

OpenADx Steering Committee Meeting

... (insert next meeting agenda here)

Steering Committee Meeting,

General Meeting

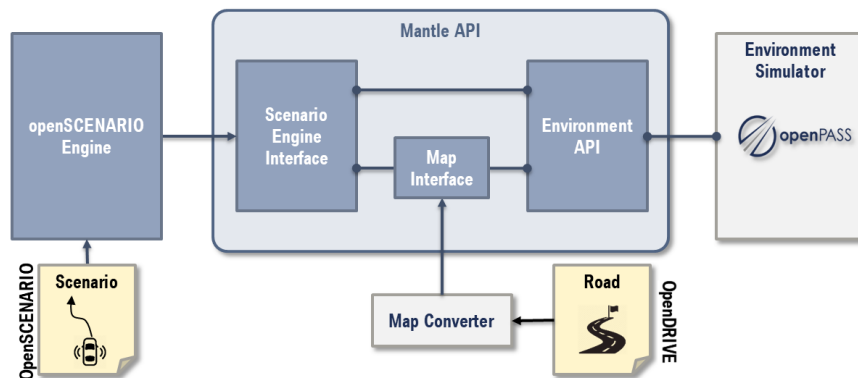
10.03.2022, 5pm - 6pm CEST

Agenda / Meeting Minutes

1. Welcome, Agenda
2. Antitrust Policy
 - > respect Eclipse's Anti-Trust Policy
3. Meeting time slot
 - a. currently it is fine, but Andy will do a poll if there is a demand of shifting to another timeslot
 - > <https://doodle.com/meeting/participate/id/kazNjQma>
4. The future of OpenADx OR How to proceed?
 - a. Just 4 votes on the meeting poll...
 - > Andy will reschedule
 - b. Overlap in the topics of the current working groups
 - c. re-factoring of the working groups? Do we need all the different automotive WGs? The layer on top is missing.
 - > Is that the right layer?
 - <https://wiki.eclipse.org/Automotive/InterestGroup>
 - d. Roadshow as an offer for startups, increase the reach, create the community, working group events, demo and showcase the projects
 - e. see also: [2019 OpenZeka MARC Otonom Araç Yarışması](#)
 - f. How to engage the SC members in general?
 - i. Can we give a project representative in the SC Meeting?
 - ii. as Alternative a separate meeting with the projects within the WG
 - iii. maybe with some possibilities to have influence in the SC
 - g. Should we rename OpenADx to
 - i. Eclipse Autonomous Driving
 - ii. or something else
 - iii. or not ??
 - iv. As there is confusion maybe - Differentiation of OpenADx, openMobility, Eclipse Automotive ...
 - h. create a board of suggestions -> done
 - [OpenADx Future Ideas](#)
 - i. we need a separate session for working on this topics - **Andy will setup a meeting**
 - i. How to engage the members?
 - i. Business value will be the key at the end - How to create the Business Value
 - ii. How can we commercialize / productize each others products?
 - iii. Create a scenario how each company can contribute and benefit from OpenADx with their solutions

- iv. **What is the benefit, when you contribute to Open Source?**
 - 1. list of possible Business Models as blueprint
-> done [OpenADx Future Ideas](#)
 - v. A small (public funded) project can be started to contribute.
 - vi. Naci can provide a template for a joint project
 - vii. We can start to collect the ideas / demonstrator ideas / abstracts on a board or in a google doc.
-> use jamboard and create new site(s) [OpenADx Future Ideas](#)
 - viii. an open accessible platform where e.g. simulations can run
-> a VM is available ...
 - 1. in collaboration with **Indy Autonomous Challenge (ROS 2, Cyclone DDS, iceoryx, Zenoh, Autoware.Auto) with SVL Simulator and dozens of IAC universities**, Open Robotics ROS 2, F1Tenth, Autoware, USDOT CARMA, CARMA F1TENTH ...
 - 2. leverage Apex.Middleware for more fame
apex.ai/apex-middleware
 - 3. good processes, good documentation
 - 4. fyi ROS 2 tested with OpenADx projects Cyclone DDS, iceoryx, Zenoh V2X
<https://osrf.github.io/TSC-RMW-Reports/humble/eclipse-cyclonedds-report.html>
 - ix. public funded projects with tool providers is often hard to setup / ramp up - quick start with working with something -> open source solution as enabler for the commercial solution
 - j. contact the OEMs directly as a restart
 - i. invite them to a roadshow (to be planned)
 - k. Collaboration with SDV?
 - i. Use OpenADx experience for exchangeability of tools
5. Next steps
- a. provide a board or a doc for further collab -> done
 - b. provide the "collection list" -> done
 - c. evaluate steps to generate value
6. OpenADx Timeline / Program Plan
- a. **Roadmap for implementing the Program Plan - to be done**
 - i. Update: <https://tuleap.eclipse.org/plugins/docman/download/2699/1>
 - b. How can we make progress?
 - c. **Azure Instance (just a Windows VM) for OpenADx demonstrator is available.**
 - i. openPASS will support with the demonstrator
 - ii. sim@openPASS could be included in the demonstrator
 - iii. OpenMCx short before release and can also be used for the demonstrator
 - iv. How can we combine all the stuff?
 - d. Our offer to help Indy Autonomous Challenge university teams [IAC ROS2 Autoware Offer](#)
 - i. early survey results from teams for what they need [IAC ROS 2 Survey - early comments.pdf](#)
7. OpenADx Big Picture
Link: <https://tuleap.eclipse.org/plugins/docman/download/2637/1>
8. Collaboration with Universities

- a. IAC ... (obviously)
 - b. F1TENTH migrating to ROS 2 Foxy with Autoware.Auto autonomous driving packages and Cyclone DDS with builtin iceoryx and Zenoh V2X
 - i. **Consider sponsoring F1TENTH! Here are details & contacts**
[F1TenthFoundation Sponsorship Benefits 2021.pdf](#)
 - c. "CARMA F1TENTH" V2X led by Madhur Behl of U of Virginia
<https://github.com/usdot-fhwa-stol/carma-1-tenth>
9. USDOT CARMA
- a. Progress migrating CARMA to ROS 2 Foxy with Autoware.Auto autonomous driving packages and Cyclone DDS. Will use Cyclone DDS w built-in iceoryx and Zenoh V2X
<https://discourse.ros.org/t/carma-2021-updates-and-release-plan/19791>
<https://discourse.ros.org/t/carma-migrating-to-ros-2-with-cyclonedds-and-zenoh/17541>
10. Demonstrator
- a. tuleap.eclipse.org/plugins/tracker/?aid=1246
 -> Status: Simon, AVL, started a first setup based on OpenMCx and esmini. Co-simulation will consist of FMU only with no license required.
 - b. maybe with openPASS?



- 11. [Eclipse Automotive](#)
- 12. Open topics
-> Update
- 13. OpenADx Whitepaper
 - a. next steps
 - i. add section with success stories like Toyota, Apex.AI,
 - ii. setup a meeting for an update session
 - iii. maybe an annual release of the updated whitepaper
- 14. Lead Management
- 15. Events
- 16. Feedback from conferences
- 17. Projects
- 18. Project Proposals
- 19. Next steps
- 20. Next meeting dates
 - a. regular meetings are scheduled
 - b. There is a conflict on the Tuesday schedule, Meeting Poll is active

Participants

Name	Company	Participation?
?	ADLINK Technology	
Joseph	Arm	
Josko	AVL List	x
Adam	DENSO Corporation	
Daniel	DLR	
Naci	eteration	x
Philip	EclipseSource	
Andreas	itemis	
Michael	JCIM	
Robert	Microsoft	
Jefro	Red Hat	
Andy	Robert Bosch GmbH	x
Robin	Siemens	
Dominik	science+	
Paul	Eclipse Foundation	
Michael	Eclipse Foundation	x
Lukas	FH Dortmund	
Brian	Open Robotics	
Daisuke	Autoware	
Simon	AVL	x
Klaus	AVL	

Steering Committee Meeting, General Meeting

10.02.2022, 5pm - 6pm CEST

Agenda / Meeting Minutes

1. Welcome, Agenda
2. Antitrust Policy
 - > respect Eclipse's Anti-Trust Policy
3. Meeting time slot
 - a. currently it is fine, but Andy will do a poll if there is a demand of shifting to another timeslot
4. The future of OpenADx OR How to proceed?
 - a. Overlap in the topics of the current working groups
 - b. re-factoring of the working groups? Do we need all the different automotive WGs? The layer on top is missing.
 - c. Roadshow as an offer for startups, increase the reach, create the community, working group events, demo and showcase the projects
 - d. see also: [2019 OpenZeka MARC Otonom Araç Yarışması](#)
 - e. Is the current SC chair well-staffed?
 - Feedback - it is not a matter of the person
 - f. How to engage the SC members in general?
 - i. Can we give a project representative in the SC Meeting?
 - ii. as Alternative a separate meeting with the projects within the WG
 - iii. maybe with some possibilities to have influence in the SC
 - g. Should we rename OpenADx to
 - i. Eclipse Autonomous Driving
 - ii. or something else
 - iii. or not ??
 - iv. As there is confusion maybe - Differentiation of OpenADx, openMobility, Eclipse Automotive ...
 - h. create a board of suggestions -> done
[OpenADx Future Ideas](#)
 - i. we need a separate session for working on this topics - **Andy will setup a meeting**
 - i. How to engage the members?
 - i. Business value will be the key at the end - How to create the Business Value
 - ii. How can we commercialize / productize each others products?
 - iii. Create a scenario how each company can contribute and benefit from OpenADx with their solutions
 - iv. **What is the benefit, when you contribute to Open Source?**
 1. list of possible Business Models as blueprint
 - > done [OpenADx Future Ideas](#)
 - v. A small (public funded) project can be started to contribute.
 - vi. Naci can provide a template for a joint project
 - vii. We can start to collect the ideas / demonstrator ideas / abstracts on a board or in a google doc.

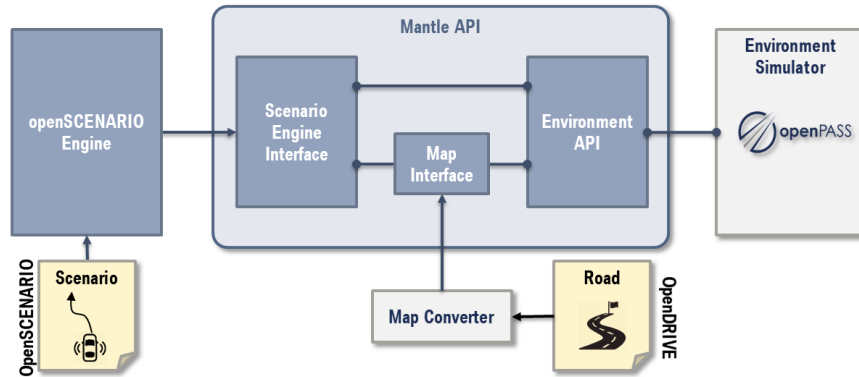
- > use jamboard and create new site(s) [OpenADx Future Ideas](#)
- viii. an open accessible platform where e.g. simulations can run
 - > a VM is available ...
 1. in collaboration with **Indy Autonomous Challenge (ROS 2, Cyclone DDS, iceoryx, Zenoh, Autoware.Auto) with SVL Simulator and dozens of IAC universities**, Open Robotics ROS 2, F1Tenth, Autoware, USDOT CARMA, CARMA F1TENTH ...
 2. leverage Apex.Middleware for more fame apex.ai/apex-middleware
 3. good processes, good documentation
 4. fyi ROS 2 tested with OpenADx projects Cyclone DDS, iceoryx, Zenoh V2X <https://osrf.github.io/TSC-RMW-Reports/humble/eclipse-cyclon-edds-report.html>
 - ix. public funded projects with tool providers is often hard to setup / ramp up - quick start with working with something -> open source solution as enabler for the commercial solution
- 5. Next steps
 - a. provide a board or a doc for further collab -> done
 - b. provide the “collection list” -> done
 - c. evaluate steps to generate value
- 6. OpenADx Timeline / Program Plan
 - a. **Roadmap for implementing the Program Plan - to be done**
 - i. Update: <https://tuleap.eclipse.org/plugins/docman/download/2699/1>
 - b. How can we make progress?
 - c. **Azure Instance (just a Windows VM) for OpenADx demonstrator is available.**
 - i. openPASS will support with the demonstrator
 - ii. sim@openPASS could be included in the demonstrator
 - iii. OpenMCx short before release and can also be used for the demonstrator
 - iv. How can we combine all the stuff?
 - d. Our offer to help Indy Autonomous Challenge university teams [IAC ROS2 Autoware Offer](#)
 - i. early survey results from teams for what they need [IAC ROS 2 Survey - early comments.pdf](#)
- 7. OpenADx Big Picture

Link: <https://tuleap.eclipse.org/plugins/docman/download/2637/1>
- 8. Collaboration with Universities
 - a. IAC ... (obviously)
 - b. F1TENTH migrating to ROS 2 Foxy with Autoware.Auto autonomous driving packages and Cyclone DDS with builtin iceoryx and Zenoh V2X
 - i. **Consider sponsoring F1TENTH! Here are details & contacts** [F1TenthFoundation Sponsorship Benefits 2021.pdf](#)
 - c. “CARMA F1TENTH” V2X led by Madhur Behl of U of Virginia <https://github.com/usdot-fhwa-stol/carma-1-tenth>
- 9. USDOT CARMA
 - a. Progress migrating CARMA to ROS 2 Foxy with Autoware.Auto autonomous driving packages and Cyclone DDS. Will use Cyclone DDS w built-in iceoryx and Zenoh V2X

<https://discourse.ros.org/t/carma-2021-updates-and-release-plan/19791>
<https://discourse.ros.org/t/carma-migrating-to-ros-2-with-cyclonedds-and-zenoh/17541>

10. Demonstrator

- a. tuleap.eclipse.org/plugins/tracker/?aid=1246
 -> Status: Simon, AVL, started a first setup based on OpenMCx and esmini. Co-simulation will consist of FMU only with no license required.
- b. maybe with openPASS?



