ANSI List of Unmanned Aircraft	Systems (UAS) Standards, Other Deliverables, and Initiatives, working draft updated August 15, 2017		
Developer	Designation / Title of Standard, Specification, or Other Publication	Publication Date / Target	Publication
		Date	Status
AIA	Administers International Secretariat ISO/TC 20/SC 16. Link is to Industry Issues UAS landing page.		
AIAA	Administers U.S. TAG for ISO/TC 20/SC 16		
AIM			
API			
ASABE	Announced a new technical committee for unmanned aerial systems August 13, 2015		
ASIS			
			(New) In
ASME	Use of drones for inspections of power plants		Development
ASTM E06.55, Performance of			
Buildings - Performance of			(New) In
Building Enclosures	ASTM WK58243, New Guide for Visual Inspection of Building Facade using Drone		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58677 Evaluating AerialResponse RobotSensing: Visual Image Acuity		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58925 Evaluating AerialResponse RobotSensing: Visual Color Acuity		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58926 Evaluating AerialResponse RobotSensing: Visual Dynamic Range		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58927 Evaluating AerialResponse RobotSensing: Audio Speech Acuity		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58928 Evaluating AerialResponse RobotSensing: Thermal Image Acuity		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58929 Evaluating AerialResponse RobotSensing: Thermal Dynamic Range		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58930 Evaluating AerialResponse RobotSensing: Latency of Video, Audio, and Control		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58931 Evaluating AerialResponse RobotManeuvering: Maintain Position and Orientation		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58932 Evaluating AerialResponse RobotManeuvering: Orbit a Point		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58933 Evaluating AerialResponse RobotManeuvering: Avoid Static Obstacles		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58934 Evaluating AerialResponse RobotManeuvering: Pass Through Openings		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58935 Evaluating AerialResponse RobotManeuvering: Land Accurately (Vertical)		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58936 Evaluating AerialResponse RobotSituational Awareness: Identify Objects (Point and Zoom Cameras)		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58937 Evaluating AerialResponse RobotSituational Awareness: Inspect Static Objects		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58938 Evaluating AerialResponse RobotSituational Awareness: Map Wide Areas (Stitched Images)		Development

Developer	Designation / Title of Standard, Specification, or Other Publication	Publication Date / Target Date	Publication Status
			(New) In
ASTM E54.09 Response Robots	ASTM WK58939 Evaluating AerialResponse RobotEnergy/Power: Endurance Range and Duration		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58940 Evaluating AerialResponse RobotEnergy/Power: Endurance Dwell Time		Development
			(New) In
ASTM E54.09 Response Robots	ASTM WK58941 Evaluating AerialResponse RobotRadio Communications Range: Non Line of Sight		Development
	ACTNA M/KEQQ42 Evolution Actic Descence DehetDedie Communication Dense vision of Cickt		(New) In
ASTM E54.09 Response Robots	ASTM WK58942 Evaluating AerialResponse RobotRadio Communication Range : Line of Sight		Development (New) In
ASTM E54.09 Response Robots	ASTM WK58943 Evaluating AerialResponse RobotSafety: Lights and Sounds		(New) III Development
ASTM F32.01, Search and Rescue -	ASTIM WK58945 Evaluating Aenaikesponse Robotsarety. Lights and Sounds		Development
Equipment, Testing, and			(New) In
Maintenance	ASTM WK52858 Small Unmanned Aircraft Systems (sUASs) for Land Search and Rescue		Development
ASTM F32.03, Search and Rescue -	ASTIV WKS2656 Small Offinance Andrat Systems (SOASS) for Land Search and Rescue		Development
