

Do 178c

AC 00-69) and RTCA DO-178(), initially issued in 2017, supports application of the active revisions of ED-12C/DO-178C and AC 20-115. The AC does not state FAA guidance, but rather provides information in the form of "best practices" complementary to the objectives of ED-12C/DO-178C. The AC does not state FAA The Advisory Circular AC 00-69, Best Practices for Airborne Software Development Assurance Using EUROCAE ED-12() and RTCA DO-178(), initially issued in 2017, supports application of the active revisions of ED-12C/DO-178C and AC 20-115 7c0f334b3d

Airworthiness Certification of Unmanned Aircraft Systems, establishes procedures for issuing this certification, and as such establishes guidance standards for certification aspects of development and operation, which may be addressed by adoption of such standards as ARP4754A, and DO-178C. 7c0f334b3d Obtaining an experimental airworthiness certificate for a particular UAS is currently the only way civil operators of unmanned aircraft are accessing the National Airspace... 7c0f334b3d The Federal Aviation Administration (FAA) applies DO-178B as the document it uses for guidance to determine if the software will perform reliably in an airborne environment... 7c0f334b3d

DO-178C The new document is called DO-178C/ED-12C and was completed in November 2011 and approved by the RTCA in December 2011. DO-178C, Software Considerations in Airborne Systems and Equipment Certification is the primary document by which the certification authorities such as DO-178C, Software Considerations in Airborne Systems and Equipment Certification is the primary document by which the certification authorities such as FAA, EASA and Transport Canada approve all commercial software-based aerospace systems. The document is published by RTCA, Incorporated, in a joint effort with EUROCAE and replaces DO-178B. It became available for sale and use in January 2012 7c0f334b3d

DO-248 DO-248C, Supporting Information for DO-178C and DO-278A, published by RTCA, Incorporated, is a collection of Frequently Asked Questions and Discussion DO-248C, Supporting Information for DO-178C and DO-278A, published by RTCA, Incorporated, is a collection of Frequently Asked Questions and Discussion Papers addressing applications of DO-178C and DO-278A in the safety assurance of software for aircraft and software for CNS/ATM systems, respectively. The present revision is also expanded to include the "Rationale for DO-178C/DO-278A" section to document items that were considered when developing DO-178B and then DO. Like DO-178C and DO-278A, it is a joint RTCA undertaking with EUROCAE and the document is also published as ED-94C, Supporting Information for

ED-12C and ED-109A. The publication does not provide any guidance additional to DO-178C or DO-278A; rather, it only provides clarification for the guidance established in those standards 7c0f334b3d

FAA Order 8130.34 Adoption of ARP4754, DO-178C, DO-254, DO-278, and other related guidance standards to UAS programs is rapidly FAA Order 8130.34D, Airworthiness Certification of Unmanned Aircraft Systems, establishes procedures for issuing either special airworthiness certificates in the experimental category or special flight permits to unmanned aircraft systems (UAS), optionally piloted aircraft (OPA), and aircraft intended to be flown as either a UAS or an OPA. with a safety pilot monitoring its controls 7c0f334b3d

This AC clarifies that Data Coupling Analysis and Control Coupling Analysis are distinct activities and that both... 7c0f334b3d This Advisory Circular calls attention to ED-12C/DO-178C as "an acceptable means, but not the only means," to secure FAA approval of software. The earliest revisions of the Advisory Circular were brief, serving little more than to call attention... 7c0f334b3d

DO-254 The DO-254/ED-80 standard is the counterpart to the well-established software standard RTCA DO-178C/EUROCAE ED-12C. With DO-254/ED-80, the RTCA DO-254 / EUROCAE ED-80, Design Assurance Guidance for Airborne Electronic Hardware is a document providing guidance for the development of

airborne electronic hardware, published by RTCA, Incorporated and EUROCAE. The guidance in this document is applicable, but not limited, to such electronic hardware items as. functions. Initially released in 2000, the DO-254/ED-80 standard was not necessarily considered policy until recognized by the FAA in 2005 through AC 20-152 as a means of compliance for the design assurance of electronic hardware in airborne systems 7c0f334b3d

