Our Mission

The Eclipse Software Defined Vehicle Working Group’s mission is to provide a forum for individuals and organisations to build and promote open source software, specifications, and open collaboration models needed to create a scalable, modular, extensible, industry-ready open source licensed vehicle software platform to support in-vehicle and around the vehicle applications development and the supporting toolchains.

The Working Group (WG) has a strong focus on the implementation and onboarding of existing code artefacts from the Working Group members to build the ecosystem in a “code first” manner.

To this end, the WG aims to foster a component-driven model that supports project collections on the development of toolchains, software stacks orchestration and bringing cloud-native technologies to in-vehicle software domains. To achieve this, the SDV Working Group will build the core to develop and foster open source implementations of needed component for software defined vehicles, define, document and develop processes for various SDV-related open source projects such as quality management, functional safety, supply chain security and more.
The SDV Working Group aims to provide a forum for individuals and organisations to build and promote open source software, specifications, and open collaboration models needed to create a scalable, modular, extensible, industry-ready open source licensed vehicle software platform to support in-vehicle and around-the-vehicle applications development, tooling and deployment.

The Working Group intends to support a ‘code first’ approach to solving problems together and collaborating in the open in a vendor-neutral framework on non-differentiating SW stacks.

Strategic Members
Who We Are: **SDV WG Members (June 2024)**

**Strategic Members**

- BMW Group
- CARIAD
- HARMAN
- Mercedes-Benz Tech Innovation
- Microsoft
- BOSCH
- Infineon
- ZF Group

**Participant Members**

- 2SK technologies
- amberx
- arm
- AVL
- Canonical
- Copernicus
- Continental
- DENSO
- Ericsson
- Fujitsu
- General Electric
- General Motors
- IBM
- Infineon
- IAV
- LG
- Luxsoft
- Powerby
- Qualcomm
- Red Hat
- PREVEND
- T Systems
- Unterwaltersdorf
- Vector

**Supporting Members**

- Amazon
- ARRAY
- beryllis
- CANIO
- Osparship Systems LLC
- Eclipse
- IBM
- Microchip
- RTOS
- Scan2SS
- REPLY
- amskesco GmbH
- zetta scale

**Guest Members**

- Ferdinand-Steinbeis-Institut
- Hochschule Rautlingen
- vitesse technologies

We are the open technology platform for the software defined vehicle of the future.

Our members include OEMs, tier 1 suppliers, and leading tech companies.

We enable them to accelerate innovation of automotive-grade in-car software stacks using open source and open specifications developed by a vibrant community of committers and code developers.
Our Governance principles

- We are code first.
- Projects are self-governing to enable community driven success.
- Aim for success by selecting robust, sustainable, well engineered projects.
- No kingmakers. Similar or competitive projects are not excluded for reasons of overlap or competition.
- Don’t reinvent the wheel. Adopt and promote useful work happening in other industry groups.
- No single stack. Encourage interoperability for the emergence of a variety of stacks and distributions to serve the community and adopters.
- Define specifications derived from open source projects which have demonstrated broad adoption and real world use.
- We want to build automotive grade software (from QM to ASIL-D) which will be used in series production.
- We are here to help our projects.

Source: SDV Charter
The open technology platform will include open sourced, modular software components and frameworks that are fully integrated into a modern developer experience with a high degree of automation and virtualisation.

**Automotive-Grade:**
Our approach will consider high performance computers as well as legacy ECUs and will stretch from quality managed to safety-relevant functions across all vehicle domains under adherence of the highest safety and security standards.

**Open Standards:**
Our solutions don’t aim to "reinvent the wheel", we use and develop open specifications & open standards under the purview of the Eclipse SDV WG.

**Community:**
We are building value together and welcome everyone to participate. We aim to join forces on the non-differentiating parts, thus decreasing time-to-market, and sharing best practices, and overcome the war for talent.
Our Approach

1. Innovation Through Collaboration
   With OEMs, hyperscalers, tier 1 suppliers, leading tech companies

2. Code-First Approach
   Agile approach to automotive software development

3. Open Source Ecosystem for Connected Vehicles
   Cost savings, long term maintenance & complexity reduction

4. Automotive-Grade
   OSS projects for Automotive-grade solutions
The Eclipse Software Defined Vehicle Working Group is a vibrant and growing community of the world’s leading technology, software and manufacturing companies who are heavily involved in the automotive industry. They have recognised that their joint efforts in the development of the future connected vehicle can happen much faster and more efficiently through the collaboration in the development of open source and non-proprietary projects for the non-differentiating parts of the in-vehicle applications and platforms.

This leading community of software and automotive engineers, developers and senior automotive business leaders is what makes the Software Defined Vehicle Working Group unique. Together, the working group aims to achieve faster time-to-market through the development and deployment of in-vehicle and around-the-vehicle applications and tools.
Strategic Members actively shape the vision and strategy of the SDV Working Group. These organisations consider the SDV Working Group standards, specifications, and technologies as strategic to their operations and invest significant resources in sustaining and influencing the group’s activities. Strategic Members commit to a three-year membership and must be, at a minimum, Contributing Members of the Eclipse Foundation. As recognised strategic members, they have representatives and voting rights in both the Steering Committee and Marketing Committee meetings.

Participant Members are organisations that provide products or services based on related automotive standards, specifications, and technologies or consider the SDV Working Group strategically important. These organisations wish to actively contribute to the development and direction of the open source automotive software ecosystem. Participant Members must, at a minimum, be Contributing Members of the Eclipse Foundation.
Benefits by Membership Level

SUPPORTER MEMBER
Supporter Members include organisations that desire to participate in the open ecosystem related to the SDV Working Group and wish to show initial support. Alternatively, these organisations may already be Contributing Members of the Eclipse Foundation. Supporting Members can hold this status for a maximum of one year, after which they are expected to transition to a different membership level. While Supporting Members may be invited to committee meetings at the respective committee’s invitation, they do not possess voting rights within the SDV Working Group.

