

# IBM Engineering Systems Design Rhapsody - AUTOSAR Extension 9.0.1 enables automotive engineers to deliver complex automotive capabilities that comply with Classic and Adaptive AUTOSAR

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## Overview

IBM<sup>®</sup> Engineering Systems Design Rhapsody<sup>®</sup> 9.0.1 and its family of products offer a robust solution for modeling and systems design activities that enables organizations to better manage the complexity of product and systems development. Rhapsody is part of the IBM Engineering portfolio that provides a collaborative design development, with a test environment for systems engineers that supports Unified Modeling Language (UML), Systems Modeling Language (SysML), and Unified Architecture Framework (UAF).

### New in IBM Engineering Systems Design Rhapsody - AUTOSAR extension 9.0.1

Automotive original equipment manufacturers (OEMs) and their suppliers are increasingly deploying AUTOSAR as their main open and standardized software architecture for automotive electronic control units (ECUs). Engineering Systems Design Rhapsody - AUTOSAR extension helps your teams to accelerate the development and delivery of advanced automotive features in both Classic and Adaptive AUTOSAR platforms without being experts in AUTOSAR.

IBM's solution leverages model-based systems engineering (MBSE) and model-based software engineering to provide a graphical, yet formal, design environment that enables engineers to focus on their respective application layer by using standard graphical notations. This new capability generates production code and the respective AUTOSAR XML (ARXML) files that are compliant with Motor Industry Software Reliability Association (MISRA), both of which are required to comply with AUTOSAR and its toolchains. This enables the automotive engineers to focus on the application domain, with early analysis, design and development, simulation, early testing, and so on, while automating the mundane aspects of AUTOSAR.

Some of the main capabilities in the IBM Engineering Systems Design Rhapsody - AUTOSAR extension include:

- Support for a typical OEM workflow. Capability to convert the relevant parts of SysML and UML models into AUTOSAR by leveraging a customizable, rules-based extraction of the architecture.
- Support for a typical supplier workflow. Generates software components for Classic platform and applications for Adaptive platform by leveraging UML diagrams.
- Flexibility to delay or retarget implementation decisions to either Classic or Adaptive platform.

- Support for a development process that enables a single design to be mapped into multiple ECUs, with some based on Classic platform and others based on the Adaptive platform.

IBM Engineering Systems Design Rhapsody - AUTOSAR extension also integrates with the Engineering Lifecycle Management solution, including requirements, workflow or work-items management, testing, and bidirectional traceability across all the development artifacts. Additionally, it integrates with other AUTOSAR authoring tools.

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## Key requirements

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The IBM Engineering Systems Design Rhapsody - AUTOSAR extension is an extension to IBM Engineering Systems Design Rhapsody - Designer and IBM Engineering Systems Design Rhapsody - Developer editions. For details, see the [Software requirements](#) section of this announcement.

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## Planned availability date

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December 14, 2021

Availability within a country is subject to local legal requirements.

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## Accessibility by people with disabilities

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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.

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## Reference information

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For more information about IBM Engineering Lifecycle Management, see Software Announcement [ZP20-0365](#), dated July 7, 2020.

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## Program number

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Program number	VRM	Program name
5724-X70	9.0.1	IBM Engineering Systems Design Rhapsody

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## Publications

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None

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## Services

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### IBM Systems Lab Services

Systems Lab Services offers infrastructure services to help build hybrid cloud and enterprise IT solutions. From servers to storage systems and software, Lab Services can help deploy the building blocks of a next-generation IT infrastructure to empower a client's business. Lab Services consultants can perform infrastructure

services for clients online or onsite, offering deep technical expertise, valuable tools, and successful methodologies. Lab Services are designed to help clients solve business challenges, gain new skills, and apply best practices.

Lab Services offers a wide range of infrastructure services for IBM Power<sup>(R)</sup> servers, IBM Storage systems, IBM Z<sup>(R)</sup>, and IBM LinuxONE. Lab Services has a global presence and can deploy experienced consultants online or onsite around the world.

For assistance, contact Systems Lab Services at [ibmsls@us.ibm.com](mailto:ibmsls@us.ibm.com).

