracted herein in time shed aemopace sectoristics of used. The information consisted them in the most case in the present and the power source information may state be used in the present and of a power source specification. Considerations for use in making a state usualy and an eventual confidence of the present power source is available in other SAE Aemopace between Reports or an Aemopace Recommender Practices.	A-6 Aerospace Actuation, Control and Fluid Power Systems		information report	published	
			AS50881F Wiring Aerospace Vehicle	This specification covers all aspects in electrical wire interconnection systems (EWIS) from the selection through installation of wiring and wiring devices and optical cabling and termination devices used in aerospace whiches. Aerospace whiches include manned and unmanned airplanes, helicopters, lighter-than-art weblies, missiles and external pods.	SAE AE-8A Elec Wiring and Fiber Optic Interconnect Sys Install Committee		standard	published	
			AS50881G Wiring Aerospace Vehicle	This specification covers all aspects in electrical wire interconnection systems (EWIS) from the selection through installation of wiring and wiring devices and optical cabling and termination devices used in aerospace whiches. Aerospace whicles include manned and unmanned airplanes, helicopters, lighter-than-ari webles, missalles and external post.	SAE AE-8A Elec Wiring and Fiber Optic Interconnect Sys Install Committee	Dec-18	standard	ongoing	
			AS#### Artificial simulant standards for drone or FOD impact/ingestion	planned	SAE G-28 Simulants for Impact and Ingestion Testing	Dec-19	standard	planned	
			ASTM WK59171 New Specification for SUAS parachutes	Develop a draft standard that defines the requirements for a paractude system that would allow an applicant/proponent to obtain approval to operate a small Unmanned Aircraft System (sUAS) directly over people.	ASTM F38 Unmanned Aircraft Systems	Mar-18	specification	ongoing	Pending approval of ASTM WK57659 Final comments being adjudicated. Foundational document.
			F2490-05(2013) Standard Guide for Aircraft Electrical Load and Power Source Capacity	This guide covers how to prepare an electrical load analysis (ELA) to meet Federal Aviation Administration (FAA) requirements.	ASTM F39 Aircraft Systems		standard	published	Light Sport Aircraft guidance will be revised to apply to UAS.
			Analysis F2799-14 Standard Practice for Maintenance of Aircraft Electrical	Damaged wiring or equipment in an aircraft, regardless of how minor it may appear to be, cannot be tolerated. It is, therefore, important that maintenance be accomplished using the best techniques and practices to minimize the possibility of failure.	ASTM F39 Aircraft Systems		standard	published	
			WK XXXX Large Fixed Wing UAS Design and Construct Standard	To develop an ASTM design and construction standard for larger mass faset-wing Unmanned Aerial Systems (UAS). Design and Construct Soundards are currently in electance for Part 2 General Manned Aircraft as well as for Part 2 General Manned Aircraft as well as for Part 2 General Aircraft as the Larger Frace Wing or USA Contract Aircraft of the Larger Frace Wing or Ventor and Aircraft of the Larger Frace Wing or Ventor Aircraft of Larger Frace Wing or Including design and construct requirements, best practices, and proposed motion of Contract Part 2 General Aircraft of Larger Frace Wing or Ventor Aircraft 2 General Aircraft of Larger Frace Wing or Ventor Aircraft 2 General Manned M	ASTM F38 Unmanned Aircraft Systems	19-Jun	standard	under development	
			ASTM F2910-14 Standard Specification for Design and Construction of a Small Unmanned Aircraft System (sUAS)	This specification establishes the design, construction, and test requirements for a small remainment aircraft system (pUAS), it is intended or all AULS that are permitted to operation over a defined sea and in airspace suthorized by a nation's governing a visition subrotity (GAA). Unless otherwise specified by a nation's GAA, this specification applies only to UA that have a maximum takeoff gross weight of 55 bz/25 kg or less.	ASTM F38 Unmanned Aircraft Systems		standard	published	This standard will be superceded by two separate standard to cover VTOL (WK60352) and fixed wing aircraft (WK 57659).