11. [Eclipse Automotive](#)

12. Open topics

-> Update

13. OpenADx Whitepaper

- a. next steps
 - i. add section with success stories like Toyota, Apex.AI,
 - ii. setup a meeting for an update session
 - iii. maybe an annual release of the updated whitepaper

14. Lead Management

15. Events

16. Feedback from conferences

17. Projects

18. Project Proposals

19. Next steps

20. Next meeting dates

- a. regular meetings are scheduled
- b. There is a conflict on the Tuesday schedule, Meeting Poll is active

Participants

Name	Company	Participation?
?	ADLINK Technology	
Joseph	Arm	
Josko	AVL List	x
Adam	DENSO Corporation	
Daniel	DLR	
Naci	eteration	x

Philip	EclipseSource	
Andreas	itemis	x
Michael	JCIM	
Robert	Microsoft	
Jefro	Red Hat	
Andy	Robert Bosch GmbH	x
Robin	Siemens	
Dominik	science+	
Paul	Eclipse Foundation	
Michael	Eclipse Foundation	
Lukas	FH Dortmund	
Brian	Open Robotics	
Daisuke	Autoware	
Simon	AVL	
Klaus	AVL	

Steering Committee Meeting, General Meeting

09.12.2021, 5pm - 6:30pm CEST

Agenda / Meeting Minutes

1. Welcome, Agenda
2. Antitrust Policy
-> respect Eclipse's Anti-Trust Policy
3. Steering Committee Composition:

Company	Name	Role
ADLINK Technology	??	Driver Member
AVL List GmbH	Josko Balic	Driver Member
JC Information Management GmbH	Michael Hahn	Driver Member
Robert Bosch GmbH	Andreas Riexinger (SC Chair)	Driver Member
Siemens AG	Robin van der Made	Driver Member
eteration A.S.	Naci Dai	Development Member
itemis	Andreas Graf	Development Member
Microsoft	Robert Nahm	User Member

4. 2022 Program Plan and Budgeting Process Cycle
 - a. Draft Program Plan 2022: 2022 OpenADx Program Plan
 - b. in confirmation process

Company	Name	Vote
ADLINK Technology	??	
AVL List GmbH	Josko Balic	+1
JC Information Management GmbH	Michael Hahn	+1
Robert Bosch GmbH	Andreas Riexinger (SC Chair)	+1
Siemens AG	Robin van der Made	+1
eteration A.S.	Naci Dai	+1
itemis	Andreas Graf	+1
Microsoft	Robert Nahm	+1

5. The future of OpenADx OR How to proceed?
 - a. Is the current SC chair well-staffed?
 - b. How to engage the SC members in general?
 - c. Should we rename OpenADx to
 - i. Eclipse Autonomous Driving
 - ii. ??
 - d. As there is confusion maybe - Differentiation of OpenADx, openMobility, Eclipse Automotive ...
 - e. create a board of suggestions -> done
[OpenADx Future Ideas](#)
 - f. How to engage the members?
 - i. Business value will be the key at the end - How to create the Business Value
 - ii. How can we commercialize / productize each others products?
 - iii. Create a scenario how each company can contribute and benefit from OpenADx with their solutions
 - iv. **What is the benefit, when you contribute to Open Source?**
 1. list of possible Business Models as blueprint
-> done [OpenADx Future Ideas](#)
 - v. A small (public funded) project can be started to contribute.
 - vi. Naci can provide a template for a joint project
 - vii. We can start to collect the ideas / demonstrator ideas / abstracts on a board or in a google doc.
-> use jamboard and create new site(s) [OpenADx Future Ideas](#)
 - viii. an open accessible platform where e.g. simulations can run
-> a VM is available ...
 1. in collaboration with **Indy Autonomous Challenge (ROS 2, Cyclone DDS, iceoryx, Zenoh, Autoware.Auto) with SVL Simulator and dozens of IAC universities**, Open Robotics ROS 2, F1Tenth, Autoware, USDOT CARMA, CARMA F1TENTH ...
 2. leverage Apex.Middleware for more fame
apex.ai/apex-middleware
 3. good processes, good documentation
 4. fyi ROS 2 tested with OpenADx projects Cyclone DDS, iceoryx, Zenoh V2X
<https://osrf.github.io/TSC-RMW-Reports/humble/eclipse-cyclonedds-report.html>
 - ix. public funded projects with tool providers is often hard to setup / ramp up - quick start with working with something -> open source solution as enabler for the commercial solution
6. Next steps
 - a. provide a board or a doc for further collab -> done
 - b. provide the "collection list" -> done
 - c. evaluate steps to generate value
7. End


Participants

Name	Company	Participation?
?	ADLINK Technology	
Joseph	Arm	
Josko	AVL List	
Adam	DENSO Corporation	
Daniel	DLR	
Naci	eteration	x
Philip	EclipseSource	
Andreas	itemis	
Michael	JCIM	
Robert	Microsoft	
Jefro	Red Hat	
Andy	Robert Bosch GmbH	x
Robin	Siemens	
Dominik	science+	
Paul	Eclipse Foundation	
Michael	Eclipse Foundation	x
Lukas	FH Dortmund	
Brian	Open Robotics	
Daisuke	Autoware	
Simon	AVL	x
Klaus	AVL	

Steering Committee Meeting, General Meeting

11.11.2021, 5pm - 6:30pm CEST

Agenda / Meeting Minutes

1. Welcome, Agenda
2. Antitrust Policy
 - > respect Eclipse's Anti-Trust Policy
3. Election Time
 - a. Composition:
 - b. Each Driver Member of the working group has one seat on the Steering Committee.
 - c. **Two seats** are allocated to **Development Members**. Development Member seats are allocated following the Eclipse "Single Transferable Vote", as defined in the Eclipse Foundation Bylaws. Elected Development Members have the right to participate in every Steering Committee meeting
 - i. eteration (current SC member)
 - ii. itemis (current SC member)
 - iii. science+ computing
 - d. **One seat** is allocated to **User Members**. User Member seats are allocated following the Eclipse "Single Transferable Vote", as defined in the Eclipse Foundation Bylaws. Elected User Members have the right to participate in every Steering Committee meeting.
 - i. arm
 - ii. Denso
 - iii. EclipseSource
 - iv. Microsoft (current SC member)
 - e. Andy will send a Mail to all members
 - f. Andy, Joe, Apex.AI to connect re SC
4. 2022 Program Plan and Budgeting Process Cycle
 - a. Draft Program Plan 2022:  2022 OpenADx Program Plan
 - b. supporting Material
 - i. [2022 Program Plan and Budget Process](#) (Refresher)
 - ii. [2022 Program Plan and Budget Process](#) (Full Version)
 - iii. [2022 Sample Program Plan Slide Deck Template](#) (Make a copy or reuse past templates)
5. The future of OpenADx OR How to proceed?
 - a. create a board of suggestions -> done
[OpenADx Future Ideas](#)
 - b. How to engage the members?
 - i. Business value will be the key at the end - How to create the Business Value
 - ii. How can we commercialize / productize each others products?
 - iii. Create a scenario how each company can contribute and benefit from OpenADx with their solutions
 - iv. **What is the benefit, when you contribute to Open Source?**
 1. list of possible Business Models as blueprint

-> done [OpenADx Future Ideas](#)

- v. A small (public funded) project can be started to contribute.
- vi. Naci can provide a template for a joint project
- vii. We can start to collect the ideas / demonstrator ideas / abstracts on a board or in a google doc.
-> use jamboard and create new site(s) [OpenADx Future Ideas](#)
- viii. an open accessible platform where e.g. simulations can run
-> a VM is available ...
 - 1. in collaboration with **Indy Autonomous Challenge (ROS 2, Cyclone DDS, iceoryx, Zenoh, Autoware.Auto) with SVL Simulator and dozens of IAC universities**, Open Robotics ROS 2, F1Tenth, Autoware, USDOT CARMA, CARMA F1TENTH ...
 - 2. leverage Apex.Middleware for more fame
apex.ai/apex-middleware
 - 3. good processes, good documentation
 - 4. fyi ROS 2 tested with OpenADx projects Cyclone DDS, iceoryx, Zenoh V2X
<https://osrf.github.io/TSC-RMW-Reports/humble/eclipse-cyclonedds-report.html>
- ix. public funded projects with tool providers is often hard to setup / ramp up - quick start with working with something -> open source solution as enabler for the commercial solution

6. Next steps

- a. provide a board or a doc for further collab -> done
- b. provide the "collection list" -> done
- c. evaluate steps to generate value

7. End

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	x
Joseph	Arm	
Josko	AVL List	x
Adam	DENSO Corporation	
Daniel	DLR	
Naci	eteration	x
Philip	EclipseSource	
Andreas	itemis	
Michael	JCIM	
Robert	Microsoft	x

Jefro	Red Hat	
Andy	Robert Bosch GmbH	x
Robin	Siemens	
Dominik	science+	
Paul	Eclipse Foundation	
Michael	Eclipse Foundation	x
Lukas	FH Dortmund	
Brian	Open Robotics	
Daisuke	Autoware	
Simon	AVL	
Klaus	AVL	

Steering Committee Meeting, General Meeting

14.10.2021, 5pm - 6:30pm CEST

Agenda / Meeting Minutes

1. Welcome, Agenda
2. Antitrust Policy
 - > respect Eclipse's Anti-Trust Policy
3. The future of OpenADx OR How to proceed?
 - a. create a board of suggestions
 - b. focus more on the strong points
 - c. providing artefacts like demonstrators like the ROS Group or like F1Tenth
 - i. continuation/re-start of the planned Co-simulation demonstrator
 - d. F2F workshops needed to come together to create valuable stuff
 - e. How to engage the members?
 - i. Business value will be the key at the end - How to create the Business Value
 - ii. How can we commercialize / productize each others products?
 - iii. Create a scenario how each company can contribute and benefit from OpenADx with their solutions
 - iv. **What is the benefit, when you contribute to Open Source?**
 1. list of possible Business Models as blueprint
 - v. A small (public funded) project can be started to contribute.
 - vi. Naci can provide a template for a joint project
 - vii. We can start to collect the ideas / demonstrator ideas / abstracts on a board or in a google doc.

- viii. an open accessible platform where e.g. simulations can run
 - 1. in collaboration with e.g. Open Robotics ROS 2, F1Tenth, Autoware, USDOT CARMA ...
 - 2. leverage Apex.Middleware for more fame
apex.ai/apex-middleware
 - 3. good processes, good documentation
 - 4. fyi ROS 2 tested with OpenADx projects Cyclone DDS, iceoryx, Zenoh V2X
<https://osrf.github.io/TSC-RMW-Reports/humble/eclipse-cyclonedds-report.html>
 - ix. public funded projects with tool providers is often hard to setup / ramp up - quick start with working with something -> open source solution as enabler for the commercial solution
4. 2022 Program Plan and Budgeting Process Cycle
 - a. Program Plan 2021 Review
 - b. Program Plan 2022 Planning
 - c. Budget Plan 2022
 - d. supporting Material
 - i. [2022 Program Plan and Budget Process](#) (Refresher)
 - ii. [2022 Program Plan and Budget Process](#) (Full Version)
 - iii. [2022 Sample Program Plan Slide Deck Template](#) (Make a copy or reuse past templates)
 5. Next steps
 - a. provide a board or a doc for further collab
 - b. provide the “collection list”
 - c. evaluate steps to generate value
 6. End

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	might be quite late
Joseph	Arm	
Josko	AVL List	
Adam	DENSO Corporation	x
Daniel	DLR	
Naci	eteration	x
Philip	EclipseSource	
Andreas	itemis	x
Michael	JCIM	
Robert	Microsoft	

Jefro	Red Hat	
Andy	Robert Bosch GmbH	x
Robin	Siemens	
Dominik	science+	
Paul	Eclipse Foundation	
Michael	Eclipse Foundation	
Lukas	FH Dortmund	x
Brian	Open Robotics	
Daisuke	Autoware	
Simon	AVL	
Klaus	AVL	x

Steering Committee Meeting, General Meeting

09.09.2021, 5pm - 6:30pm CEST

Agenda / Meeting Minutes

1. Welcome, Agenda
2. Antitrust Policy
 - > respect Eclipse's Anti-Trust Policy
3. Introduction of new members
4. IAC - Indy Autonomous Challenge with Universities
 - a. Clemson Deep Orange 12 "DO12" team is autonomous test driving IAC racecar using OpenADx middleware.
<https://cuicardeeporange.com/project/deep-orange-12/>
 - b. IAC racecar software stack developed with help of Autoware Foundation, OpenADx members and is being given to all teams as suggested reference implementation.
 - c. **Please help!** Here are some tasks
<https://gitlab.com/autowarefoundation/autoware.auto/AutowareAuto/-/issues/638>
5. Steering Committee Chair Elections
 - a. Andy elected as chair for a further period
 - b. Elections of the other representatives?
-> we leave it as it is and will have an eye on that, if we come to the budget discussions.
6. OpenADx WG Charter Update
 - > Update Charter -> proposal in review
 - > *we will wait till we see further changes*

-> Proposal, if possible:

As long as we have no participation fees, we can have only "one" membership level (Driver) and Guest members.

As soon as we request membership fees, we should re-organize the membership levels according to the current EF membership levels

7. OpenADx Timeline / Program Plan

a. Roadmap for implementing the Program Plan - to be done

i. Update: <https://tuleap.eclipse.org/plugins/docman/download/2699/1>

b. How can we make progress?

c. Azure Instance (just a Windows VM) for OpenADx demonstrator is available.

i. openPASS will support with the demonstrator

ii. sim@openPASS could be included in the demonstrator

iii. OpenMCx short before release and can also be used for the demonstrator

iv. How can we combine all the stuff?

d. Our offer to help Indy Autonomous Challenge university teams [IAC ROS2 Autoware Offer](#)

i. early survey results from teams for what they need [IAC ROS 2 Survey - early comments.pdf](#)

8. OpenADx Big Picture

Link: <https://tuleap.eclipse.org/plugins/docman/download/2637/1>

9. Collaboration with Universities

a. IAC ... (obviously)

b. F1TENTH migrating to ROS 2 Foxy with Autoware.Auto autonomous driving packages and Cyclone DDS with builtin iceoryx and Zenoh V2X

i. **Consider sponsoring F1TENTH! Here are details & contacts**
[F1TenthFoundation Sponsorship Benefits 2021.pdf](#)

c. "CARMA F1TENTH" V2X led by Madhur Behl of U of Virginia
<https://github.com/usdot-fhwa-stol/carma-1-tenth>

10. USDOT CARMA

a. Progress migrating CARMA to ROS 2 Foxy with Autoware.Auto autonomous driving packages and Cyclone DDS. Will use Cyclone DDS w built-in iceoryx and Zenoh V2X

<https://discourse.ros.org/t/carma-2021-updates-and-release-plan/19791>

<https://discourse.ros.org/t/carma-migrating-to-ros-2-with-cyclonedds-and-zenoh/17541>

11. Demonstrator

a. tuleap.eclipse.org/plugins/tracker/?aid=1246

-> Status: Simon, AVL, started a first setup based on OpenMCx and esmini.
Co-simulation will consist of FMU only with no license required.

12. Eclipse Automotive

13. Open topics

-> Update

14. OpenADx Whitepaper

a. next steps

i. add section with success stories like Toyota, Apex.AI,

ii. setup a meeting for an update session

iii. maybe an annual release of the updated whitepaper

15. Lead Management

-> Update

16. Events

-> Update

- a. arm DevSummit Oct 19-21
- b. ROScon with Autoware track Oct 22-23 roscon.ros.org
- c. IAC Race at Indy Oct 23 indya autonomou schallenge.com/timeline
- d. EclipseCon - Automotive Community Day -> Proposals welcome!

