RATIONALE

To provide a cybersecurity process framework and guidance to help organizations identify and assess cybersecurity threats and design cybersecurity into cyber-physical vehicle systems throughout the entire development lifecycle process.

- Defines a complete lifecycle process framework that can be tailored and utilized within each organization's development processes to incorporate cybersecurity into cyber-physical vehicle systems from concept phase through production, operation, service, and decommissioning.

- Provides high-level guiding principles.

- Provides information on existing tools and methods.

- Provides the foundation for further standards development.

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G-32 Cyber Physical Systems Security Committee

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Cybersecurity Guidebook for Cyber-Physical Vehicle Systems Vehicle Cybersecurity Systems Engineering Committee,2021 This recommended practice provides guidance on vehicle Cybersecurity and was created based off of and expanded on from existing practices which are being implemented or reported in industry government and conference papers The best practices are intended to be flexible pragmatic and adaptable in their further application to the vehicle industry as well as to other cyber physical vehicle systems e g commercial and military vehicles trucks busses Other proprietary Cybersecurity development processes and standards may have been established to support a specific manufacturer s development processes and may not be comprehensively represented in this document however information contained in this document may help refine existing in house processes methods etc This recommended practice establishes a set of high level guiding principles for Cybersecurity as it relates to cyber physical vehicle systems This includes Defining a complete lifecycle process framework that can be tailored and utilized within each organization s development processes to incorporate Cybersecurity into cyber physical vehicle systems from concept phase through production operation service and decommissioning Providing information on some common existing tools and methods used when designing verifying and validating cyber physical vehicle systems Providing basic guiding principles on Cybersecurity for vehicle systems Providing the foundation for further standards development activities in vehicle Cybersecurity The appendices provide additional information to be aware of and may be used in helping improve Cybersecurity of feature designs Much of the information identified in the appendices is available but some experts may not be aware of all of the available information Therefore the appendices provide an overview of some of this information to provide further guidance on building Cybersecurity into cyber physical vehicle systems The objective of the overviews is to encourage research to help improve designs and identify methods and tools for applying a company s internal Cybersecurity process Appendices A C Describe some techniques for Threat Analysis and Risk Assessment Threat Modeling and Vulnerability Analysis e g Attack Trees and when to use them Appendices D I Provide awareness of information that is available to the Vehicle Industry Appendix D Provides an overview of sample Cybersecurity and privacy controls derived from NIST SP 800 53 that may be considered in design phases Appendix E Provides references to some available vulnerability databases and vulnerability classification schemes Appendix F Describes vehicle level considerations including some good design practices for electrical architecture Appendix G Lists current Cybersecurity standards and guidelines of potential interest to the vehicle industry Appendix H Provides an overview of vehicle Cybersecurity related research projects starting from 2004 Appendix I Describes some existing security test tools of potential interest to the vehicle industry Refer to the definitions section to understand the terminology used throughout the document This SAE Recommended Practice is being stabilized because the technical committee has determined that the using community is moving towards newer technology processes and information that are called out in ISO SAE 21434 and

