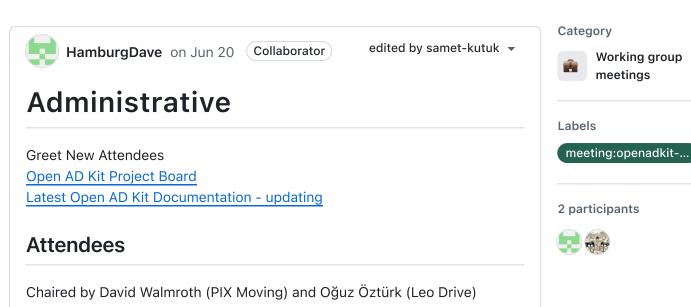


# OpenAD Kit Working Group Meeting 20/6/2024 #4897

HamburgDave started this conversation in Working group meetings



### Agenda

► Click to expand

#### DevOps Dojos: Build/Run - Modular Images

- Agenda item maintainers: @oguzkaganozt , @youtalk, @kaspermeck-arm
  - Modular containers PR will bi 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

• Possibility of new code reviewers for stale PRs (@mitsudome-r)

#### **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 -> \( \frac{1}{6} \) build: remove unused <a href="https://www.edepend">depend</a>
       in package.xml files autoware.universe#3606
    - Example of the motivation

#### **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\_0tlhRgfjmQami1nyKxh5feY
     5TGre4YTOAG1AZWik/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: <a href="mailto:ooguzkaganozt">ooguzkaganozt</a>, <a href="mailto:oog
  - 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: <a href="maintainers"><u>@batuhanbeytekin</u></a>, <a href="maintainers"><u>@oguzkaganozt</u></a>, <a href="maintainers"><u>@batuhanbeytekin</u></a>, <a href="maintainers"><u>@oguzkaganozt</u></a>,
  - Reaction analyzer can be used to measure latency tests while developing ideal containerization
  - Issue:

https://github.com/autowarefoundation/autoware.universe/blob/3eed12c 36903a3763f0ccd73f7bdce75c0bb3622/tools/reaction\_analyzer/READ ME.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).

#### Adding third OADKit co-chair

• Interest from Samet - retracted!

- From TSC meeting: Oz and David to document third co-chair reasoning and provide to Mitsudome-san.
- After document submission/review next steps would be nomination(s) and confirmation activities.



#### 1 comment

Oldest Newest Top



oguzkaganozt on Jun 20 Maintainer

From @idorobotics: autowarefoundation/autoware-documentation#573



0 replies