PulseAudio: Control and Command
State of Desktop Integration in GNOME & KDE

Where are we?

- Used by default on most distributions

- KDE distros lagged behind GNOME in adoption

- Lots of driver issues now fixed

- Several features now integrated, more coming

- Vibrant development community

- But could always do with more help!
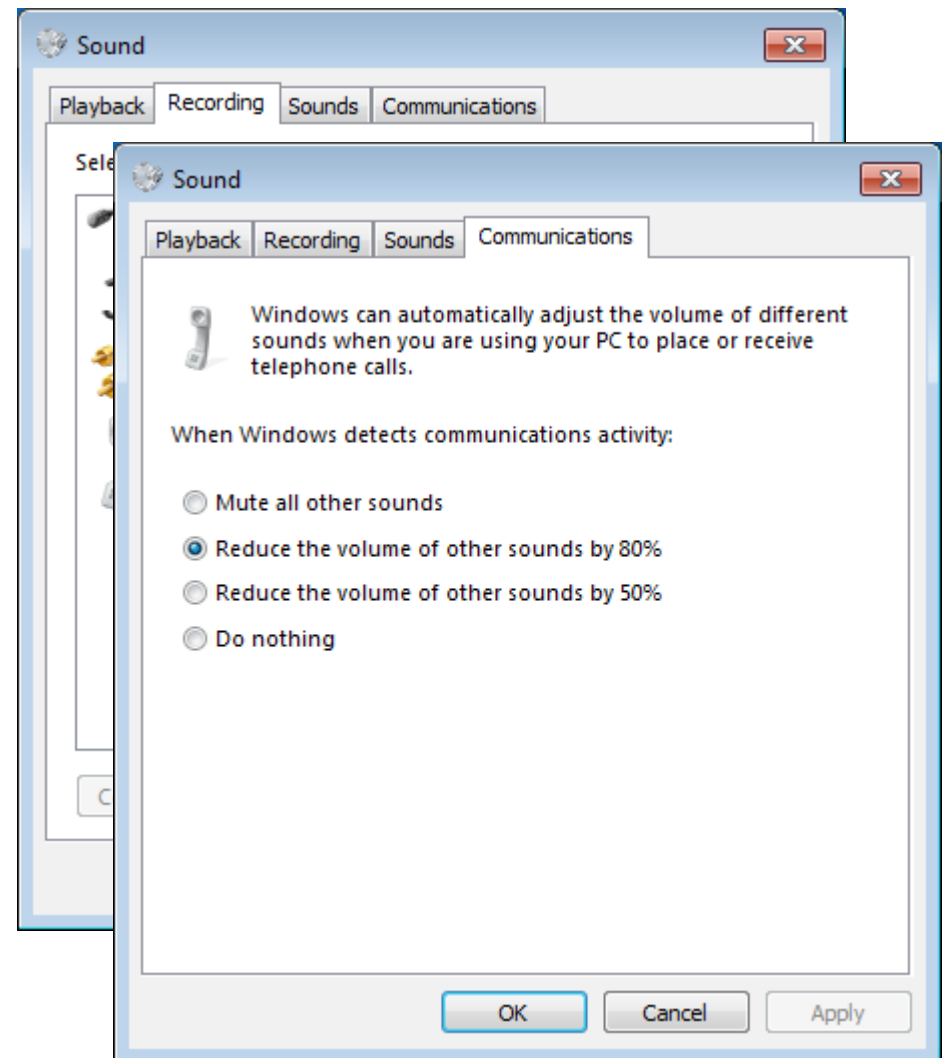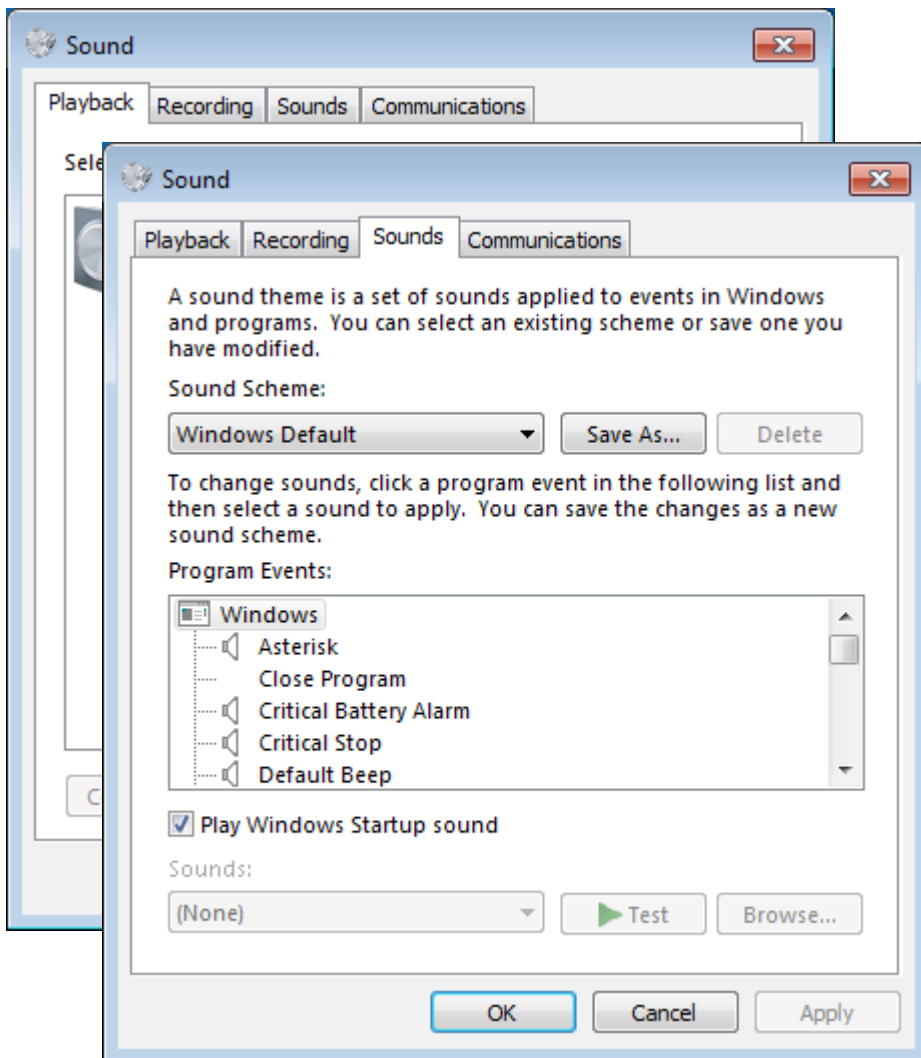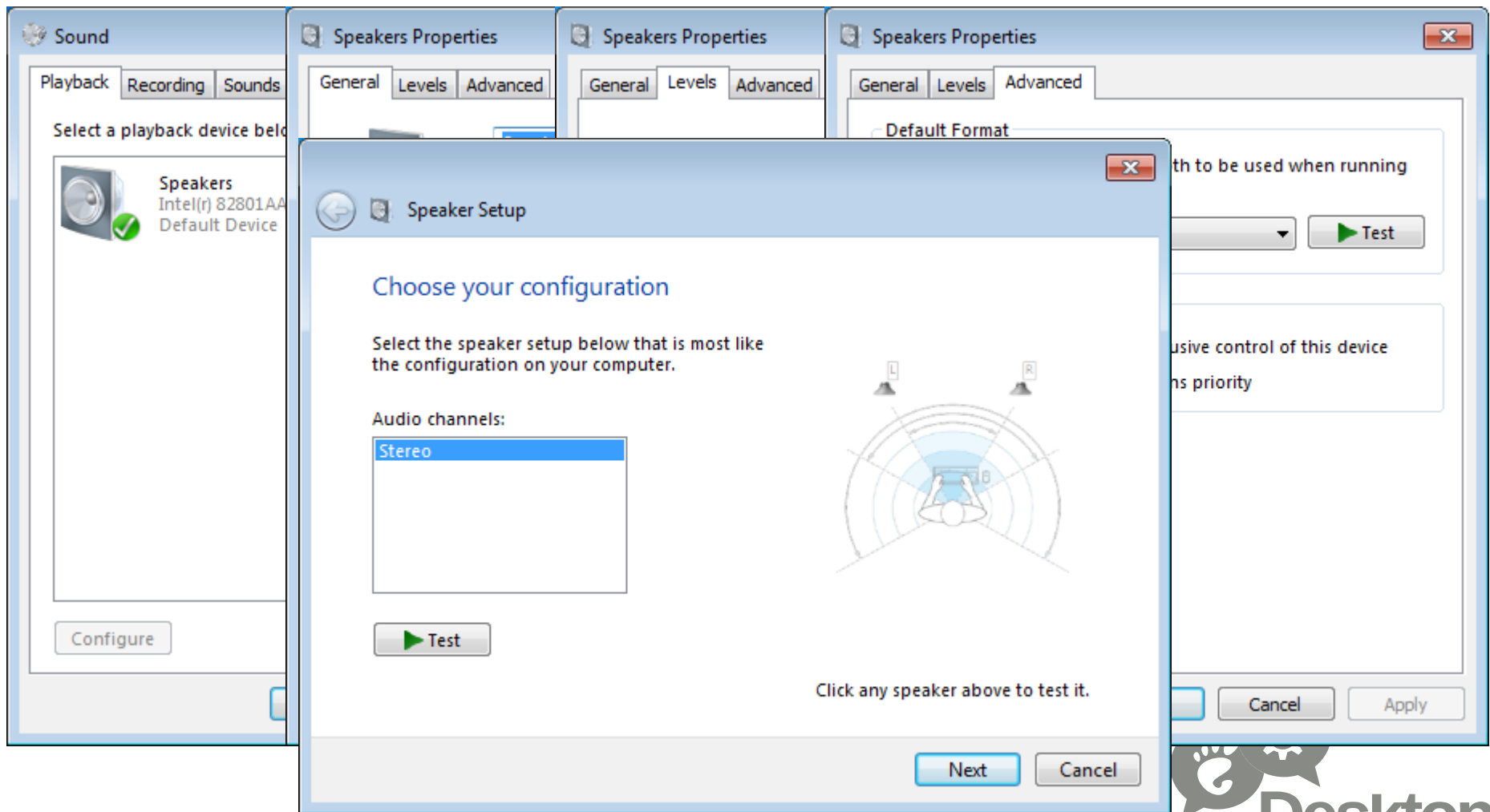
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What is missing?