17. Feedback from conferences

-> Update

18. Projects

-> Update

19. Project Proposals

-> Update

20. Next steps

21. Next meeting dates

- a. regular meetings are scheduled
- b. There is a conflict on the Tuesday schedule, Meeting Poll is active

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	x
Joseph	Arm	
Josko	AVL List	x
Adam	DENSO Corporation	x
Daniel	DLR	
Naci	eteration	
Philip	EclipseSource	
Andreas	itemis	
Michael	JCIM	
Robert	Microsoft	
Jeff	Red Hat	
Andy	Robert Bosch GmbH	x
Robin	Siemens	
Dominik	science+	
Paul	Eclipse Foundation	
Michael	Eclipse Foundation	x
Lukas	FH Dortmund	x
Brian	Open Robotics	

Daisuke	Autoware	
Simon	AVL	
Klaus	AVL	

Steering Committee Meeting, Technical Meeting

08.07.2021, 5pm - ~~6:30pm~~ 5:45pm CEST

Agenda / Meeting Minutes

1. Welcome, Agenda
2. Antitrust Policy
 - > respect Eclipse's Anti-Trust Policy
3. Introduction of new members
4. IAC - Indy Autonomous Challenge with Universities
 - a. Ansys IAC simulation race on June 30th
[Ansys Indy Autonomous Challenge Simulation Race](#)
 - b. June 10th update
<https://docs.google.com/presentation/d/1WETq5S1aTOlfgfzvHJhFHEp1sL7vLAWjtaLHnmUjQrl/edit?usp=sharing>
 - c. Clemson Deep Orange 12 "DO12" team is autonomous test driving IAC racecar using OpenADx middleware.
<https://cuicardeeporange.com/project/deep-orange-12/>
<https://twitter.com/juncosracing/status/1396584574621294592?s=12>
 - d. IAC racecar software stack developed with help of Autoware Foundation, OpenADx members and is being given to all teams as suggested reference implementation.
 - e. **Please help!** Here are some tasks
<https://gitlab.com/autowarefoundation/autoware.auto/AutowareAuto/-/issues/638>
5. Steering Committee Chair Elections
 - a. nominations open till July 9th
 - b. then voting starts till July 16th
6. OpenADx Timeline / Program Plan
 - a. **Roadmap for implementing the Program Plan - to be done**
 - i. Update: <https://tuleap.eclipse.org/plugins/docman/download/2699/1>
 - b. Current EF Azure credits will be invalid mid of this year -> to be clarified with Robert, Paul and Stormy
-> What is the current state?
 - c. **Azure Instance (just a Windows VM) for OpenADx demonstrator is available.**
 - i. openPASS will support with the demonstrator
 - ii. sim@openPASS could be included in the demonstrator

- iii. OpenMCx short before release and can also be used for the demonstrator
 - iv. How can we combine all the stuff?
 - d. Our offer to help Indy Autonomous Challenge university teams [IAC ROS2 Autoware Offer](#)
 - i. early survey results from teams for what they need [IAC ROS 2 Survey - early comments.pdf](#)
- 7. OpenADx Big Picture
 - > update
 - Link: <https://tuleap.eclipse.org/plugins/docman/download/2637/1>
- 8. Toyota adopts "ApexOS" safe ROS 2 distro from Apex.AI. Supports Apex.Middleware of OpenADx CycloneDDS+iceoryx with optional Zenoh V2X
 - a. [Toyota Selects Apex.OS To Underpin Automated Vehicle Platform](#)
 - b. TÜV Nord certified on Arm for ISO 26262 ASIL-D
 - c. [Presentation](#) about how Apex.AI made open source safe ISO 26262 ASIL-D
- 9. OpenADx in ROS2 & AUTOSAR Adaptive
 - a. OpenADx CycloneDDS+ iceoryx is the new default ROS 2 middleware for ROS2 Galactic.
 - b. Apex.AI & ADLINK have been busy, OpenADx open source will be automotive grade ASIL-D ISO 26262 <https://www.apex.ai/apex-middleware> (ISO26262 planned for 2022)
 - i. Cyclone DDS with built-in iceoryx and Zenoh V2X for ROS 2 and DDS community.
 - ii. iceoryx with Cyclone DDS and SOME/IP gateways for AUTOSAR Adaptive community
- 10. Collaboration with Universities
 - a. IAC ... (obviously)
 - b. F1TENTH migrating to ROS 2 Foxy with Autoware.Auto autonomous driving packages and Cyclone DDS with builtin iceoryx and Zenoh V2X
 - i. **Consider sponsoring F1TENTH! Here are details & contacts**
[F1TenthFoundation Sponsorship Benefits 2021.pdf](#)
 - c. "CARMA F1TENTH" V2X led by Madhur Behl of U of Virgina
<https://github.com/usdot-fhwa-stol/carma-1-tenth>
- 11. USDOT CARMA
 - a. Progress migrating CARMA to ROS 2 Foxy with Autoware.Auto autonomous driving packages and Cyclone DDS. Will use Cyclone DDS w built-in iceoryx and Zenoh V2X
<https://discourse.ros.org/t/carma-2021-updates-and-release-plan/19791>
<https://discourse.ros.org/t/carma-migrating-to-ros-2-with-cyclonedds-and-zenoh/17541>
 - b. Link to videos
 - i. [Everything You Need to Know about CARMA](#)
 - ii. [CARMA Online Resources](#)
 - iii. [CARMA Program Part I](#)
 - iv. [CARMA Program Part II](#)
 - v. [CARMA 1Tenth](#)
 - vi. [Autoware Integration with CARMA](#)
 - vii. [Collaborate on the CARMA Platform](#)
- 12. Demonstrator
 - a. tuleap.eclipse.org/plugins/tracker/?aid=1246
-> Status: Simon, AVL, started a first setup based on OpenMCx and esmini.

Co-simulation will consist of FMU only with no license required.

13. Eclipse Automotive

- a. OpenADx meets openPASS
- b. [Eclipse Automotive](#)
 - i. Tractus-X as a new project proposal
[Eclipse Tractus-X Creation Review](#)
 - ii. contributions are there, project seems to be active

14. Project Proposals

- a. What will we do next?

15. Next meeting dates

- a. Andy is on vacation on August 12th. Next meeting on September 9th.
Enjoy the summer break! ;-)

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	
Joseph	Arm	x
Josko	AVL List	
Adam	DENSO Corporation	x
Daniel	DLR	
Naci	eteration	
Philip	EclipseSource	
Andreas	itemis	
Michael	JCIM	
Robert	Microsoft	x
Jeff	Red Hat	
Andy	Robert Bosch GmbH	x
Robin	Siemens	
Dominik	science+	
Paul	Eclipse Foundation	
Michael	Eclipse Foundation	
Lukas	FH Dortmund	
Brian	Open Robotics	
Daisuke	Autoware	
Simon	AVL	

Klaus	AVL	x
-------	-----	---

Steering Committee Meeting,

General Meeting

10.06.2021, 5pm - 6:30pm CEST

-> shifted to 24.06.2021, 5pm - 6:30pm CEST

Agenda / Meeting Minutes

22. Welcome, Agenda
23. Antitrust Policy
 - > respect Eclipse's Anti-Trust Policy
24. Introduction of new members
25. IAC - Indy Autonomous Challenge with Universities
 - a. June 10th update
 - <https://docs.google.com/presentation/d/1WETq5S1aTOlfgfzvHJhFHEp1sL7vLAWjtaLHnmUjQrl/edit?usp=sharing>
 - b. Clemson Deep Orange 12 "DO12" team is autonomous test driving IAC racecar using OpenADx middleware.
 - <https://cuicardeeporange.com/project/deep-orange-12/>
 - <https://twitter.com/juncosracing/status/1396584574621294592?s=12>
 - c. IAC racecar software stack developed with help of Autoware Foundation, OpenADx members and is being given to all teams as suggested reference implementation.
 - d. **Please help!** Here are some tasks
 - <https://gitlab.com/autowarefoundation/autoware.auto/AutowareAuto/-/issues/638>
26. Steering Committee Chair Elections
 - a. process to be announced, starts with nomination I guess
27. Eclipse iceoryx release:
 - <https://www.globenewswire.com/news-release/2021/06/24/2252445/0/en/The-Eclipse-Foundation-Announces-the-Release-of-Eclipse-iceoryx-Almond-1-0.html>
28. OpenADx WG Charter Update
 - > Update Charter
29. OpenADx Timeline / Program Plan
 - a. **Roadmap for implementing the Program Plan - to be done**
 - i. Update: <https://tuleap.eclipse.org/plugins/docman/download/2699/1>
 - b. Current EF Azure credits will be invalid mid of this year -> to be clarified with Robert, Paul and Stormy
 - > **What is the current state?**
 - c. **Azure Instance (just a Windows VM) for OpenADx demonstrator is available.**
 - i. openPASS will support with the demonstrator
 - ii. sim@openPASS could be included in the demonstrator
 - iii. OpenMCx short before release and can also be used for the demonstrator
 - iv. How can we combine all the stuff?

- d. Our offer to help Indy Autonomous Challenge university teams [IAC ROS2 Autoware Offer](#)
 - i. early survey results from teams for what they need [IAC ROS 2 Survey - early comments.pdf](#)
- 30. OpenADx Big Picture
 - > update
 - Link: <https://tuleap.eclipse.org/plugins/docman/download/2637/1>
- 31. Toyota adopts “ApexOS” safe ROS 2 distro from Apex.AI. Supports Apex.Middleware of OpenADx CycloneDDS+iceoryx with optional Zenoh V2X
 - a. [Toyota Selects Apex.OS To Underpin Automated Vehicle Platform](#)
 - b. TÜV Nord certified on Arm for ISO 26262 ASIL-D
 - c. [Presentation](#) about how Apex.AI made open source safe ISO 26262 ASIL-D
- 32. OpenADx in ROS2 & AUTOSAR Adaptive
 - a. OpenADx CycloneDDS+ iceoryx is the new default ROS 2 middleware for ROS2 Galactic.
 - b. Apex.AI & ADLINK have been busy, OpenADx open source will be automotive grade ASIL-D ISO 26262 <https://www.apex.ai/apex-middleware> (ISO26262 planned for 2022)
 - i. Cyclone DDS with built-in iceoryx and Zenoh V2X for ROS 2 and DDS community.
 - ii. iceoryx with Cyclone DDS and SOME/IP gateways for AUTOSAR Adaptive community
- 33. Collaboration with Universities
 - a. IAC ... (obviously)
 - b. F1TENTH migrating to ROS 2 Foxy with Autoware.Auto autonomous driving packages and Cyclone DDS with builtin iceoryx and Zenoh V2X
 - i. **Consider sponsoring F1TENTH! Here are details & contacts**
[F1TenthFoundation Sponsorship Benefits 2021.pdf](#)
 - c. “CARMA F1TENTH” V2X led by Madhur Behl of U of Virginia
<https://github.com/usdot-fhwa-stol/carma-1-tenth>
- 34. USDOT CARMA
 - a. Progress migrating CARMA to ROS 2 Foxy with Autoware.Auto autonomous driving packages and Cyclone DDS. Will use Cyclone DDS w built-in iceoryx and Zenoh V2X
<https://discourse.ros.org/t/carma-2021-updates-and-release-plan/19791>
<https://discourse.ros.org/t/carma-migrating-to-ros-2-with-cyclonedds-and-zenoh/17541>
 - b. Link to videos
 - i. [Everything You Need to Know about CARMA](#)
 - ii. [CARMA Online Resources](#)
 - iii. [CARMA Program Part I](#)
 - iv. [CARMA Program Part II](#)
 - v. [CARMA 1Tenth](#)
 - vi. [Autoware Integration with CARMA](#)
 - vii. [Collaborate on the CARMA Platform](#)
- 35. Demonstrator
 - a. tuleap.eclipse.org/plugins/tracker/?aid=1246
-> Update
- 36. Eclipse Automotive
 - a. OpenADx meets openPASS
 - b. [Eclipse Automotive](#)

- i. Tractus-X as a new project proposal
[Eclipse Tractus-X Creation Review](#)
 - ii. contributions are there
- 37. Open topics
-> Update
- 38. OpenADx Whitepaper
 - a. next steps
 - i. add section with success stories like Toyota, Apex.AI,
 - ii. setup a meeting for an update session
 - iii. maybe an annual release of the updated whitepaper
- 39. Lead Management
-> Update
- 40. Events
-> Update
 - a. IAC events at Indy 500 May 26-30
 - b. ROScon with Autoware track Oct 22-23 roscon.ros.org
 - c. IAC Race at Indy Oct 23 indyautonouschallenge.com/timeline
- 41. Feedback from conferences
-> Update
- 42. Projects
-> Update
- 43. Project Proposals
-> Update
- 44. Next steps
- 45. Next meeting dates
 - a. regular meetings are scheduled
 - b. There is a conflict on the Tuesday schedule, Meeting Poll is active

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	
Joseph	Arm	
Josko	AVL List	x
Adam	DENSO Corporation	x
Daniel	DLR	x
Naci	eteration	
Philip	EclipseSource	
Andreas	itemis	
Michael	JCIM	
Robert	Microsoft	
Jeff	Red Hat	x

Andy	Robert Bosch GmbH	x
Robin	Siemens	
Dominik	science+	
Paul	Eclipse Foundation	
Michael	Eclipse Foundation	
Lukas	FH Dortmund	x
Brian	Open Robotics	
Daisuke	Autoware	
Simon	AVL	
Klaus	AVL	

Steering Committee Meeting, **Technical Meeting** 20.05.2021, 5pm - 6:30pm CEST

Agenda / Meeting Minutes

1. Welcome, Agenda
2. Antitrust Policy
 - > respect Eclipse's Anti-Trust Policy
3. Introduction of new members
4. [Presentation](#) about how Apex.AI made open source safe ISO 26262 ASIL-D by Dejan
5. OpenADx Timeline / Program Plan
 - a. **Roadmap for implementing the Program Plan - to be done**
 - i. Update: <https://tuleap.eclipse.org/plugins/docman/download/2699/1>
 - b. Current EF Azure credits will be invalid mid of this year -> to be clarified with Robert, Paul and Stormy
 - c. **Azure Instance (just a Windows VM) for OpenADx demonstrator is available.**
 - i. openPASS will support with the demonstrator
 - ii. sim@openPASS could be included in the demonstrator
 - iii. OpenMCx short before release and can also be used for the demonstrator
 - iv. How can we combine all the stuff?
 - d. Our offer to help Indy Autonomous Challenge university teams [IAC ROS2 Autoware Offer](#)

- i. early survey results from teams for what they need [IAC ROS 2 Survey - early comments.pdf](#)
- 6. Introduction to Eclipse iceoryx on Tue, Jun 8, 2021 5:00 PM CEST: https://www.crowdcast.io/e/vecm_iceoryx/register
- 7. Project proposal openGADES <https://tuleap.eclipse.org/plugins/docman/download/2700/1>
- 8. Architecture excursion
 - a. What is architecture in our context?
 - > Presentation on 20.05.2021 by Andreas?
- 9. OpenADx Big Picture
 - > update
 - Link: <https://tuleap.eclipse.org/plugins/docman/download/2637/1>
- 10. IAC - Indy Autonomous Challenge with Universities
 - a. Clemson Deep Orange 12 “DO12” team is autonomous test driving IAC racecar using OpenADx middleware in preparation for high speed exhibition. <https://cuicardeeporange.com/project/deep-orange-12/>
 - b. Clemson’s IAC racecar software stack developed help from Autoware Foundation, et al. and is being given to all teams as suggested reference implementation.
 - c. **Please help!** Here are some tasks <https://gitlab.com/autowarefoundation/autoware.auto/AutowareAuto/-/issues/638>
 - d. Unveiling the Racecar on May 23th with cool logos on it
- 11. Collaboration with Universities
 - a. IAC ... (obviously)
 - b. F1TENTH migrating to ROS 2 Foxy with Autoware.Auto autonomous driving packages and Cyclone DDS with builtin iceoryx and Zenoh V2X
 - i. **Consider sponsoring F1TENTH! Here are details & contacts** [F1TenthFoundation Sponsorship Benefits 2021.pdf](#)
 - c. “CARMA F1TENTH” V2X led by Madhur Behl of U of Virginia <https://github.com/usdot-fhwa-stol/carma-1-tenth>
- 12. Demonstrator
 - a. tuleap.eclipse.org/plugins/tracker/?aid=1246
-> Update
- 13. Eclipse Automotive
 - a. OpenADx meets openPASS
 - b. [Eclipse Automotive](#)
 - i. Tractus-X as a new project proposal [Eclipse Tractus-X Creation Review](#)
- 14. Next meeting dates
 - a. Outlook: one of the next SC meetings we will have further guest speakers to present the current idea of a “Software defined Car” open source solution portfolio