Notably, the guidance of FAA Order 8110.49 regarding "Software Change Impact Analysis" was removed in Revision A of that notice in 2017. The best practices that AC 00-69 now describes for Software Change Impact Analysis are much reduced and less prescriptive than what was removed from Order 8110.49. 7c0f334b3d As established by the FAA advisory circular AC 20-115, the RTCA publication DO-178B/C defines an acceptable means of certification of airworthy software. Unique among development standards, DO-178B introduced a distinction between High-Level Requirements and Low-Level Requirements as formal products of software requirements analysis and design when developing airworthy software. 7c0f334b3d

DO-178B software systems until it was replaced in 2012 by DO-178C. The Federal Aviation Administration (FAA) applies DO-178B as the document it uses for guidance to DO-178B, Software Considerations in Airborne Systems and Equipment Certification is a guideline

dealing with the safety of safety-critical software used in certain airborne systems. It was jointly developed by the safety-critical working group RTCA SC-167 of the Radio Technical Commission for Aeronautics (RTCA) and WG-12 of the European Organisation for Civil Aviation Equipment (EUROCAE). RTCA published the document as RTCA/DO-178B, while EUROCAE published the document as ED-12B. Although technically a guideline, it was a de facto standard for developing avionics software systems until it was replaced in 2012 by DO-178C

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CAST-15 Requirements). It is an FAA publication that "does not constitute official policy or guidance from any of the authorities", but is provided to applicants for software and hardware certification for educational and informational purposes only. DO-178C/DO-178B provides guidance for merging High-Level and Low-Level Software Requirements. Nominally, in the DO-178C/DO-178B context, CAST-15, Merging High-Level and Low-Level Requirements is a Certification Authorities Software Team (CAST) Position Paper

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Advisory circular " Advisory circulars are now harmonized with soft law Acceptable Means of Compliance (AMC) publications of EASA, which are nearly identical in content. Retrieved 2024-04-10
Advisory circular (AC) refers to a type of publication offered by the Federal Aviation Administration (FAA) to

"provide a single, uniform, agency-wide system ... to deliver advisory (non-regulatory) material to the aviation community. The FAA's Advisory Circular System is defined in FAA Order 1320. p. CRC Press. Safety-Critical Software: A Practical Guide for Aviation Software and DO-178C Compliance. 49. ISBN 9781351834056. 46D 7c0f334b3d

AC 20-115 DO-178 at that revision. This Advisory Circular calls attention to ED-12C/DO-178C as "an acceptable means, but not the only means," to secure FAA approval The Advisory Circular AC 20-115(), Airborne Software Development Assurance Using EUROCAE ED-12() and RTCA DO-178() (previously Airborne Software Assurance), recognizes the RTCA published standard DO-178 as defining a suitable means for demonstrating compliance with applicable airworthiness regulations for the use of software within aircraft systems. The present revision D of the circular identifies ED-12/DO-178 Revision C as the active revision of that standard and particularly acknowledges the synchronization of ED-12 and DO-178 at that revision 7c0f334b3d

Circuit board assemblies (CBA) 7c0f334b3d Custom micro-coded components such as field programmable gate arrays (FPGA), programmable logic devices (PLD), and application-specific integrated circuits... 7c0f334b3d

Certification Authorities Software Team Since 1982,

RTCA publication DO-178 has provided guidance on certification aspects. The Certification Authorities Software Team (CAST) is an international group of aviation certification and regulatory authority representatives. The organization has been a means of coordination among representatives from certification authorities in North and South America, Europe, and Asia, in particular, the FAA and EASA. clarification and improvement of the guidance provided by DO-178C and DO-254. The focus of the organization has been harmonization of Certification Authorities activities in part through clarification and improvement of the guidance provided by DO-178C and DO-254 7c0f334b3d

By writing advisory circulars, the FAA can provide guidance for compliance with airworthiness regulations, pilot certifications, operational standards, training standards, and any other rules within the 14 CFR Aeronautics and Space title, aka 14 CFR or FARs. The FAA also uses advisory circulars to officially recognize "acceptable means, but not the... 7c0f334b3d DO-178B/C assigned different sets of objectives to these two levels of... 7c0f334b3d Except for FAR 33/JAR E, the Federal Aviation Regulations do not directly reference software airworthiness. On 19 Jul 2013, the FAA approved AC 20-115C, designating DO-178C a recognized "acceptable means, but not the only means, for showing compliance with the applicable FAR airworthiness... 7c0f334b3d Line Replaceable Units (quickly replaceable components) 7c0f334b3d

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