would like to alert users that this new technology exists which may want to be considered for new design SAE J3061 is being superseded by ISO SAE 21434 *Surface Vehicle Recommended Practice* ,2021 This recommended practice provides guidance on vehicle Cybersecurity and was created based off of and expanded on from existing practices which are being implemented or reported in industry government and conference papers The best practices are intended to be flexible pragmatic and adaptable in their further application to the vehicle industry as well as to other cyber physical vehicle systems e g commercial and military vehicles trucks busses Other proprietary Cybersecurity development processes and standards may have been established to support a specific manufacturer s development processes and may not be comprehensively represented in this document however information contained in this document may help refine existing in house processes methods etc This recommended practice establishes a set of high level guiding principles for Cybersecurity as it relates to cyber physical vehicle systems This includes Defining a complete lifecycle process framework that can be tailored and utilized within each organization s development processes to incorporate Cybersecurity into cyber physical vehicle systems from concept phase through production operation service and decommissioning Providing information on some common existing tools and methods used when designing verifying and validating cyber physical vehicle systems Providing basic guiding principles on Cybersecurity for vehicle systems Providing the foundation for further standards development activities in vehicle Cybersecurity The appendices provide additional information to be aware of and may be used in helping improve Cybersecurity of feature designs Much of the information identified in the appendices is available but some experts may not be aware of all of the available information Therefore the appendices provide an overview of some of this information to provide further guidance on building Cybersecurity into cyber physical vehicle systems The objective of the overviews is to encourage research to help improve designs and identify methods and tools for applying a company s internal Cybersecurity process Appendices A C Describe some techniques for Threat Analysis and Risk Assessment Threat Modeling and Vulnerability Analysis e g Attack Trees and when to use them Appendices D I Provide awareness of information that is available to the Vehicle Industry Appendix D Provides an overview of sample Cybersecurity and privacy controls derived from NIST SP 800 53 that may be considered in design phases Appendix E Provides references to some available vulnerability databases and vulnerability classification schemes Appendix F Describes vehicle level considerations including some good design practices for electrical architecture Appendix G Lists current Cybersecurity standards and guidelines of potential interest to the vehicle industry Appendix H Provides an overview of vehicle Cybersecurity related research projects starting from 2004 Appendix I Describes some existing security test tools of potential interest to the vehicle industry Refer to the definitions section to understand the terminology used throughout the document This SAE Recommended Practice is being stabilized because the technical committee has determined that the using community is moving towards newer technology processes and information that are called out in ISO SAE 21434 and would like to alert users that this new technology exists

which may want to be considered for new design SAE J3061 is being superseded by ISO SAE 21434 **Measurable and Composable Security, Privacy, and Dependability for Cyberphysical Systems** Andrea Fiaschetti,Josef Noll,Paolo Azzoni,Roberto Uribeetxeberria,2017-12-15 With a business baseline focused on the impact of embedded systems in the years ahead the book investigates the Security Privacy and Dependability SPD requirements raised from existing and future IoT Cyber Physical and M2M systems It proposes a new approach to embedded systems SPD the SHIELD philosophy that relies on an overlay approach to SPD on a methodology for composable SPD on the use of semantics and on the design of embedded systems with built in SPD The book explores new ground and illustrates the development of approximately forty prototypes capable of managing and enhancing SPD including secure boot trusted execution environments adaptable radio interfaces and different implementations of the middleware for measuring and composing SPD **Cybersecurity Guidebook for Cyber-physical Vehicle Systems** ,2016 **Springer Handbook of Automation** Shimon Y. Nof,2023-06-16 This handbook incorporates new developments in automation It also presents a widespread and well structured conglomeration of new emerging application areas such as medical systems and health transportation security and maintenance service construction and retail as well as production or logistics The handbook is not only an ideal resource for automation experts but also for people new to this expanding field <u>Automotive Cyber Security</u> Shiho Kim,Rakesh Shrestha,2020-09-24 This book outlines the development of safety and cybersecurity threats and activities in automotive vehicles This book discusses the automotive vehicle applications and technological aspects considering its cybersecurity issues Each chapter offers a suitable context for understanding the complexities of the connectivity and cybersecurity of intelligent and autonomous vehicles A top down strategy was adopted to introduce the vehicles intelligent features and functionality The area of vehicle to everything V2X communications aims to exploit the power of ubiquitous connectivity for the traffic safety and transport efficiency The chapters discuss in detail about the different levels of autonomous vehicles different types of cybersecurity issues future trends and challenges in autonomous vehicles Security must be thought as an important aspect during designing and implementation of the autonomous vehicles to prevent from numerous security threats and attacks The book thus provides important information on the cybersecurity challenges faced by the autonomous vehicles and it seeks to address the mobility requirements of users comfort safety and security This book aims to provide an outline of most aspects of cybersecurity in intelligent and autonomous vehicles It is very helpful for automotive engineers graduate students and technological administrators who want to know more about security technology as well as to readers with a security background and experience who want to know more about cybersecurity concerns in modern and future automotive applications and cybersecurity In particular this book helps people who need to make better decisions about automotive security and safety approaches Moreover it is beneficial to people who are involved in research and development in this exciting area As seen from the table of contents automotive security covers a wide variety of topics In addition to

being distributed through various technological fields automotive cybersecurity is a recent and rapidly moving field such that the selection of topics in this book is regarded as tentative solutions rather than a final word on what exactly constitutes automotive security All of the authors have worked for many years in the area of embedded security and for a few years in the field of different aspects of automotive safety and security both from a research and industry point of view **Advances in Security, Networks, and Internet of Things** Kevin Daimi,Hamid R. Arabnia,Leonidas Deligiannidis,Min-Shiang Hwang,Fernando G. Tinetti,2021-07-10 The book presents the proceedings of four conferences The 19th International Conference on Security Includes the tracks on security Features papers from SAM 20 ICWN 20 ICOMP 20 and ESCS 20