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	

Dejan	Apex.AI	x
Joseph	Arm	x
Josko	AVL List	x
Adam	DENSO Corporation	x
Daniel	DLR	
Naci	eteration	
Philip	EclipseSource	
Andreas	itemis	x
Michael	JCIM	
Robert	Microsoft	
Wolfram	Red Hat	
Andy	Robert Bosch GmbH	x
Robin	Siemens	
Dominik	science+	
Paul	Eclipse Foundation	
Michael	Eclipse Foundation	x
Lukas	FH Dortmund	
Brian	Open Robotics	
Daisuke	Autoware	
Simon	AVL	x
Klaus	AVL	
Sid	Futurewei	x

Steering Committee Meeting, **General Meeting**

13.04.2021 -> 15.04.2021, 5pm - 6:30pm CEST

Agenda / Meeting Minutes

46. Welcome, Agenda

47. Antitrust Policy
 - > respect Eclipse's Anti-Trust Policy
48. Introduction of new members
49. OpenADx WG Charter Update
 - > Update Charter
50. OpenADx Timeline / Program Plan
 - a. **Roadmap for implementing the Program Plan - to be done**
 - i. <https://tuleap.eclipse.org/plugins/docman/download/2575/1>
 - b. Current EF Azure credits will be invalid mid of this year -> to be clarified with Robert, Paul and Stormy
 - c. **Azure Instance (just a Windows VM) for OpenADx demonstrator is available.**
 - i. openPASS will support with the demonstrator
 - ii. sim@openPASS could be included in the demonstrator
 - iii. OpenMCx short before release and can also be used for the demonstrator
 - iv. How can we combine all the stuff?
 - d. Our offer to help Indy Autonomous Challenge university teams [IAC ROS2 Autoware Offer](#)
 - i. early survey results from teams for what they need [IAC ROS 2 Survey - early comments.pdf](#)
51. Architecture excursion
 - a. What is architecture in our context?
 - > Presentation on 13.04.2021 by Andreas
 - > shift to next meeting
52. OpenADx Big Picture
 - > update
 - Link: <https://tuleap.eclipse.org/plugins/docman/download/2637/1>
53. Toyota adopts "ApexOS" safe ROS 2 distro from Apex.AI. Supports Apex.Middleware of OpenADx CycloneDDS+iceoryx with optional Zenoh V2X
 - a. [Toyota Selects Apex.OS To Underpin Automated Vehicle Platform](#)
 - b. TÜV Nord certified on Arm for ISO 26262 ASIL-D
 - c. [Presentation](#) about how Apex.AI made open source safe ISO 26262 ASIL-D
54. OpenADx in ROS2 & AUTOSAR Adaptive
 - a. OpenADx CycloneDDS+ iceoryx is the new default ROS 2 middleware for ROS2 Galactic.
 - b. Apex.AI & ADLINK have been busy, OpenADx open source will be automotive grade ASIL-D ISO 26262 <https://www.apex.ai/apex-middleware> (ISO26262 planned for 2022)
 - i. Cyclone DDS with built-in iceoryx and Zenoh V2X for ROS 2 and DDS community.
 - ii. iceoryx with Cyclone DDS and SOME/IP gateways for AUTOSAR Adaptive community
55. IAC - Indy Autonomous Challenge with Universities
 - a. Clemson Deep Orange 12 "DO12" team is autonomous test driving IAC racecar using OpenADx middleware in preparation for high speed exhibition. <https://cuicardeeporange.com/project/deep-orange-12/>
 - b. Clemson's IAC racecar software stack developed help from Autoware Foundation, et al. and is being given to all teams as suggested reference implementation.

- c. **Please help!** Here are some tasks
<https://gitlab.com/autowarefoundation/autoware.auto/AutowareAuto/-/issues/638>
- 56. Collaboration with Universities
 - a. IAC ... (obviously)
 - b. F1TENTH migrating to ROS 2 Foxy with Autoware.Auto autonomous driving packages and Cyclone DDS with builtin iceoryx and Zenoh V2X
 - i. **Consider sponsoring F1TENTH! Here are details & contacts**
[F1TenthFoundation Sponsorship Benefits 2021.pdf](#)
 - c. "CARMA F1TENTH" V2X led by Madhur Behl of U of Virginia
<https://github.com/usdot-fhwa-stol/carma-1-tenth>
- 57. USDOT CARMA
 - a. Progress migrating CARMA to ROS 2 Foxy with Autoware.Auto autonomous driving packages and Cyclone DDS. Will use Cyclone DDS w built-in iceoryx and Zenoh V2X
<https://discourse.ros.org/t/carma-2021-updates-and-release-plan/19791>
<https://discourse.ros.org/t/carma-migrating-to-ros-2-with-cyclonedds-and-zenoh/17541>
 - b. Link to videos
 - i. [Everything You Need to Know about CARMA](#)
 - ii. [CARMA Online Resources](#)
 - iii. [CARMA Program Part I](#)
 - iv. [CARMA Program Part II](#)
 - v. [CARMA 1Tenth](#)
 - vi. [Autoware Integration with CARMA](#)
 - vii. [Collaborate on the CARMA Platform](#)
- 58. Demonstrator
 - a. tuleap.eclipse.org/plugins/tracker/?aid=1246
 -> Update
- 59. OpenSCENARIO Implementers forum
 -> Update
 OpenSCENARIO is looking more for use-cases instead of implementations
- 60. Eclipse Automotive
 - a. OpenADx meets openPASS
 - b. [Eclipse Automotive](#)
 - i. Tractus-X as a new project proposal
[Eclipse Tractus-X Creation Review](#)
- 61. Open topics
 -> Update
- 62. OpenADx Whitepaper
 - a. next steps
 - i. add section with success stories like Toyota, Apex.AI,
 - ii. setup a meeting for an update session
 - iii. maybe an annual release of the updated whitepaper
- 63. Lead Management
 -> Update
- 64. Events
 -> Update
 - a. IAC events at Indy 500 May 26-30
 - b. ROScon with Autoware track Oct 22-23 roscon.ros.org
 - c. IAC Race at Indy Oct 23 indyautonomouschallenge.com/timeline

65. Feedback from conferences

-> Update

66. Projects

-> Update

67. Project Proposals

-> Update

68. Next steps

69. Next meeting dates

a. regular meetings are scheduled

b. There is a conflict on the Tuesday schedule, Meeting Poll is active

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	x
Joseph	Arm	x
Josko	AVL List	x
Adam	DENSO Corporation	x
Daniel	DLR	
Naci	eteration	x
Philip	EclipseSource	
Andreas	itemis	x
Michael	JCIM	
Robert	Microsoft	x
Wolfram	Red Hat	
Andy	Robert Bosch GmbH	x
Robin	Siemens	
Dominik	science+	
Paul	Eclipse Foundation	
Michael	Eclipse Foundation	x
Lukas	FH Dortmund	x
Brian	Open Robotics	
Daisuke	Autoware	
Simon	AVL	x
Klaus	AVL	

Steering Committee Meeting, Technical Meeting

09.03.2021

Agenda / Meeting Minutes

1. Welcome, Agenda
2. Antitrust Policy
 - > respect Eclipse's Anti-Trust Policy
3. Introduction of new members
4. OpenADx WG Charter Update
 - > Update and confirmation of Charter changes due to move to Europe
5. OpenADx Timeline / Program Plan
 - a. System Specification on Azure is needed
 - > Task for Demonstrator group
 - > received a specification from Simon
 - > **done**
 - b. **Roadmap for implementing the Program Plan - to be done**
 - c. Current EF Azure credits will be invalid mid of this year -> to be clarified with Robert, Paul and Stormy
 - d. **Azure Instance for OpenADx demonstrator is requested.**
 - e. Our offer to help Indy Autonomous Challenge university teams
 - <https://docs.google.com/presentation/d/132qCLn061OXGYyhh6aiEqvzH1yzDk29IAKjJpECOBLa/edit?usp=sharing>
 - i. early survey results from teams for what they need
 - https://drive.google.com/file/d/1BELYZX-WMzXu2gKFYIEVyCLFVqslBq_q/view?usp=sharing
6. Architecture excursion
 - a. What is architecture in our context?
 - > Presentation on 09.03.2021 by Andreas
7. OpenADx Big Picture
 - a. short presentation by Andy
8. Demonstrator
 - a. tuleap.eclipse.org/plugins/tracker/?aid=1246
 - b. Current state?
 - > VM will be setup for the demonstrator on an Azure instance as a playground.
 - > Eclipse ADORe for platooning is also involved now.
 - > Continuation in March
 - > Azure Instance for OpenADx demonstrator is requested.
9. OpenSCENARIO Implementers forum
 - a. There is currently an activity ongoing, hosted by ASAM, which could be of interest for OpenADx
10. Next meeting dates
 - a. regular meetings are scheduled

- b. There is a conflict on the Tuesday schedule, Meeting Poll is active



Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	x
Girish	Arm	
Josko	AVL List	x
Adam	DENSO Corporation	x
Daniel	DLR	
Naci	eteration	x
Philip	EclipseSource	
Andreas	itemis	
Michael	JCIM	
Robert	Microsoft	x
Wolfram	Red Hat	
Andy	Robert Bosch GmbH	x
Robin	Siemens	x
Dominik	science+	x
Paul	Eclipse Foundation	
Michael	Eclipse Foundation	x
Lukas	FH Dortmund	
Brian	Open Robotics	
Daisuke	Autoware	
Simon	AVL	x
Klaus	AVL	x

Steering Committee Meeting, 09.02.2021

Agenda / Meeting Minutes

Time	Topic	Result
15:30	Welcome, Agenda	
	Antitrust Policy	respect Eclipse's Anti-Trust Policy
	Introduction of new members	Welcome Arm! Welcome Michael as Eclipse Automotive representative!
	OpenADx WG Charter Update	Update and confirmation of Charter changes due to move to Europe
	OpenADx Timeline / Program Plan	<p>Program Plan for 2021 was ratified with one consent!</p> <p>-> System Specification on Azure is needed -> Task for Demonstrator group -> received a specification from Simon</p> <p>Roadmap for implementing the Program Plan - to be done</p> <p>Update on Azure Credits -> there are some discussions ongoing with Stormy Peters</p> <p>Current EF Azure credits will be invalid mid of this year -> to be clarified with Robert, Paul and Stormy</p> <p>Azure Instance for OpenADx demonstrator is requested.</p>
	Architecture excursion	Presentation on 09.02.2021 by Andreas What is architecture in our context?
	Technical sub-working group	Do we need a technical sub-working group like the demonstrator group to work explicitly on technical solutions?
	OpenSCENARIO Implementers forum	There is currently an activity ongoing, hosted by ASAM, which could be of interest for OpenADx

	OpenADx Big Picture	short presentation
	Indy Autonomous Challenge	<p>Indy Autonomous Challenge autonomous racecar unveiling at CES 2021 had 2 billion media impressions and 900 news mentions</p> <p>Encourage all of you to join and contribute engineering & sponsorship to help these university teams.</p> <p>Open source foundations are working with Clemson CU-ICAR on open source autonomy stack of Autoware.Auto on ROS 2 with OpenADx projects CycloneDDS with built-in iceoryx and Zenoh V2X.</p> <p>Will be used in high-speed exhibition lap at Indy 500 end of May and given to all IAC university teams as reference implementation.</p> <p>Joe will present a proposal for the OpenADx demonstrator? Lets try to exchange the use case truck platooning to “race car platooning”</p> <ul style="list-style-type: none"> • Indy Autonomous Challenge Press Conference at CES 2021 • https://www.indyautonomouschallenge.com/media “IN THE NEWS” • https://www.autoweek.com/racing/indycar/a35202861/autonomous-indy-car-race-indianapolis-motor-speedway/
	ROS 2 Default DDS	<p>OpenADx’s CycloneDDS project is the new default ROS middleware for Open Robotics ROS 2. It is already the default ROS middleware for Autoware Foundation autonomous driving developers. https://twitter.com/OpenRoboticsOrg/status/1339641643230613509</p> <div data-bbox="751 1435 1449 1989" style="border: 1px solid #ccc; padding: 10px;">  <p>Open Robotics @OpenRoboticsOrg</p> <p>Important Announcement:</p> <p>After careful consideration the #ROS2 TSC has selected @EclipseCyclone to be the default RMW for ROS 2 Galactic Geochelone. Find our detailed technical report and more information on ROS Discourse:</p> <p> ROS Discourse ROS 2 Galactic Default Middleware Announced Hi All, You may recall that one of our main motivations in designing ROS 2 with a middleware abstraction is to provid... discourse.ros.org</p> <p>11:40 AM · Dec 17, 2020 · Twitter Web App</p> <p>28 Retweets 8 Quote Tweets 59 Likes</p> </div> <p>https://iot.eclipse.org/adopters/#iot.cyclonedds it takes 2 minutes to add your logo to OpenADx projects</p>

	USDOT CARMA adopts OpenADx	USDOT CARMA is migrating to Autoware.Auto ROS 2 with OpenADx CycloneDDS with built-in iceoryx and Zenoh V2X https://discourse.ros.org/t/carma-migrating-to-ros-2-with-cyclonedds-and-zenoh/17541
	Collaboration with universities	Contact Universities to talk about OpenADx there? Contact: HS Kempten : https://www.linkedin.com/in/stefan-alexander-dr-schnaider-0760671/ HS HN, DHBW Stuttgart, ... https://www.fkfs-veranstaltungen.de/20-internationales-stuttgarter-symposium/call-for-papers IAC is great way to engage 40 universities https://www.indyautonomouschallenge.com/teams Joe's IEEE IV2020 IAC talk
	openMDM meets OpenADx	On hold - till Program Plan is finished Collection of Use Cases - how to handle? Soheila will share the provided document, we should setup a further meeting with some openMDM colleagues for more insights in openMDM to fill the doc uploaded in tuleap: https://tuleap.eclipse.org/plugins/document/openadx-wg-private/ Ask demonstrator team, if we should invite openMDM people to bring the demonstrator forward. First we should have the first architecture ready, before we include openMDM, but it makes sense to do that.
	new TLP (Top Level Project)	a new TLP "Automotive" will be established in January, related projects will moved to the new TLP in February
	Eclipse Cyclone DDS	Any news on that? https://discourse.ros.org/t/community-feedback-default-rmw-for-ros-2-galactic/16450 Feedback was very good! https://osrf.github.io/TSC-RMW-Reports/ Add your logo to show support for open source
	Open topics	tuleap.eclipse.org/projects/openadx-wg-private

		Please work on the open topics!
	Demonstrator	tuleap.eclipse.org/plugins/tracker/?aid=1246 Current state? VM will be setup for the demonstrator on an Azure instance as a playground. Eclipse ADORe for platooning is also involved now. Continuation in January Azure Instance for OpenADx demonstrator is requested.
	OpenADx Whitepaper	Should be a constant activity to have an up-to-date whitepaper -> OpenADx Program Plan
	Lead Management	“OEMs” or “AV makers”? focus on fast movers tuleap.eclipse.org/plugins/tracker/?aid=1236 Membership queue -> Paul provides a template
	Upcoming events e.g. overall meetings, meeting at some conferences	<ul style="list-style-type: none"> • June, San Jose - Autonomous Valet Parking (AVP) Lexus SUV running Autoware.auto + OpenADx Eclipse Cyclone DDS in June, San Jose. autoware.org click “members”, coordinate some press / social. -> date shifted to later this year • Autonomous Software and System Symposium, 16-18 June 2020, Stuttgart -> shifted to June 8 - 10, 2021 https://www.autonomousvehicletechnologyexpo.com/en/ • Autonomous Software and System Symposium, virtual life December 8 - 10, 2020 https://www.autonomousvehiclevirtuallylive.com/en/index.php • Open Robotics ROScon 2020 -> 2021 delayed, will have a virtual event in fall instead
	Feedback from conferences	
	Projects / Project Proposals	
	Next steps	
	Next meeting dates	regular meetings are scheduled There is a conflict on the Tuesday schedule, is Monday also possible?
17:00	End	