- Better expose the features

- Easier selection of different configurations

- More information about sound devices

  - Tell the user when a (new) device is added

  - Let the user know if they cannot control volume

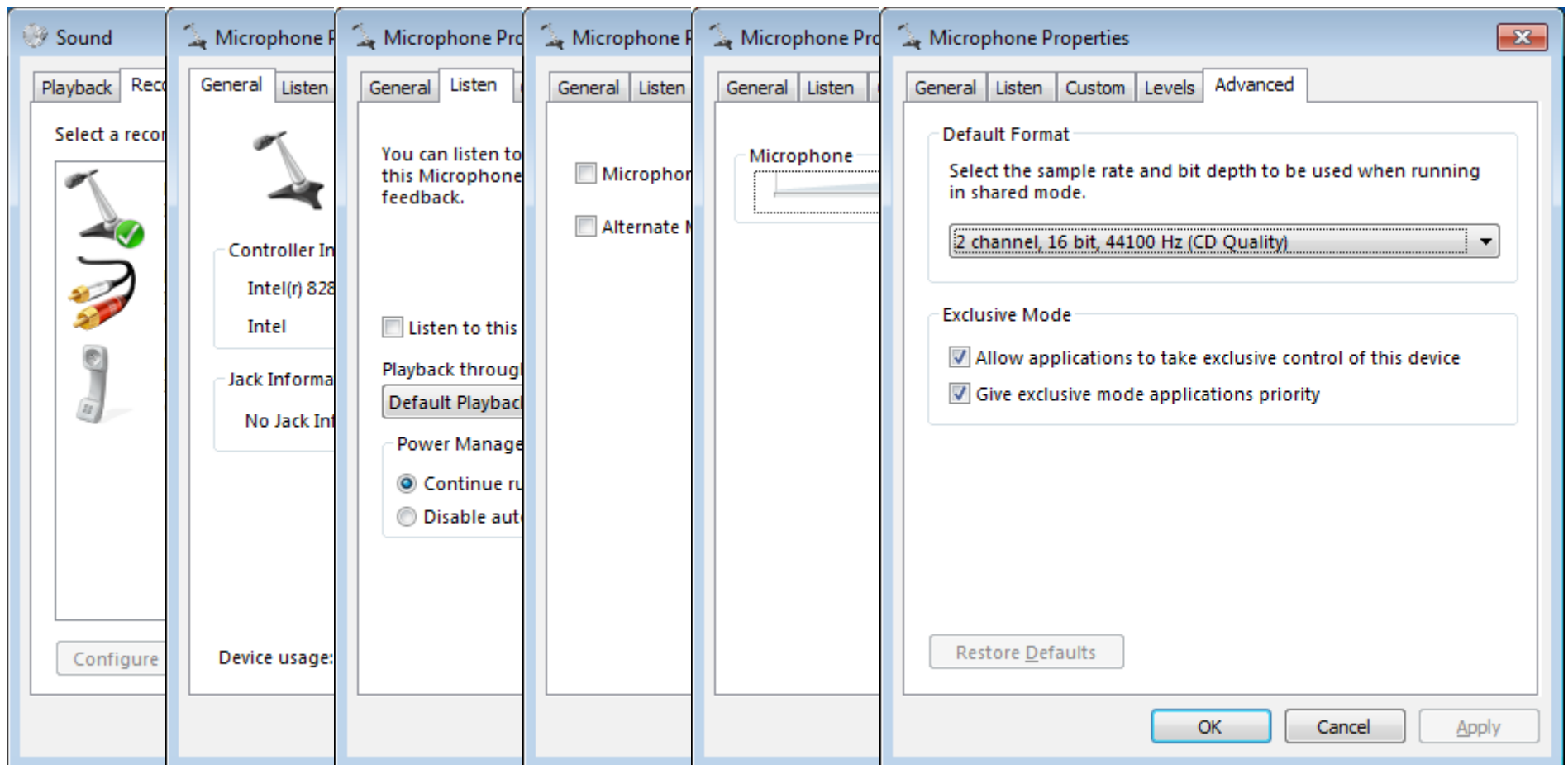 - Let the user know when they cannot access h/w

