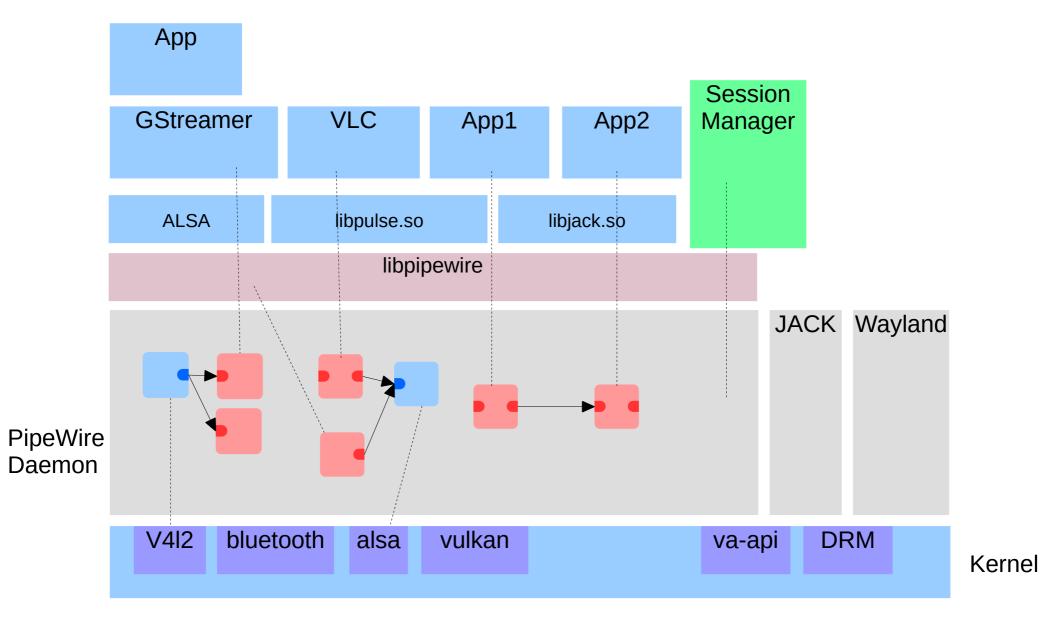


What is it

Multimedia sharing and processing engine



PipeWire



API support



Device slaving



Transport



Midi



Video with vulkan



Node configuration

- stream/sink/source with adapter
 - Profile: How this internal format is exposed on the node
 - Passthrough: do nothing, no conversion



Convert: do some conversion, sample rate, format



split: split channels into float32 mono

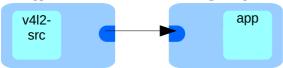


merge: merge channels from float32 mono

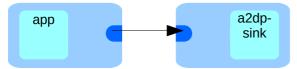


Some configurations

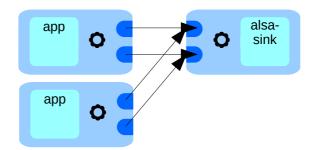
Video (passthrough)



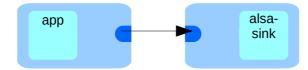
AAC passthrough to bluetooth



General audio playback



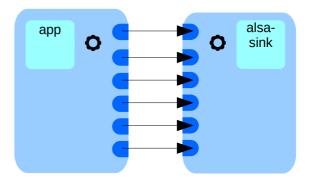
Exclusive access audio



Some more configurations

- Multichannel
 - Internal format 5.1
 - Encode to AC3/DTS...
 - Dolby PLII

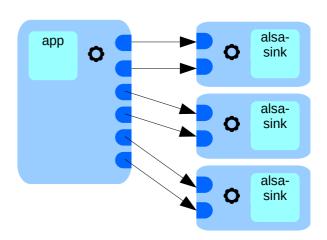
•



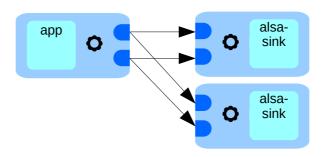


Some configurations

Multichannel multi card



Multi card



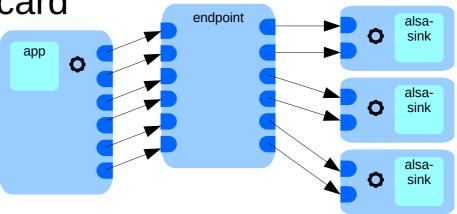
Session manager

- Does quite a bit but not exactly complicated
 - Manage devices, settings, profiles
 - Rules to link nodes, formats,...
- We going to provide session API
 - Concept of endpoints inputs/outputs to hide equalizers and filters, complex sinks etc
 - Volumes per endpoint (role)

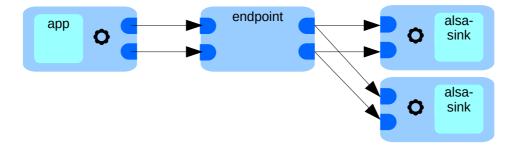


Some configurations

Multichannel multi card



Multi card



Future plans

- More session policy (compressed formats, ...)
 - Implement missing pulseaudio features
 - See https://github.com/PipeWire/pipewire/wiki/TODO
- Server side buffer split
 - Run client at desired latency, less frequent wakeups
- Video path/effects...
- Filter API
- Stability