			ASTM F2911-14e1 Standard Practice for Production Acceptance of Small Unmanned Aircraft System (sUAS)	This standard defines the production acceptance requirements for a small urmanned aircraft system (gLRS). This standard is applicable to sLRS that comply with design, constitution, and test requirements identified in Specification F2RO No sLRS may enter production until such compliance to demonstrated.	ASTM F38 Unmanned Aircraft Systems		standard	published	FAA Notice Of Availability (NOA) Pending approval of ASTM WK57859 as foundational document
			ASTM F3003-14 Standard Specification for Quality Assurance of a Small Unmanned Aircraft System (sUAS)	This standard definesthe quality assurance requirements for the design, manufacture, and production of a small unmanned aircraft system (sUAS).	ASTM F38 Unmanned Aircraft Systems		standard	published	FAA Notice Of Availability (NOA) Pending approval of ASTM WK57659 as foundational document
			WKWK60937 Standard Specification for design of Fuel Cells for Use in Unmanned Aircraft Systems (UAS)	This standard will outline specification for the use of fuel cell power generatining systems for application in UAS.	ASTM F38 Unmanned Aircraft Systems	TBD	standard	ongoing	
			ASTM F3201-16 Standard Practice for Ensuring Dependability of Software Used in Unmanned Aircraft Systems (UAS)	This standard practice intends to remare the dependibility of UAS. This standard practice intends to remare the dependibility of UAS represents of the software. This practice will focus on the following states. (c) Organization controls for example, management, training in place during collecture development. (c) Use of the otherwise in the system, reducing its Montane of the software in the system, reducing its Montane of the software in the system, reducing its Montane of the software in the system of the state of the software in the system of the state of the software in the system of the state of the software in the system of the state of the system o	ASTM F38 Unmanned Aircraft Systems		standard	published	
			ASTM WK16285 New Specification for Design and Performance of an Unmanned Aircraft System-Class 1320 (550ff Gross Weight to 1320# Gross Weight)	The specification covers airworthiness requirements for an acceptable powered fixed wing aircraft UAS.	ASTM F38 Unmanned Aircraft Systems	TBD	standard	ongoing	This work item will be continued using guidelines from ASTM F37 Light Sport Aircraft Committee

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							ASTM WK60352 Design, Construct, and Test of VTOL	This specification establishes the design, construction, and test requirements for a VTDL unmanned aircraft system (sUAS), it is intended for all UAS that are permitted to operate over a defined area and in airspace authorized by a nation's governing aviration authority (GAA). Unries otherwise specified by a nation's GAA.	ASTM F38 Unmanned Aircraft Systems	Aug-18	standard	ongoing	
							ASTM WK57659 Design, Construction and Verification of Fixed Wing UAS	This specification establishes the design, construction, and test requirements for a fixed wing urmanned aircraft system (sUAS). It is intended for all UAS that are permitted to operate over a defined area and in airspace authorized by a nation's governing aviation authority (GAA). Unless otherwise specified by a nation's GAA.	ASTM F38 Unmanned Aircraft Systems	Apr-18	standard	ongoing	Comments being adudicated
							ASTM F2909-14 Standard Practice for Maintenance and Continued Airworthiness of Small Unmanned Aircraft Systems (sUAS)	This standard is written for all SUAS that are permitted to operate over a defined use and in airspace authorized by a radion's operating available authority (GAA). It is assumed that a vision deterverity sill provide for the definition of the standard and the substance of the substance the maximum range and alliable at which the sUAS can be from will be specified by the ration's GAA. Unless otherwise specified by a radion's GAA this standard applies only to UAI that have a maximum take off gross selegist of 25 (g5 fbs) or less. The SUAS shall be maintained for continual airworthress to meet sUAS imitations and performance capabilities required by the maint in GAA.	ASTM F38 Unmanned Aircraft Systems		standard	published	
							Aerospace series - Unmanned Aircraft Systems (UAS) - Product requirements	To develop European standards speolying the means of compliance to the regulatory requirement defined in Appendix 1 to 1.5 of EASA-MPA. 2017-05(A). These standards define the design, construction and test requirements for CE marking conformity and covers topics such as: - Physical and method and properties, - Pharmachity, - Electrical properties, - Functional Suitary - Functional Suitary	ASD-STAN D1WG4	Dec-2019	European standard	planned	
RPAS System Safety Assessment Criteria	CS-UAS		EASA	2019	Certified category								
Remote Pilot Station (RPS)	CS-UAS		EASA	2019	Certified category								
Remote Pilot Station (RPS)							MASPS	Minimum Aviation System Performance Standard (End-to-end Requirements at system level) for the Remote Pilot Station interface to Air Traffic Control (ATC).	EUROCAE WG-105	Jun-19	standard	ongoing	
Height Limitation	Opinion No.1 2018	Appendix 1, 2, 3, 4 to delegated at: A UNS Class CD CT C2 and C3 shall be a consistent of the state of point favore a maximum attainable height above the take-off point inside to 102 on the equipped with a system that limits the height above the surface or above the take-off point to a value sedectable by the method plot in the later case, clear information about the height of the UN above the surface or take- off point during flight shall be provided to the remote plot;	EASA	Dec-18	open	Opinion published							
Aircraft&Avionics	Opinion No.1 2018	Appendix 1, 2 to delegated act A UAS Class C0 and C1 shall (i) if equipped with a follow-me mode, when this function is on, keep a distance not exceeding 50 m from the tensole pilot, and allow the render joint to regain control of the UA or to activate an emergency procedure that terminates the flight.	EASA	Dec-18	open	Opinion published							
