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DEVELOPING SAFETY-CRITICAL SOFTWARE

A Practical Guide for Aviation Software and DO-178C Compliance

LEANNA RIERSON



**Developing Safety Critical Software A Practical Guide
For Aviation Software And Do 178c
Compliance**

**Stacy Nelson, Nasa Technical Reports
Server (Ntrs)**

Developing Safety Critical Software A Practical Guide For Aviation Software And Do 178c Compliance **Safety Critical Software**

Developing Safety-Critical Software Leanna Rierson, 2017-12-19 The amount of software used in safety critical systems is increasing at a rapid rate At the same time software technology is changing projects are pressed to develop software faster and more cheaply and the software is being used in more critical ways Developing Safety Critical Software A Practical Guide for Aviation Software and DO 178C Compliance equips you with the information you need to effectively and efficiently develop safety critical life critical and mission critical software for aviation The principles also apply to software for automotive medical nuclear and other safety critical domains An international authority on safety critical software the author helped write DO 178C and the U S Federal Aviation Administration s policy and guidance on safety critical software In this book she draws on more than 20 years of experience as a certification authority an avionics manufacturer an aircraft integrator and a software developer to present best practices real world examples and concrete recommendations The book includes An overview of how software fits into the systems and safety processes Detailed examination of DO 178C and how to effectively apply the guidance Insight into the DO 178C related documents on tool qualification DO 330 model based development DO 331 object oriented technology DO 332 and formal methods DO 333 Practical tips for the successful development of safety critical software and certification Insightful coverage of some of the more challenging topics in safety critical software development and verification including real time operating systems partitioning configuration data software reuse previously developed software reverse engineering and outsourcing and offshoring An invaluable reference for systems and software managers developers and quality assurance personnel this book provides a wealth of information to help you develop manage and approve safety critical software more confidently Development of Safety-Critical Systems Gopinath Karmakar, Amol Wakankar, Ashutosh Kabra, Paritosh Pandya, 2023-10-09 This book provides professionals and students with practical guidance for the development of safety critical computer based systems It covers important aspects ranging from complying with standards and guidelines to the necessary software development process and tools and also techniques pertaining to model based application development platforms as well as qualified programmable controllers After a general introduction to the book s topic in chapter 1 chapter 2 discusses dependability aspects of safety systems and how architectural design at the system level helps deal with failures and yet achieves the targeted dependability attributes Chapter 3 presents the software development process which includes verification and validation at every stage essential to the development of software for systems performing safety functions It also explains how the process helps in developing a safety case that can be independently verified and validated The subsequent chapter 4 presents some important standards and guidelines which apply to different industries and in different countries Chapter 5 then discusses the steps towards complying with the standards at every phase of development It offers a guided tour traversing the path of software

qualification by exploring the necessary steps towards achieving the goal with the help of case studies Chapter 6 highlights the application of formal methods for the development of safety systems software and introduces some available notations and tools which assist the process Finally chapter 7 presents a detailed discussion on the importance and the advantages of qualified platforms for safety systems application development including programmable controller PLC and formal model based development platforms Each chapter includes case studies illustrating the subject matter The book is aimed at both practitioners and students interested in the art and science of developing computer based systems for safety critical applications Both audiences will get insights into the tools and techniques along with the latest developments in the design analysis and qualification which are constrained by the regulatory and compliance requirements mandated by the applicable guides and standards It also addresses the needs of professionals and young graduates who specialize in the development of necessary tools and qualified platforms

Certification Processes for Safety-Critical and Mission-Critical Aerospace Software National Aeronautics and Space Administration, 2018-09-13 This document is a quick reference guide with an overview of the processes required to certify safety critical and mission critical flight software at selected NASA centers and the FAA Researchers and software developers can use this guide to jumpstart their understanding of how to get new or enhanced software onboard an aircraft or spacecraft The introduction contains aerospace industry definitions of safety and safety critical software as well as the current rationale for certification of safety critical software The Standards for Safety Critical Aerospace Software section lists and describes current standards including NASA standards and RTCA DO 178B The Mission Critical versus Safety Critical software section explains the difference between two important classes of software safety critical software involving the potential for loss of life due to software failure and mission critical software involving the potential for aborting a mission due to software failure The DO 178B Safety critical Certification Requirements section describes special processes and methods required to obtain a safety critical certification for aerospace software flying on vehicles under auspices of the FAA The final two sections give an overview of the certification process used at Dryden Flight Research Center and the approval process at the Jet Propulsion Lab JPL Nelson Stacy Ames Research Center CERTIFICATION COMPUTER PROGRAMS AEROSPACE SAFETY AIRCRAFT SAFETY AIRBORNE SPACEBORNE COMPUTERS FLIGHT SAFETY FAILURE *Software Development Tools for Safety-critical, Real-time Systems Handbook*, 2007

