

OpenAD Kit Working Group Meeting

27/6/2024 #4927

oguzkaganozt started this conversation in Working group meetings



oguzkaganozt on Jun 27

Maintainer

Administrative

Greet New Attendees

[Open AD Kit Project Board](#)

[Latest Open AD Kit Documentation - updating](#)

Attendees

Chaired by David Walmroth (PIX Moving) and Oğuz Öztürk (Leo Drive)

► Click to expand

Agenda

DevOps Dojos: Build/Run - Modular Images

- Agenda item maintainers: [@oguzkaganozt](#), [@youtalk](#), [@kaspermeck-arm](#)

- Modular containers PR will be divided into 3 separated PRs to make it more comfortable to review
 - First PR: [feat\(docker\): fix CUDA compile on devel image and improve run.sh #4849](#)
 - Documentation PR: [docs\(installation\): simplify run.sh commands autoware-documentation#551](#)
- ☐ [@samet-kutuk](#) will bring a documentation draft for Open AD Kit v3.0 after merging the PR

DevOps Dojos: Ros Node Configuration Updates

- Agenda item maintainers: [@kaspermeck-arm](#)

[Spreadsheet for node updates](#)

[Call for volunteers](#)

[Step-by-step Documentation](#)

[Step-by-step Video Tutorial](#)

- Planned deadline for this task is 1st July, we need to speed this up with active collaborators and reviewers
- Re-assigning stale in-progress nodes with active collaborators

Category



Working group meetings

Labels

meeting:openadkit-...

2 participants



- Possibility of new code reviewers for stale PRs ([@mitsudome-r](#))

Open AD Kit - UXL Foundation Collaboration Introduction

- Agenda item maintainers: [@kaspermeck-arm](#)

Technical Optimizations for Container Management

- Agenda item maintainers: [@youtalk](#) , [@oguzkaganozt](#)

- [Enable docker caching for docker builds](#)
- [Re-working dependencies to reduce the size of the containers and for making maintenance easier](#)
 - The [list](#) of Top 25 ROS nodes that includes most `<depend>` tags
 - Last years's huge PR related -> [🔗 build: remove unused <depend> in package.xml files](#) [autoware.universe#3606](#)
 - [Example of the motivation](#)

Node Unifier for fully-defined containers

- Current containers contains all of the universe nodes
- Propose a way to compile modular containers with only necessary nodes
- Launch unifier tool from [@xmfcx](#) can be a help

Open AD Kit Bugs & Feature Requests

- Agenda item maintainers: [@idorobotics](#), [@oguzkaganozt](#)

- Assess open-ad-kit related bugs, issues or feature requests from community channels (github, discord, or other platforms)
 - A CUDA [bug](#) will be resolved with this [PR](#)
 - A documentation [bug](#) will be resolved with this [PR](#)

2024 Demo Planning and Activities: AutoTech Detroit 2024 Wrap up

- Agenda item maintainers: [@HamburgDave](#), [@samet-kutuk](#)

- AutoTech Detroit (June 5-6):
https://docs.google.com/presentation/d/1UD_0tIhRgfjmQami1nyKxh5feY5TGre4YTOAG1AZWik/edit?usp=sharing
- (Potential) AVTE California / Aug 28-29
- (Potential) IEEE ITSC / Sep 24-27
- (Potential) IROS 2024 / Oct 14-18 (EduTech is investigating participation and sending a PIXKit chassis to Abu Dhabi, UXL demo?)
- (Potential) ROSCon / Oct 21-23

RViz Visualization by using WebRTC

- Agenda item maintainers: @oguzkaganozt, @kaspermeck-arm, @esteve

- Assess the strengths and weaknesses of using [Ros bridge](#) and [rvizweb](#)
- https://github.com/RobotWebTools/webrtc_ros
- <https://github.com/pgaston/teleopros2/tree/main>
- <https://github.com/aiortc/aiortc>
- Jeremy from Amazon has shown interest in the subject with AWS Kinesis
- ☑ Reconnect with Jeremy (AWS) to help us bootstrap this

Testing modular containers with Reaction Analyzer Tool

- Agenda item maintainers: @batuhanbeytekin, @oguzkaganozt, @brkay54,

- Reaction analyzer can be used to measure latency tests while developing ideal containerization
- Issue:
https://github.com/autowarefoundation/autoware.universe/blob/3eed12c36903a3763f0ccd73f7bdce75c0bb3622/tools/reaction_analyzer/README.md#L4

Active pursuit to find more collaborators for the Open AD Kit WG

- Agenda item maintainers: @samet-kutuk, @HamburgDave

- Outreach to external collaborators
 - Talking to **VicOne** (a member) on a use case to incorporate their IDPS (Intrusion Detection and Prevention System) with the Open AD Kit
 - Talking to **EPAM Systems** on the general architectures of SDV and understanding load balancing of automotive workloads in heterogeneous computing.
 - Talking to **TUM** on their PoC work on massive Autoware containerization
 - They are open-sourcing their study and work (performance analysis of containerized Autoware workloads)
 - They will be able to present their work soon at the Open AD Kit WG

Open AD Kit Hardware Availability

- Agenda item maintainers: @HamburgDave, @samet-kutuk

- ADLINK presented their autonomy HW lineup in Ref. Des. WG. BSP does not yet support Yocto(?).
- AADP: Allocating all available units around the world

- 7Starlake: we heard that some eval units can be made available for testing
- Tannaka-san mentioned possible HW options for U Penn/Go Kart. Possible OAD Kit demo platform?
- ☐ Reach out to Joe Speed for 7starlake eval units (BSP/Yocto question pending).

↑ 1

1 comment

Oldest

Newest

Top



idorobotics on Jun 27 Maintainer

I've created a new label `openadkit` for the Universe repo. See example [here](#).

↑ 1

0 replies