							ISO 21384-2 - Requirements for ensuring the safety and quality of the design and manufacture of UAS STANAG 4871 "UAV	Requirements for ensuring the quality and safety of the design and manufacture U.A.S. it includes information regarding the U.R. any associated member control station(s), the C2 links, any other required data links and any other system elements as may be required.	ISO TC20/SC16/WG2	Dec-17	standard	ongoing	
							System Airworthiness Requirements (USAR)*. (Fix wing UAV, MTOW>1 50Kg).	Set of sechnical airworthiness requirements intended primarily for the airworthiness centification of fisce-wing military USW with a maximum take- off weight between 150 and 20,000 kg that intend to regularly operate in non-segregated airspace	NATO FINAS			published	
							STANAG 4702 "Rotary Wing Unmanned Aerial Systems Airworthiness Requirements" (Rotorcraft UAV, 150Kg <mtow< 3125kg<="" td=""><td>set of technical airworthiness requirements intended for the airworthiness certification of rotary-wing military UAV Systems with a maximum take-off weight between 150 and 3175 kg that intend to regularly operate in non-segregated airspace.</td><td>NATO FINAS</td><td></td><td></td><td>published</td><td></td></mtow<>	set of technical airworthiness requirements intended for the airworthiness certification of rotary-wing military UAV Systems with a maximum take-off weight between 150 and 3175 kg that intend to regularly operate in non-segregated airspace.	NATO FINAS			published	
							STANAG 4703 "Light Unmanned Aircraft Systems Airworthiness Requirements". (Fix wing UAV, 150Kg-MTOW).	Minimum set of technical airworthiness requirements intended for the airworthiness certification of fixed-wing Light UNS with a maximum take-off weight not present than 150 kg and an impact energy? greater than 6.3 (49 R-b) that intend to regularly operate in non-segregated airspace	NATO FINAS			published	
							STANAG 4746 "Unmanned Aerial Vehicle System Airworthiness Requirements for Light Vertical Take Off and Landing Aircraft"	Set of technical airworthiness requirements intended for the airworthiness certification	NATO FINAS	2018		ongoing	
Drone injury protection for C0 class	Opinion No.1 2018	Appendix 1 and 2 to delegated act A UAS Class C1 and C2 shall: be designed and constructed in such a way as to minimite injury to persons during operation; share edges shall be avoided; if equipped with propellers, the UAS shall be designed in such a way as to limit any injury that may be inflicted by the propeller blades;	EASA	Dec-18	open	Opinion published							
information to the remote pilot of battery status	Opinion No.1 2018	Appendix 2, 3, 4 to delegated act A UAS Class C1, C2 and C3 shall: provide the remote pilot with clear warning when the battery of the UA or its control station reaches a low level such that the remote pilot has sufficient time to safely land the UA;	EASA	Dec-18	open	Opinion published							
mechanical strength	Opinion No.1 2018	Appendix 2, 3 to delegated act A UAS Class C2 and C 3 shall. (i) have the requisite mechanical strength and, where appropriate, stability to withstand any stress to which it is subjected during use without breakage or deformation, which may interfere with its safe liight.	EASA	Dec-18	open	Opinion published							
Lights to ensure controllability	Opinion No.1 2018	Appendix 2 to delegated act A UAS Class C1 shall: be equipped with fights that cannot be confused with the navigation lights of a manned aircraft as required for controllability: (a) in displint conditions; (b) uluming right, it designed for night operation;	EASA	Dec-18	open	Opinion published							
	Opinion No.1 2018	Appendix 3, 4 to delegated act A UAS Class C2, C3 shall: be equipped with fights for the purpose of controllability or visibility of the UA; the design of the lights shall not be confused with the navigation lights of manned arcraft;	EASA	Dec-18	open	Opinion published							
							ARP6336 Lighting Applications for Unmanned Aircraft Systems (UAS)	This SAE Aerospace Recommended Practice (ARP) provides technical recommendations for the application, design and development of lighting for Unnamed Aircraft (UA). The recommendations set both in this document are to ad in the design of UAI glidting for the pper or size of sircraft and the operation in the National Aerospace System for which the aircraft is intended.	SAE A-20 Aircraft Lighting Committee	Dec-18	Recommended Practice	ongoing	angoing
Reduction of energy transferred to human body at impact	Opinion No.1 2018	Appendix 2 to delegated act A UAS Class C1 shall: be made of materials and have performance and physical characteristics such as to ensure that in the event of an impact at terminal velocity with a human head; the energy transmitted to the human head is set share 0.0 or, as a laterative, the UAS shall have an MTOM, including payload, of less than 900 g;	EASA	Dec-18	open	Opinion published							
Evaluation of the energy transferred to human body at impact	Opinion No.1 2018	Appendix I.2 to delegated act A UAS Class C1 shall: be made of materials and have performance and physical characteristics such as to ensure that in the event of an impact at terminal velocity with a human head, the energy transmitted to the human head is set small 01, or, as a terminal velocity that shall have an MTOM, including polyload, of less than 500 g.	EASA	Dec-18	open	Opinion published							

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Maximum voltage	Opinion No.1 2018	Appendix 1,2 to delegated act AUS Class CD and CT shalt: I possend by electricity, the nominol voltage shall not exceed 2.6 VD CoT the equivalent AC voltage, its accessible parts shall not exceed 2.4 VD CoT the equivalent AC voltage, intensit voltages shall not exceed 2.4 VD CoT the equivalent AC voltage, intensit voltages and that not exceed 2.4 VD CoT are equivalent AC voltage unless in discertain care and exceeding the control of the	EASA	Dec-18	open	Opinion published							
