Automotive Top Level Project

Automotive@Eclipse
Community Day

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Automotive Top Level Project

Eclipse Top Level Projects

Meet the Automotive@Eclipse Community
Automotive Top Level Project

Some history

- March 17th 2021: First Automotive PMC Telco (follow-up monthly)
- June 9th 2021: Eclipse Automotive - TLP and PMC Overview
  - PMC member introduction
  - Automotive TLP Overview / Big picture
  - Short (informal) presentation of participating projects
  - Exchange, questions, walkin topics…

Automotive Top Level Project

Mission

The Eclipse Automotive Top-Level Project provides a space for open source projects to explore ideas and technologies addressing challenges in the automotive, mobility and transportation domain. It is the common goal of this project to provide tools and composable building blocks to empower the development of solutions for the mobility of the future.

Scope

The scope of the project includes developing, managing, promoting, and supporting applications, frameworks, runtimes, middlewares and models in the following areas:

- Traffic and transportation planning;
- Decision making, planning, control and simulation of automated vehicles and other road users;
- Test and assessment of advanced driver assistance systems or automated driving functions;
- Modeling and definition of traffic scenarios for simulation, validation and testing use-cases;
- Dynamic co-simulation of mobility and communication protocols incorporating physical, control and environment models;
- Modeling and Simulation of Vehicle-to-Cloud, Vehicle-to-Vehicle and Vehicle-to-Infrastructure Connectivity;
- Aggregation and management of measured vehicle data;
- Modeling and engineering tools for embedded automotive systems; and
- Middleware and runtime technologies enabling mobility solutions

In addition to providing software solutions for the industry, public sector institutions and consumers, the Eclipse Automotive project is a platform for experimentation by developers, academics and researchers. It provides a place to try out new ideas, new services and infrastructure changes to address the challenges of mobility.
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Project Management Committee (PMC)

PMC tasks

- All communication through the mailing list
  
  https://accounts.eclipse.org/mailing-list/automotive-pmc

- IP needs to be approved
  
  not a license / header check rather content
  
  answer +1 on the mailing list

- Releases need to be approved
  
  as above
  
  is there a description?
  
  answer +1 on the mailing list

- Committer elections
  
  Links get sent to the mailing list
  
  Merit statements should be there
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Meet the Automotive@Eclipse Community

PMC Lead

Harald Mackamull

PMC Members

Angelika Wittek  Lukas Krawczyk  Michael Behrisch  Torkild Resheim
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Open Collaboration for the Automotive Industry

The automotive industry is undergoing massive transformation with emerging automated, connected, and electric automotive technologies enabling new mobility services in a shared economy. In turn, these innovations are altering the way automakers, their partners, and customers create value and benefit from vehicles and transportation.

Eclipse Automotive Top Level Project

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The Growing Eclipse Automotive Ecosystem

Automotive industry leaders collaborate at the Eclipse Foundation:

- 35+ Members of Eclipse Automotive Working Group
  - 6 of the 20 Leading Automakers
  - 3 of the Largest Tier 1 and Tier 2 Suppliers
  - Leading Automotive Engineering Companies, such as Vector Informatik, Gigatronik, Mueller-BBM, AVL, and others
  - Key research and government organizations, including Fraunhofer Offfis, DLR, DFKI, Fortiss, Virtual Vehicle, and others

The Eclipse Foundation delivers an open, vendor-neutral governance framework, and IP cleansing processes for OEMs, Tier 1 and Tier 2 suppliers and players in the automotive ecosystem like Audi AG, BMW Group, Robert Bosch GmbH, Daimler AG, and Siemens AG, who wish to collaborate on core capabilities below the value line to solve their technology needs. In doing so, they free up scarce organizational resources to accelerate product development that enables intellectual property sharing without the threat of antitrust and regulatory challenges, increased focus on delivering differentiating features faster, and pooling of engineering resources.

https://www.eclipse.org/automotive/
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Meet the Automotive@Eclipse Community

https://projects.eclipse.org/projects/automotive
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Links

- Website - https://www.eclipse.org/automotive/
- Project page - https://projects.eclipse.org/projects/automotive
- Mailing list - https://accounts.eclipse.org/mailing-list/automotive-pmc
- Wiki - https://wiki.eclipse.org/Automotive

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