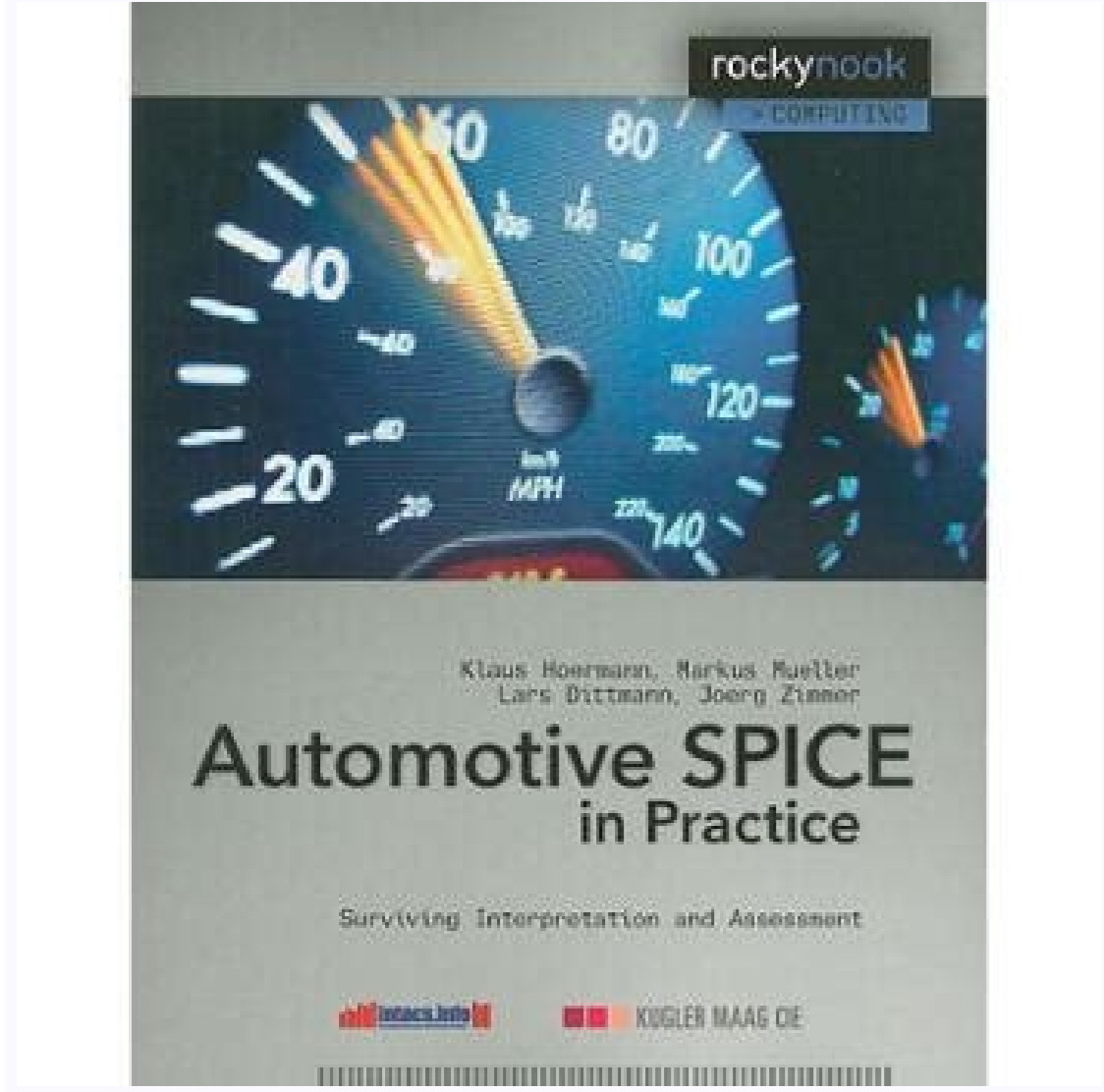
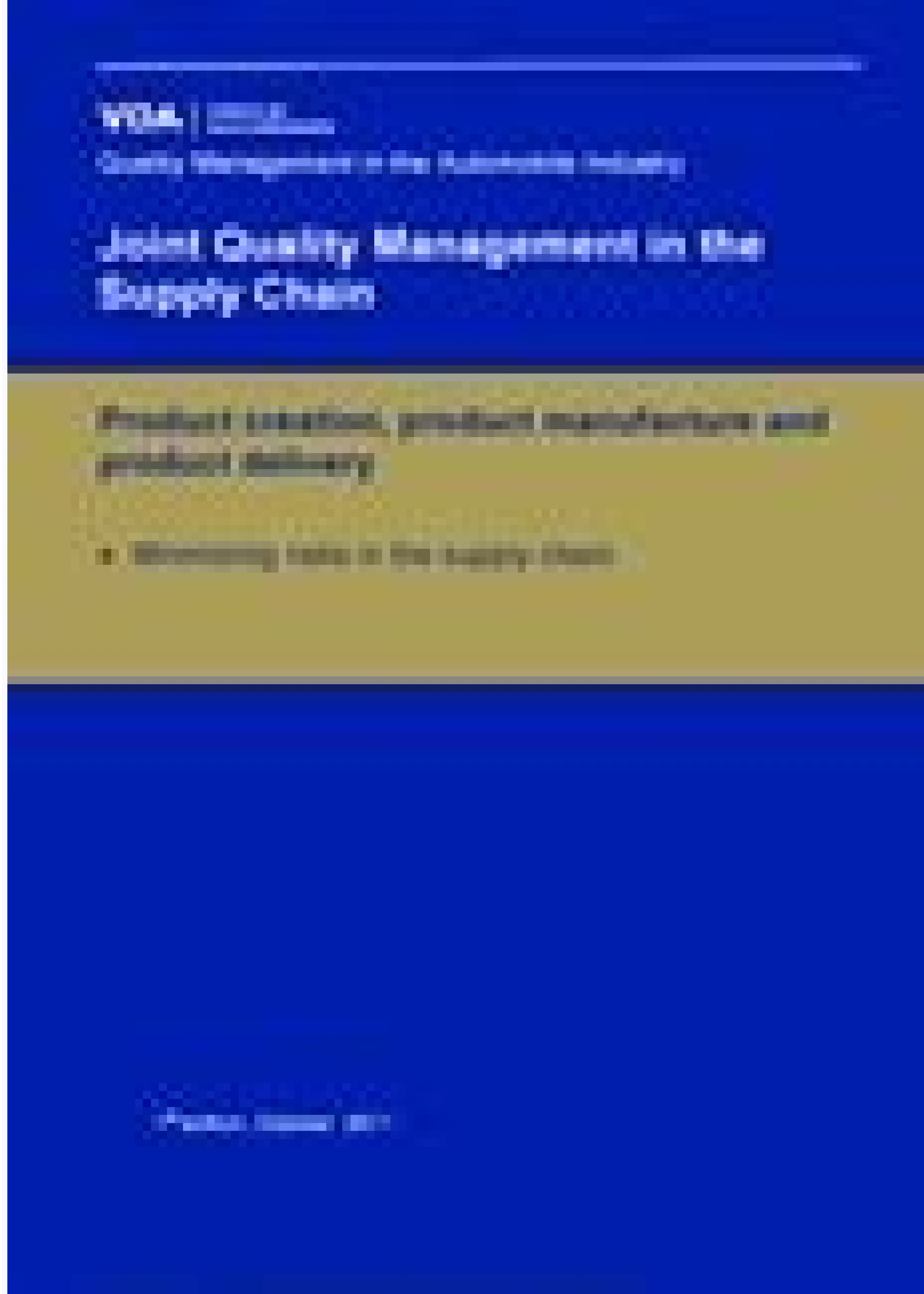


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The predominant and continually increasing number of innovative vehicle functions related to user-friendliness, safety, security and the protection of the environment by economic efficiency can only be achieved by the introduction of complex and highly-networked software systems. Market demands require permanent innovations with increasing complexity within shorter time frames. Together with rising demand for reliability, the shorter development periods make it essential to improve the software development processes and methods for product creation so as to ensure the development and manufacturing of products in time and in the quality which satisfies customer's expectations. In 2005 the Automotive Special Interest Group published the automotive domain specific "Automotive SPICE Process Assessment Model" and "Automotive SPICE Process Reference Model" derived from the ISO/IEC 15504 International Standard for Process Assessments. Between 2012 and 2015 the "Automotive SPICE Process Assessment Model" Version 2.5 and "Automotive SPICE Process Reference Model" Version 4.5 was significantly reworked by the VDA QMC working group 13. This was based on a mandate of the VDA Quality management board to take appropriate steps to improve the quality and comparability of assessment results. In July 2015 the Automotive SPICE process reference and assessment model version 3.0 was released in a combined document that is improved regarding the structure of the processes with added clarifications, additional concepts and by removing inconsistencies. A version 3.1 with minor updates will be available with the publication of this document. The "Automotive SPICE Process Assessment Model"

is increasingly used within the global automotive industry for the objective evaluation of processes and the subsequent improvement of processes at project and organization level. The objective in drawing up this document was to support the interpretation and application of the automotive industry and to provide recommendations to increase the comparability of assessments results. Format – English Categories Process Management This training provides an introduction into the new „VDA Automotive SPICE® Guidelines“ published in 2017. Examples and exercises will give an insight into the guidelines and their application from a competent assessor’s point of view as well as from project members point of view. This training course gives room for discussions of challenges during an assessment when you have to apply