							WK58939 Evaluating AerialResponse RobotEnergylPower: Endurance Range and Duration	A suite of standards test methods has been developed to measure manuscentibility, endurance,communications, durability, logistics, subnoomy, and safely to guide purchasing decisions, support operator training and measure proficiency.	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	E54 Full Committee adjustication February 26 to March 2, 2018
	Opinion No.1 2018	Appendix 3, 4 A UAS Class C2 and C 3 shall: A UAS Class C2 and C 3 shall: A UAS Class C2 and C 3 shall: A UAS Case C2 and C 3 shall: A UBC or the equivalent AC voltage; its accessible parts shall not exceed 48 V DC or the equivalent AC voltage; instead vol	EASA	Dec-18	open	Opinion published							
							WK58940 Evaluating AerialResponse RobotEnergylPower: Endurance Dwell Time	A suite of standards test methods has been developed to measure manusevrability, endurance,communications, durability, logistics,autonomy, and safely to guide purchasing decisions, support operator training and measure proficiency.	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	E54 Full Committee adjudication February 26 to March 2, 2018 ongoing. Delayed till Apr -1
							WK58943 Evaluating AerialResponse RobotSafety: Lights and Sounds	A suite of standards test methods has been developed to measure manueversibility, endurance,communications,durability, logistics,autoromy, and safely to guide purchasing decisions,support operator training and measure proficiency.	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	E54 Full Committee adjustication February 26 to March 2, 2018 ongoing. Delayed till Apr -1
							Practice for Design, Alteration, and Certification of Aircraft Electrical Wiring Systems	This practice covers design configuration procedures for aircraft electrical wiring systems.	ASTM F39 Aircraft Systems		standard	published	
							F2696-14 Standard Practice for Inspection of Aircraft Electrical Wiring Systems	This practice covers basic inspection procedures for electrical wiring interconnect systems for sircraft electrical wiring systems.	ASTM F39 Aircraft Systems		standard	published	
							ASTM F3005-14a Standard Specification for Batteries for Use in Small Unmanned Aircraft Systems (sUAS)		ASTM F38 Unmanned Aircraft Systems		standard	published	Currently being reviewed fupdates FAA Notice Of Availability (NOA) Pending approval of ASTM WKS7859 as foundational document
							F2490-05(2013) Standard Guide for Aircraft Electrical Load and Power Source Capacity Analysis	This guide covers how to prepare an electrical load analysis (ELA) to meet Federal Aviation Administration (FAA) requirements.	ASTM F39 Aircraft Systems		standard	published	
no automoatic flight modes	Opinion No.1 2018	Appendix 5 to Delegated Act A UAS Class C4 shall: not be capable of automatic control modes;	EASA	Dec-18	open	Opinion published							
low speed mode	Opinion No.1 2018	Appendix 3 to Delegated Act A UAS Class C2 shall: unless it is a fixed-wing UA, be equipped with a low-speed mode selectable by the remote pilot and limiting the maximum cruising speed to no more than 3 m/s.	EASA	Dec-18	open	Opinion published							
Thetered aircraft	Opinion No.1 2018	Appendix 3, 4 to Delegated Act A UAS Class C2 and C3 shall: In the case of a shared UA, the straigle length of the tether shall be less than 50 m and its mechanical strength shall be no less (a) for heavier-there air cards, 1 followes the weight of the sencoting at maximum mass; (b) for lighter-there air cards, 4 times the love seathed by the combination of the maximum static throat and the sencytamic tors of the maximum stoled wind speech in flight;	EASA	Dec-18	open	Opinion published							
Maximum speed	Opinion No.1 2018	Appendix 2, 3, 4 to Delegated Act A UAS Class C1, C2 and C3 shift, if the UA has a Nation that limits its access to certain airspace areas or volumes, this function shall operate in such a manner that it interests unanowity with the light control system of the UA without adversely defecting light salety, in addition, clear things to control system in subromatically engaged to keep the UA out of these areas;	EASA	Dec-18	open	Opinion published							
Maximum speed	Opinion No.1 2018	Appendix 1, 2 to Delegated Act A UAS Class C0 and C1 shall: have a maximum speed in level flight of 19 m/s;	EASA	Dec-18	open	Opinion published							
Operations								This document defines a set of standard application layer interfaces called. IAI IS Mexico Scotion Services. IAI IS Services crosses the meses for					
							AS6062 - Mission Spooling Service Set	This document defines a set of standard application layer interfaces called MAUS Missions Sporing Services. AUS Services provide the means for software entities in an unmanned system or system of unmanned systems to communicate and confident best activities. The Mission Sporing Services represent the platform-independent capabilities commonly band and content and formation and formation and content and content and content and content and content and the content and	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee		standard	published	published
							ASTM F2908-16 Standard Specification for Aircraft Flight Manual (AFM) for a Small Unmanned Aircraft System (sUAS)	This specification provides the minimum requirements for an Aircraft Flight Manual (FMI) for an unmanded storath polene (IMX) designed with Flight Manual (FMI) of an unmanded enternal Sci (IAX) company of effered by a CNIA Aircraft Authority (CAA). Depending on the size and complexity of the BLMS, and Affirm system contains the instruction for manner of the BLMS and Affirm system contains the instruction for manner and continuing almost thiness for owner / operator authorized maintenance.	ASTM F38 Unmanned Aircraft Systems		standard	published	published