Systems, Software and Services Process Improvement Xabier Larrucea,Izaskun Santamaria,Rory V. O'Connor,Richard Messnarz,2018-08-22 This volume constitutes the refereed proceedings of the 25th European Conference on Systems Software and Services Process Improvement EuroSPI conference held in Bilbao Spain in September 2018 The 56 revised full papers presented were carefully reviewed and selected from 95 submissions They are organized in topical sections on SPI context and agility SPI and safety testing SPI and management issues SPI and assessment SPI and safety critical gamifySPI SPI in industry 4 0 best practices in implementing traceability good and bad practices in improvement safety and security experiences with agile and lean standards and assessment models team skills and diversity strategies SPI in medical device industry empowering the future infrastructure **Cybersecurity for Commercial Vehicles** Gloria D'Anna,2018 This book provides a thorough view of cybersecurity to encourage those in the commercial vehicle industry to be fully aware and concerned that their fleet and cargo could be at risk to a cyber attack **Cybersecurity for Commercial Vehicles** Gloria D. D'Anna,2018 This book provides a thorough view of cybersecurity to encourage those in the commercial vehicle industry to be fully aware and concerned that their fleet and cargo could be at risk to a cyber attack It delivers details on key subject areas including SAE International Standard J3061 the cybersecurity guidebook for cyber physical vehicle systems The differences between automotive and commercial vehicle cybersecurity Forensics for identifying breaches in cybersecurity Platooning and fleet implications Impacts and importance of secure systems for today and for the future Cybersecurity for all segments of the commercial vehicle industry requires comprehensive solutions to secure networked vehicles and the transportation infrastructure It clearly demonstrates the likelihood that an attack can happen the impacts that would occur and the need to continue to address those possibilities This multi authored presentation by subject matter experts provides an interesting and dynamic story of how industry is developing solutions that address the critical security issues the key social policy and privacy perspectives as well as the integrated efforts of industry academia and government to shape the current knowledge and future cybersecurity for the commercial vehicle industry Cybersecurity for Commercial Vehicles Gloria D'Anna,2018-08-28 This book provides a thorough view of cybersecurity to encourage those in the commercial vehicle industry to be fully aware and concerned that their fleet and cargo could be at risk to a cyber

attack It delivers details on key subject areas including SAE International Standard J3061 the cybersecurity guidebook for cyber physical vehicle systems The differences between automotive and commercial vehicle cybersecurity Forensics for identifying breaches in cybersecurity Platooning and fleet implications Impacts and importance of secure systems for today and for the future Cybersecurity for all segments of the commercial vehicle industry requires comprehensive solutions to secure networked vehicles and the transportation infrastructure It clearly demonstrates the likelihood that an attack can happen the impacts that would occur and the need to continue to address those possibilities This multi authored presentation by subject matter experts provides an interesting and dynamic story of how industry is developing solutions that address the critical security issues the key social policy and privacy perspectives as well as the integrated efforts of industry academia and government to shape the current knowledge and future cybersecurity for the commercial vehicle industry

