



ibus with mutter

Wayland IME Support

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Today's Topics

- ibus intro
- ibus on X Window
- ibus on Wayland
- Proposal for ibus on mutter
- Pros and Cons
- Tasks
- Summary

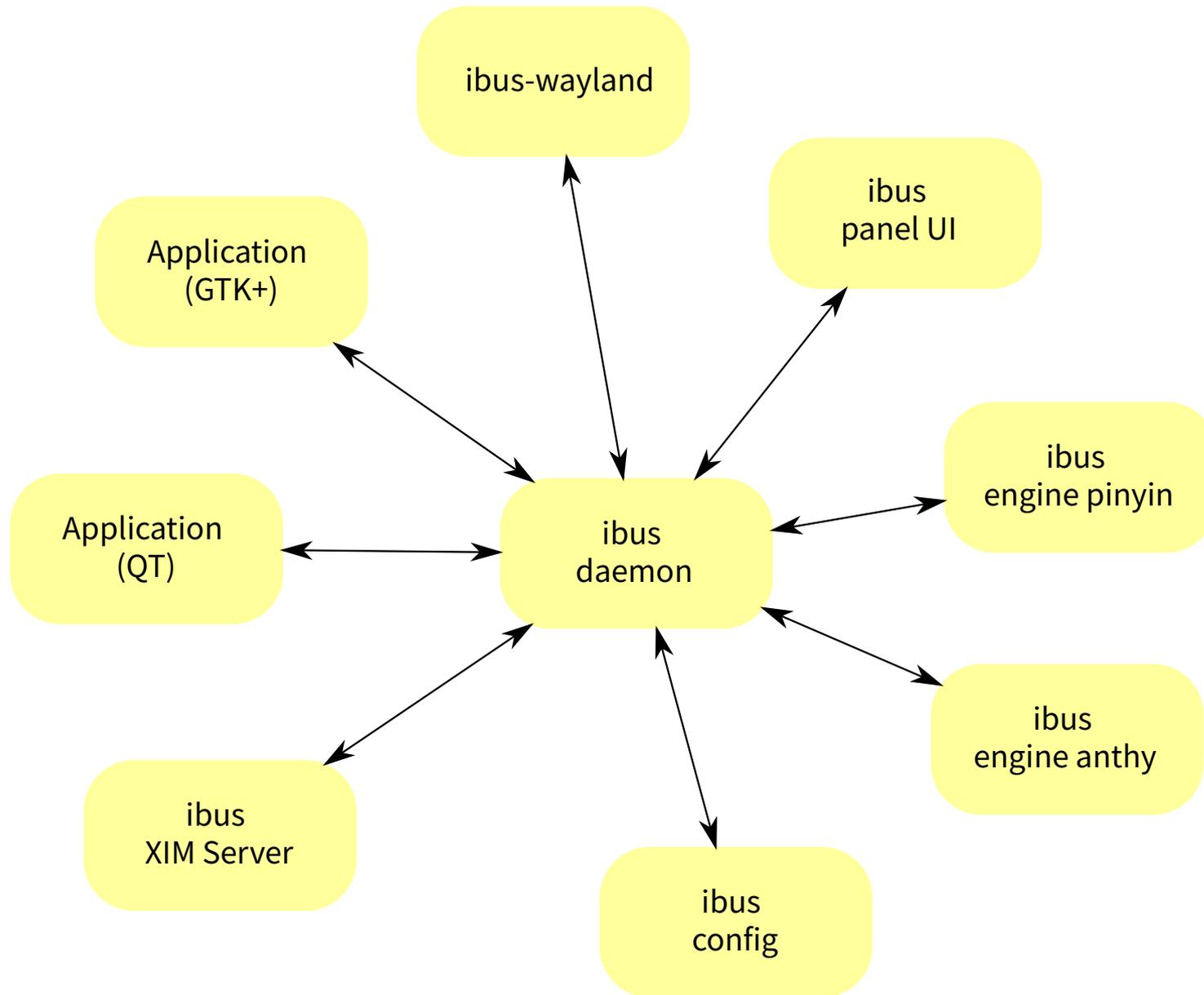
ibus intro



ibus intro

- Bus-Centric Architecture
 - It has an ibus-daemon, which manages all clients.
 - all engines, panel, config modules & clients are clients of ibus-daemon.
 - iBus is base on dbus IPC protocol.
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ibus architecture