							WK58931 Evaluating AerialResponse RobotManeuvering: Maintain Position and Orientation	The purpose of this test method is to specify the apparatuses, procedures, and performance metrics necessary to quantitatively evaluate the system capability to accurate primarities position orientation (pose) in open space relative to an object of interest. That test method applies to serial method relation. The system includes a terms operation control of all functionality and any assistive features or autonomous behaviors that improve the effectiveness or efficiency of the overall system. This test method may be performed anywhere the appection deparatuses and stocked be considered within the control of related test methods in the Maneuvering suite when comprehensively evaluating robotic system cough tillies.	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	E54 Full Committee adjudication February 26 I March 2, 2018. Delayed 8I Apr-18
							WK58932 Evaluating AertalResponse RobotManeuvering: Orbit a Point	The purpose of this test method is to specify the apparatures, procedures, and performance metrics necessary to quantitatively evaluate the system capability to country orbit an depic of interest. Results should be considered within the context of related test methods in the Maneuvering state when comprehensively evaluating relond system appealant sets when the properties is used in particular terminal prices from the properties of earlier and prices to seek orbit and prices to seek orbit earlier than the properties of the properties of such control system. This is set medical may be priced any seasifies the superior apparatures and environmental conditions can be implemented as described.	ASTM E54 Homeland Security Applications	Jan-18	standard	ongoing	
							WK58933 Evaluating AerialResponse RobotManeuvering: Avoid Static Obstacles	The purpose of this test method is to specify the apparatuses, procedures, and performance metrics necessary to quantitatively evaluate the system capability to avoid static obstacles.	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	E54 Full Committee adjudication February 26 t March 2, 2018. Delayed till Apr-18
							WK58934 Evaluating AerialResponse RobotManeuvering: Pass Through Openings	The purpose of this test method is to specify the apparatuses, procedures, and performance metrics necessary to quantitatively evaluate the system capability to pass through openings of various sizes and orientations.	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	E54 Full Committee adjudication February 26 March 2, 2018. Delayed til Apr-18

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					WK58935 Evaluating AerialResponse RobotManeuvering:	The purpose of this test method is to specify the apparatuses, procedures, and performance metrics necessary to quantitatively evaluate the system	ASTM E54 Homeland Security	Apr-18	standard	angaing	E54 Full Committee adjudication February 26 to March 2, 2018. Delayed till
					Land Accurately (Vertical) Specifications for the Use of Military Unmanned Aerial Vehicles (UAV) as	capability to accurately land vertically within a defined area. This specification addresses aspects of military UAV ATM, dealing briefly	Applications				Apr-18
					Vehicles (UAV) as Operational Air Traffic (OAT) outside segregated airspace specification, v 1.0, 2007	This specification addresses aspects of military UAV ATM, dealing briefly with extant regulations that impact upon the UAV specifications and then explaining the nature of UAV snapsor requirements. Also summarises a number of national UAV ATM regulations, albeit none were suitable for adaptation into EUROCONTROL specifications.	EUROCONTROL		specification	published	
					Air Traffic Management Guidelines for Global Hawk in European Airspace, v 1.0, 2010	These Guidelines establish a set of minimum ATM requirements for Global Hasks (GH) if turn Hasks (EH) fight in European airspace, with the primary proposed entables (DEPET operation be seen as the based of the primary proposed entables). The primary proposed entables of the primary proposed entables of the primary proposed entables of the primary proposed entables entab	EUROCONTROL		guidance material	published	
					Aerospace series - Unmanned Aircraft Systems (UAS) - Security requirements	To develop European standards sponlying the mean of compliance to the regulatory requirement offered in Appendix in 6 ERSA-NPA 21/ATT has activity shall be coordinated with EUROCAE WHO files and a will intent to address at its early forbiology topics. "Cee-awareness function for UK Operations which includes Arrapace and Compliance of the Compliance of	ASD-STAN D1WG4	Dec-20	European standard	planned	
equirements for pecific operations											
					ASTM F3196-17 Standard Practice for Seeking Approval for Extended Visual Line of Sight (EVLOS) or Beyond Visual Line of Sight (EVLOS) Small Unmanned Aircraft System (sUAS) Operations	Considerce with this practice is recommended at one meets of seeking approved terms a ciril elevation selecting (CAAI) is opposed a small unevaried ascent legisters (LIAS) to by extended visual line of sight (EIACS) or the beyond visual line of sight (EIACS) or the produce of this practice to sUAS and other unmanned alteraft systems (LIASs) is at the discretion of the appropriate CAA.	ASTM F38 Unmanned Aircraft Systems		standerd	published	To be revised and ammended to include use case somewine, package case somewine, package in the case somewine, package inspection, insert inspection, search and rescue, emergency response, terminal operations, agriculture. First of these apendies (package delivery) to be completed Jun 2018-final available but revisions to standard will be incorporated in Jan 2018 after Pathfinder Technical
					of Sight (EVLOS) or Beyond Visual Line of Sight (BVLOS) Small	The main purpose of this revision is to add an Appendix A that provides research indirigat from the FAA EVICOS hatferdoor program that can be desired indeeding proposed fich migrature materials for still EVICOS and the evidence of the evi	ASTM F38 Unmanned Aircraft Systems	Jun-18	standard	ongoing	Revisions to F3196 being finalized.
