

IBM Engineering Lifecycle Management Automotive Compliance 1.0.3 helps streamline adherence to UN R155 and ISO/SAE 21434 for cybersecurity

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At a glance

IBM[®] Engineering Lifecycle Management Automotive Compliance streamlines compliance to the automotive industry standards by adopting best practices from Scaled Agile Framework (SAFe) for agility and systems engineering for managing complexity and improving quality.

Version 1.0.3 brings the following enhancements:

- Helps automotive companies streamline compliance with the UN R155 and ISO/SAE 21434 for cybersecurity, in addition to Automotive Software Process Improvement and Capability Determination (ASPICE) and ISO 26262 which were supported in earlier releases of Engineering Lifecycle Management Automotive Compliance
- Helps teams perform Threat Assessment and Remediation Analysis (TARA) and manage product development by using advanced engineering practices

Overview

Engineering Lifecycle Management Automotive Compliance is a predefined solution that complements IBM Engineering Lifecycle Management for streamlining compliance to the automotive industry standards.

Engineering Lifecycle Management Automotive Compliance 1.0.3 helps automotive companies streamline compliance to the UN R155 and ISO/SAE 21434 for cybersecurity in addition to ASPICE and ISO 26262. The solution helps teams perform TARA for cybersecurity risk assessment and manage product development using advanced engineering practices.

Engineering Lifecycle Management Automotive Compliance is delivered as a set of flexibly customizable artifacts that can be deployed into Engineering Lifecycle Management. Version 1.0.3 offers an enhanced solution that contains three types of assets:

1. Process guidance on how to perform activities recommended in ISO/SAE 21434 by using the Engineering Lifecycle Management Automotive Compliance solution
2. Templates to setup project areas that are designed to make it easy and efficient for teams to follow the processes
3. Reports to track the progress and compliance status of projects

The solution guides your teams on how threat analysis, requirements, architecture, testing, and workflow work well together because they are based on a linked information model that integrates industry standards and vocabulary. A common information model simplifies the process of traceability by using prescriptive guidance to establish these defined relationships. This process enables a set of reports that validate coverage and gaps within these links, identifying compliance state and work item progress to predict release readiness.

Engineering Lifecycle Management Automotive Compliance solution helps teams implement best practices from the real world. Its content is developed in accordance with to ongoing industry transformation, combining established agile process frameworks with an industry regulation-oriented design. The solution provides a more flexible and responsive working model by translating agile patterns into a usable implementation, enabling automotive companies to accelerate and transform their development processes.

The ready-to-use, built-in process guidance enables engineering teams to establish standardized processes across departments and companies, which helps reduce the time that teams need to define mature processes in vehicle systems engineering and development. This results in less time and costs required to achieve compliance and greater acceptance among development teams.

Engineering Lifecycle Management Automotive Compliance 1.0.3 helps reduce the costs for audit preparation and compliance with automotive standards and enables product teams to spend more time focusing on product innovation.

Key requirements

Engineering Lifecycle Management Automotive Compliance is a set of artifacts that can be imported into the Engineering Lifecycle Management solution. It introduces no additional hardware prerequisites.

Engineering Lifecycle Management 7.0.2 with iFix007, or later, is a software prerequisite.

Engineering Lifecycle Optimization - Method Composer 7.6.2 with iFix006, or later, is a software prerequisite.

Planned availability date

September 30, 2021

Description

Engineering Lifecycle Management Automotive Compliance 1.0.3 offering extends the existing:

- Process content:
 - IBM Engineering Lifecycle Optimization - Method Composer process content is extended to contain guidance for cybersecurity and automotive compliance solution mapping for UN R155 and ISO/SAE 21434.
 - Method Composer web authoring template and library package enables customization of the ready-to-use process content to meet organizational or team requirements.
- Templates:
 - For Engineering Requirements Management -DOORS^(R) Next, the offering introduces new artifacts to perform TARA, define cybersecurity goals and claims, and manage cybersecurity requirements.

- For Engineering Workflow Management, the offering provides the capability to create a cybersecurity plan, manage vulnerabilities identified during the lifecycle, and capture cybersecurity events.
- For Engineering Test Management, the offering introduces test assets to show test activities for verification and validation of cybersecurity requirements and claims.
- Reporting package:
 - Jazz^(R) Reporting Service (JRS) reports that show:
 - Traceability and gaps of key TARA artifacts.
 - Downstream and upstream coverage and traceability gaps of cybersecurity goals, claims, and requirements.
 - Track status of in-progress work to implement cybersecurity requirements. These work items reflect the state of the related engineering process groups (such as risk, reviews, change requests).
 - Publishing Engine (PUB) reports that highlight inconsistencies in TARA
 - Engineering Insights (ENI) views for a live view on release readiness status of cybersecurity requirements and claims based on test execution status

The Engineering Lifecycle Management Automotive Compliance solution is designed as a quick start solution that can help accelerate project initiation. It is based on a subset of industry best practices to meet the needs of most clients. The offering is designed to be a baseline that can evolve and extend to meet specific requirements and individual client needs.

The offering can be deployed and customized by skilled client personnel, IBM Services^(R), or IBM partners that have experience in tool distribution and the automotive industry.

Accessibility by people with disabilities

Accessibility Compliance Reports (previously known as a VPAT) containing details on accessibility compliance to standards, including the Worldwide Consortium Web Content Accessibility Guidelines, European Standard EN 301 349, and US Section 508, can be found on the [IBM Accessibility Conformance Report Request](#) website.

Reference information

For more information about IBM Engineering Lifecycle Management, see Software Announcement [219-472](#), dated December 10, 2019, and Software Announcement [220-294](#), dated July 7, 2020.

Program number

Program number	VRM	Program name
5724-G52	7.6.2	IBM Engineering Lifecycle Optimization - Method Composer

Offering Information

Product information is available on the [IBM Offering Information](#) website.

More information is also available on the [Passport Advantage^{\(R\)}](#) and [Passport Advantage Express](#) website.

Publications

None

Services

Software Services

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Technical information

Specified operating environment

Hardware requirements

For details, see the [Hardware Product Compatibility Reports](#) website.

Software requirements

For details, see the [Software Product Compatibility Reports](#) website.

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Planning information

Packaging

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There is no new ordering information in this release.

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The charge metrics for this licensed product can be found in the following License Information document:

Program identifier	License Information document title	License Information document number
5724-G52	IBM Engineering Lifecycle Optimization - Method Composer	L-AXDN-BTWQGU

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Program identifier	License Information document title	License Information document number
5724-G52	IBM Engineering Lifecycle Optimization - Method Composer	L-AXDN-BTWQGU

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Volume orders (IVO)

No

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Variable charges apply

No

Educational allowance available

Not applicable.

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