Certification Processes for Safety-Critical and Mission-Critical Aerospace Software Stacy Nelson, Nasa Technical Reports Server (Ntrs), 2013-08 This document is a quick reference guide with an overview of the processes required to certify safety critical and mission critical flight software at selected NASA centers and the FAA Researchers and software developers can use this guide to jumpstart their understanding of how to get new or enhanced software onboard an aircraft or spacecraft The introduction contains aerospace industry definitions of safety and safety critical software as well as the current rationale for certification of safety critical software The Standards for Safety Critical Aerospace Software section lists and describes

current standards including NASA standards and RTCA DO 178B The Mission Critical versus Safety Critical software section explains the difference between two important classes of software safety critical software involving the potential for loss of life due to software failure and mission critical software involving the potential for aborting a mission due to software failure The DO 178B Safety critical Certification Requirements section describes special processes and methods required to obtain a safety critical certification for aerospace software flying on vehicles under auspices of the FAA The final two sections give an overview of the certification process used at Dryden Flight Research Center and the approval process at the Jet Propulsion Lab JPL

An Agile Framework to Develop Safety Critical Software for Aircraft Duane Lee Bacon,2018 *Airborne Electronic Hardware Design Assurance* Randall Fulton,Roy Vandermolen,2017-08-01 Written by a Federal Aviation Administration FAA consultant designated engineering representative DER and an electronics hardware design engineer who together taught the DO 254 class at the Radio Technical Commission for Aeronautics Inc RTCA in Washington District of Columbia USA Airborne Electronic Hardware Design Assurance A Practitioner s Guide to RTCA DO 254 is a testimony to the lessons learned and wisdom gained from many years of first hand experience in the design verification and approval of airborne electronic hardware This practical guide to the use of RTCA DO 254 in the development of airborne electronic hardware for safety critical airborne applications Describes how to optimize engineering processes and practices to harmonize with DO 254 Addresses the single most problematic aspect of engineering and compliance to DO 254 poorly written requirements Includes a tutorial on how to write requirements that will minimize the cost and effort of electronic design and verification Discusses the common pitfalls encountered by practitioners of DO 254 along with how those pitfalls occur and what can be done about them Settles the ongoing debate and misconceptions about the true definition of a derived requirement Promotes embracing DO 254 as the best means to achieve compliance to it as well as the best path to high quality electronic hardware Airborne Electronic Hardware Design Assurance A Practitioner s Guide to RTCA DO 254 offers real world insight into RTCA DO 254 and how its objectives can be satisfied It provides engineers with valuable information that can be applied to any project to make compliance to DO 254 as easy and problem free as possible

Design and Safety Assessment of Critical Systems Marco Bozzano,Adolfo Villafiorita,2010-11-12 Safety critical systems by definition those systems whose failure can cause catastrophic results for people the environment and the economy are becoming increasingly complex both in their functionality and their interactions with the environment Unfortunately safety assessments are still largely done manually a time consuming and error prone

Model Based Specification for Developing Safety-critical System-software Anand K. Karasi,2000 *Planning the Unplanned Experiment* National Aeronautics and Space Adm Nasa,2019-01-14 We need well founded means of determining whether software is t for use in safety critical applications While software in industries such as aviation has an excellent safety record the fact that software aws have contributed to deaths illustrates the need for justi ably high con dence in software It is often argued that software is t for

safety critical use because it conforms to a standard for software in safety critical systems But little is known about whether such standards work Reliance upon a standard without knowing whether it works is an experiment without collecting data to assess the standard this experiment is unplanned This paper reports on a workshop intended to explore how standards could practicably be assessed Planning the Unplanned Experiment Assessing the Eacy of Standards for Safety Critical Software AESSCS was held on 13 May 2014 in conjunction with the European Dependable Computing Conference EDCC We summarize and elaborate on the workshop s discussion of the topic including both the presented positions and the dialogue that ensued NASA TM 2015 218804 L 20575 NF1676L 21790 Graydon Patrick J and Holloway C Michael Langley Research Center

A System-Theoretic Safety Engineering Approach for Software-Intensive Systems Asim Ali Ahmed Abdulkhaleq, 2017-02-23 Software safety is a crucial aspect during the development of modern safety critical systems However safety is a system level property and therefore must be considered at the system level to ensure the whole system s safety In the software development process formal verification and functional testing are complementary approaches which are used to verify the functional correctness of software however even perfectly reliable software could lead to an accident The correctness of software cannot ensure the safe operation of safety critical software systems Therefore developing safety critical software requires a more systematic software and safety engineering process that enables the software and safety engineers to recognize the potential software risks For this purpose this dissertation introduces a comprehensive safety engineering approach based on STPA for Software Intensive Systems called STPA SwISs which provides seamless STPA safety analysis and software safety verification activities to allow the software and safety engineers to work together during the software development for safety critical systems and help them to recognize the associated software risks at the system level