Cybersecurity Michael J Harrison,2022-12-14 Do you want to work in cybersecurity Do you want to find out what framework will work best for your company Are you unsure of your next steps and looking for the best approach to advance in cybersecurity This cybersecurity book should make it easier for you to comprehend your options and put them into practical perspective The main focus of the manual is to thoroughly explain the core concepts of security so that you may lay a solid security foundation Before delving into some of the complexities of security as a cybersecurity professional it is imperative to have a clear understanding of the core security objectives A few essential ideas are also required by organizations as part of their primary security goals These principles will serve as the foundation for many security related choices at many levels This book helps beginners comprehend and forge a solid career in the field of cybersecurity by exploring all the cybersecurity risks and vulnerabilities faced by businesses and how to tackle them **Security of Cyber-Physical Systems** Hadis Karimipour,Pirathayini Srikantha,Hany Farag,Jin Wei-Kocsis,2020-07-23 This book presents a comprehensive overview of security issues in Cyber Physical Systems CPSs by analyzing the issues and vulnerabilities in CPSs and examining state of the art security measures Furthermore this book proposes various defense strategies including intelligent attack and anomaly detection algorithms Today s technology is continually evolving towards interconnectivity among devices This interconnectivity phenomenon is often referred to as Internet of Things IoT IoT technology is used to enhance the performance of systems in many applications This integration of physical and cyber components within a system is associated with many benefits these systems are often referred to as Cyber Physical Systems CPSs The CPSs and IoT technologies are used in many industries critical to our daily lives CPSs have the potential to reduce costs enhance mobility and independence of patients and reach the body using minimally invasive techniques Although this interconnectivity of devices can pave the road for immense advancement in technology and automation the integration of network components into any system increases its vulnerability to cyber threats Using internet networks to connect devices together creates access points for adversaries Considering the critical applications of some of these devices adversaries have the potential of

exploiting sensitive data and interrupting the functionality of critical infrastructure Practitioners working in system security cyber security security and privacy will find this book valuable as a reference Researchers and scientists concentrating on computer systems large scale complex systems and artificial intelligence will also find this book useful as a reference

Cyber Security for Cyber Physical Systems Saqib Ali,Taiseera Al Balushi,Zia Nadir,Omar Khadeer Hussain,2018-03-06 This book is a pioneering yet primary general reference resource on cyber physical systems and their security concerns Providing a fundamental theoretical background and a clear and comprehensive overview of security issues in the domain of cyber physical systems it is useful for students in the fields of information technology computer science or computer engineering where this topic is a substantial emerging area of study *Safety and Security of Cyber-Physical Systems* Frank J. Furrer,2022-07-20 Cyber physical systems CPSs consist of software controlled computing devices communicating with each other and interacting with the physical world through sensors and actuators Because most of the functionality of a CPS is implemented in software the software is of crucial importance for the safety and security of the CPS This book presents principle based engineering for the development and operation of dependable software The knowledge in this book addresses organizations that want to strengthen their methodologies to build safe and secure software for mission critical cyber physical systems The book Presents a successful strategy for the management of vulnerabilities threats and failures in mission critical cyber physical systems Offers deep practical insight into principle based software development 62 principles are introduced and cataloged into five categories Business Provides direct guidance on architecting and operating dependable cyber physical systems for software managers and architects **Cyber-Physical Systems Security Engineering Plan (CPSSEP)** G-32 Cyber Physical Systems Security Committee,2022 This SAE Standard establishes practices to aManage risk and ensure security of a cyber physical system CPS throughout its life cycle by utilizing systems engineering principles bAssess the impact of cyber physical systems security CPSS objectives and requirements cAssess the security risks to CPS technical effectiveness and functions and address weaknesses and vulnerabilities dAddress various domains of consideration see 3 1 that take into account operating conditions of the system command and control configuration management refer to SAE EIA649 etc that could negatively impact CPSS or CPS designed purpose ePerform design validation and verification to assess security and risk of the CPS The cyber physical systems security engineering plan CPSSEP is a framework standard that integrates cybersecurity into a cyber physical system CPS throughout the entire system s engineering life cycle The CPSSEP assists with preserving and protecting cyber physical systems against exploits of weaknesses and vulnerabilities that if compromised jeopardize the business or mission objectives of the CPS This standard leverages and builds upon applicable existing standards accepted practices and bodies of knowledge across industry and government sectors *Safe and Secure Cyber-Physical Systems and Internet-of-Things Systems* Marilyn Wolf,Dimitrios Serpanos,2019-09-24 This book provides the first comprehensive view of safe and secure CPS and IoT systems The authors