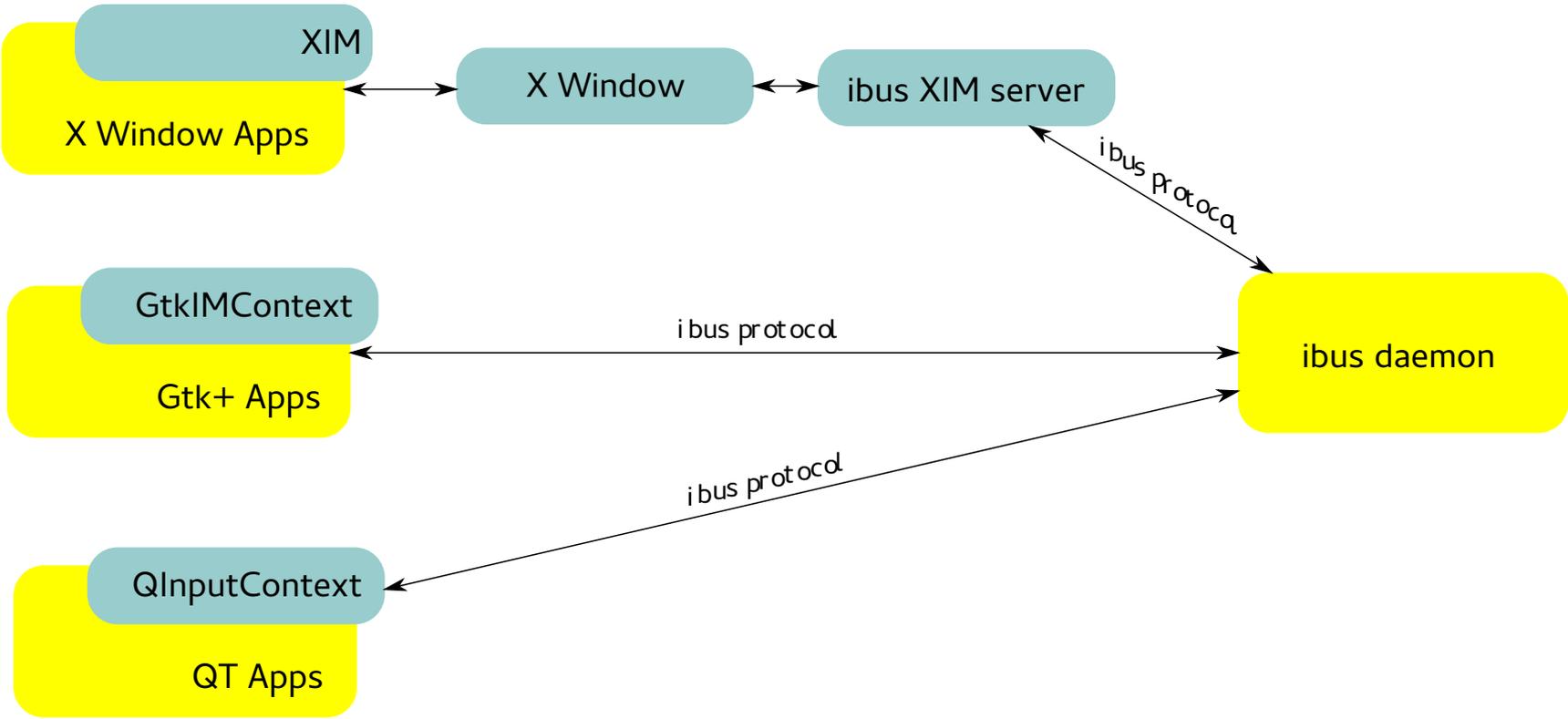
Advantage of ibus

- ibus uses dbus RPC for communication.
 - The daemon, engines, clients & UI, all partitions are running in separated processes
 - One of them has problem, it will not impact all system
 - All partitions can be restarted on the fly.
 - Engine can be loaded & unloaded on demand.
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ibus on X Window