Personnel, Training and			(New) In
Education	ASTM WK54226 sUAS Operations in Search and Rescue Operations		Development
ASTM F32.03, Search and Rescue -			Development
Personnel, Training and			(New) In
Education	ASTM WK55596 Guide for Training of sUAS Pilots and Crew Members for Land Search and Rescue		Development
	ASTM F2585-08, Standard Specification for Design and Performance of Pneumatic-Hydraulic Unmanned Aircraft System (UAS)	2000	
Systems (UAS) - Airworthiness	Launch System	2008	Published
ACTNA F28 01 Upmannad Aircraft			
ASTM F38.01, Unmanned Aircraft	ASTM E20E1 10 Standard Dractice for LIAC Dedictration and Marking (Evoluting Small Unmanned Aircraft Systems)	2010	Published
Systems (UAS) - Airworthiness	ASTM F2851-10 Standard Practice for UAS Registration and Marking (Excluding Small Unmanned Aircraft Systems)	2010	Publisheu
ASTM F38.01, Unmanned Aircraft			
Systems (UAS) - Airworthiness	ASTM F2910-14 Standard Specification for Design and Construction of a Small Unmanned Aircraft System (sUAS)	2014	Published
Systems (OAS) Anworthness	ASTWITZSTO 14 Standard Specification for Design and Construction of a Small Oninfamilea Aneral System (SOAS)	2014	i ublisticu
ASTM F38.01, Unmanned Aircraft			
Systems (UAS) - Airworthiness	ASTM F2911-14e1 Standard Practice for Production Acceptance of Small Unmanned Aircraft System (sUAS)	2014	Published
ASTM F38.01, Unmanned Aircraft	ASTM F3002-14a Standard Specification for Design of the Command and Control System for Small Unmanned Aircraft Systems		
Systems (UAS) - Airworthiness	(sUAS)	2014	Published
ASTM F38.01, Unmanned Aircraft			
Systems (UAS) - Airworthiness	ASTM F3003-14 Standard Specification for Quality Assurance of a Small Unmanned Aircraft System (sUAS)	2014	Published
STM F38.01, Unmanned Aircraft			
ystems (UAS) - Airworthiness	ASTM F3005-14a Standard Specification for Batteries for Use in Small Unmanned Aircraft Systems (sUAS)	2014	Published

ANSI List of Unmanned Aircraft Sy	rstems (UAS) Standards, Other Deliverables, and Initiatives, working draft updated August 15, 2017		
Developer	Designation / Title of Standard, Specification, or Other Publication	Publication Date / Target Date	Publication Status
	ASTM F3196-17 Standard Practice for Seeking Approval for Extended Visual Line of Sight (EVLOS) or Beyond Visual Line of		
Systems (UAS) - Airworthiness	Sight (BVLOS) Small Unmanned Aircraft System (sUAS) Operations	2017	Published
ASTM F38.01, Unmanned Aircraft Systems (UAS) - Airworthiness	ASTM F3201-16 Standard Practice for Ensuring Dependability of Software Used in Unmanned Aircraft Systems (UAS)	2016	Published
ASTM F38.01, Unmanned Aircraft Systems (UAS) - Airworthiness	ASTM WK49440, Revision of F3002 - 14a Standard Specification for Design of the Command and Control System for Small Unmanned Aircraft Systems (sUAS)		(Revision) In Development
ASTM F38.01, Unmanned Aircraft Systems (UAS) - Airworthiness	ASTM WK56160, Revision of F3005 - 14a Standard Specification for Batteries for Use in Small Unmanned Aircraft Systems (sUAS)		(Revision) In Development
	ASTM WK16285 New Specification for Specification for Design and Performance of an Unmanned Aircraft System-Class 1320 (550# Gross Weight to 1320# Gross Weight)		(New) In Development
ASTM F38.01, Unmanned Aircraft Systems (UAS) - Airworthiness	ASTM WK27055 New Practice for Marking of Unmanned Aircraft Systems		(New) In Development
ASTM F38.01, Unmanned Aircraft Systems (UAS) - Airworthiness	ASTM WK31391 New Specification for Testing of a Small Unmanned Aircraft System (sUAS)		(New) In Development
ASTM F38.01, Unmanned Aircraft Systems (UAS) - Airworthiness	ASTM WK52089 New Specification for Operation over People		(New) In Development
ASTM F38.01, Unmanned Aircraft Systems (UAS) - Airworthiness	ASTM WK53403 Methods to Safely Bound Flight Behavior of UAS Containing Adaptive Algorithms		(New) In Development
ASTM F38.01, Unmanned Aircraft Systems (UAS) - Airworthiness	ASTM WK53964 Design, Construct, and Test of VTOL		(New) In Development
