

OpenADx Steering Committee Meeting

... (insert next meeting agenda here)

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_IBtW2i

		<p>EPTz9t2I4UBVvWrQd5DUMK1MNbZYm0/edit#heading=h.i7aolfmhzyhr</p> <p>Some extra meetings will be necessary for defining the program plan</p> <p>You can use the file as brainstorming. What date will be best for you?</p>
	<p>openMDM meets OpenADx</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>Eclipse Cyclone DDS</p>	<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](https://github.com/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](https://github.com/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
- 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](#)"

		<p>https://www.eclipsecon.org/2020/sessions/building-scaled-110-autonomous-cars-eclipse-technologies</p> <ul style="list-style-type: none"> • 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	<p>tuleap.eclipse.org/projects/openadx-wg-private</p> <p>Please work on the open topics!</p>
	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</p> <p>tuleap.eclipse.org/plugins/tracker/?aid=1236</p>
	Upcoming events	<ul style="list-style-type: none"> • June, San Jose - Autonomous Valet Parking

	e.g. overall meetings, meeting at some conferences	<p>(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</p> <ul style="list-style-type: none"> • show your support iot.eclipse.org/adopters • Autonomous Software and System Symposium, 4-18 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	eteration	
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