pactl Sound server control

CONCEPTS

pactl talks to a PulseAudio server. On PipeWire the pipewire-pulse service answers the same protocol, so these commands work unchanged.

Card hardware, profile
↓ has
Sink output, port
↓ fed by
Sink input app playback stream
↓ monitor
Source input or sink monitor

Names or numeric indexes both work for devices; indexes change after restarts, names do not. @DEFAULT_SINK@ and @DEFAULT_SOURCE@ avoid looking names up.

Add -f json (or --format=json) for machine-readable output, or use list short for tab-separated columns.

INSPECT

`pactl info`
Server, version, default sink/source

`pactl list short sinks`
Output devices, one per line

`pactl list short sources`
Input devices and monitors

`pactl list short cards`
Sound cards

`pactl list short sink-inputs`
Playback streams

`pactl list short source-outputs`
Recording streams

`pactl list sinks`
Full detail: ports, volume, state

`pactl list short modules`
Loaded modules

`pactl -f json list sinks`
Machine-readable output

DEFAULT DEVICE

`pactl get-default-sink`
Print default output

DEFAULT DEVICE (cont.)

`pactl set-default-sink <sink>`
Change default output

`pactl get-default-source`
Print default input

`pactl set-default-source <source>`
Change default input

`pactl set-sink-port <sink> <port>`
Switch speakers / headphones

VOLUME AND MUTE

`pactl get-sink-volume <sink>`
Show volume

`pactl set-sink-volume <sink> 50%`
Absolute volume

`pactl set-sink-volume @DEFAULT_SINK@ +5%`
Raise by 5 points

`pactl set-sink-volume @DEFAULT_SINK@ -5%`
Lower by 5 points

`pactl set-sink-mute <sink> toggle`
Toggle mute

`pactl set-source-volume <source> 80%`
Mic level

`pactl set-source-mute <source> toggle`
Mute the mic

STREAMS

`pactl move-sink-input <id> <sink>`
Send a stream to another output

`pactl set-sink-input-volume <id> 30%`
Per-app volume

CARDS AND DEVICES

`pactl set-card-profile <card> <profile>`
Change profile (e.g. HDMI, A2DP)

MODULES

`pactl load-module <name> [args]`
Load; prints module index

`pactl unload-module <id or name>`
Unload by index or name