ASTM F38.01, Unmanned Aircraft Systems (UAS) - Airworthiness	ASTM WK56338 Safety of Unmanned Aerial Systems for Flying Over People		(New) In Development
ASTM F38.01, Unmanned Aircraft Systems (UAS) - Airworthiness	ASTM WK57659 Design, Construction and Verification of Fixed Wing UAS		(New) In Development
ASTM F38.02, UAS - Flight Operations	ASTM F2849-10 Standard Practice for Handling of Unmanned Aircraft Systems at Divert Airfields	2010	Published
ASTM F38.02, UAS - Flight			
Operations ASTM F38.02, UAS - Flight	ASTM F2909-14 Standard Practice for Maintenance and Continued Airworthiness of Small Unmanned Aircraft Systems (sUAS)	2014	Published
Operations	ASTM F3178-16 Standard Practice for Operational Risk Assessment of Small Unmanned Aircraft Systems (sUAS)	2016	Published

	ystems (UAS) Standards, Other Deliverables, and Initiatives, working draft updated August 15, 2017	Publication	
Developer	Designation / Title of Standard, Specification, or Other Publication	Date / Target Date	Publication Status
ASTM F38.02, UAS - Flight			(New) In
Operations	ASTM WK28019 New Practice for Selecting sUAS Launch and Recovery		Development
STM F38.02, UAS - Flight			(New) In
Operations	ASTM WK37164 New Specification for Operations Over People		Development
ASTM F38.02, UAS - Flight			(New) In
Dperations	ASTM WK49619 New Practice for Operational Risk Assessment (ORA)		Development
ASTM F38.03, UAS - Personnel Fraining, Qualification &			
Certification	ASTM F2908-16 Standard Specification for Aircraft Flight Manual (AFM) for a Small Unmanned Aircraft System (sUAS)	2016	Published
ASTM F38.03, UAS - Personnel			(a.).
Fraining, Qualification &	ASTM WK11425 New Practice for Private Unmanned Aircraft System (UAS) Pilot Practical Test Standards for Unmanned		(New) In
Certification	Aircraft Single-Engine Land (SEL) Remote Control and Autonomous/Semiautonomous		Development
ASTM F38.03, UAS - Personnel			
raining, Qualification &	ASTM WK29229 New Practice for Certification of Pilots, Visual Observers, and Instructor Pilots and Training courses for Small		(New) In
Certification	Unmanned Aircraft Systems (sUAS)		Development
TIS	Unmanned Aerial Vehicles Initiative		•
CTA R6WG23	ANSI/CTA-2063 Small Unmanned Aerial Systems Serial Numbers	May 2017	Published
			(New) In
CTA R6WG23	ANSI/CTA-2067 Small Unmanned Aerial Systems - Remote Identification	Dec 2017	Development
	CTIA's Drone/UAS Working Group advocates before all U.S. regulatory agencies that can impact drone operations, including		
CTIA	the FAA, FCC, DHS, NASA and NTIA. No information found on standards development.		
			(New) In
EEE CES/SC/DWG	IEEE P2025.1 Standard for Consumer Drones: Taxonomy and Definitions		Development
			(New) In
EEE CES/SC/DWG	IEEE P2025.2 Standard for Consumer Drones: Privacy and Security		Development
	UEEE P4020-4 A sticl Communications of National Alice Chandrada		(New) In
EEE COM/SDB/Aerial Networks NCITS	IEEE P1920.1 Aerial Communications and Networking Standards	Feb 2018	Development
SO/IEC JTC1/SC17, Information			
	ISO IEC NP 22460, ISO License and Drone Identity Module for Drone (Ultra Light Vehicle or Unmanned aircraft system),		(New) In
dentification	approved new work item from Republic of Korea (KATS), based on ISO 7816 (updated 5/3/17)		Development
SO/TC 20/SC 16, Aircraft and			
pace vehicles - Unmanned			(New) In
ircraft systems (UAS)	ISO/AWI 21384-1, Unmanned aircraft systems - Part 1: General specification		Development
SO/TC 20/SC 16, Aircraft and			
space vehicles - Unmanned aircraft systems (UAS)	ISO/AWI 21384-2, Unmanned aircraft systems - Part 2: Product systems		(New) In

		Publication	
Developer	Designation / Title of Standard, Specification, or Other Publication	Date / Target Date	Publication Status
SO/TC 20/SC 16, Aircraft and			
space vehicles - Unmanned			(New) In
aircraft systems (UAS)	ISO/AWI 21384-3, Unmanned aircraft systems - Part 3: Operational procedures		Development
SO/TC 20/SC 16, Aircraft and			
pace vehicles - Unmanned			(New) In