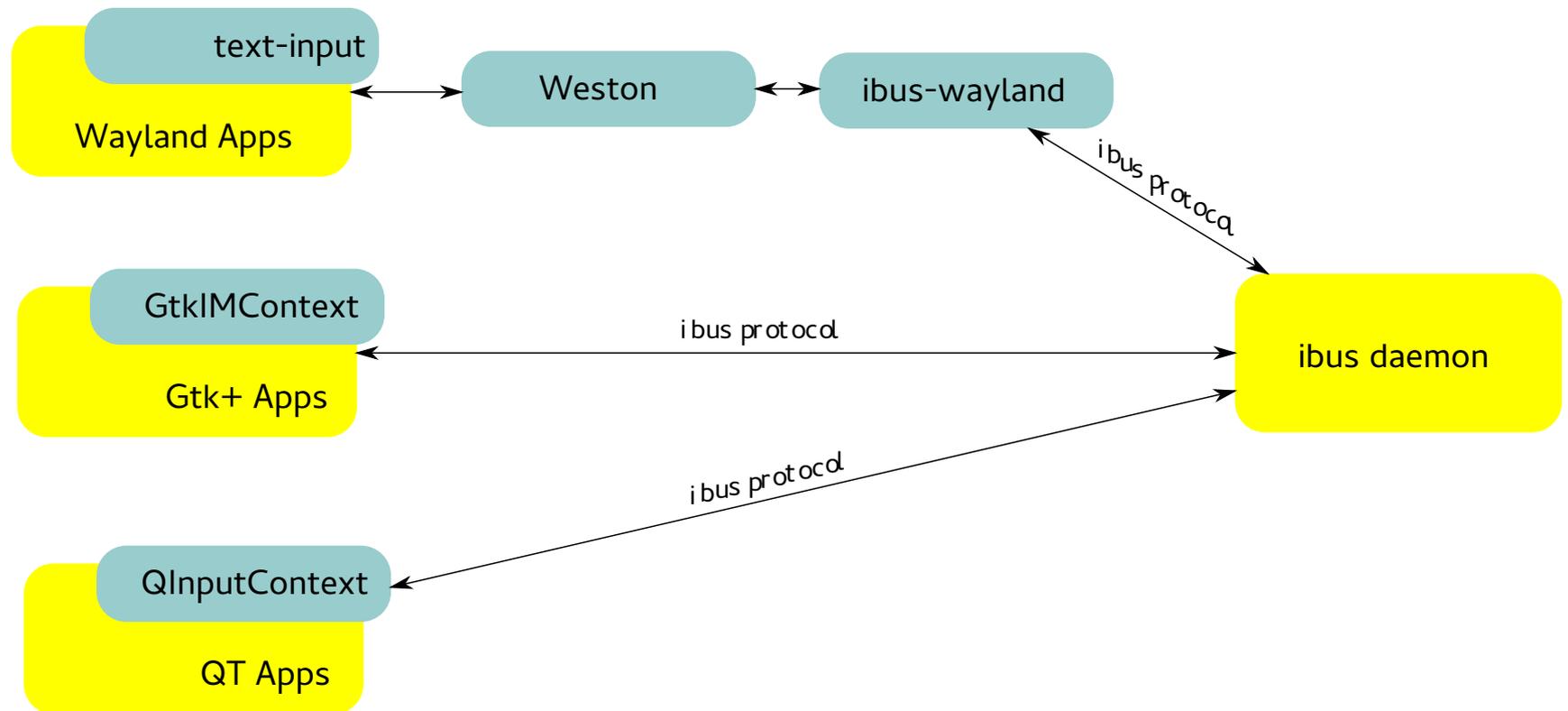
ibus on X Window



ibus on Wayland



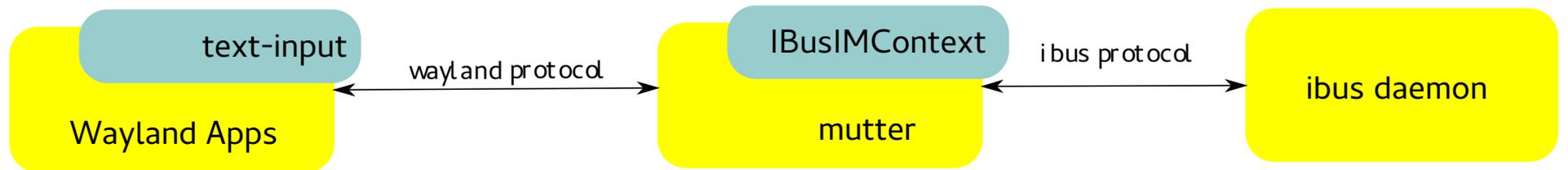
ibus on Wayland



Proposal for ibus on mutter



Proposal



Pros and Cons



Pros

- more efficient
 - less processes involved



Cons

- IBusIMContext may crash mutter
- mutter seems to use GMainLoop

Tasks



Tasks

- mutter support text input protocol
 - mutter maintain GtkIMContext for each Window
 - translate text input event into GtkIMContext signals and function calls
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Summary

- weston display server acts like a event router for input method messages
 - Actually applications can communicate with ibus daemon directly
 - may good to reduce the number of event proxy /routers for input method events
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Questions?



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