Development and Verification of Software for Flight Safety Critical Systems H. Afzali, A. Mattissek, LITEF DER HELIGE GMBH FREIBURG IM BREISGAU (GERMANY F R), 1991 In Flight Safety Critical Systems where the lives of people and or mission success is depending on errors in the Computer Software Components can have a catastrophic impact on the safety The requirements for the software development and maintenance of Flight Safety Critical systems differ in some aspects from the systems which do not fall into this category The reason for these requirement is to produce the right product at the very beginning of the system s usage and to ensure special attention is paid throughout the whole service life of the equipment The reliability and safety requirements can reach a point where testing alone is not sufficient Consequently adequate control mechanisms have to be applied The software configuration management quality control verification and validation must be rigorously adhered to For the development of the equipment software a set of development standards and additional procedures for the implementation of Safety Critical Functions are defined LITEF applied the standards and procedures for the development of the Inertial Measurement Unit which is a part of the Flight Control System and Seat Sequencer Unit which is part of the Ejection Seat In this paper some critical technology needs are described for supporting

the development and verification process of such systems and the activities which have to be performed during the development phases for identifying assessing and eliminating or minimizing hazards in a systematic way

Developments in Risk-based Approaches to Safety Felix Redmill, Tom Anderson, 2007-12-28 Developments in Risk based Approaches to Safety contains the invited papers presented at the Fourteenth annual Safety critical Systems Symposium held at Bristol UK in February 2006 The papers included in this volume address the most critical topics in the field of safety critical systems The focus this year considered from various perspectives is on recent developments in risk based approaches Subjects discussed include innovation in risk analysis management risk the safety case software safety language development and the creation of systems for complex control functions Papers provide a mix of industrial experience and academic research results and are presented under the headings Tutorial New Approaches to Risk Assessment Experience of Developing Safety Cases Management Influence on Safety Software Safety New Technologies in Safety critical Systems Adding Dimensions to Safety Cases

Achievement and Assurance of Safety Felix Redmill, Tom Anderson, 2012-12-06 Each year there are improvements in safety critical system technology These arise both from developments in the contributing technologies such as safety engineering software engineering human factors and risk assessment and from the adoption or adaptation of appropriate techniques from other domains such as security For these improvements to be of real benefit they need to be applied during the appropriate stage in the life cycle of the system whether it be development assessment or operation For this to occur they must be communicated and explained Each year the Safety critical Systems Symposium offers a distinguished forum for the presentation of papers on such developments and also for papers from industry on the lessons learned from the use of technologies and methods The results of many collaborative research projects with components from both industry and academia are reported in a universally understandable form In 1995 the Symposium was held in Brighton a venue calculated to stimulate not just the presenters of papers but all the delegates Yet this book of Proceedings is intended not only for the delegates but also for readers not able to attend the event itself We welcome both categories of reader Delegates have the benefit of attending the presentations and the opportunity to participate in the discussions those who take up this book after the event can peruse it at their leisure and perhaps on account of it will resolve to attend subsequent symposia

Safety Critical Systems: a Practical Guide Papini, 2026-04-08

A Quality Assurance Model for Airborne Safety-critical Software Habib A. El Sabbagh, 2006 Software applications in which failure may result in possible catastrophic consequences on human life are classified as safety critical These applications are widely used in a variety of fields and systems such as airborne systems nuclear reactors control and medical diagnostic equipment Unfortunately the world has seen several accidents and tragedies caused by software failure error or where such failure error was part of the problem This thesis looks into safety critical software embedded in airborne systems It proposes a lifecycle specially modeled for the development of safety critical software in aerospace and in compliance with the DO 178B standard and a software quality assurance SQA model based on a

set of four acceptance criteria that builds quality into safety critical software throughout its development The thesis also provides frameworks and guidelines for the implementation of the proposed SQA model in addition to sets of rules defining how to assess the software development with respect to the four acceptance criteria

An Integrated Formal Approach for Developing High Quality Software for Safety-critical Systems Meng Ouyang, M. Golay, Massachusetts Institute of Technology. Department of Nuclear Engineering. Program for Advanced Nuclear Power Studies, 1995

An Integrated Formal Approach for Developing Reliable Software of Safety-critical System Meng Ouyang, 1995

Safety-critical Systems F. Redmill, T. Anderson, Tom Anderson, 1993-02-28 Felix Redmill and Tom Anderson have edited one of the first books to appear on this vital subject This important volume covers the development of computer systems for use in safety critical applications the technologies used and the experience of those using them There are contributions from many leading experts in the field

Technology and Assessment of Safety-Critical Systems Felix Redmill, Tom Anderson, 2012-12-06 The programme for the Second Safety critical Systems Symposium was planned to examine the various aspects of technology currently employed in the design of safety critical systems as well as to emphasise the importance of safety and risk management in their design and operation assessment There is an even balance of contributions from academia and industry Thus industry is given the opportunity to express its views of the safety critical domain and at the same time offered a glimpse of the technologies which are currently under development and which if successful will be available in the medium term future In the field of technology a subject whose importance is increasingly being recognised is human factors and there are papers on this from the University of Hertfordshire and Rolls Royce Increasingly PLCs are being employed in safety critical applications and this domain is represented by contributions from Nuclear Electric and August Computers Then there are papers on maintainability Ada reverse engineering social issues formal methods and medical systems all in the context of safety And of course it is not possible to keep the new technologies out of the safety critical domain there are papers on neural networks from the University of Exeter and knowledge based systems from ERA Technology

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Safety Critical Software Introduction

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