the guidelines and how to deal with these challenges. The content of this training course reflects the syllabus developed by VDA and intacs™ and the training will be conducted with officially created material from intacs™: Requirements for the assessor qualification Brief overview of content and concept of the „VDA Automotive SPICE® Guidelines“Definition of the VDA-Scope Purpose and structure of rules and recommendation in the guideline Aggregation of ratings Definition of the assessment scope and templates for different use cases of the scope definition in an assessment Idea of consistency Exemplary rating rules and recommendations forthe processes of the VDA scope the specific environments defined in the guidelines the specific terms defined in the guidelines Capability Level 2 and 3 The course consists of lectures, exercises and discussions and offers ample opportunity for asking questions and exchanging experiences. Target audience intacs™ Certified Provisional, Competent or Principal Assessors for Automotive SPICE® Prerequisites Experiences in the application of Automotive SPICE® First experiences in rating processes (e.g. as co-assessor in an assessment or internal process ratings). Several years professional experience in the domain of IT (e.g. software or systems development, project management, quality management or alike). This course is exclusively taught by experienced intacs™ certified instructors with extensive experience in the practical implementation of assessments in accordance with Automotive SPICE®. The price of this seminar includes the “Automotive SPICE® v3.1 Pocket Guide” and the VDA QMC Bluegold print “Automotive SPICE® Guidelines”. Page 2 Contact us You want to know more about our offer? +49 9131 97206-0 IASPACE GUIDE SPICE GUIDE 3rd Edition 2020 ■ INTRODUCTION TO AUTOMOTIVE SPICE® ■ AUTOMOTIVE SPICE® V3.1 (extended VDA scope) ■ MECHANICAL ENGINEERING SPICE V1.4 ■ AUTOMOTIVE SPICE® GUIDELINES (derived from VDA Automotive SPICE Guidelines 1st Edition 2017) ■ ASSESSMENT GUIDELINESASPACE GUIDETable of contents Automotive SPICE and Functional Safety 26 Automotive SPICE and Cybersecurity 28 AUTOMOTIVE SPICE PROCESSES MAN.3 Project Management 1.3 31 MAN.5 Risk Management 2 36 REU.2 Reuse Program Management 38 ACQ.4 Supplier Monitoring 1.3 40 SUP.1 Quality Assurance 1.3 44 SUP.2 Verification 2 48 SUP.4 Joint Review 2 50 SUP.7 Documentation 2 54 SUP.8 Configuration Management 1.3 56 SUP.9 Problem Resolution Management 1.3 60 SUP.10 Change Request Management 1.3 62 SPL.2 Product Release 2 68 SYS.1 Requirements Elicitation 2 72 SYS.2 System Requirements Analysis 1.3 76 SYS.3 System Architectural Design 1.3 80 SYS.4 System Integration & Integr. 