- In short…….. **UI!**

A look at the "competition"
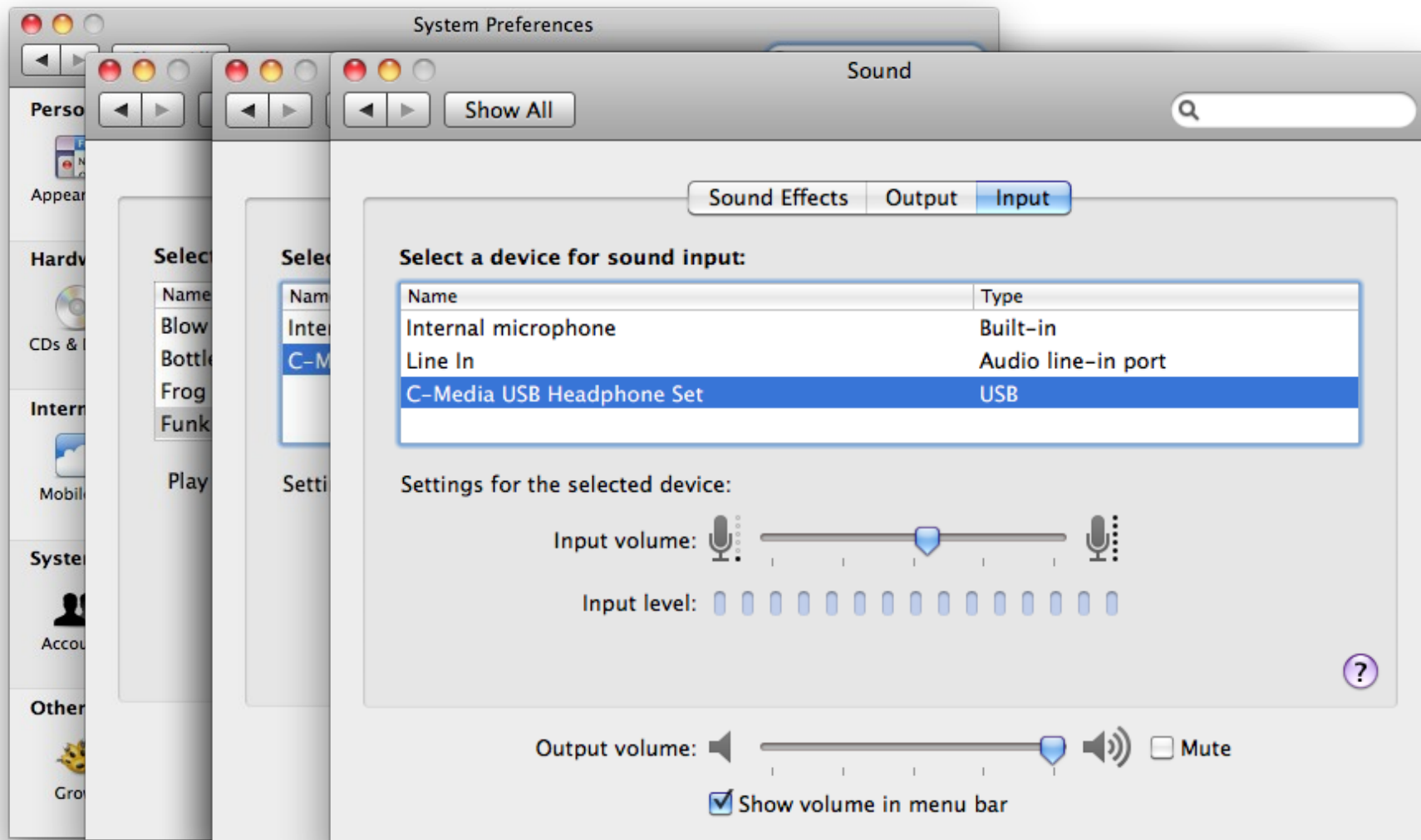
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