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	x
Girish	Arm	
Josko	AVL List	
Adam	DENSO Corporation	x
Daniel	DLR	
Naci	eteration	
Philip	EclipseSource	
Andreas	itemis	x
Michael	JCIM	
Robert	Microsoft	x
Wolfram	Red Hat	
Andy	Robert Bosch GmbH	x
Robin	Siemens	
Dominik	science+	
Paul	Eclipse Foundation	
Michael	Eclipse Foundation	x
Lukas	FH Dortmund	x
Brian	Open Robotics	
Daisuke	Autoware	
Simon	AVL	x
Klaus	AVL	x

Steering Committee Meeting, 12.01.2021

Agenda / Meeting Minutes

Time	Topic	Result
15:30	Welcome, Agenda	
	Antitrust Policy	respect Eclipse's Anti-Trust Policy
	Introduction of new members	Welcome Arm!
	OpenADx Timeline / Program Plan	<p>-> System Specification on Azure is needed -> Task for Demonstrator group -> Josko will do</p> <p>Roadmap for implementing the Program Plan - to be done</p> <p>Update on Azure Credits -> there are some discussions ongoing with Stormy Peters</p> <p>Current EF Azure credits will be invalid mid of this year -> to be clarified with Robert, Paul and Stormy</p>
	Architecture excursion	Presentation on 12.01.2021 by Andreas What is architecture in our context?
	Indy Autonomous Challenge	<p>Joe will present a proposal for the OpenADx demonstrator?</p> <p>Lets try to exchange the use case truck platooning to "race car platooning"</p> <p>Indy Autonomous Challenge Press Conference at CES 2021</p>
	ROS 2 Default DDS	<p>ROS 2 TSC meeting Nov 19, vote Dec 3-10th Need your help to promote OpenADx's Eclipse Cyclone DDS, show community support. https://iot.eclipse.org/adopters/#iot.cyclonedds it takes 2 minutes to add your logo to OpenADx projects</p> <p>CycloneDDS elected as Default ROS2 MW!!</p>

	<p>Collaboration with universities</p>	<p>Contact Universities to talk about OpenADx there?</p> <p>Contact: HS Kempten : https://www.linkedin.com/in/stefan-alexander-dr-schnaider-0760671/ HS HN, DHBW Stuttgart, ...</p> <p>https://www.fkfs-veranstaltungen.de/20-internationale-s-stuttgarter-symposium/call-for-papers</p> <p>IAC is great way to engage 40 universities https://www.indyautonomouschallenge.com/teams</p> <p>Joe's IEEE IV2020 IAC talk</p>
	<p>openMDM meets OpenADx</p>	<p>On hold - till Program Plan is finished</p> <p>Collection of Use Cases - how to handle?</p> <p>Soheila will share the provided document, we should setup a further meeting with some openMDM colleagues for more insights in openMDM to fill the doc</p> <p>uploaded in tuleap: https://tuleap.eclipse.org/plugins/document/openadx-wg-private/</p> <p>Ask demonstrator team, if we should invite openMDM people to bring the demonstrator forward. First we should have the first architecture ready, before we include openMDM. but it makes sense to do that.</p>
	<p>new TLP (Top Level Project)</p>	<p>a new TLP "Automotive" will be established in January, related projects will moved to the new TLP in February</p>
	<p>Eclipse Cyclone DDS</p>	<p>Any news on that? https://discourse.ros.org/t/community-feedback-default-rmw-for-ros-2-galactic/16450 Feedback was very good!</p> <p>https://osrf.github.io/TSC-RMW-Reports/</p> <p>Add your logo to show support for open source</p>
	<p>Open topics</p>	<p>tuleap.eclipse.org/projects/openadx-wg-private</p> <p>Please work on the open topics!</p>
	<p>Demonstrator</p>	<p>tuleap.eclipse.org/plugins/tracker/?aid=1246</p> <p>Current state?</p>

		<p>VM will be setup for the demonstrator on an Azure instance as a playground. Eclipse ADORe for platooning is also involved now.</p> <p>Continuation in January</p>
	OpenADx Whitepaper	Should be a constant activity to have an up-to-date whitepaper -> OpenADx Program Plan
	Lead Management	<p>“OEMs” or “AV makers”? focus on fast movers tuleap.eclipse.org/plugins/tracker/?aid=1236</p> <p>Membership queue -> Paul provides a template</p>
	Upcoming events e.g. overall meetings, meeting at some conferences	<ul style="list-style-type: none"> • June, San Jose - Autonomous Valet Parking (AVP) Lexus SUV running Autoware.auto + OpenADx Eclipse Cyclone DDS in June, San Jose. autoware.org click “members”, coordinate some press / social. -> date shifted to later this year • Autonomous Software and System Symposium, 16-18 June 2020, Stuttgart -> shifted to June 8 - 10, 2021 https://www.autonomousvehicletechnologyexpo.com/en/ • Autonomous Software and System Symposium, virtual 'life' December 8 - 10, 2020 https://www.autonomousvehiclevirtuallive.com/en/index.php • Open Robotics ROScon 2020 -> 2021 delayed, will have a virtual event in fall instead
	Feedback from conferences	
	Projects / Project Proposals	
	Next steps	
	Next meeting dates	12.01.2021, Change the frequency to once a month, every second Tuesday 15:30 - 17:00
17:00	End	

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	
Girish	Arm	

Josko	AVL List	
Adam	DENSO Corporation	x
Naci	eteration	
Andreas	itemis	
Michael	JCIM	x
Robert	Microsoft	x
Wolfram	Red Hat	
Andy	Robert Bosch GmbH	x
Robin	Siemens	x
Paul	Eclipse Foundation	

Steering Committee Meeting, 01.12.2020 -> 09.12.2020

Agenda / Meeting Minutes

Time	Topic	Result
16:30	Welcome, Agenda	
	Antitrust Policy	respect Eclipse's Anti-Trust Policy
	Introduction of new members	-
	OpenADx Timeline / Program Plan	<p>Decide and confirm on Program Plan</p> <p>https://docs.google.com/presentation/d/1SEZksHSVPePc_5MWfZv8jnuLXDg-m5VnKkLc5zB58DU</p> <p>(no fear - working copy is archived ;-))</p> <p>Overhead for fee collection is high -> reduce fees to 0 -> have a look every 6 weeks on the Azure credits provided by Microsoft -> System Specification on Azure is needed -> Task for Demonstrator group -> Josko will do</p> <p>Paul will provide an email for program approval -> n circulation</p>

		Roadmap for implementing the Program Plan - to be done
	Architecture excursion	Presentation on 12.01.2021 by Andreas What is architecture in our context?
	Indy Autonomous Challenge	Joe will present a proposal for the OpenADx demonstrator? Lets try to exchange the use case truck platooning to "race car platooning"
	ROS 2 Default DDS	ROS 2 TSC meeting Nov 19, vote Dec 3-10th Need your help to promote OpenADx's Eclipse Cyclone DDS, show community support. https://iot.eclipse.org/adopters/#iot.cyclonedds it takes 2 minutes to add your logo to OpenADx projects CycloneDDS elected as Default ROS2 MW!!
	Collaboration with universities	Contact Universities to talk about OpenADx there? Contact: HS Kempten : https://www.linkedin.com/in/stefan-alexander-dr-schnaider-0760671/ HS HN, DHBW Stuttgart, ... https://www.fkfs-veranstaltungen.de/20-internationale-s-stuttgarter-symposium/call-for-papers IAC is great way to engage 40 universities https://www.indyautonomouschallenge.com/teams Joe's IEEE IV2020 IAC talk
	openMDM meets OpenADx	On hold - till Program Plan is finished Collection of Use Cases - how to handle? Soheila will share the provided document, we should setup a further meeting with some openMDM colleagues for more insights in openMDM to fill the doc uploaded in tuleap: https://tuleap.eclipse.org/plugins/document/openadx-wg-private/ Ask demonstrator team, if we should invite openMDM people to bring the demonstrator forward. First we should have the first architecture ready, before we include openMDM, but it makes sense to do that.
	Eclipse Cyclone DDS	Any news on that?

		https://discourse.ros.org/t/community-feedback-default-rmw-for-ros-2-galactic/16450 Feedback was very good! https://osrf.github.io/TSC-RMW-Reports/ Add your logo to show support for open source
	Open topics	tuleap.eclipse.org/projects/openadx-wg-private Please work on the open topics!
	Demonstrator	tuleap.eclipse.org/plugins/tracker/?aid=1246 Current state? VM will be setup for the demonstrator on an Azure instance as a playground. Eclipse ADORe for platooning is also involved now. Continuation in January
	OpenADx Whitepaper	Should be a constant activity to have an up-to-date whitepaper -> OpenADx Program Plan
	Lead Management	“OEMs” or “AV makers”? focus on fast movers tuleap.eclipse.org/plugins/tracker/?aid=1236 Membership queue -> Paul provides a template
	Upcoming events e.g. overall meetings, meeting at some conferences	<ul style="list-style-type: none"> • June, San Jose - Autonomous Valet Parking (AVP) Lexus SUV running Autoware.auto + OpenADx Eclipse Cyclone DDS in June, San Jose. autoware.org click “members”, coordinate some press / social. -> date shifted to later this year • Autonomous Software and System Symposium, 16-18 June 2020, Stuttgart -> shifted to June 8 - 10, 2021 https://www.autonomousvehicletechnologyexpo.com/en/ • Autonomous Software and System Symposium, virtual 'life' December 8 - 10, 2020 https://www.autonomousvehiclevirtuallive.com/en/index.php • Open Robotics ROScon 2020 -> 2021 delayed, will have a virtual event in fall instead
	Feedback from conferences	
	Projects / Project Proposals	
	Next steps	

	Next meeting dates	12.01.2021, Change the frequency to once a month, every second Tuesday 15:30 - 17:00
18:00	End	

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	
Josko	AVL List	x
Adam	DENSO Corporation	x
Naci	eteration	
Andreas	itemis	
Michael	JCIM	
Robert	Microsoft	x
Wolfram	Red Hat	x
Andy	Robert Bosch GmbH	x
Robin	Siemens	x
Paul	Eclipse Foundation	x

Steering Committee Meeting, 10.11.2020

Agenda / Meeting Minutes

Time	Topic	Result
15:30	Welcome, Agenda	
	Antitrust Policy	respect Eclipse's Anti-Trust Policy
	Introduction of new members	-

	Architecture excursion	<p>Presentation on 10.11. by Andreas What is architecture in our context?</p> <p>→ next meeting?</p>
	Indy Autonomous Challenge	Joe will present a proposal for the OpenADx demonstrator?
	ROS 2 Default DDS	<p>ROS 2 TSC meeting Nov 19, vote Dec 3-10th Need your help to promote OpenADx's Eclipse Cyclone DDS, show community support. https://iot.eclipse.org/adopters/#iot.cyclonedds it takes 2 minutes to add your logo to OpenADx projects</p>
	Collaboration with universities	<p>Contact Universities to talk about OpenADx there?</p> <p>Contact: HS Kempten : https://www.linkedin.com/in/stefan-alexander-dr-schneider-0760671/ HS HN, DHBW Stuttgart, ...</p> <p>https://www.fkfs-veranstaltungen.de/20-internationale-s-stuttgarter-symposium/call-for-papers</p> <p>IAC is great way to engage 40 universities https://www.indyautonomouschallenge.com/teams</p> <p>Joe's IEEE IV2020 IAC talk</p>
	OpenADx Timeline / Program Plan	<p>Further meetings are scheduled</p> <p>Link to Program Plan Presentation: https://docs.google.com/presentation/d/1SEZksHSVPePc_5MWfZv8jnuLXDg-m5VnKkLc5zB58DU</p> <p>Link to Program Plan https://docs.google.com/document/d/16tVPPZ_IBtW2iEPTz9t2I4UBVvWrQd5DUMK1MNbZYm0/edit#heading=h.i7aolfmhzyhr</p> <p>We will change the format to presentation and keep the Google doc as backlog</p>
	openMDM meets OpenADx	<p>On hold - till Program Plan is finished</p> <p>Collection of Use Cases - how to handle?</p> <p>Soheila will share the provided document, we should setup a further meeting with some openMDM colleagues for more insights in openMDM to fill the doc</p> <p>uploaded in tuleap: https://tuleap.eclipse.org/plugins/document/openadx-</p>

		<p>wg-private/</p> <p>Ask demonstrator team, if we should invite openMDM people to bring the demonstrator forward. First we should have the first architecture ready, before we include openMDM, but it makes sense to do that.</p>
	Eclipse Cyclone DDS	<p>Any news on that?</p> <p>https://discourse.ros.org/t/community-feedback-default-rmw-for-ros-2-galactic/16450</p> <p>Feedback was very good!</p> <p>https://osrf.github.io/TSC-RMW-Reports/</p> <p>Add your logo to show support for open source</p>
	Open topics	<p>tuleap.eclipse.org/projects/openadx-wg-private</p> <p>Please work on the open topics!</p>
	Demonstrator	<p>tuleap.eclipse.org/plugins/tracker/?aid=1246</p> <p>Current state?</p> <p>VM will be setup for the demonstrator on an Azure instance as a playground. Eclipse ADORe for platooning is also involved now.</p>
	OpenADx Whitepaper	<p>Should be a constant activity to have an up-to-date whitepaper -> OpenADx Program Plan</p>
	Lead Management	<p>“OEMs” or “AV makers”? focus on fast movers</p> <p>tuleap.eclipse.org/plugins/tracker/?aid=1236</p>
	Upcoming events e.g. overall meetings, meeting at some conferences	<ul style="list-style-type: none"> • June, San Jose - Autonomous Valet Parking (AVP) Lexus SUV running Autoware.auto + OpenADx Eclipse Cyclone DDS in June, San Jose. autoware.org click “members”, coordinate some press / social. -> date shifted to later this year • Autonomous Software and System Symposium, 46-18 June 2020, Stuttgart -> shifted to June 8 - 10, 2021 https://www.autonomousvehicletechnologyexpo.com/en/ • Autonomous Software and System Symposium, virtual ‘life’ December 8 - 10, 2020 https://www.autonomousvehiclevirtuallive.com/en/index.php • Open Robotics ROScon 2020 -> 2021 delayed, will have a virtual event in fall instead
	Feedback from conferences	

	Projects / Project Proposals	
	Next steps	
	Next meeting dates	01.12.2020, 22.12.2020 , 12.01.2021,
17:00	End	

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	x
Josko	AVL List	x
Adam	DENSO Corporation	x
Naci	eteration	x
Andreas	itemis	
Michael	JCIM	
Robert	Microsoft	
Wolfram	Red Hat	x
Andy	Robert Bosch GmbH	x
Robin	Siemens	x
Paul	Eclipse Foundation	