aircraft systems (UAS)	ISO/AWI 21895, Categorization and classification of civil unmanned aircraft systems		Development
SO/TC 23/SC 6, Tractors and			
nachinery for agriculture and			
orestry - Equipment for Crop	ISO/NP 16119-6, Agricultural and forestry machinery Environmental requirements for sprayers Part 6: Part 6 - Unmanned		
Protection	aerial systems (new work item proposed by France (AFNOR), national body voting closes July 5, 2017		
ARUS WG1 - Flight Crew			
icensing	JARUS FCL (Flight Crew Licensing) Recommendations	Sep 2014	Published
IARUS WG1 - Flight Crew			
Licensing	JARUS FCL GM, Guidance Material to JARUS-FCL Recommendation	Apr 2017	Published
	JARUS Ops Cat A & B. This document is developing recommendation for operations of Unmanned Aircraft Systems involved in		
	manufacturing, operations, maintenance and service provision. It is based on categorization A & B as per the RPAS		(New) In
ARUS WG2 - Operations	Operational caegorization of WG 7 and SORA developped by WG 6.		Development
		5 2016	
ARUS WG3 - Airworthiness	JARUS CS-LUAS, Recommendations for Certification Specification for Light Unmmaned Aeroplane Systems	Dec 2016	Published
ARUS WG3 - Airworthiness	JARUS CS-LURS, Certification Specification for Light Unmanned Rotorcraft Systems	Oct 2013	Published
	JARUS Detect and Avoid CONOPS for VLL operations. It is intended to allow for further developments and elaboration of the		(New) In
ARUS WG4 - Detect and Avoid	operational concept for UAS at VLL		Development
	JARUS Detect and Avoid. This document describes the methods to derive design objectives for DAA systems based on airspace		(New) In
ARUS WG4 - Detect and Avoid	requirements.		Development
ARUS WG5 - Command and	JARUS CPDLC, Recommendations on the Use of Controller Pilot Data Link Communications (CPDLC) in the RPAS		
Control	Communications Context	Jun 2016	Published
ARUS WG5 - Command and			
Control	JARUS Required C2 Performance (RLP) concept	May 2016	Published
ARUS WG5 - Command and		0.10044	
Control	JARUS RPAS C2 Link, Required Communication Performance (C2 link RCP) concept JARUS RPAS C2 Link CONOPS. This document is focusing on the C2 Link. It includes a large setcion on the Aeronautical	Oct 2014	Published
ARUS WG5 - Command and	Information (AIS) and Meteorological Information (MET) that are needed from an aircraft (RPA) perspective when operating		(New) In
Control ARUS WG6 - Safety and Risk	in airspace using the C2 Link.		Development
•		lan 2015	Dublished
Nanagement ARUS WG6 - Safety and Risk	JARUS AMSC RPAS 1309 (package) JARUS SORA. Specific Operations Risk Assessment. Recommends a risk assessment methodology to establish a sufficient level	Jan 2015	Published
•			(New) In Development
/lanagement	of confidence that a specific operation can be conducted safely.		Development (New) In
ARUS WG7 - Concepts of	JARUS RPAS Operational Categorization. Categorization scheme that describes the level of regulatory involvement for the		

NIST working on suite of draft standard test methods Image: Constraint of the supervised of the	Developer	Designation / Title of Standard, Specification, or Other Publication	Publication Date / Target Date	Publication Status
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OCC USS DWG OCC has a newly formed Unmanned Systems Domain Working Group C C rolessional Photographers of merica (PPA) PPA Certified Orone Photographer 2017 2017 IA no UAS standards 700 2017 2017 IA no UAS standards 7000 700 7000 70	IFPA		comment)	Development
rofessional Photographers of merica (PPA) PA Certified Drone Photographer 2017 IA no UAS standards 2017 IA no UAS standards 1 IA Immedia (PPA) 1 1 IA no UAS standards 1 1 IA Immaned Aircraft Systems Mar 2007 Published ICA SC-203 RTCA DO-340 - Volume 1 & 2 - Operational and Functional Requirements and Safety Objectives for Unmanned Aircraft System Jun 2013 Published ICA SC-203 RTCA DO-344 volume 2 - Appendices F & G - Operational and Functional Requirements and Safety Objectives for Unmanned Aircraft System Standards Jun 2013 Published ICA SC-203 RTCA AWP-1 - Detect and Avoid (DAA) White Paper Mar 2014 Published ICA SC-228, Minimal RTCA AWP-1 - Detect and Avoid (DAA) White Paper Mar 2014 Published ICA SC-2	IIST	working on suite of draft standard test methods		