					ASTM WK 62344 BVLOS Package Delivery as an Appendix to F3196-17	Appendix to to ASTM F3196-17. The main purpose of this revision is to add an Appendix that can be used in developing proposed risk mitigation strategies for package delivery sUAS BVLCS operationsy.	ASTM F38 Unmanned Aircraft Systems	Jun-19	standard	ongoing	Working group formed
					ASTM F2849-10 Standard Practice for Handling Unmanned Aircraft Systems at Divert Airfields		ASTM F38 Unmanned Aircraft Systems		practice	published	
					ISO 21384-3 - Requirements for safe civil RPAS/UAS operations and applies to all types, categories, classes, sizes and modes of operation of UAS	Requirements for safe commercial UAS operations and applies to all types, categories, classes, sizes and modes of operation of UAS.	ISO	Dec-18	standard	ongoing	
Standard scenarios E	ASA Decision	EASA	Sep-18	specific							
					ARP#### Access to controlled airspace		SAE G-30 UAS Operator Qualifications Committee	May-19	recommended practice	planned	
					ARP#### Flight beyond visual line of sight		SAE G-30 UAS Operator Qualifications Committee	May-19	recommended practice	planned	
					ARP#### Night operations		SAE G-30 UAS Operator Qualifications Committee	May-19	recommended practice	planned	
					ARP#### Aerial photography		SAE G-30 UAS Operator Qualifications Committee	Jun-19	recommended practice	planned	
					ARP#### Power line inspection		SAE G-30 UAS Operator Qualifications Committee	Jul-19	recommended practice	planned	
					ARP#### Precision agriculture		SAE G-30 UAS Operator Qualifications Committee	Aug-19	recommended practice	planned	
					ARP#### Bridge inspection		SAE G-30 UAS Operator Qualifications Committee	Sep-19	recommended practice	planned	
					ARP#### Train right- of-way's		SAE G-30 UAS Operator Qualifications Committee	Oct-19	recommended practice	planned	
					ARP#### Flare stack inspections		SAE G-30 UAS Operator Qualifications Committee	Nov-19	recommended practice	planned	
					WK58243 New Guide for Visual Inspection of Building Facade using Drone	This standard consists of guidelines for utilizing drones with cameras to document facade conditions with video and still photography. The purpose of this standards is to establish procedures and methodologies for conducting visual inspections of building facades via drone, and documenting such inspections.	ASTM E06 Performance of Buildings	Jan-18	guide	angaing	
					RobotSensing: Visual Image Acuity	The purpose of this text method is to specify the apparatures, procedures, and performance metrics necessing to quartitatively evaluate the visual seal performance metrics necessing to quartitatively evaluate the visual reliefector-optical impact actived through a control station. This text method applies to serial systems operated remotely from asteroid disease appropriate but the seriod emission. The system asteroid existing expression to the serial series of the station of authorized that the series of the serie	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	E54 Full Committee adjudication February 25 to March 2, 2016. Delayed SII Apr-18
					WK58925 Evaluating AerialResponse RobotSensing: Visual Color Acuity	The purpose of this test method is to specify the apparatuses, procedures, and performance metrics necessary to quartitatively evaluate the visual (electro-optical) color aculty of the system as viewed through a control station.	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	E54 Full Committee adjudion February 26 to March 2, 2018. Delayed fill Apr-18

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							WK58926 Evaluating AerialResponse RobotSensing: Visual Dynamic Range	and performance metrics necessary to quantitatively evaluate the visual	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	E54 Full Committee adjudication February 26 to March 2, 2018. Delayed till Apr-18
							WK58927 Evaluating AerialResponse RobotSensing: Audio Speech Acuity	and performance metrics necessary to quantitatively evaluate the audio	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	E54 Full Committee adjustication February 26 to March 2, 2018. Delayed till Apr-18
							WK58928 Evaluating AerialResponse RobotSensing: Thermal Image Acuity	image acuity of the system as viewed through a control station. This test	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	E54 Full Committee adjudication February 26 to March 2, 2018. Delayed fill Apr-18
							WK58929 Evaluating AerialResponse RobotSensing: Thermal Dynamic Range	The purpose of this test method is to specify the apparatuses, procedures, and performance metrics necessary to quantitatively evaluate the thermal dynamic range of the system as viewed through a control station.	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	E54 Full Committee adjudication February 26 to March 2, 2018. Delayed fill Apr-18
							WK58930 Evaluating AerialResponse RobotSensing: Latency of Video, Audio, and Control	The purpose of this test method is to specify the apparatuses, procedures, and performance metrics necessary to quantitatively evaluate the latency of video, audio, and control sub-systems as viewed through a control station.	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	E54 Full Committee adjudication February 26 to March 2, 2018. Delayed till Apr-18