GUEST MEMBER
Guest Members are organisations that are Associate members of the Eclipse Foundation, such as R&D partners, universities, or academic research centres. While Guest Members may be invited to participate in committee meetings at the invitation of the respective committee, they do not possess voting rights within the SDV Working Group.
What Our Members Say

CARIAD
“When one of the leading software companies in the automotive industry, we are looking forward to the open cooperation in the Eclipse Foundation. Open source has long been a central component in the automotive sector. We see great potential in the cooperation of the open source community for the software-driven car and also for our developers. We want to create innovations and set open standards together.”

Michael Wintergerst, Executive Vice President for Vehicle and Cloud Platform, CARIAD

CONTINENTAL AUTOMOTIVE
“We are glad to support the ‘code first’ approach of Eclipse SDV by contributing Eclipse eCAL: a scalable middleware enabling efficient communication within distributed systems. Continental is looking forward to collaborating within the community to create innovative solutions for the Software-Defined Vehicle.”

Michael Huelsewies, Head of Architecture and Software at Continental Automotive.

ETAS
“The first Eclipse SDV Contribution Day sets a major milestone on the road to an open source software-defined vehicle ecosystem: first, we look forward to listening to the community’s projects and are excited to present our two projects. Second, we welcome the growth of the community and the addition of new participants building an ecosystem for the software-defined vehicle. We are convinced that cross-company collaboration will lead to excellent results.”

Christoph Hartung, Chairman of the Board of Management of ETAS GmbH
What Our Members Say

ETERATION

“Industry practices for automotive software often embrace proprietary and closed solutions, where many common building blocks are replicated. The Eclipse Software Defined Vehicle Working Group is a platform for open technology and collaboration that can impact how we build software for vehicles. Eteration is contributing Eclipse Muto a high-performance runtime for model based contextual adaptivity in ROS software stacks. Eclipse Muto makes it possible to deploy extensible, dynamic, and adaptive behavior to edge devices.”

Naci Dai, Founder, Composiv.ai and Eteration.

MICROSOFT

“The Software Defined Vehicle Working Group provides a vendor-neutral place for software engineers to jointly solve non-differentiating challenges of automotive software development. Microsoft is contributing the middleware ‘Eclipse Chariott’ to target in-vehicle functions through a digital representation of vehicle state and capabilities. The dynamic architecture enhances developer productivity, freeing resources to focus on delivering new services that address latest customer needs.”

Ulrich Homann, Corporate Vice President and Distinguished Architect, Cloud + AI, Microsoft

ZF

“We are glad to support the ‘code first’ approach of Eclipse SDV by contributing Eclipse eCAL: a scalable middleware enabling efficient communication within distributed systems. Continental is looking forward to collaborating within the community to create innovative solutions for the Software-Defined Vehicle.”

Michael Huelsewies, Head of Architecture and Software at Continental Automotive.

Elektrobit

“Elektrobit brings more than 35 years of automotive software experience to the Eclipse SDV, and we’re excited to work with the community to develop a new, innovative software platform for the automotive industry. We believe in investing in open standards to support industry collaboration and innovation, as is evidenced by our founding membership in AUTOSAR, membership in SOAFFEE and now, in the Eclipse SDV working group.”

Mike Robertson, VP, Global Product Management and Strategy, Elektrobit
A Proven Framework for Open Collaboration

Differentiating Software (Competitive Layer)
Commercial Adopters focus resources on rapidly building differentiating features

Collaboration on Non-differentiating Software
Eclipse SDV Working Group participating projects act as Technology Producers jointly define roadmap and build core capabilities

Governance Layer
The Eclipse Foundation provides an open, vendor-neutral development environment to enable collaboration
How the Eclipse Foundation Helps

**Vendor-Neutral Governance**
Collaboration under a vendor neutral governance model.

**Ecosystem Development & Marketing**
Eclipse Foundation builds a collaborative ecosystem through business development, marketing, and community development programs.

**Collaborative Management**
Working groups coordinate the efforts of open source projects by providing a shared vision and roadmap.

**Specification Development**
Eclipse Working Groups use the proven Eclipse Specification Development processes that provides a framework for the development of specifications in open source.

**Branding and Compatibility**
Creating branding and compatibility programs to build a trusted ecosystem of implementers and consumers.

**Events**
Deliver events to drive awareness, participation, and adoption of Eclipse open source in automotive industry.
## Membership Fees

<table>
<thead>
<tr>
<th>Annual Corporate Revenue</th>
<th>Eclipse SDV Strategic Member</th>
<th>Eclipse SDV Participant Member</th>
<th>Eclipse SDV Supporter Member*</th>
<th>Eclipse SDV Guest Member*</th>
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<tbody>
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<td>&gt; €1 Billion</td>
<td>€200,000</td>
<td>€50,000</td>
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<tr>
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<td>0€</td>
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* organisations may be Supporter Member for 1 year. Afterward, they are encouraged to transition to a different membership level.
How to Join the Eclipse SDV Working Group

1. Decide which membership level that will help your organisation achieve your strategic goals.

2. Become at least a Contributing member of the Eclipse Foundation. You can check if your organisation is already a member.

3. Visit Member Enrollment Portal to fill out & sign the following documents:
   - Membership Application Form
   - Membership Agreement
   - Member Committer and Contributor Agreement (optional, but recommended)
JOIN US!

To learn more about the benefits of Eclipse Foundation membership, or how Eclipse Working Groups enable community-driven industry collaborations, please contact the Membership Coordination Team at membership@eclipse.org.