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-schneider-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_IBtW2iEPTz9t2I4UBVvWrQd5DUMK1MNbZYm0/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	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 docu 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
		
		Add your logo to show support for open source
		
		1. OpenADx Eclipse Cyclone DDS project is now Autoware Foundation's default for autonomous driving development.
		    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.
		    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
		
		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.
- 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!
	Demonstrator	tuleap.eclipse.org/plugins/tracker/?aid=1246
		Current state?
		VM will be setup for the demonstrator on an Azure instance as a playground.
	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	~~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.autonomousvehiclevirtuallive.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