To learn more, see the [IBM Systems Lab Services](#) website.

### **IBM Consulting**

As transformation continues across every industry, businesses need a single partner to map their enterprise-wide business strategy and technology infrastructure. IBM Consulting is the business acceleration partner to help cocreate change across an organization. IBM specialists can help businesses succeed through finding collaborative ways of working that forge connections across people, technologies, and partner ecosystems. IBM Consulting brings together the business expertise and an ecosystem of technologies that help solve some of the biggest problems faced by organizations. With methods that get results faster, an integrated approach, that is grounded in an open and flexible hybrid cloud architecture, and incorporating technology from IBM Research<sup>(R)</sup> and IBM Watson<sup>(R)</sup> AI, IBM Consulting enables businesses to lead change with confidence and deliver continuous improvement across a business and its bottom line.

For additional information, see the [IBM Consulting](#) website.

### **IBM Technology Support Services (TSS)**

Get preventive maintenance, onsite and remote support and gain actionable insights into critical business applications and IT systems. Speed developer innovation with end-to-end support for over 240 open-source packages. Leverage powerful IBM analytics and AI-enabled tools to enable client teams to manage IT problems before they become emergencies.

The TSS offers extensive IT maintenance and support services that cover more than one niche of a client's environment. TSS covers products from IBM and other OEMs, including servers, storage, network, appliances, and software to help clients ensure high availability across their data center and hybrid cloud environment.

For details on available services, see the [Technology support for hybrid cloud environments](#) website.

### **IBM TechU**

Improve your knowledge in hybrid cloud and AI solutions. IBM TechU provides the most recent content so that you can learn, engage, and increase your skills with IBM Technology specialists.

A one-year, renewable membership TechU digital membership provides access to IBM Systems online education to help address your technical enablement needs for existing and new projects.

Submit questions or comments to [techuid@us.ibm.com](mailto:techuid@us.ibm.com).

For additional details, see the [IBM TechU](#) website.

### **IBM Expert Labs**

IBM Expert Labs can help clients accelerate their projects and optimize value by leveraging their deep technical skills and knowledge. With more than 20 years of industry experience, these specialists know how to overcome the biggest challenges to deliver business results that can have an immediate impact.

Expert Labs deep alignment with IBM product development allows for a strategic advantage as they are often the first in line to get access to new products, features, and early visibility into roadmaps. This connection with the development enables them to deliver First of a Kind (FOAK) implementations to address unique needs or expand a client's business with a flexible approach that works best for their organization.

For additional information, see the [IBM Expert Labs](#) website.

### **IBM Security™ Expert Labs**

With extensive consultative expertise on IBM Security software solutions, IBM Security Expert Labs helps clients and partners modernize the security of their applications, data, and workforce. With an extensive portfolio of consulting and learning services, Expert Labs provides project-based and premier support service subscriptions.

These services can help clients deploy and integrate IBM Security software, extend their team resources, and help guide and accelerate successful hybrid cloud solutions including critical strategies such as zero trust. Remote and on-premises software deployment assistance is available for IBM Cloud Pak<sup>(R)</sup> for Security, IBM Security QRadar<sup>(R)</sup>/QRoC, IBM Security SOAR/Resilient<sup>(R)</sup>, IBM i2<sup>(R)</sup>, IBM Security Verify, IBM Security Guardium<sup>(R)</sup>, and IBM Security MaaS360<sup>(R)</sup>.

For more information, contact Security Expert Labs at [sel@us.ibm.com](mailto:sel@us.ibm.com).

For additional information, see the [IBM Security Expert Labs](#) website.

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## **Technical information**

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### **Specified operating environment**

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#### **Hardware requirements**

See the [Jazz<sup>\(R\)</sup> Deployment Wiki](#) for deployment and installation planning for IBM Engineering hardware requirements.