Steering Committee Meeting - extended, 27.10.2020

Agenda / Meeting Minutes

Time	Topic	Result
15:30	Welcome, Agenda	
	Antitrust Policy	respect Eclipse's Anti-Trust Policy
	Introduction of new members	
	Architecture excursion	Presentation on 27.10. by Andreas What is architecture in our context? → next meeting
	Indy Autonomous Challenge	Joe will present a proposal?
	Collaboration with universities	Contact Universities to talk about OpenADx there? Contact: HS Kempten : https://www.linkedin.com/in/stefan-alexander-dr-schnaider-0760671/ HS HN, DHBW Stuttgart, ... https://www.fkfs-veranstaltungen.de/20-internationales-stuttgarter-symposium
	Steering Committee composition	We try with this combination: SC meeting and SC meeting extended SC meeting composition (see: https://wiki.eclipse.org/OpenADx#Steering_Committee_2020.2F2021)
	Program Plan and Budget Process	Presentation by Paul
	OpenADx Timeline / Program Plan	Link to Program Plan https://docs.google.com/document/d/16tVPPZ_IBtW2jEPTz9t2I4UBVvWrQd5DUMK1MNbZYm0/edit#heading=h.i7aolfmhzyhr Andy has to setup further meetings for the program plan. We will change the format to presentation and keep the Google doc as backlog

	openMDM meets OpenADx	<p>Collection of Use Cases - how to handle?</p> <p>Soheila will share the provided document, we should setup a further meeting with some openMDM colleagues for more insights in openMDM to fill the docu uploaded in tuleap: https://tuleap.eclipse.org/plugins/document/openadx-wg-private/</p> <p><u>Ask demonstrator team, if we should invite openMDM people to bring the demonstrator forward. First we should have the first architecture ready, before we include openMDM, but it makes sense to do that.</u></p>
	Eclipse Cyclone DDS	<p>Any news on that? https://discourse.ros.org/t/community-feedback-default-rmw-for-ros-2-galactic/16450</p> <p><u>Add your logo to show support for open source</u></p> <ol style="list-style-type: none"> 1. OpenADx Eclipse Cyclone DDS project is now Autoware Foundation's default for autonomous driving development. <ol style="list-style-type: none"> a. Is built-in and the default for the "Autoware Dev Env" docker used by all developers. b. Iceoryx is being built into cyclonedds which means Iceoryx zero-copy will be default. 2. Open Robotics and ROS 2 TSC decided to evaluate for ROS 2 default with decision before the end of November. <ol style="list-style-type: none"> a. ROS 2 Middleware WG is leading the selection of evaluation criteria b. MW WG needs testimonials with with details from users. c. MW WWG will produce a report for Open Robotics & the ROS 2 TSC d. Open Robotics & ROS 2 TSC will make the decision <p>Autoware autonomous driving for Open Robotics ROS</p> <ul style="list-style-type: none"> • OpenADx's Tier 1 ROS middleware now passes green for all Autoware CI tests • Autoware SW WG is recommending to Autoware TSC that it be Autoware's default. Autoware TSC meets July 15th. • Autoware is joining OpenADx • optimizations with Autoware, Box Robotics, Robotec.ai, Ouster improved out of the box loopback throughput using defaults by 2.4x to 11Gbs on 2019 Macbook Pro

		<p>eclipse-cyclonedds/cyclonedds/pull/558</p> <p>OpenADx AD middleware cyclonedds+iceoryx:</p> <ul style="list-style-type: none"> ● architecture A - cyclonedds with built-in iceoryx zero-copy shared memory work in progress eclipse-cyclonedds/cyclonedds/pull/462 ● architecture B - iceoryx with cyclonedds gateway for open source AUTOSAR Adaptive middleware stack. 1st release, 2nd is coming eclipse/iceoryx/tree/master/iceoryx_dds <p><u>New adopters:</u></p> <ul style="list-style-type: none"> ● Arm adopted and is looking at contributing DDS Security TrustZone support, performance profiling & optimization, FuSa ● Robotec.ai adopted and is testing Autoware LiDAR point cloud optimizations. Got >2x improvement from 4.5Gbs to 11Gbs on 2019 Macbook Pro. ● additional announcements coming soon <p>old business:</p> <ul style="list-style-type: none"> ● Open Robotics ROS 2 Foxy Fitzroy released June 5th with Eclipse Cyclone DDS Tier 1 ROS middleware. NOTE: ROS 264M downloads this past year ● Highlighted in AWS RoboMaker blog https://aws.amazon.com/blogs/robotics/ros-2-foxy-fitzroy-robot-development/ ● https://blogs.eclipse.org/post/frédéric-desbiens/robotic-dream-team-ros-2-and-cyclone-dds ● Open Robotics will evaluate making it the default. Update Foxy via rolling update if so. ● US DOT CARMA with SUMO + OpenADx CycloneDDS ... getting much interest in “collaborative driving” V2V, V2X with OpenADx tech
	Open topics	<p>tuleap.eclipse.org/projects/openadx-wg-private</p> <p>Please work on the open topics!</p>
	Demonstrator	<p>tuleap.eclipse.org/plugins/tracker/?aid=1246</p> <p>Current state?</p> <p>VM will be setup for the demonstrator on an Azure instance as a playground.</p>
	OpenADx Whitepaper	Should we start working on an update?

		Decision on, if we continue on extension of the whitepaper. SHould be a constant activity to have an up-to-date whitepaper -> OpenADx Program Plan
	Lead Management	“OEMs” or “AV makers”? focus on fast movers tuleap.eclipse.org/plugins/tracker/?aid=1236
	Upcoming events e.g. overall meetings, meeting at some conferences	<ul style="list-style-type: none"> • June, San Jose - Autonomous Valet Parking (AVP) Lexus SUV running Autoware.auto + OpenADx Eclipse Cyclone DDS in June, San Jose. autoware.org click “members”, coordinate some press / social. -> date shifted to later this year • show your support iot.eclipse.org/adopters • Autonomous Software and System Symposium, 16-18 June 2020, Stuttgart -> shifted to June 8 - 10, 2021 https://www.autonomousvehicletechnologyexpo.com/en/ • Open Robotics ROScon 2020 -> 2021 delayed, will have a virtual event in fall instead • https://www.autonomousvehiclive.com/en/index.php
	Feedback from conferences	EclipseCon was a great event SUMO DVCon
	Projects / Project Proposals	Current state OpenMCx
	Next steps	
	Next meeting dates	
17:00	End	

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	x
Josko	AVL List	x
Simon	AVL List	
Adam	DENSO Corporation	x
Soheila	DENSO Corporation	x

Naci	eteration	
Philip	EclipseSource	
Andreas	itemis	x
Michael	JCIM	
Robert	Microsoft	
Wolfram	Red Hat	
Andy	Robert Bosch GmbH	x
Dominik	Science+	x
Robin	Siemens	x
Paul	Eclipse Foundation	x

Steering Committee Meeting, 29.09.2020

Agenda / Meeting Minutes

Time	Topic	Result
15:30	Welcome, Agenda	
	Antitrust Policy	respect Eclipse's Anti-Trust Policy
	Introduction of new members	The Autoware Foundation
	Architecture excursion	Presentation on 29.09. by Andreas What is architecture in our context?
	39 Universities and the Indy Autonomous Challenge	Joe will present a proposal https://discourse.ros.org/t/community-feedback-default-rmw-for-ros-2-galactic/16450 ?? (Joe, did you bring this up?) Projects or activities for universities? Contact Universities to talk about OpenADx there? Contact: HS Kempten : https://www.linkedin.com/in/stefan-alexander-dr-schn

		eider-0760671/ HS HN, DHBW Stuttgart, ... https://www.fkfs-veranstaltungen.de/20-internationale-s-stuttgarter-symposium
	Steering Committee composition	Composition (see: https://wiki.eclipse.org/OpenADx#Steering_Committee_2020.2F2021) Proposal: SC Meeting will continue with ALL members, for decisions, only elected SC members will have a vote Option: SC meeting and SC meeting extended
	OpenADx Timeline / Program Plan	Link to Program Plan https://docs.google.com/document/d/16tVPPZ_IBtW2iEPTz9t2I4UBVvWrQd5DUMK1MNbZYm0/edit#heading=h.i7aolfmhzyhr Meetings scheduled for 05.10. and 14.10.
	openMDM meets OpenADx	Collection of Use Cases - how to handle? Soheila will share the provided document, we should setup a further meeting with some openMDM colleagues for more insights in openMDM to fill the doc uploaded in tuleap: https://tuleap.eclipse.org/plugins/document/openadx-wg-private/ Ask demonstrator team, if we should invite openMDM people to bring the demonstrator forward. First we should have the first architecture ready, before we include openMDM, but it makes sense to do that.
	Eclipse Cyclone DDS	Add your logo to show support for open source <ol style="list-style-type: none"> 3. OpenADx Eclipse Cyclone DDS project is now Autoware Foundation's default for autonomous driving development. <ol style="list-style-type: none"> a. Is built-in and the default for the "Autoware Dev Env" docker used by all developers. b. Iceoryx is being built into cyclonedds which means Iceoryx zero-copy will be default. 4. Open Robotics and ROS 2 TSC decided to evaluate for ROS 2 default with decision before the end of November. <ol style="list-style-type: none"> a. ROS 2 Middleware WG is leading the selection of evaluation criteria b. MW WG needs testimonials with with

- details from users.
- c. MW WWG will produce a report for Open Robotics & the ROS 2 TSC
 - d. Open Robotics & ROS 2 TSC will make the decision

5.

[Autoware](#) autonomous driving for Open Robotics ROS

- OpenADx's [Tier 1 ROS middleware](#) now passes green for all Autoware CI tests
- Autoware SW WG is recommending to Autoware TSC that it be Autoware's default. Autoware TSC meets July 15th.
- Autoware is joining OpenADx
- optimizations with Autoware, Box Robotics, [Robotec.ai](#), Ouster improved out of the box loopback throughput using defaults by 2.4x to 11Gbs on 2019 Macbook Pro
[eclipse-cyclonedds/cyclonedds/pull/558](#)

OpenADx AD middleware cyclonedds+iceoryx:

- **architecture A** - cyclonedds with built-in iceoryx zero-copy shared memory work in progress
[eclipse-cyclonedds/cyclonedds/pull/462](#)
- **architecture B** - iceoryx with cyclonedds gateway for open source AUTOSAR Adaptive middleware stack. 1st release, 2nd is coming
[eclipse/iceoryx/tree/master/iceoryx_dds](#)

[New adopters:](#)

- [Arm](#) adopted and is looking at contributing DDS Security TrustZone support, performance profiling & optimization, FuSa
- [Robotec.ai](#) adopted and is testing [Autoware](#) LiDAR point cloud optimizations. [Got >2x improvement from 4.5Gbs to 11Gbs](#) on 2019 Macbook Pro.
- additional announcements coming soon

old business:

- [Open Robotics ROS 2 Foxy Fitzroy released June 5th](#) with [Eclipse Cyclone DDS Tier 1 ROS middleware](#). NOTE: ROS 264M downloads this past year
- Highlighted in AWS RoboMaker blog <https://aws.amazon.com/blogs/robotics/ros-2-foxy-fitzroy-robot-development/>
- <https://blogs.eclipse.org/post/frédéric-desbiens/robotic-dream-team-ros-2-and-cyclone-dds>

		<ul style="list-style-type: none"> • Open Robotics will evaluate making it the default. Update Foxy via rolling update if so. • US DOT CARMA with SUMO + OpenADx CycloneDDS ... getting much interest in “collaborative driving” V2V, V2X with OpenADx tech
	Open topics	tuleap.eclipse.org/projects/openadx-wg-private Please work on the open topics!
	EclipseCon 2020	Community Day preparation
	Demonstrator	tuleap.eclipse.org/plugins/tracker/?aid=1246 Demonstrator talks are continued -> KickOff about to be starting in a few days. Autoware demonstrator vehicle (Lexus) running Cyclone DDS How can we bring OpenADx Demonstrator and Autoware together? Joint Strategy for ROS and Autoware with OpenADx (an example: diyrobocars)
	OpenADx Whitepaper	Should we start working on an update? Decision on, if we continue on extension of the whitepaper.
	Lead Management	“OEMs” or “AV makers”? focus on fast movers tuleap.eclipse.org/plugins/tracker/?aid=1236
	Upcoming events e.g. overall meetings, meeting at some conferences	<ul style="list-style-type: none"> • June, San Jose - Autonomous Valet Parking (AVP) Lexus SUV running Autoware.auto + OpenADx Eclipse Cyclone DDS in June, San Jose. autoware.org click “members”, coordinate some press / social. -> date shifted to later this year • show your support iot.eclipse.org/adopters • Autonomous Software and System Symposium, 16-18 June 2020, Stuttgart -> shifted to June 8 - 10, 2021 https://www.autonomousvehicletechnologyexpo.com/en/ • Open Robotics ROScon 2020 -> 2021 delayed, will have a virtual event in fall instead
	Feedback from conferences	
	Projects / Project Proposals	Current state OpenMCx
	Next steps	

	Next meeting dates	
17:00	End	

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	x
Josko	AVL List	
Simon	AVL List	x
Adam	DENSO Corporation	x
Soheila	DENSO Corporation	x
Naci	eteration	
Philip	EclipseSource	
Andreas	itemis	
Michael	JCIM	x
Robert	Microsoft	
Wolfram	Red Hat	x
Andy	Robert Bosch GmbH	x
Dominik	Science+	x
Robin	Siemens	x
Paul	Eclipse Foundation	x

Steering Committee Meeting, 08.09.2020

canceled due to vacation time

Steering Committee Meeting, 18.08.2020

Agenda / Meeting Minutes

Time	Topic	Result
15:30	Welcome, Agenda	
	Antitrust Policy	respect Eclipse's Anti-Trust Policy
	Introduction of new members	
	Presentation by ASAM	https://www.linkedin.com/posts/benjamin-engel_2020-07-29osicrashcourse-activity-6694978591526068224-oD5h
	Architecture excursion	Presentation on 29.09. by Andreas What is architecture in our context?
	Universities	?? (Joe, did you bring this up?) Projects or activities for universities? Contact Universities to talk about OpenADx there? Contact: HS Kempten : https://www.linkedin.com/in/stefan-alexander-dr-schnaider-0760671/ HS HN, DHBW Stuttgart, ... https://www.fkfs-veranstaltungen.de/20-internationale-s-stuttgarter-symposium
	Steering Committee composition	Call for nomination started
	OpenADx Timeline / Program Plan	Expectation for 2020/21 Andy will invite for a further meeting / workshop (topics: AD stack, tooling, ...) Link to Program Plan https://docs.google.com/document/d/16tVPPZ_IBtW2iEPTz9t2I4UBVvWrQd5DUMK1MNbZYm0/edit#heading=h.i7aolfmhzyhr Some extra meetings will be necessary for defining the program plan You can use the file as brainstorming. What date will be best for you?

	openMDM meets OpenADx	<p>Collection of Use Cases - how to handle?</p> <p>Soheila will share the provided document, we should setup a further meeting with some openMDM colleagues for more insights in openMDM to fill the doc</p> <p>uploaded in tuleap: https://tuleap.eclipse.org/plugins/document/openadx-wg-private/</p> <p>Ask demonstrator team, if we should invite openMDM people to bring the demonstrator forward. First we should have the first architecture ready, before we include openMDM, but it makes sense to do that.</p>
	Eclipse Cyclone DDS	<p>Add your logo to show support for open source</p> <p>Is topic of Philly ROS Virtual Meetup July 20th, AWS Mfr Day talk July 20th, 2x proposed EclipseCon talks</p> <p>Autoware autonomous driving for Open Robotics ROS</p> <ul style="list-style-type: none"> • OpenADx's Tier 1 ROS middleware now passes green for all Autoware CI tests • Autoware SW WG is recommending to Autoware TSC that it be Autoware's default. Autoware TSC meets July 15th. • Autoware is joining OpenADx • optimizations with Autoware, Box Robotics, Robotec.ai, Ouster improved out of the box loopback throughput using defaults by 2.4x to 11Gbs on 2019 Macbook Pro eclipse-cyclonedds/cyclonedds/pull/558 <p>OpenADx AD middleware cyclonedds+iceoryx:</p> <ul style="list-style-type: none"> • architecture A - cyclonedds with built-in iceoryx zero-copy shared memory work in progress eclipse-cyclonedds/cyclonedds/pull/462 • architecture B - iceoryx with cyclonedds gateway for open source AUTOSAR Adaptive middleware stack. 1st release, 2nd is coming eclipse/iceoryx/tree/master/iceoryx_dds <p>New adopters:</p> <ul style="list-style-type: none"> • Arm adopted and is looking at contributing DDS Security TrustZone support, performance profiling & optimization, FuSa • Robotec.ai adopted and is testing Autoware LiDAR point cloud optimizations. Got >2x