							WK58936 Evaluating AerialResponse RobotSituational Awareness: Identify Objects (Point and Zoom Cameras)	The purpose of this test method is to specify the apparatuses, procedures, and performance metrics necessary to quantitatively evaluate the system capability to identify objects of interest in the environment using cameras (electro-optical and thermal) from defined altitudes in open space.	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	E54 Full Committee adjudication February 26 to March 2, 2018. Delayed till Apr-18
							WK58937 Evaluating AerialResponse RobotSituational Awareness: Inspect Static Objects	The purpose of this test method is to specify the apparatuses, procedures, and performance metrics necessary to quantitatively evaluate the system capability to inspect objects of interest in close proximity.	ASTM E54 Homeland Security Applications	Apr-18	standard	ongoing	E54 Full Committee adjudication February 26 to March 2, 2018. Delayed fill Apr-18
							WK58938 Evaluating AerialResponse RobotSituational Awareness: Map Wide Areas (Stitched Images)	The purpose of this test method is to specify the apparatures, procedures, and performance metrics necessary to quantitatively enablate the system capability to accurately map wide areas with objects of interest in the environment.	ASTM E54 Homeland Security Applications	Apr-18	standard	angoing	E54 Full Committee adjudication February 26 to March 2, 2018. Delayed till Apr-18
							ASTM WK52858 Small Unmanned Aircraft Systems (sUASs) for Land Search and Rescue	This classification defines small urmanned aircraft system (sUAS) land search and rescue resources in terms of their capabilities. It provides a search and rescue measures are set such gold before their can convey to emergency management the tables for which their systems are capable of performing.	ASTM F32 Search and Rescue	TBD	standard	ongoing	
							ASTM WK54226 sUAS Operations in Search and Rescue Operations	This guide establishes a framework within which SUAS search and rescue (SAR) operations shall be conducted as part of the National Incident Management System (NMS) incident Command System (ICS). 1.2 The requirements of this guide shall apply to individuals, agencies, and organizations that respond to SAR operations, including those not regulated by government mandates.	ASTM F32 Search and Rescue	TBD	standard	ongoing	
							ASTM WK52089 New Specification for Operation over People	Recent research conducted on risk, safety, design, operations and impact to inform development of standard with supporting documentation from Pathlinder studies. Using results of the Pathlinder Program, impact testing and mitigations such as deployable SUAS parachutes to be incorporated into standard.	ASTM F38 Unmanned Aircraft Systems	Jun-18	specification	ongoing	Under revision
							ASTM WK56338 Safety of Unmanned Aircraft Systems for Flying Over People	Develop a draft standard for product marking of UAS weighing 250 grams or less. Develop draft standard for Category 2, 3, and 4 UAS fract (Excitations test arts intendict) in measure special or filter jumpate mergy of productions of the standard standar	ASTM F38 Unmanned Aircraft Systems	Mar-18	standard	ongoing	In Ballot
SORA	Decision on SORA		EASA	Sep-18	specific								
							ASTM F3178-16 Standard Practice for Operational Risk Assessment of Small Unmanned Aircraft Systems (sUAS)	Preparation of an ORA in accordance with this practice is intended to reduce, the risk of an operation in which system complexity is minimal, the operation is conducted in a lower risk environment, and the likelihood for harm to people or property, though present, is reduced to an acceptable level. As mission complexity increases, the operational environment may become less risk lobrant. A.	ASTM F38 Unmanned Aircraft Systems		standard	published	
							ASTM WK60938 New Practice for General Operations Manual for Professional Operator of Light Unmanned Aircraft Systems (UAS)	This standard defines the requirements for General Operations Manual for Professional Operator of Light Urmanned Aircraft Systems (LMS). The standard addresses the requirements and/or best practices for documentation and organization of a professional operator (i.e., for compensation and hire).	ASTM F38 Unmanned Aircraft Systems	TDB	specification	ongoing	New draft in work
							ASTM WK59317 Vertiport Design	This support the design of civil vertiports and vertistops for the landing and taked of of VTCL aircraft boarding and discharging passengers or cargo. The proliferation of electric-powered VTCL should be carefully considered in the development of this document. The standard must be sociable to address aircraft ranging in size and kinetic energy, including urmanned and optionally plotted aircraft.	ASTM F38 Unmanned Aircraft Systems	TBD	specification	ongoing	New draft in work
							STANAG 7234 Remotely Piloted Aircraft Systems (RPAS) Airspace Integration (AI) - AATMP-51		NATO FINAS	2018	standard	angoing	Under development
							STANAG 7232 Unmanned Aerial Systems Tactics Techniques and Procedures - ATP- 3.3.8.2 Edition A	Provide standardized factics, techniques, and procedures 217 for the planning, command and control (C2), and employment of unmanned aircraft systems 218 (UAS) in NATO operations	NATO MCASB/JCGUAS OS	2018	standard	ongoing	Under development
FCL													
