

Pulseaudio

Pulse audio started multiple times

In journalctl shows some warnings that are the result of the fact that pulseaudio is started multiple at boot and user login. After analyzing I have identified the following locations which start pulseaudio:

Systemd user service

```
$ systemctl --user is-enabled pulseaudio.socket
enabled
$ systemctl --user is-enabled pulseaudio.service
enabled
```

XDG autostart

```
ls /etc/xdg/autostart/*pulse*
cat /etc/xdg/autostart/pulseaudio.desktop
```

XFCE session startup

```
cat ~/.config/autostart/*pulse*
```

~/.config/autostart/pulseaudio.desktop. This file is created and set (hidden=true/false) by (un)checking XFCE → Session and Startup → PulseAudio at startup

D-Bus Activation Mechanism

D-Bus service file: There's a D-Bus service file that tells D-Bus how to start PulseAudio when something requests it:

```
/usr/share/dbus-1/services/pulseaudio.service
/usr/share/dbus-1/services/
/usr/share/dbus-1/system-services/
```

```
[D-Bus Service]
Name=org.pulseaudio.Server
Exec=/usr/bin/pulseaudio --start --log-target=syslog
```

Automatic activation: When an application tries to connect to PulseAudio via D-Bus (requesting the org.pulseaudio.Server service), D-Bus automatically launches PulseAudio if it's not already running.

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