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The SPICE guide contains 4 main sections: 1. An introduction to Automotive SPICE and how to apply it together with agile methods and concepts for functional safety and cybersecurity 2. The processes of Automotive SPICE and Mechanical Engineering SPICE. Red is assigned to supporting, Black to system level, Blue to subdomain level, Green to component level 3. The process attributes and generic practices for capability level 1 to 3 4. An assessment guide including templates, guidelines and requirements In addition, numerous diagrams reflecting the rating guidelines and dependencies between the elements. How to read this SPICE GuideASPACE GUIDEAutomotive SPICE® Guidelines - Rating Consistency Diagrams Practice (relevant for actual process) Practice or process (outside of the actual process) The practice rating depends on ... based on the rule 5 (RL.5) of the related process (or process attribute) in the Automotive SPICE® Guideline The practice rating depends on ... based on the recommendation 5 (RC.5) of the related process (or process attribute) in the Automotive SPICE® Guideline The practice rating depends on ... based on the content of the base practice or based on an additional recommendation by an expert team The bidirectional traceability and consistency between the outputs are required by base practices MAN.3 BP1: The first base practice of the process is underlined to support an easy start of analysis 5 5 The VDA (“Verband der Automobilindustrie”) published Automotive SPICE® Guidelines 1st Edition 2017. The Rating Consistency diagrams have been derived from this set of rules, recommendations and overviews, which reflect the rating consistency rules and recommendations of the publication and provide an overview of the key dependencies. The Rating Consistency Diagrams have been reviewed carefully. You will find the relevant diagram immediately following each of the VDA scope process definition6ASPACE GUIDEWWhy process quality? ASPICE supports the quality of your daily processes Increase quality ■ Work products (WPs) are based on qualified input ■ WPs are verified and validated based on criteria ■ WPs are produced as planned and scheduled ■ Organizational Learning due to improved standards Reduce cost ■ Early identification and correction of lacks ■ Proven processes and templates; experienced team ■ Transparent and smooth progress ■ Do it right the first time ■ Less duplicated work, re-work and extra work ■ Productivity increase Manage risks and complexity ■ Manage risks effectively and