#### **Software requirements**

IBM Engineering Systems Design Rhapsody - AUTOSAR extension is an extension to Engineering Systems Design Rhapsody - Designer and Engineering Systems Design Rhapsody - Developer editions. It requires one of the following IBM Engineering products:

- IBM Engineering Systems Design Rhapsody Designer for Systems Engineers
- IBM Engineering Systems Design Rhapsody Developer for C++, C, and Java™
- IBM Engineering Systems Design Rhapsody Developer for C, C++, Java and Ada

For current software operating system requirements, see the [IBM Software Product Compatibility Reports](#) website.

#### **IBM Support**

[IBM Support](#) is your gateway to technical support tools and resources that are designed to help you save time and simplify support. IBM Support can help you find answers to questions, download fixes, troubleshoot, submit and track problem cases, and build skills. Learn and stay informed about the transformation of IBM Support, including new tools, new processes, and new capabilities, by going to the [IBM Support Insider](#).

#### **Additional IBM support**

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IBM Garage is a framework for accelerating digital transformation. It helps you generate innovative ideas and equips you with the practices, technologies, and expertise to turn those ideas into business value in weeks. When you work with IBM Garage you bring pain points into focus. You empower your team to take manageable risks, adopt leading technologies, speed up solution development, and measure the value of everything you do. IBM Garage has experts and services to address a broad array of use cases, including capabilities for business transformation, hybrid cloud, analytics and AI, infrastructure systems, security, and more. For more information, see the [IBM Garage](#) website.

### Planning information

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#### **Packaging**

This offering is delivered through the internet as an electronic download. There is no physical media.

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### Ordering information

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For ordering information, consult your IBM representative or IBM Business Partner, or go to the [Passport Advantage<sup>\(R\)</sup>](#) website.

This program is available only through Passport Advantage.

These products may only be sold directly by IBM or by IBM Business Partners.

To locate IBM Business Partners in your geography, see the [Find a Business Partner](#) page.

#### **Passport Advantage**

##### **New part numbers**

IBM Engineering Systems Design Rhapsody 9.0.1 introduces the following part numbers:

<b>Part number description</b>	<b>Part number</b>
IBM Engineering Systems Design Rhapsody AUTOSAR Extension Authorized User Single Install Initial Fixed Term License + SW Subscription & Support 12 Months	D08R9ZX
IBM Engineering Systems Design Rhapsody AUTOSAR Extension Authorized User Single Install License + SW Subscriptn and Support 12 Months	D08RAZX
IBM Engineering Systems Design Rhapsody AUTOSAR Extension Authorized User Single Install Monthly License	D08RBZX
IBM Engineering Systems Design Rhapsody AUTOSAR Extension Authorized User Single Install SW Subscription & Support Renewal	E08R8ZX
IBM Engineering Systems Design Rhapsody AUTOSAR Extension Authorized User Single Install Software Subscription & Support Reinstatement 12 Months	D08RCZX
IBM Engineering Systems Design Rhapsody AUTOSAR Extension Authorized User Single Install Subsequent Fixed Term License + SW Subscription & Support 12 Months	E08RDZX

Part number description	Part number
IBM Engineering Systems Design Rhapsody AUTOSAR Extension Floating User Single Install Initial Fixed Term License + SW Subscription & Support 12 Months	D08RFZX
IBM Engineering Systems Design Rhapsody AUTOSAR Extension Floating User Single Install License + SW Subscriptn and Support 12 Months	D08RGZX
IBM Engineering Systems Design Rhapsody AUTOSAR Extension Floating User Single Install Monthly License	D08RHZX
IBM Engineering Systems Design Rhapsody AUTOSAR Extension Floating User Single Install SW Subscription & Support Renewal	E08REZX
IBM Engineering Systems Design Rhapsody AUTOSAR Extension Floating User Single Install Software Subscription & Support Reinstatement 12 Months	D08RIZX
IBM Engineering Systems Design Rhapsody AUTOSAR Extension Floating User Single Install Subsequent Fixed Term License + SW Subscription & Support 12 Months	E08RJZX

### Charge metric

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

Program number	License Information document title	License Information document number
5727-X70	Sodius Autosar Add-On Product	<a href="#">L-CLEA-C7YSL9</a>

Select your language of choice and scroll down to the Charge Metrics section. Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

## Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage<sup>(R)</sup> Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

This product is available only through Passport Advantage.

