

# DBUS

Sources: [Wikipedia](#), [D-Bus Specification](#), [Cardinal Peak](#)

D-BUS is an Inter-Process Communication (IPC) specification. Communication is possible via multiple [Transports](#) (e.g., Unix sockets, systemd, TCP sockets).

Default D-Bus message buses:

- System-wide instance / message bus (see `/usr/share/dbus-1/system.conf` or `dbus-monitor --system`)
- User-session-specific instance / message bus (see `/usr/share/dbus-1/session.conf` or `dbus-monitor --session`)

Monitor DBUS signals: `dbus-monitor`

## DBUS Implementations

- GDBus (Gnome) - QT/KDE D-Bus - dbus-broker (Arch)

### dbus-broker

Source: [dbus-broker package](#)

## Desktop Notifications

- Send desktop notification: `notify-send test`
- Send desktop notification with icon: `notify-send -i face-glasses "test"` (icons are located in `/usr/share/icons/`)
- Monitor DBUS desktop notifications: `dbus-monitor "interface='org.freedesktop.Notifications'"`

## Desktop Notification Daemons

[Primary source](#)

Daemons:

- dunst
- NotifyOSD / notify-osd

Depending on the Desktop Environment, notification daemons are built-in (Cinnamon, Gnome, KDE). Notification daemons can be started standalone for other environments (e.g. i3wm). Standalone is possible via XDG autostart or as DBUS service.

Typically, DBUS service files are shipped with notification daemons, e.g.,  
`/usr/share/dbus-1/services/org.freedesktop.Notifications.service`

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