Remore pilot competence	Opinion No.1 2018	UAS.OPEN.30 and UAS.OPEN.50 by a renote pilot on premote pilot who holds a certificate of remote pilot competency that in encessary to ensure a safe flight, respecting privacy, data protection, security and environmental requirements, by passing a theoretical test in a manner and format established by EASA at an entity recognised by the competent authority, and	EASA	Dec-18	open and specific	Opinion published							
							ARPS707 - Pilot Training	This document provides an approach to the development of training topics for pilots of Unmanned Aircraft Systems (UAS) for use by operators, manufactures, and regulators. The identification of training topics is based initially on Practical Test Standard (PTS) topics for manned aircraft pilots. The topics identified could be used for the construction of a PTS for UAS.	SAE G-30 UAS				
							Recommendations for Unmanned Aircraft Systems (UAS) Civil Operations	commercial pilot operations and a PTS for a UAS pilot instrument rating. The UAS commercial pilot rating would contain restrictions on the types of operations that could be flown that would be deep mode to mit he type of UAS would also refinement the specific training typics that would be covered. This document is not intended to suffer the inequirements for other operations, but an observers, papical operations, or ground personant, nor does it distinguish between different levels of pilot advortion; or discuss the roles to pilot-in-commercial position.	Operator Qualifications Committee & G- 10U Unmanned Aerospace Vehicle Committee		recommended practice	published	
							ARP### Common operator qualifications	suppremental prior, or coserver.	SAE G-30 UAS Operator Qualifications Committee	May-19	recommended practice	planned	
	Opinion No.1 2018	UAS.OPEN.040 by a rendise plot who has demonstrated the competencies necessary to ensure a safe flight, respecting privacy, the protection, security and environmental requirements, by having completed on ordine training course and passed an ordine lest, according to a manner and passed and contine lest, according to a manner and contine lest, according to a manner and contine lest, according to a manner and another and another and another ano	EASA	Dec-18	open and specific	Opinion published							
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								Practice for Certification of Pilots, Visual Observers, and Instructor Pilots and Training courses for Small Unmanned	Establish orities for Training and Certification of sIASP Flots, Instructors, and School Hosses. This practice defines the houselegs, skills, and skills set al. ALS pilots require for the conduct training and light operations (so Small Unmanuel Anceral Systems (UAS) in the NAS. The Training and Certification of sIAAS Pilots, instructors, and School Houses include areas and six of the six of	ASTM F38 Unmanned Aircraft Systems	Apr-18	standard	ongoing	In Ballot
								ARP5707 Pilot Training Recommendations for Unmanned Aircraft Systems (UAS) Civil Operations	This document provides an approach to the development of training topics or plots of Unimared Alizardi Systems (ULS) for use by operator, manufactures, and regulation. The identification of raining topics is based inablely on Protection Test Sandard (PTS) topics for married acrea plottes. The topics identified could be used for the constraint of a PTS at UTS. The topics identified could be used for the constraint of a PTS at UTS of the TS and the	G-30 UAS Operator Qualifications Committee & G- 10U Unmanned Aerospace Vehicle		recommended practice	published	
								STANAG 7192 Ed: 1 Principles Underpinning Medical Standards for Operators of Ummanned Aerial Systems (UAS) - AAMedP-1.25, Edition A	Inigning the medical ractors involved in the medical aspects of Flight Crew Licensing to enable individual nations to further their own medical standards for safe UAS operation.	NATO		standard	published	
9	Environment													
	Noise level	Opinion No.1 2018	Appendix 2, 3 to Delegated Act UAS in class C2 and C3 shall have a sound pressure level not exceeding 60 dB(A) (measured at a 3-m distance from the UA);	EASA	Dec-18	open	Opinion published							
10	Autonomous operations													
								AS6386 JAUS Autonomous Behaviors Service Set	This document, the JALIS Automated Behaviors and Diagnostics Service Set, defines a message-passing interface for services commonly found in mobile unmanned systems. These services represent the platform- independent capabilities common across all domains. Additional capabilities are specified in the JAUS Core Service Set (ASST10) and are frequently referenced herein.	SAE AS-4JAUS Joint Architecture for Unmanned Systems Committee	May-19	standard	ongoing	
								ASTM Aviation Autonomy Roadmap	Task group to matix autonomy technologies and standards between manned and unammned aircraft.	ASTM	TBD	standards and practices	ongoing	Task Group Formed
								ASTM F3269 Standard Practice for Methods to Safely Bound Flight Behavior of Unmanned Aircraft Systems Containing	This standard practice defines design and test best practices that if followed, would provide guidance to an applicant for providing evidence to the drift all submitted to authority (CAA) that the light behavior of an unmanufacture (CAA) containing complex function(s) is constrained through a run-free assurance (ETA) architecture to maintain an acceptable	ASTM F38 Unmanned Aircraft Systems		standard	published	FAA Notice Of Availability (NOA) Pending approval ASTM WK57659 as foundational document

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