

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_IBtW2iEPTz9t2I4UBVvWrQd5DUMK1MNbZYm0/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>

[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>
- Open Robotics will evaluate making it the default. Update Foxy via rolling update if so.

		<ul style="list-style-type: none"> • 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	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?
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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