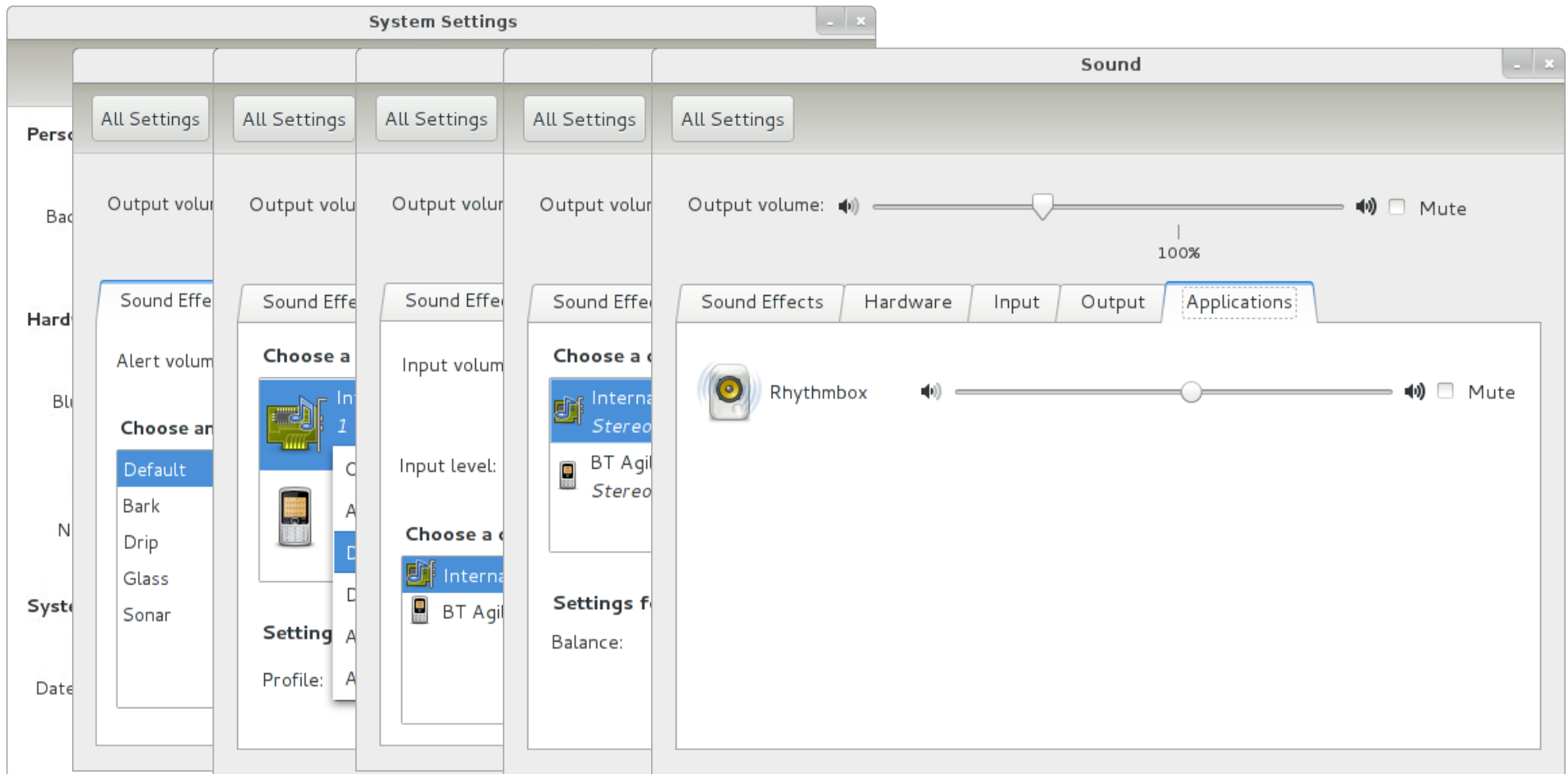
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- Now lets look at GNOME and KDE