### Licensing

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This software license includes Software Subscription and Support (also referred to as Software Maintenance).

### Software Maintenance

Licenses under the IBM International Program License Agreement (IPLA) provide for support with ongoing access to releases and versions of the program. IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available. Two charges apply: a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

### **License Information number**

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The following License Information document applies to the offerings in this announcement:

<b>Program number</b>	<b>License Information document title</b>	<b>License Information document number</b>
5727-X70	Sodius Autosar Add-On Product	<a href="#">L-CLEA-C7YSL9</a>

Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

### **Limited warranty applies**

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Yes

### **Limited warranty**

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IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, see the [IBM Support Guide](#).

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

### **Program support**

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Subscription and Support includes telephone assistance, as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months' notice.

### **Money-back guarantee**

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If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

## **Volume orders (IVO)**

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No

## **Passport Advantage applies**

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Yes, information is available on the [Passport Advantage and Passport Advantage Express](#) website.

## **Software Subscription and Support applies**

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Yes. Software Subscription and Support, also referred to as Software Maintenance, is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and Technical Support are provided by the Software Subscription and Support offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and Technical Support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support with each program license acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance by telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, see the [IBM Support Guide](#). Software Subscription and Support does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under the applicable agreements.

Unless specified otherwise in a written agreement with you, IBM does not provide support for third-party products that were not provided by IBM. Ensure that when contacting IBM for covered support, you follow problem determination and other instructions that IBM provides, including in the [IBM Support Guide](#).

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, go to the [Passport Advantage and Passport Advantage Express](#) website.

## **Variable charges apply**

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No

## **Educational allowance available**

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Education allowance does not apply. Education software allowance does not apply. Special education prices are available for qualified clients through Passport Advantage.

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## **Statement of good security practices**

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IT system security involves protecting systems and information through intrusion prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without

a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a regulatory compliant, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

**Important:** IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

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## Prices

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### **Passport Advantage**

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## Regional availability

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**Europe:** Aland Islands, Albania, Andorra, Armenia, Austria, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Bouvet Island, British Indian Ocean Territory, Bulgaria, Comoros, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Falkland Islands (Malvinas), Faroe Islands, Finland, France, French Guiana, French Polynesia, French Southern Territories, Georgia, Germany, Gibraltar, Greece, Greenland, Guadeloupe, Guernsey, Holy See (Vatican City State), Hungary, Iceland, Ireland, Isle of Man, Israel, Italy, Jersey, Kazakhstan, Kyrgyzstan, Latvia, Liechtenstein, Lithuania, Luxembourg, Republic of North Macedonia, Malta, Martinique, Mayotte, Republic of Moldova, Monaco, Montenegro, Netherlands, New Caledonia, Norway, Pitcairn, Poland, Portugal, Reunion, Romania, Russian Federation, Saint Barthelemy, Saint Helena Ascension and Tristan da Cunha, Saint Martin (French Part), Saint Pierre and Miquelon, San Marino, Serbia, Slovakia, Slovenia, South Georgia and the South Sandwich Islands, Spain, Svalbard and Jan Mayen, Sweden, Switzerland, Tajikistan, Turkmenistan, Ukraine, United Kingdom, Uzbekistan, Vanuatu, and Wallis and Futuna

**Middle East and Africa:** Afghanistan, Algeria, Angola, Bahrain, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Congo, The Democratic Republic of the Congo, Cote d'Ivoire, Djibouti, Egypt, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Iraq, Jordan, Kenya, Kuwait, Lebanon, Lesotho, Liberia, Libya, Madagascar, Malawi, Mali, Mauritania, Mauritius, Morocco, Mozambique, Namibia, Niger, Nigeria, Oman, Pakistan, State of Palestine, Qatar, Rwanda, Sao Tome and Principe, Saudi Arabia, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, South Sudan, Sudan, Swaziland, United Republic of Tanzania, Togo, Tunisia, Turkey, Uganda, United Arab Emirates, Western Sahara, Yemen, Zambia, and Zimbabwe

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