		<p>improvement from 4.5Gbs to 11Gbs on 2019 Macbook Pro.</p> <ul style="list-style-type: none"> • additional announcements coming soon <p>old business:</p> <ul style="list-style-type: none"> • Open Robotics ROS 2 Foxy Fitzroy released June 5th with Eclipse Cyclone DDS Tier 1 ROS middleware. NOTE: ROS 264M downloads this past year • Highlighted in AWS RoboMaker blog https://aws.amazon.com/blogs/robotics/ros-2-foxy-fitzroy-robot-development/ • https://blogs.eclipse.org/post/frédéric-desbiens/robotic-dream-team-ros-2-and-cyclone-dds • Open Robotics will evaluate making it the default. Update Foxy via rolling update if so. • Adoption is strong. For example Linaro's 96boards and AutoCore.ai. Many public adopters https://iot.eclipse.org/adopters/#iot.cyclonedds • Central to ITRI + Tier IV + ADLINK AV program • Show your support for OpenADx open source, takes 2 minutes • Finishing fixing Autoware CI tests for Eclipse Cyclone DDS built-in as default. Had failed because "cyclonedds is too fast" • NOTE: Autoware near-term focus is now autonomous cargo ... because COVID? • Should Autoware + OpenADx join each other? Yes, refresh the conversation • Showcased for autonomous cargo in upcoming AWS Manufacturing Day July 22nd • EclipseCon: "Real-Time LiDAR Perception in Open Robotics ROS 2 Foxy with Eclipse Cyclone DDS" https://www.eclipsecon.org/2020/sessions/building-scaled-110-autonomous-cars-eclipse-technologies • Ouster digital LIDAR driver + Cyclone DDS optimization for large point clouds work being done for Box Robotics + ADLINK + Ouster + AWS RoboMaker solution. • iceoryx released 1st version of CycloneDDS gateway for AUTOSAR Adaptive, et al. • Started building iceoryx into CycloneDDS for ROS2 & Autoware ... but stalled because Foxy release interruptions • US DOT CARMA with SUMO + OpenADx CycloneDDS ... getting much interest in "collaborative driving" V2V, V2X with OpenADx tech
	Open topics	tuleap.eclipse.org/projects/openadx-wg-private

		Please work on the open topics!
	EclipseCon 2020	Community Day preparation
	Demonstrator	<p>tuleap.eclipse.org/plugins/tracker/?aid=1246</p> <p>Demonstrator talks are continued -> KickOff about to be starting in a few days.</p> <p>Autoware demonstrator vehicle (Lexus) running Cyclone DDS</p> <p>How can we bring OpenADx Demonstrator and Autoware together? Joint Strategy for ROS and Autoware with OpenADx (an example: diyrobocars)</p>
	OpenADx Whitepaper	<p>Whitepaper is released and available on our website.</p> <p>Decision on, if we continue on extension of the whitepaper.</p> <p>Participation rate was low the last meetings. How can we attract people with such activities?</p>
	Lead Management	<p>“OEMs” or “AV makers”? focus on fast movers tuleap.eclipse.org/plugins/tracker/?aid=1236</p>
	Upcoming events e.g. overall meetings, meeting at some conferences	<ul style="list-style-type: none"> • June, San Jose - date shifted to later this year">Autonomous Valet Parking (AVP) Lexus SUV running Autoware.auto + OpenADx Eclipse Cyclone DDS in June, San Jose. autoware.org click “members”, coordinate some press / social. -> date shifted to later this year • show your support iot.eclipse.org/adopters • Autonomous Software and System Symposium, 46-18 June 2020, Stuttgart -> shifted to June 8 - 10, 2021 https://www.autonomousvehicletechnologyexpo.com/en/ • Open Robotics ROScon 2020 -> 2021 delayed, will have a virtual event in fall instead
	Feedback from conferences	<p>Eclipse YouTube Channel: https://www.youtube.com/user/EclipseFdn</p> <p>Carma Project: https://highways.dot.gov/research/operations/CARMA-Platform</p>
	Projects / Project Proposals	OpenMCx expected to be Open Source in some weeks
	Next steps	

	Next meeting dates	
17:00	End	

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	
Josko	AVL List	
Soheila	DENSO Corporation	x
Naci	eneration	
Philip	EclipseSource	
Andreas	itemis	x
Michael	JCIM	
Robert	Microsoft	
Wolfram	Red Hat	x
Andy	Robert Bosch GmbH	x
Robin	Siemens	
Paul	Eclipse Foundation	x
Ben	ASAM	x

Steering Committee Meeting, 28.07.2020

Agenda / Meeting Minutes

Time	Topic	Result
15:30	Welcome, Agenda	
	Antitrust Policy	respect Eclipse's Anti-Trust Policy

	Introduction of new members	
	Charter Update	published https://www.eclipse.org/org/workinggroups/openadx_charter.php
	Steering Committee composition	Andy reconfirm the chair of the SC Setup a call for nomination / membership level upgrade
	OpenADx Timeline / Program Plan	Expectation for 2020/21 Andy will invite for a further meeting / workshop (topics: AD stack, tooling, ...) Link to Program Plan https://docs.google.com/document/d/16tVPPZ_IBtW2iEPTz9t2I4UBVvWrQd5DUMK1MNbZYm0/edit#heading=h.i7aolfmhzahr Some extra meetings will be necessary for defining the program plan
	Architecture excursion	Presentation on 18.08. by Andreas What is architecture in our context?
	openMDM meets OpenADx	Collection of Use Cases - how to handle? Soheila will share the provided document, we should setup a further meeting with some openMDM colleagues for more insights in openMDM to fill the doc Ask demonstrator team, if we should invite openMDM people to bring the demonstrator forward. First we should have the first architecture ready before we include openMDM, but it makes sense to do that.
	Eclipse Cyclone DDS	Add your logo to show support for open source Is topic of Philly ROS Virtual Meetup July 20th, AWS Mfr Day talk July 20th, 2x proposed EclipseCon talks Autoware autonomous driving for Open Robotics ROS <ul style="list-style-type: none"> • OpenADx's Tier 1 ROS middleware now passes green for all Autoware CI tests • Autoware SW WG is recommending to Autoware TSC that it be Autoware's default. Autoware TSC meets July 15th. • Autoware is joining OpenADx

- optimizations with Autoware, Box Robotics, [Robotec.ai](#), Ouster improved out of the box loopback throughput using defaults by 2.4x to 11Gbs on 2019 Macbook Pro
[eclipse-cyclonedds/cyclonedds/pull/558](#)

OpenADx AD middleware cyclonedds+iceoryx:

- **architecture A** - cyclonedds with built-in iceoryx zero-copy shared memory work in progress
[eclipse-cyclonedds/cyclonedds/pull/462](#)
- **architecture B** - iceoryx with cyclonedds gateway for open source AUTOSAR Adaptive middleware stack. 1st release, 2nd is coming
[eclipse/iceoryx/tree/master/iceoryx_dds](#)

New adopters:

- [Arm](#) adopted and is looking at contributing DDS Security TrustZone support, performance profiling & optimization, FuSa
- [Robotec.ai](#) adopted and is testing [Autoware](#) LiDAR point cloud optimizations. [Got >2x improvement from 4.5Gbs to 11Gbs](#) on 2019 Macbook Pro.
- additional announcements coming soon

old business:

- [Open Robotics ROS 2 Foxy Fitzroy released June 5th](#) with [Eclipse Cyclone DDS Tier 1 ROS middleware](#). NOTE: ROS 264M downloads this past year
- Highlighted in AWS RoboMaker blog <https://aws.amazon.com/blogs/robotics/ros-2-foxy-fitzroy-robot-development/>
- <https://blogs.eclipse.org/post/frédéric-desbiens/robotic-dream-team-ros-2-and-cyclone-dds>
- Open Robotics will evaluate making it the default. Update Foxy via rolling update if so.
- Adoption is strong. For example Linaro's 96boards and AutoCore.ai. Many public adopters
<https://iot.eclipse.org/adopters/#iot.cyclonedds>
- Central to [ITRI + Tier IV + ADLINK AV program](#)
- Show your support for OpenADx open source, [takes 2 minutes](#)
- Finishing fixing [Autoware](#) CI tests for Eclipse Cyclone DDS built-in as default. Had failed because "cyclonedds is too fast"
- NOTE: Autoware near-term focus is now autonomous cargo ... because COVID?
- Should [Autoware](#) + OpenADx join each other? Yes, refresh the conversation

		<ul style="list-style-type: none"> • Showcased for autonomous cargo in upcoming AWS Manufacturing Day July 22nd • EclipseCon: “Real-Time LiDAR Perception in Open Robotics ROS 2 Foxy with Eclipse Cyclone DDS” https://www.eclipsecon.org/2020/sessions/building-scaled-110-autonomous-cars-eclipse-technologies • Ouster digital LIDAR driver + Cyclone DDS optimization for large point clouds work being done for Box Robotics + ADLINK + Ouster + AWS RoboMaker solution. • iceoryx released 1st version of CycloneDDS gateway for AUTOSAR Adaptive, et al. • Started building iceoryx into CycloneDDS for ROS2 & Autoware ... but stalled because Foxy release interruptions • US DOT CARMA with SUMO + OpenADx CycloneDDS ... getting much interest in “collaborative driving” V2V, V2X with OpenADx tech
	Open topics	tuleap.eclipse.org/projects/openadx-wg-private Please work on the open topics!
	EclipseCon 2020	Community Day preparation
	Demonstrator	tuleap.eclipse.org/plugins/tracker/?aid=1246 Demonstrator talks are continued -> KickOff about to be starting in a few days. Autoware demonstrator vehicle (Lexus) running Cyclone DDS How can we bring OpenADx Demonstrator and Autoware together? Joint Strategy for ROS and Autoware with OpenADx (an example: diyrobocars .)
	OpenADx Whitepaper	current state Participation rate was low the last meetings. How can we attract people with such activities?
	Lead Management	“OEMs” or “AV makers”? focus on fast movers tuleap.eclipse.org/plugins/tracker/?aid=1236
	Upcoming events e.g. overall meetings, meeting at some conferences	<ul style="list-style-type: none"> • June, San Jose - Autonomous Valet Parking (AVP) Lexus SUV running Autoware.auto + OpenADx Eclipse Cyclone DDS in June, San Jose. autoware.org click “members”, coordinate some press / social. -> date shifted

		<p>to later this year</p> <ul style="list-style-type: none"> • show your support iot.eclipse.org/adopters • Autonomous Software and System Symposium, 46-18 June 2020, Stuttgart -> shifted to June 8 - 10, 2021 https://www.autonomousvehicletechnologyexpo.com/en/ • ScaleUp360 ADAS Meeting https://www.scale-up-360.com/en/adas/register-now-2/ • Open Robotics ROScon 2020 -> 2021 delayed, will have a virtual event in fall instead
	Feedback from conferences	Eclipse YouTube Channel Carma Project
	Projects / Project Proposals	OpenMCx expected to be Open Source in some weeks
	Next steps	
	Next meeting dates	18.08.2020
17:00	End	

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	x
Josko	AVL List	x
Soheila	DENSO Corporation	x
Naci	eteration	
Philip	EclipseSource	
Christian	IBM	
Andreas	itemis	
Michael	JCIM	
Robert	Microsoft	x
Wolfram	Red Hat	x
Andy	Robert Bosch GmbH	x
Robin	Siemens	x
Paul	Eclipse Foundation	x

Steering Committee Meeting, 07.07.2020

Agenda / Meeting Minutes

Time	Topic	Result
15:30	Welcome, Agenda	
	Antitrust Policy	respect Eclipse's Anti-Trust Policy
	Introduction of new members	
	Charter Update	in progress
	OpenADx Timeline / Program Plan	<p>Expectation for 2020/21</p> <p>Andy will invite for a further meeting / workshop (topics: AD stack, tooling, ...)</p> <p>Link to Program Plan https://docs.google.com/document/d/16tVPPZ_IBtW2jEPTz9t2I4UBVvWrQd5DUMK1MNbZYm0/edit#heading=h.i7aolfmhzyhr</p> <p>Some extra meetings will be necessary for defining the program plan</p>
	Architecture excursion	<p>What is architecture in our context?</p> <p>Shift to next meeting</p>
	openMDM meets OpenADx	<p>Collection of Use Cases - how to handle?</p> <p>Soheila will share the provided document, we should setup a further meeting with some openMDM colleagues for more insights in openMDM to fill the doc</p>
	Eclipse Cyclone DDS	<p>Add your logo to show support for open source</p> <p>Is topic of Philly ROS Virtual Meetup July 20th, AWS Mfr Day talk July 20th, 2x proposed EclipseCon talks</p> <p>Autoware autonomous driving for Open Robotics</p>

ROS

- OpenADx's [Tier 1 ROS middleware](#) now passes green for all Autoware CI tests
- Autoware SW WG is recommending to Autoware TSC that it be Autoware's default. Autoware TSC meets July 15th.
- Autoware is joining OpenADx
- optimizations with Autoware, Box Robotics, [Robotec.ai](#), Ouster improved out of the box loopback throughput using defaults by 2.4x to 11Gbs on 2019 Macbook Pro
[eclipse-cyclonedds/cyclonedds/pull/558](#)

OpenADx AD middleware cyclonedds+iceoryx:

- **architecture A** - cyclonedds with built-in iceoryx zero-copy shared memory work in progress
[eclipse-cyclonedds/cyclonedds/pull/462](#)
- **architecture B** - iceoryx with cyclonedds gateway for open source AUTOSAR Adaptive middleware stack. 1st release, 2nd is coming
[eclipse/iceoryx/tree/master/iceoryx_dds](#)

[New adopters:](#)

- [Arm](#) adopted and is looking at contributing DDS Security TrustZone support, performance profiling & optimization, FuSa
- [Robotec.ai](#) adopted and is testing [Autoware](#) LiDAR point cloud optimizations. [Got >2x improvement from 4.5Gbs to 11Gbs](#) on 2019 Macbook Pro.
- additional announcements coming soon

old business:

- [Open Robotics ROS 2 Foxy Fitzroy released June 5th](#) with [Eclipse Cyclone DDS Tier 1 ROS middleware](#). NOTE: ROS 264M downloads this past year
- Highlighted in AWS RoboMaker blog <https://aws.amazon.com/blogs/robotics/ros-2-foxy-fitzroy-robot-development/>
- <https://blogs.eclipse.org/post/frédéric-desbiens/robotic-dream-team-ros-2-and-cyclone-dds>
- Open Robotics will evaluate making it the default. Update Foxy via rolling update if so.
- Adoption is strong. For example Linaro's 96boards and AutoCore.ai. Many public adopters
<https://iot.eclipse.org/adopters/#iot.cyclonedds>
- Central to [ITRI + Tier IV + ADLINK AV program](#)