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RTCA serves as secretariat to the Drone Advisory Committee (DAC) established in May 2016. The DAC is a Federal Advisory. n/a TCA Unmanned Aircraft Sys n/a TCA Nar 2007 Published TCA Unmanned Aircraft Sys Mar 2007 TCA RTCA DO-304 - Guidance Material and Considerations for Unmanned Aircraft Systems. Mar 2007 TCA SC-203 RTCA DO-302 - Operational Services and Environmental Definition (OSED) for Unmanned Aircraft Systems. Jun 2010 Published TCA SC-203 RTCA DO-344 Volume 1.8.2 - Operational and Functional Requirements and Safety Objectives for Unmanned Aircraft System Jun 2013 Published TCA SC-203 RTCA DD-344 Volume 2.8.2 - Operational and Functional Requirements and Safety Objectives for Unmanned Aircraft System Jun 2013 Published TCA SC-203 RTCA DD-344 Volume 2.8.2 - Operational and Functional Requirements and Safety Objectives for Unmanned Aircraft System Jun 2013 Published TCA SC-203 Marcraft System Standards. Jun 2014 Published Jun 2014 Published TCA SC-203 Marcraft System Standards. Jun 2014 Published Jun 2014 Published TCA SC-204 Minimal Potertart Avoid (DAA) White Paper Mar 2014 Published		no UAS standards	-	
TCA Committee formed to provide an open venue for the FAA and key decision-makers supporting the safe introduction of. n/a n/a TCA Unmanned Aircraft Sys Ind a Considerations for Unmanned Aircraft Systems. Mar 2007 Published TCA SC-203 RTCA DD-320 - Operational Services and Environmental Definition (OSED) for Unmanned Aircraft Systems. Jun 2013 Published TCA SC-203 RTCA DD-344 Volume 1 & 2 - Operational and Functional Requirements and Safety Objectives for Unmanned Aircraft System. Jun 2013 Published TCA SC-203 RTCA DD-344 Volume 2-Appendices F & G - Operational and Functional Requirements and Safety Objectives for Unmanned Aircraft System. Jun 2013 Published TCA SC-203 Aircraft System Standards. Jun 2014 Published Jun 2014 Published TCA SC-203, Minimal FitcA DD-344 Volume 2-Appendices F & G - Operational and Functional Requirements and Safety Objectives for Unmanned Aircraft System Standards. Jun 2013 Published TCA SC-203, Minimal FitcA MP-1 - Detect and Avoid (DAA) White Paper Mar 2014 Published TCA SC-228, Minimal FitcA AWP-2 - Command and Control (C2) Data Link White Paper Mar 2014 Published TCA SC-228, Minimal FitcA AUP-2 - Command and Control (C2) Data Link Minimum Operational Performance Seep 2015 Published TCA SC-228, Minimal Performance Seep 2015 Publis				
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RTCA DO-344 Volume 1 & 2 - Operational and Functional Requirements and Safety Objectives for Unmanned Aircraft System Jun 2013 Published TCA SC-203 RTCA DO-344 Volume 2-Appendices F & G - Operational and Functional Requirements and Safety Objectives for Unmanned Aircraft System Jun 2013 Published TCA SC-203 RTCA DO-344 Volume 2-Appendices F & G - Operational and Functional Requirements and Safety Objectives for Unmanned Aircraft System Standards Jun 2013 Published TCA SC-203 Minimal perational Performance Jun 2013 Published TCA SC-228, Minimal Perational Performance Mar 2014 Published TCA SC-228, Minimal Perational Performance Mar 2014 Published TCA SC-228, Minimal Performance Mar 2014 Published perational Performance RTCA AWP-2 - Command and Control (C2) Data Link White Paper Mar 2014 Published TCA SC-228, Minimal Performance Mar 2014 Published Published TCA SC-228, Minimal Performance Mar 2014 Published Performance RTCA AWP-2 - Command and Control (C2) Data Link Minimum Operational Performance Standard (MOPS) (Terrestial). Sep 2016 Published TCA SC-228, Minimal Phase 2 of MOPS development is under	TCA SC-203	RTCA DO-304 - Guidance Material and Considerations for Onmanned Aircraft Systems	Iviar 2007	Published