in time ■ Develop increasing functionality in reduced time Meet customers expectation - current and future business ■ Avoid penalty (payments and/or high awareness) ■ Win quotations (positive supplier ranking, flexibility) For your own sake ■ ■ ■ ■ ■ 7ASPACE GUIDEHHow effective are your processes? WHAT MATCHES BEST? Reduction of quality cost ■ Fewer quality issues and lower warranty cost ■ Early error identification and correction ■ Global learning and prevention Managed risks ■ Early risk identification ■ Systemic risk tracking and mitigation ■ Certifications are easy to achieve Increase of productivity ■ People concentrate on their tasks efficiently ■ Templates and tools are aligned to standards ■ Limited maintenance cost for standard tools Customer Satisfaction ■ Flexibility within distributed development ■ Detailed insight into progress and status ■ Easy adaption of products, standards, and tools to project and culture needs ■ Increasing number of quality issues ■ Poor rectification of root causes ■ Checks are late or incomplete ■ Poor / unknown product component mature ■ Problems appear suddenly ■ Reputation drops ■ Certifications are missing or at risk ■ New bids are hard to win (e.g. for Safety) ■ Fire fighting ■ Unclear responsibilities ■ Priority hopping ■ Poor tool alignment to specific ways of working ■ Internal and external deliverables are late, incomplete, or of poor quality ■ Deliveries are difficult to integrate ■ Needed flexibility results in extraordinary cost or or or8ASPACE GUIDEHHow to benefit from Automotive SPICE® ■ Identification of development risks and capabilities associated with suppliers of mechatronic systems ■ Identification of risks and capabilities in your own development ■ Benchmarking for strengths and potentials of development processes of a project or an organizational unit ■ Evaluation of implemented process changes ■ Improve transparency, quality and productivity by clarifying and tracking the responsibilities within the development FIX THE PROCESS TO ACHIEVE QUALITY9ASPACE GUIDE INTRODUCTION TO AUTOMOTIVE SPICE10ASPACE GUIDE HWE.4HWE.3 Automotive SPICE Scope And Plug-In Concept SYS System Engineering HWE Hardware Engineering SWE Software Engine

25/03/2019 - www.csq.cz Doporučené čtení • Automotive SPICE Guidelines, VDA 1st Edition 2017, 21.03.2019 Lucie Nová: Automotive SPICE 27 28. www.csq.cz www.csq.cz Děkuji vám Lucie Nová, lucie.nova@itprocesy.cz 20/08/2019 ·なので、より詳細なガイドブックが提供されています。こちらは有償です。 . A-SPICEを出しているVDAという会社が発版しています。 . その通称がBlue-goldです。 . 本の色が青と金色だから、みたくです。 . 英語版 (50ユーロ) . Automotive SPICE ...

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