

# Open ADKit Working Group Meeting

## 22/08/2024 #5119

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



oguzkaganozt on Aug 22

Maintainer

edited ▾

## Administrative

[Open AD Kit Project Board](#)

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

## Attendees

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

- Oğuz Öztürk (MC)
- David Walmroth
- Ryohsuke Mitsudome
- Samet Kütük
- Esteve Fernandez
- Bonolo
- Hiroshi Igata
- Alex Carballo
- Yutaka Kondo

## Agenda

### DevOps Dojos: Build/Run: Open AD Kit Modular Images

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

- [Refinement of devcontainer](#) according to <https://containers.dev/overview>
- [Modular containers - base image proposal](#)
- [Performance Analysis of Modular Containers](#)

### DevOps Dojos: Ros Node Configuration Updates

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

[Call for volunteers](#)

[Step-by-step Documentation](#)

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

#### Category



Working group meetings

#### Labels

meeting:openadkit-...

#### 1 participant



- [Spreadsheet for node updates](#)

## Release of Open AD Kit Demo Archives

- Open AD Kit demo repos and artifacts will be published and showcased by specific forks within the Autoware project
- [https://github.com/autowarefoundation/openadkit\\_demo.autoware](https://github.com/autowarefoundation/openadkit_demo.autoware)
- [https://github.com/autowarefoundation/openadkit\\_demo.autoware.universe](https://github.com/autowarefoundation/openadkit_demo.autoware.universe)
- [https://github.com/autowarefoundation/openadkit\\_demo.autoware.launch](https://github.com/autowarefoundation/openadkit_demo.autoware.launch)
- [https://github.com/autowarefoundation/openadkit\\_demo.simulator](https://github.com/autowarefoundation/openadkit_demo.simulator)

## Autoware Actuation Service - Mixed Criticality, Safety Island, Virtual Hardware

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

## Remote RViz Visualization

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

**Discussion:** <https://github.com/orgs/autowarefoundation/discussions/5099>

**Related idea:** [RobotWebTools/rosbridge\\_suite#757](#)

Given the benefits of modern web technologies and the need for flexibility, **WebRTC with rosbridge(ROS Web Tools)** with the help of [aiortc](#) would be the ideal choice.

Aspect	X11 Forwarding	VNC	<a href="#"><u>X2Go</u></a>	<a href="#"><u>WebRTC</u></a>
Primary Function	Remote application visualization	Full desktop remote access	High-performance remote desktop	Real-time media data stream
Protocol	X11 over SSH	RFB (Remote Framebuffer Protocol)	NX protocol	WebRTC (Peer-to-peer)
Compression	Minimal (SSH encryption overhead)	Various (e.g., Tight, H.264)	Advanced compression and caching	High-efficiency compression
Bi-Directional ROS Messaging	No	No	No	Yes

Aspect	X11 Forwarding	VNC	<a href="#">X2Go</a>	<a href="#">WeL</a>
Platform Independence	Limited	Limited	Limited	High
Ease of Setup	Low	Moderate	Moderate to High	High
Security	Integrated with SSH	Requires secure tunnel (e.g., SSH)	Built-in secure connection	Requi securi (DTLS
Performance	Slow-Moderate	Moderate	High	High

## Technical Optimizations for Container Management

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

- [More Strict Dependency Control for ROS Nodes #4599](#)
  - 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](#)

## 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)

## Open AD Kit Hardware Availability

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

- ORIN: Recently succesfully [tested](#)
  - <https://github.com/futurenowx/autoware>
- AADP: Being used on various demos
- ADLINK presented their autonomy HW lineup in Ref. Des. WG. BSP does not yet support Yocto(?).
- 7Starlake: we heard that some eval units can be made available for testing

## 2024 Demo Planning and Activities

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

- AutoTech Detroit (June 5-6):  
[https://docs.google.com/presentation/d/1UD\\_0tIhRgfjmQami1nyKxh5feY5TGre4YTOAG1AZWik/edit?usp=sharing](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
- (Potential) ROSCon / Oct 21-23

## Active pursuit to find more collaborators

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- *Agenda item maintainers:* [@samet-kutuk](#), [@HamburgDave](#)
- Outreach to external collaborators needed to further increase the WG's productivity

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0 comments