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ANSI List of Unmanned Aircraft Sy	ystems (UAS) Standards, Other Deliverables, and Initiatives, working draft updated August 15, 2017		
Developer	Designation / Title of Standard, Specification, or Other Publication	Publication Date / Target Date	Publication Status
SAE A-6C4, Power Sources Committee	SAE AIR 744C-2010, Aerospace Auxiliary Power Sources	26-Oct-15	Published
SAE Ae-7b, Power Management, Distribution and Storage	SAE AS 4805-2007, Solid State Power Controller, General Standard For	23-Jul-07	Published
SAE Ae-7b, Power Management, Distribution and Storage	SAE AS 8033, Nickel Cadmium Vented Rechargeable Aircraft Batteries (Non-Sealed, Maintainable Type)	6-Jul-10	Published
SAE Ae-7b, Power Management, Distribution and Storage	SAE AIR 6343, Design and Development of Rechargeable Aerospace Lithium Battery Systems	29-Jul-15	(New) In Development
SAE Ae-7b, Power Management, Distribution and Storage	SAE AIR 6897, Lithium Battery Systems – Prognostics and Health Management	10-Dec-15	(New) In Development
SAE Ae-7b, Power Management, Distribution and Storage	SAE AS 4805A, Solid State Power Controller, General Standard For	15-Apr-15	(New) In Development
SAE Ae-7b, Power Management, Distribution and Storage	SAE AS 6087, ARC Fault Interrupter, 270 VDC	17-Nov-09	(New) In Development
SAE Ae-8a Elec Wiring and Fiber Optic Interconnect Sys Install	SAE AS 50881F, Wiring Aerospace Vehicle	29-May-15	Published
SAE AS-1B, Aircraft Store Integration Committee	SAE AIR 6027A-2017, Considerations for Safe Store Operation on Manned and Unmanned Vehicles	2017	Published
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE AIR 5645A-2014, JAUS Transport Considerations	5-Sep-14	Published
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE AIR 5664A-2012, JAUS History and Domain Model	16-Aug-12	Published
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE AIR 5665B-2013, Architecture Framework for Unmanned Systems	5-Feb-13	Published
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE ARP 6012A-2014, JAUS Compliance and Interoperability Policy	5-Sep-14	Published
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE ARP 6128-2013, Unmanned Systems Terminology Based on the ALFUS Framework	15-Mar-13	Published

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Developer	Designation / Title of Standard, Specification, or Other Publication	Publication Date / Target Date	Publication Status
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE ARP 6227-2013, JAUS Messaging over the OMG Data Distribution Service (DDS)	24-Feb-13	Published
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE AS 5669A-2009, JAUS/SDP Transport Specification		Published
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE AS 5684B-2015, JAUS Service Interface Definition Language	21-Aug-15	Published
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE AS 5710A, JAUS Core Service Set	24-Apr-15	Published
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE AS 6009, JAUS Mobility Service Set	15-Apr-09	Published
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE AS 6040, JAUS HMI Service Set	24-Apr-15	Published
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE AS 6057A-2014, JAUS Manipulator Service Set	3-Jun-14	Published
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE AS 6060, JAUS Environment Sensing Service Set	24-Apr-15	Published
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE AS 6062, JAUS Mission Spooling Service Set	24-Apr-15	Published
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE AS 6091-2014, JAUS Unmanned Ground Vehicle Service Set	29-Jul-14	Published
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE AS 6009A, JAUS Mobility Service Set	Summer 2017	(Revision) In Development
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE AS 6111, JAUS Unmanned Maritime Vehicle Service Set	year end 2017	(New) In Development
SAE AS-4JAUS, Joint Architecture for Unmanned Systems Committee	SAE AS 6386, JAUS Automated Behaviors and Diagnostics Service Set	mid 2018	(New) In Development