		<ul style="list-style-type: none"> • Show your support for OpenADx open source, takes 2 minutes • Finishing fixing Autoware CI tests for Eclipse Cyclone DDS built-in as default. Had failed because “cyclonedds is too fast” • NOTE: Autoware near-term focus is now autonomous cargo ... because COVID? • Should Autoware + OpenADx join each other? Yes, refresh the conversation • Showcased for autonomous cargo in upcoming AWS Manufacturing Day July 22nd • EclipseCon: “Real-Time LiDAR Perception in Open Robotics ROS 2 Foxy with Eclipse Cyclone DDS” https://www.eclipsecon.org/2020/sessions/building-scaled-110-autonomous-cars-eclipse-technologies • Ouster digital LIDAR driver + Cyclone DDS optimization for large point clouds work being done for Box Robotics + ADLINK + Ouster + AWS RoboMaker solution. • iceoryx released 1st version of CycloneDDS gateway for AUTOSAR Adaptive, et al. • Started building iceoryx into CycloneDDS for ROS2 & Autoware ... but stalled because Foxy release interruptions • US DOT CARMA with SUMO + OpenADx CycloneDDS ... getting much interest in “collaborative driving” V2V, V2X with OpenADx tech
	Open topics	tuleap.eclipse.org/projects/openadx-wg-private Please work on the open topics!
	EclipseCon 2020	Community Day preparation
	Demonstrator	tuleap.eclipse.org/plugins/tracker/?aid=1246 Demonstrator talks are continued -> KickOff about to be starting in a few days. Autoware demonstrator vehicle (Lexus) running Cyclone DDS How can we bring OpenADx Demonstrator and Autoware together? Joint Strategy for ROS and Autoware with OpenADx (an example: diyrobocars)
	OpenADx Whitepaper	current state
	Lead Management	“OEMs” or “AV makers”? focus on fast movers tuleap.eclipse.org/plugins/tracker/?aid=1236

	Upcoming events e.g. overall meetings, meeting at some conferences	<ul style="list-style-type: none"> • June, San Jose - Autonomous Valet Parking (AVP) Lexus SUV running Autoware.auto + OpenADx Eclipse Cyclone DDS in June, San Jose. autoware.org click "members", coordinate some press / social. -> date shifted to later this year • show your support iot.eclipse.org/adopters • Autonomous Software and System Symposium, 16-18 June 2020, Stuttgart -> shifted to June 8 - 10, 2021 https://www.autonomousvehicletechnologyexpo.com/en/ • ScaleUp360 ADAS Meeting https://www.scale-up-360.com/en/adas/register-now-2/ • Open Robotics ROScon 2020 -> 2021 delayed, will have a virtual event in fall instead
	Feedback from conferences	<ul style="list-style-type: none"> • ScaleUp360 ADAS Meeting https://www.scale-up-360.com/en/adas/register-now-2/ • itemis online-talk about OpenADx
	Projects / Project Proposals	
	Next steps	
	Next meeting dates	
17:00	End	

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	x
Josko	AVL List	x
Soheila	DENSO Corporation	x
Naci	eteration	
Philip	EclipseSource	
Christian	IBM	
Andreas	itemis	x
Michael	JCIM	
Robert	Microsoft	x
Wolfram	Red Hat	x

Andy	Robert Bosch GmbH	x
Robin	Siemens	
Paul	Eclipse Foundation	
Lukas	FH Dortmund	x

Steering Committee Meeting, ~~16.06.2020~~ → 23.06.2020

Agenda / Meeting Minutes

Time	Topic	Result
15:30	Welcome, Agenda	
	Antitrust Policy	respect Eclipse's Anti-Trust Policy
	Introduction of new members	get feedback from metamoto
	Charter Update	<p>Fix post-incubation phase -> voting on proposed changes</p> <p><u>Charter Change Vote:</u> Siemens - Robin - yes Red Hat - Wolfram - yes IBM - Christian - yes ADLINK - Joe - yes AVL - Josko - yes JCIM - Michael - yes Microsoft - Robert - yes Denso - Soheila - abstain Bosch - Andy - yes</p> <p>Vote update to charter carried (<i>Andy to fix sharing permissions</i>) https://docs.google.com/document/d/1CoGbw9XrFRyFu1xD781PIYmrscqRoL1cSYAVzcn5FOk/</p> <p>(Link to Google Drive PDF) https://drive.google.com/file/d/1DeFi_whvNyopFeyHOGdnfDAw3j-l6X0/view?usp=sharing</p>
	OpenADx Timeline / Program Plan	<p>Expectation for 2020/21</p> <p>Andy will invite for a further meeting / workshop (topics: AD stack, tooling, ...) Link to Program Plan</p>

	Architecture excursion	What is architecture in our context? Shift to next meeting
	Eclipse Cyclone DDS	<ul style="list-style-type: none"> • Open Robotics ROS 2 Foxy Fitzroy released June 5th with Eclipse Cyclone DDS Tier 1 ROS middleware. NOTE: ROS 264M downloads this past year • Highlighted in AWS RoboMaker blog https://aws.amazon.com/blogs/robotics/ros-2-foxy-fitzroy-robot-development/ • https://blogs.eclipse.org/post/frédéric-desbiens/robotic-dream-team-ros-2-and-cyclone-dds • Open Robotics will evaluate making it the default. Update Foxy via rolling update if so. • Adoption is strong. For example Linaro's 96boards and AutoCore.ai. Many public adopters • https://iot.eclipse.org/adopters/#iot.cyclonedds • Central to ITRI + Tier IV + ADLINK AV program • Show your support for OpenADx open source, takes 2 minutes • Finishing fixing Autoware CI tests for Eclipse Cyclone DDS built-in as default. Had failed because "cyclonedds is too fast" • NOTE: Autoware near-term focus is now autonomous cargo ... because COVID? • Should Autoware + OpenADx join each other? Yes, refresh the conversation • Showcased for autonomous cargo in upcoming AWS Manufacturing Day July 22nd • EclipseCon: "Real-Time LiDAR Perception in Open Robotics ROS 2 Foxy with Eclipse Cyclone DDS" https://www.eclipsecon.org/2020/sessions/building-scaled-110-autonomous-cars-eclipse-technologies • Ouster digital LIDAR driver + Cyclone DDS optimization for large point clouds work being done for Box Robotics + ADLINK + Ouster + AWS RoboMaker solution. • iceoryx released 1st version of CycloneDDS gateway for AUTOSAR Adaptive, et al. • Started building iceoryx into CycloneDDS for ROS2 & Autoware ... but stalled because Foxy release interruptions • US DOT CARMA with SUMO + OpenADx CycloneDDS ... getting much interest in "collaborative driving" V2V, V2X with OpenADx tech
	Umbrella Working Group "automotive"	Info: general rework in progress -> if presentable, share paperwork

	Open topics	tuleap.eclipse.org/projects/openadx-wg-private Please work on the open topics!
	EclipseCon 2020	Community Day preparation
	Demonstrator	tuleap.eclipse.org/plugins/tracker/?aid=1246 Demonstrator talks are continued Autoware demonstrator vehicle (Lexus) running Cyclone DDS (an example: diyrobocars)
	OpenADx Whitepaper	current state (Joe owes you bit)
	Lead Management	“OEMs” or “AV makers”? focus on fast movers tuleap.eclipse.org/plugins/tracker/?aid=1236
	Upcoming events e.g. overall meetings, meeting at some conferences	<ul style="list-style-type: none"> • June, San Jose - Autonomous Valet Parking (AVP) Lexus SUV running Autoware.auto + OpenADx Eclipse Cyclone DDS in June, San Jose. autoware.org click “members”, coordinate some press / social. -> date shifted to later this year • show your support iot.eclipse.org/adopters • Autonomous Software and System Symposium, 16-18 June 2020, Stuttgart -> shifted to June 8 - 10, 2021 https://www.autonomousvehicletechnologyexpo.com/en/ • ScaleUp360 ADAS Meeting https://www.scale-up-360.com/en/adas/register-now-2/ • Open Robotics ROScon 2020 -> 2021 delayed, will have a virtual event in fall instead
	Feedback from conferences	Atos Innovation week
	Projects / Project Proposals	
	Next steps	
	Next meeting dates	
17:00	End	

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	x

Josko	AVL List	x
Soheila	DENSO Corporation	x
Naci	eneration	
Philip	EclipseSource	
Christian	IBM	x
Andreas	itemis	
Michael	JCIM	x
Robert	Microsoft	x
Wolfram	Red Hat	x
Andy	Robert Bosch GmbH	x
Robin	Siemens	x
Paul	Eclipse Foundation	x

Steering Committee Meeting, 26.05.2020

~~Steering Committee Meeting, 05.05.2020~~

Meeting canceled, because we didn't have the quorum.

Agenda / Meeting Minutes

Time	Topic	Result
15:30	Welcome, Agenda	
	Antitrust Policy	
	Introduction of new members	<u>Interested party:</u> University of Applied Science and Arts Dortmund https://www.fh-dortmund.de/en/index.php Open Robotics https://www.openrobotics.org/
	Membership levels	Graduate membership levels form incubation phase to new levels (post-incubation period)
	Charter Update	Fix post-incubation phase -> SC composition
	Funding Working Group	Andy provides updated proposal https://tuleap.eclipse.org/plugins/docman/download/2136/2 Decision on Funding Model! -> will be shifted we will work on a program plan first
	OpenADx Timeline / Program Plan	Expectation for 2020/21 Andy will invite for a further meeting / workshop (topics: AD stack, tooling, ...)
	Architecture excursion	What is architecture in our context? -> postpone to next meeting
	Umbrella Working Group "automotive"	Feedback will be integrated in current draft paperwork -> if presentable, share paperwork
	OpenADx website	show updates
	Open topics	tuleap.eclipse.org/projects/openadx-wg-private Please work on the open topics!
	EclipseCon 2020	<ul style="list-style-type: none">- CfP is open- Community Day preparation
	Demonstrator	diyrobocars

		tuleap.eclipse.org/plugins/tracker/?aid=1246 On Hold - due to corona situation - to be continued beginning of June Kickoff planned? Autoware demonstrator vehicle (Lexus) running Cyclone DDS
	Lead Management	“OEMs” or “AV makers”? focus on fast movers tuleap.eclipse.org/plugins/tracker/?aid=1236
	OpenADx + Open Robotics collaboration	Our primary interest in joining OpenADx is to encourage wider adoption of ROS 2 and Ignition in autonomous driving systems, including learning what's missing from those systems for automotive use cases.
	Upcoming events e.g. overall meetings, meeting at some conferences	<ul style="list-style-type: none"> • June, San Jose - Autonomous Valet Parking (AVP) Lexus SUV running Autoware.auto + OpenADx Eclipse Cyclone DDS in June, San Jose. autoware.org click “members”, coordinate some press / social. -> date shifted to later this year • show your support iot.eclipse.org/adopters • Autonomous Software and System Symposium, 16-18 June 2020, Stuttgart -> will be shifted to 2021
	Feedback from conferences	nothing new
	Projects / Project Proposals	AUTOSAR Adaptive - iceoryx w cyclonedds gateway ROS - cyclonedds w iceoryx built-in OpenADx cyclonedds is now “tier-1 ROS middleware” for ROS2 Foxy (May 2020 -> June 2020) fyi ROS build farm https://ci.ros2.org
	Next steps	
	Next meeting dates	
17:00	End	

Participants

Name	Company	Participation?
Joe Speed	ADLINK Technology	x
Josko	AVL List	
Soheila	DENSO Corporation	x

Naci	eteration	x
Philip	EclipseSource	
Christian	IBM	x
Andreas	itemis	
Michael	JCIM	
Robert	Microsoft	x
Wolfram	Red Hat	x
Andy	Robert Bosch GmbH	x
Robin	Siemens	x
Paul	Eclipse Foundation	x

Steering Committee Meeting, 14.04.2020

Agenda / Meeting Minutes

Time	Topic	Result
15:30	Welcome, Agenda	
	Introduction of new members	<u>Interested party:</u> University of Applied Science and Arts Dortmund https://www.fh-dortmund.de/en/index.php
	Open topics	tuleap.eclipse.org/projects/openadx-wg-private
	Demonstrator	diyrobocars tuleap.eclipse.org/plugins/tracker/?aid=1246 On Hold - due to corona situation - to be continued in May
	Funding Working Group	Andy provides updated proposal https://tuleap.eclipse.org/plugins/docman/download/2136/2
	Lead Management	“OEMs” or “AV makers”? focus on fast movers tuleap.eclipse.org/plugins/tracker/?aid=1236
	OpenADx Whitepaper	invite Robert to the meeting series
	OpenADx + Open Robotics collaboration	Andreas will ask to join. Coordinate requirements for projects. Brian Gerkey CEO is very excited about ROS - cyclonedds w iceoryx built-in. Feedback Brian, March 24:

		... it's in my queue to review the processes and agreements necessary for us to begin participating in the OpenADx and possibly other Eclipse groups. ...
	Upcoming events e.g. overall meetings, meeting at some conferences	<ul style="list-style-type: none"> • June, San Jose - Autonomous Valet Parking (AVP) Lexus SUV running Autoware.auto + OpenADx Eclipse Cyclone DDS in June, San Jose. autoware.org click "members", coordinate some press / social. • show your support iot.eclipse.org/adopters • Autonomous Software and System Symposium, 46-18 June 2020, Stuttgart -> will be shifted
	Feedback from conferences	Andy includes recorded session from ScaleUp 360 AI
	Projects / Project Proposals	<p>AUTOSAR Adaptive - iceoryx w cyclonedds gateway ROS - cyclonedds w iceoryx built-in OpenADx cyclonedds is now "tier-1 ROS middleware" for ROS2 Foxy (May 2020) fyi ROS build farm https://ci.ros2.org</p> <p>Cyclone DDS is currently the default MW for Autoware https://www.forbes.com/sites/rahulrazdan/2020/04/04/will-a-small-open-source-effort-from-japan-disrupt-the-autonomous-space-/#75d4863d1cc5</p> <p>Ottokar (Turkey) is using Cyclone DDS https://twitter.com/JoeSpeeds/status/1240521646051487745</p>
	Next steps	
	Next meeting dates	May 5
17:00	End	

Participants

Name	Company	Participation?
Joe	ADLink Technology	x
Josko	AVL List	x
Soheila	DENSO Corporation	x
Naci	eteration	
Philip	EclipseSource	
Christian	IBM	x

Andreas	itemis	x
Michael	JCIM	
Robert	Microsoft	x
Wolfram	Red Hat	
Andy	Robert Bosch GmbH	x
Robin	Siemens	
Paul	Eclipse Foundation	x

Steering Committee Meeting, 24.03.2020

Agenda / Meeting Minutes

Time	Topic	Result
15:30	Welcome, Agenda	
	Introduction of new members	
	Open topics	tuleap.eclipse.org/projects/openadx-wg-private
	Demonstrator	
	Funding Working Group	Andy provides updated proposal
	OpenADx Whitepaper	invite Robert to the meeting series
	Collaboration with openMDM	postponed due to corona situation
	Upcoming events e.g. overall meetings, meeting at some conferences	<ul style="list-style-type: none"> • Autonomous Valet Parking (AVP) Lexus SUV running Autoware.auto + OpenADx Eclipse Cyclone DDS in June, San Jose. • show your support iot.eclipse.org/adopters • Autonomous Software and System Symposium, 16-18 June 2020, Stuttgart
	Feedback from conferences	Andy includes recorded session from ScaleUp 360 AI
	Projects / Project Proposals	
	Next steps	
	Next meeting dates	

17:00	End	
-------	-----	--

Participants

Joe Speed - ADLINK

Andy - Bosch

Christian - IBM

Robert - Microsoft

Wolfram - Red Hat (until 16:00 CET)

Soheila - DENSO