address in a unified manner both safety physical safety of operating equipment and devices and computer security correct and sound information which are traditionally separate topics practiced by very different people Offers readers a unified view of safety and security from basic concepts through research challenges Provides a detailed comparison of safety and security methodologies Describes a comprehensive threat model including attacks design errors and faults Identifies important commonalities and differences in safety and security engineering   **DOD NIST 800-171 and 171A Compliance Guidebook ~ 2nd Edition** Mark A. Russo CISSP-ISSAP CISO,2018-07-02 SOME MAJOR CHANGES TO NIST 800 171 ALL IN THIS BOOKIn June 2018 the NIST issued NIST 800 171A Assessing Security Requirements for Controlled Unclassified Information It increased the challenges and some what the complexities of current federal and especially for the Department of Defense DOD efforts to better secure the national cybersecurity environment It added another 298 sub controls SUB CTRL that may also be described as a Control Correlation Identifier CCI They provide a standard identifier and description for each of a singular and actionable statement that comprises a general cybersecurity control These sub controls provide added detail and granularity that bridge the gap between high level policy expressions and low level implementations The ability to trace security requirements from their original high level control to its low level implementation allows organizations to demonstrate compliance The impacts of this update are currently unknown and will likely be implemented at the direction of the federal agency and contract office whether these additional sub controls are answered in part or in total as part of a company s self assessment responses to this change to NIST 800 171 No matter how any federal agency interprets and executes NIST 800 171 with with 171AA contractually the information in THIS book is a significant supplement to the NIST 800 171 evolution The information provides the reader with the latest information to answer the control requirements with needed specificity to meet the goal of a compliant and secure NIST 800 171 Information Technology IT environment

    Cybersecurity and Privacy in Cyber Physical Systems Yassine Maleh,Abdelkrim Haqiq,2019 Cybersecurity and Privacy in Cyber Physical Systems collects and reports on recent high quality research that addresses different problems related to cybersecurity and privacy in cyber physical systems CPSs It Presents high quality contributions addressing related theoretical and practical aspects Improves the reader s awareness of cybersecurity and privacy in CPSs Analyzes and presents the state of the art of CPSs cybersecurity and related technologies and methodologies Highlights and discusses recent developments and emerging trends in cybersecurity and privacy in CPSs Proposes new models practical solutions and technological advances related to cybersecurity and privacy in CPSs Discusses new cybersecurity and privacy models prototypes and protocols for CPSs This comprehensive book promotes high quality research by bringing together researchers and experts in CPS security and privacy from around the world to share their knowledge of the different aspects of CPS security Cybersecurity and Privacy in Cyber Physical Systems is ideally suited for policymakers industrial engineers researchers academics and professionals seeking a thorough understanding of the principles of cybersecurity and privacy in

CPSs They will learn about promising solutions to these research problems and identify unresolved and challenging problems for their own research Readers will also have an overview of CPS cybersecurity and privacy design P Discusses new cybersecurity and privacy models prototypes and protocols for CPSs This comprehensive book promotes high quality research by bringing together researchers and experts in CPS security and privacy from around the world to share their knowledge of the different aspects of CPS security Cybersecurity and Privacy in Cyber Physical Systems is ideally suited for policymakers industrial engineers researchers academics and professionals seeking a thorough understanding of the principles of cybersecurity and privacy in CPSs They will learn about promising solutions to these research problems and identify unresolved and challenging problems for their own research Readers will also have an overview of CPS cybersecurity and privacy design **Handbook of System Safety and Security** Edward Griffor,2016-10 Handbook of System Safety and Security Cyber Risk and Risk Management Cyber Security Adversary Modeling Threat Analysis Business of Safety Functional Safety Software Systems and Cyber Physical Systems presents an update on the world s increasing adoption of computer enabled products and the essential services they provide to our daily lives The tailoring of these products and services to our personal preferences is expected and made possible by intelligence that is enabled by communication between them Ensuring that the systems of these connected products operate safely without creating hazards to us and those around us is the focus of this book which presents the central topics of current research and practice in systems safety and security as it relates to applications within transportation energy and the medical sciences Each chapter is authored by one of the leading contributors to the current research and development on the topic The perspective of this book is unique as it takes the two topics systems safety and systems security as inextricably intertwined Each is driven by concern about the hazards associated with a system s performance Presents the most current and leading edge research on system safety and security featuring a panel of top experts in the field Includes several research advancements published for the first time including the use of goal structured notation together with a judgment calculus and their automation as a rule set to facilitate systems safety and systems security process execution in compliance with existing standards Presents for the first time the latest research in the field with the unique perspective that systems safety and systems security are inextricably intertwined Includes coverage of systems architecture cyber physical systems tradeoffs between safety security and performance as well as the current methodologies and technologies and implantation practices for system safety and security

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