SAE AS-4UCS, Unmanned Systems Control Segment Architecture	SAE AIR 6514-2016, UxS Control Segment (UCS) Architecture: Interface Control Document (ICD)	20-Dec-16	Published

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Developer	Designation / Title of Standard, Specification, or Other Publication	Publication Date / Target Date	Publication Status
SAE AS-4UCS, Unmanned Systems Control Segment Architecture	SAE AIR 6515-2016, Unmanned Systems (UxS) Control Segment (UCS) Architecture: EA Version of UCS ICD Model	20-Dec-16	Published
SAE AS-4UCS, Unmanned Systems Control Segment Architecture	SAE AIR 6516-2016, Unmanned Systems (UxS) Control Segment (UCS) Architecture: RSA Version of UCS ICD Model	20-Dec-16	Published
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and Timing	SAE ARP 6857, Requirements for a Terrestrial Based Position, Navigation, and Timing (PNT) System to Improve Unmanned Vehicle Navigation Solutions and Ensure Critical Infrastructure Security	2019	(New) in Development

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Developer	Designation / Title of Standard, Specification, or Other Publication	Date / Target Date	Publication Status
SAE E-25, General Standards for			
Aerospace and Propulsion	SAE AS 478N, Identification Marking Methods		
Systems		28-Apr-15	Published
SAE E-25, General Standards for			
Aerospace and Propulsion			(Revision) In
Systems	SAE AS 478P, Identification Marking Methods	22-Feb-17	Development
SAE G-10u, Unmanned Aerospace	SAE ARP 5707, Pilot Training Recommendations for Unmanned Aircraft Systems (UAS) Civil Operations		
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SAE G-18, Radio Frequency			
Identification (RFID) Aero	SAE AIR 5747-2008, EMC Laboratory RF Radiated Emission Report for Passive Radio Frequency Identification (RFID) Tags		
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SAE G-18, Radio Frequency			
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ASTM E54.09 Response Robots	Sight Range	2012	Published
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	ASTM WK33260, New Test Method for Evaluating Ground Response Robot Maneuvering: Traverse Hallway Labyrinths with		(New) In
ASTM E54.09 Response Robots	<u>Complex Terrain</u>		Development
	ASTM W/KEE02E New Test Method for Evoluating Ground Personse Perhot Endurance		(New) In
ASTM E54.09 Response Robots	ASTM WK55025, New Test Method for Evaluating Ground Response Robot Endurance		Development
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Certification of Electrical Systems		2013	Published
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Developer	Designation / Title of Standard, Specification, or Other Publication	Publication Date / Target Date	Publication Status			
ASTM F39.01, Aircraft Systems - Design, Alteration, and Certification of Electrical Systems	ASTM F2639-15 Standard Practice for Design, Alteration, and Certification of Aircraft Electrical Wiring Systems	2015	Published			
ASTM F39.02, Aircraft Systems - Inspection, Alteration, Maintenance, and Repair	ASTM F2696-14 Standard Practice for Inspection of Aircraft Electrical Wiring Systems	2014	Published			
ASTM F39.02, Aircraft Systems - Inspection, Alteration, Maintenance, and Repair	ASTM F2799-14 Standard Practice for Maintenance of Aircraft Electrical Wiring Systems	2014	Published			
SAE Battery Materials Testing Committee	SAE J3042-2015, Measuring Properties of Li-Battery Electrolyte	3-Feb-15	Published			
SAE Battery Thermal Management Committee	SAE J3073-2016, Battery Thermal Managment	10-May-16	Published			
SAE Start-Stop Battery Committee	SAE J3012-2014, Recommended Practice for Determining Material Properties of Li-Battery Cathode Active Materials	24-Oct-14	Published			
SAE VIN - WMI Technical Committee	SAE J1044-2012, World Manufacturer Identifier	23-Jul-12	Published			
SAE VIN - WMI Technical Committee	SAE J129-2010, Engine and Transmission Identification Numbers	5-Aug-10	Published			
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