

The AOSP and AAOS November Meetup

Agenda

Times are in GMT (UTC+0)

18:00 Welcome and introduction

18:30 Working with custom Android devices

Erik Hellman

19:00 Adventures with Systrace

Stefan Lengfeld, Inovex

19:30 Q&A; networking

19:45 Wrap-up

20:00 Session ends

Android 14

Android 14 'U' (Upside down cake) was released on 4th October 2023

Release notes: <https://source.android.com/docs/setup/about/android-14-release>

Seems to be a fairly small release from the platform point of view

- More HALs migrate from HIDL to AIDL, including
 - Audio HAL
 - Wi-Fi Vendor HAL
 - Thermal HAL
 - TV input HAL
- For Android 14 and higher, all new Vulkan-capable devices must have Vulkan 1.3 drivers
- Android 14 adds the `persist.debug.dalvik.vm.jdwp.enabled` system property to control whether Java Debug Wire Protocol (JDWP) threads are created in userdebug builds
- OpenJDK 17 updates Android 14 continues the work of refreshing Android's core libraries to align with the features in the latest OpenJDK LTS releases, including both library updates and Java 17 language support for app and platform developers

Android Automotive OS

Release Details:

https://source.android.com/docs/automotive/start/releases/u_udc_release

Kudos to Al Sutton and Snapp Automotive for getting AAOS Emulator images out within 24 hours of AOSP release! Instructions on how to download and install them in Android Studio are at

<https://github.com/snappautomotive/README>

One thing I noticed:

- Passengers

U/14 has experimental support for concurrent passenger users, each on a separate display "Android Automotive multi-user on multiple displays Caution: These features are experimental in Android 14 and must not be used in production environments. In fact, CDD requirement 3.8/A-0-1 User Interface Compatibility prevents the use of this feature in certified builds.

A new experimental feature in Android 14 allows full secondary users (who are not the current foreground user) to launch activities and get access to the UI on the display to which they are assigned. This feature enables multiple concurrent users in Android Automotive OS to support in-car experiences that provide multiple passengers with a dedicated UI experience in a single Android instance. "

Android devices

- Following on from the last meetup, I have started to put together a page on different devices that run Android
- Please feel free to contribute
- <https://aospandaaos.github.io/devices.html>

Group resources

- General: <https://aospandaaos.github.io/>
- The Meetup group: <https://www.meetup.com/the-aosp-and-aaos-meetup/>
- Slack Workspace: https://join.slack.com/t/theaospandaaos-ij91284/shared_invite/zt-1k7lmay4j-fX1EGjNgN70Uh72jucQg2g
- I will post links to all talks; they will be open to everyone, not just the group
- Talks will be recorded, unless you tell me not to!

Future meetups

- The AOSP and AAOS January Meetup
Wednesday, 24th January 2024
- FOSDEM 2024 Friday 2nd to Sunday 4th February at ULB, Brussels: anyone in the group going? Want to meet up, let me know via chat, meetup messages or mail me at chris@2net.co.uk

Call for contributions

- Let me know if you have something you want to say
- Ideally, a few weeks before each meetup