Open ADKit Working Group Meeting 25/04/2024 #4665

HamburgDave started this conversation in **Working group meetings**

HamburgDave on Apr 25   Collaborator

Administrative

Open AD Kit Project Board
Latest Open AD Kit Documentation - updating
Team List - WiP
Call for Participation - Step-by-step ROS Node Configuration Task

Attendees

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

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Agenda

DevOps Dojos: Build/Run - Modular Images (Oguz)

- Impressions on new containers/suggestions.
- Modular containers:
  - Issue: ✓ **Provide modular images for openadkit: planning, simulator, visualizer** #4538
  - Draft PR: **feat(docker): provide modular images for openadkit planning simulator visualizer** #4629
  - Branch:
    https://github.com/autowarefoundation/autoware/tree/4538-provide-modular-images-for-openadkit-planning-simulator-visualizer
- ☐ **@mitsudome-r** and **@xmfcx** will be assigned as reviewers
- ☐ **@samet-kutuk** will bring a documentation draft

Category

🗄 Working group meetings

Labels

meeting:openadkit-...

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2 participants

DevOps Dojos: Ros Node Configuration Updates (Kasper)

[Spreadsheet for node updates](#)
[DevOps Dashboard](#)
[Call for volunteers](#)
[Step-by-step Documentation](#)
[Step-by-step Video Tutorial](#)

- Great increase (approx. 15) in nodes assigned from efforts of William He and UDel as well as Alex Carballo and Gifu U.
- Campaigning for additional ROS node update support and and consideration of a bounty/reward program may be scaled back due to an envisioned path to completion with existing resources. (Oz).
- We're seeking collaborators from AWF members and non-AWF member organizations:
  - EduTech: an email thread is ongoing
  - ELM Company: had several meetings, waiting on feedback
  - CoE members: a few members proposed a handful contributors. Conversations are ongoing
  - Leads from social media: we continue to engage with invididuals who shown interest
- [ ] Reach out to Vignesh
- [ ] Reach out to Rahul (CoE) for his reposting
- [ ] Reach out to the F1Tenth organization through Slack
- [ ] Do a repost of Call for Participation on announcement

More Strict Dependency Control for ROS Nodes (Dogan, Oguz)

- Dependency scheme between ros nodes needs to be re-worked
- A new task added to Buil/Run Dojo - for refining ros nodes dependencies - ⊙ **[More Strict Dependency Control for ROS Nodes](#)** #4599
  - Discussions on making this the next DevOps Dojo
- [Example of the motivation](#)

Active pursuit to find more collaborators for the Open AD Kit WG (Samet, Oğuz, Kasper, David)

- 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

Perception Containerization Discussion (Kasper, Oguz, David, CJ..)

- A rosbag is requested from TierIV
- Rosbag from Robeff will be available next week (new member of AWF)
- Testing ORIN for perception running with x86 on PIX chassis (Mark, David)
- [ ] Assess the rosbag sent by TIER IV and feedback
- [ ] Retrieve and assess the rosbag from Robeff
- [ ] Reach out to **@drwnz** for feedback and initial consult

RViz Visualization by using WebRTC

- Assess the strengths and weaknesses of using [Ros bridge](#) and [rvizweb](#)
- [ ] Reconnect with Jeremy (AWS) to help us bootstrap this

AWSIM Integration and Testing (Oguz, Mitsudome-san, Kasper)

- ⊙ [Docker container for AWSIM](#) tier4/AWSIM#7
- ⊘ [how to gui for unity3d in docker?](#) mviereck/x11docker#186
- Validating new Open AD containers on the AWSIM environment
- Running AWSIM on x86 and Autoware on ARM

2024 Demo Planning and Activities

- ICRA 2024 (May 13-17): a setup with PIXKit 3.0 will be demonstrated. Storyboard is expected from **@alexandrx**
- AutoSens 2024 (May 21-23) Static vehicle display, potentially live sensors, PIX RoboBus platfrom.
- AutoTech Detroit (June 5-6): Challenges with AADP availability and lead times. Implications and alternatives are being discussed, updates envisioned in Friday meeting.
- (Potential) AVTE California / Aug 28-29
- (Potential) IEEE ITSC / Sep 24-27
- (Potential) IROS 2024 / Oct 14-18
- (Potential) ROSCon / Oct 21-23

Open AD Kit Hardware Availability

- 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
- ☐ Reach out to Joe Speed for 7starlake eval units (BSP/Yocto question pending).

↑ 1

1 comment

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oguzkaganozt on Apr 25 Maintainer

- MCity/University of Michigan (David)
- Tobias from TUM can give us a new overview

↑ 1   0 replies