

# PipeWire

Wim Taymans

Principal Software Engineer

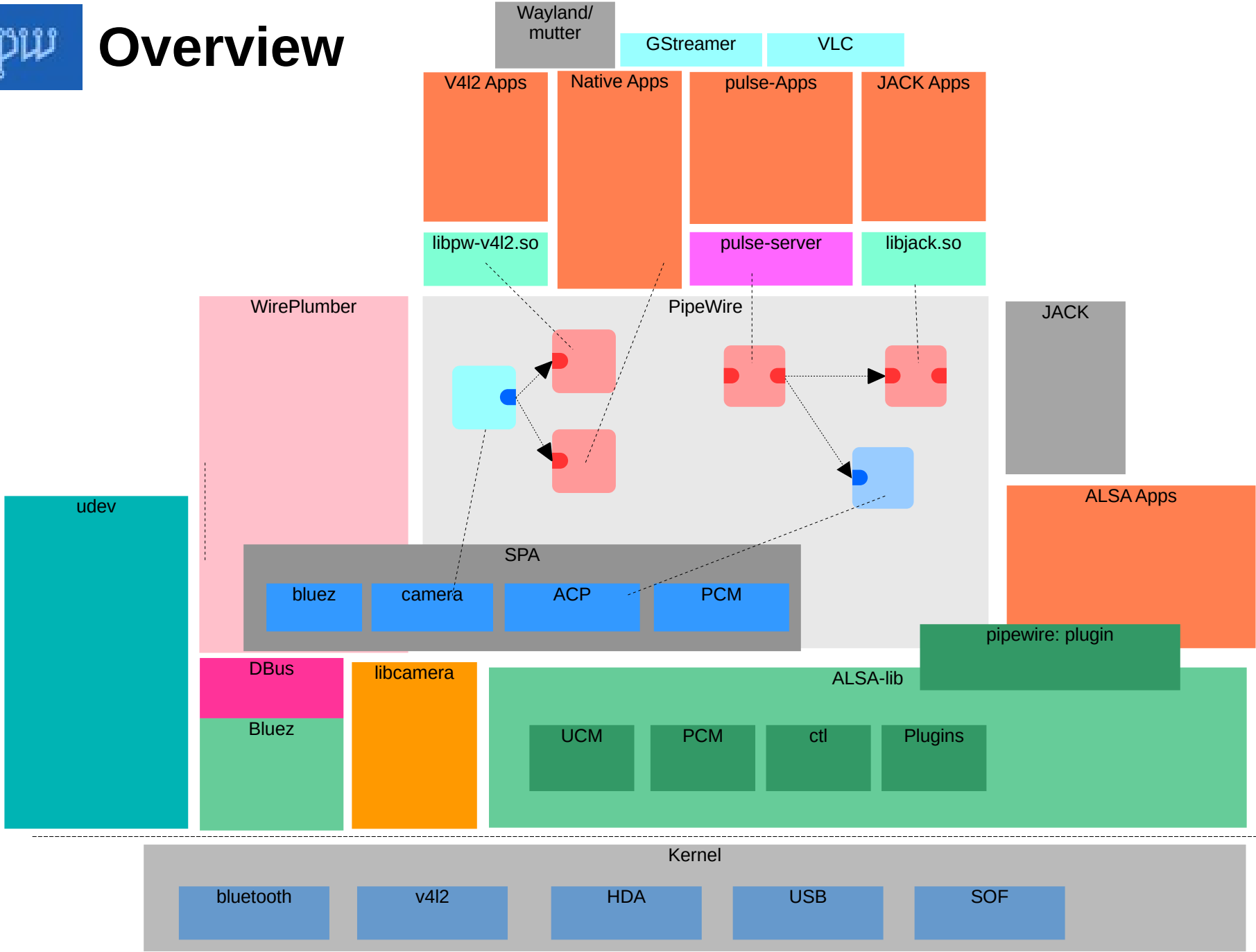
FOSDEM 2024



# Multimedia sharing and processing engine



# Overview



# 1.0 was released 26-nov-2023!!





# Status

- IRQ based scheduler + PCM device linking
  - JACK latency (while using less CPU)
- Netjack2 (with Opus..)
- FFADO (but it doesn't work yet?)
- Jackdbus detect
- AES67 is working ok-ish
  - Interop testing with various hardware (Dante, ..)
  - PTP clocking



## Status

- Video modifier support
  - Multistep negotiation process
- Compressed Audio format support
- Bluetooth still tracking bluez LE audio
- Tag params for transporting metadata through the graph (up and downstream)



# Applications

- Video support in OBS
  - Camera (thanks Georges Basile Stavrakas Neto!)
  - Screensharing (old news)
  - Virtual Camera
- Video support in Firefox
  - Screensharing (old news)
  - Camera



## Current focus

- Bugfixing, small improvements...
- More work on Video side of things (Video routing, vulkan converters, vulkan processing filters, ...)
- Flatpak audio/camera access control
  - Perhaps similar to wayland security context manager
  - Portal/permission store for device permissions
- Explicit sync support
- Missing things
  - DLNA, tooling, docs...





<http://pipewire.org>  
<https://gitlab.freedesktop.org/pipewire/pipewire>

Questions?