- "Competition" - delete as appropriate!

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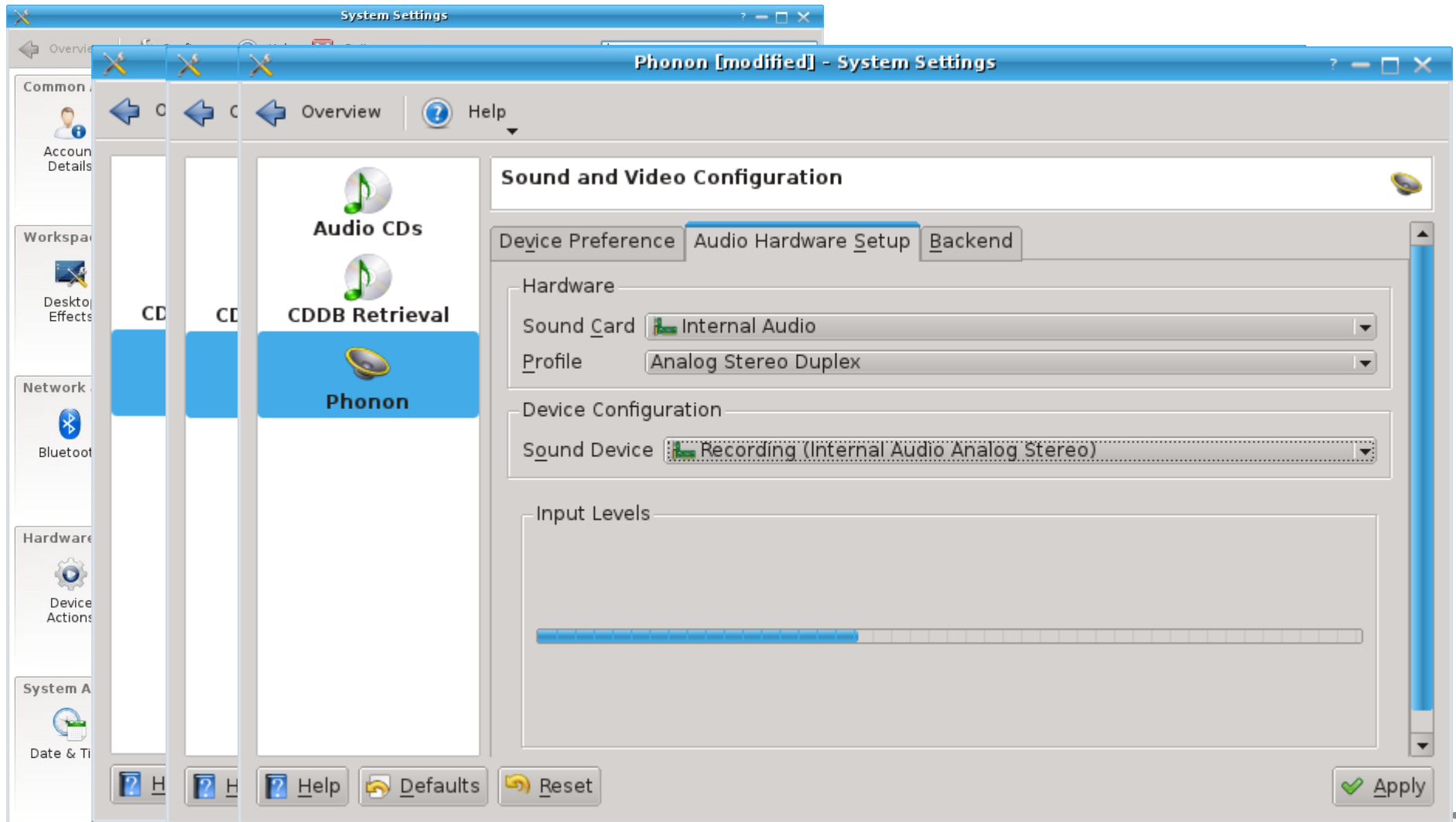
What is different?

- GNOME hides things away – KDE exposes it

- GNOME only shows connected devices

- GNOME integrates (minimal) sound theme edit

- GNOME doesn't remember history

- Bigger question: What does each actually WANT?

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Sound Menu + Media Keys

- Different implementations:

  - Ubuntu: Pulse + MPRIS

  - GNOME: Pulse

  - KDE: KMix + MPRIS

- General idea is (IMO) very good and clean

- Need standardization on how features are exposed

Where are we headed?

- Looking to integrate:

  - Better device configuration

    - Make more metadata available to UI layers

  - Simpler device selection

    - Move the 'device manager' priority lists into core

    - Make existing APIs manip priority lists for Bk/Co

    - Show all "ports"/"connectors"

    - GNOME UIs can move to top when selected

    - KDE can show full list and allow manual reorder

Where are we headed?

- Better exposing of options:
  - Introduction of module-loader to replace gconf
  - Allows easy creation of native UIs for configuring
    - Loopback modules (a la "Listen to this device")
    - Remap Sinks
    - Combine Sinks
- Publish UI guidelines covering volume levels, passthrough notification, OSD etc.

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How will we get there?

- We need help!!!

- We will need to move/renovate wiki on FDO

- Could do with better documentation of features

- Could do with better documentation .

- We want to help you too! Please consult/inform us

- Need more people to work on the UI (esp. in KDE)

- http://pulseaudio.org #pulseaudio

- http://lists.freedesktop.org/mailman/listinfo/pulseaudio-discuss