Plasma Mobile in 2022
About Us

• Bhushan Shah
  • KDE contributor since 2013,
  • Working in automotive industry as a day job.
  • Release co-ordination, development and maintainence

• Devin Lin
  • KDE contributor since 2020
  • 3rd year CS undergrad student in Canada
  • Started as application developer, now does work all around the stack
Overview

1. The Shell
2. The Stack
3. The Ecosystem (Apps)
4. Running Plasma Mobile on Hardware
5. Future Developments
What is Plasma Mobile?

- Can refer to the **ecosystem** or the **shell**
- Plasma “shell” for mobile use cases
- Use mobile versions of certain shell components
- Mostly done through the “look-and-feel” or Global Theme
Plasma Mobile in numbers

- 2000+ total merge requests
- 40+ projects
- 300+ tickets (includes open + closed)
- 6+ active downstreams
Our Stack

- Qt
- KWin Wayland
- maliit-keyboard
- ModemManager
- hfd-service
- pulseaudio and pipewire
- ... what you are accustomed to on desktop
Telephony

- Switched from ofono to ModemManager
- Plasma Dialer for calls
- Spacebar for SMS/MMS
- callaudiod from Mobian for audio routing
Plasma Mobile stack evolution

- Ofono to ModemManager migration and telephony improvements
- Major improvements in KWin compositor
  - Window overlay support for lockscreen
  - Virtual keyboard input improvements
  - Support for Xwayland clients in virtual keyboard
- Performance enhancements
Applications

- Several convergent applications
  - Example: Discover, Elisa, Koko, Kasts, Neochat, KClock....
- Some mobile equivalents of desktop apps
  - Example: Angelfish (Browser), QMLKonsole, Index
- Released as
  - Plasma Mobile Gear
  - KDE Gear (Release service)
  - Maui applications
  - Available as Flatpaks on Flathub
Kirigami

- Primarily developed using **Qt Quick**
- New components
  - NavigationTabBar
  - Dialog
  - Form components
Plasma, in your pocket.

Privacy-respecting, open source and secure phone ecosystem
Select Duration

1 m  2 m  3 m  5 m
15 m  30 m  45 m  1 h

00:00:00

FluffyChat

Plasma Mobile

from files built by kdesrc-build...

00:14

Justin

jdoxy:
Now, how to make an alpine apk
Uh that's probably not the best idea.

jdoxy:
Now, how to make an alpine apk
Better off just using this https://sineware.ca/prolinux/plasma-mobile-nightly/

bunnies

Funny and Cute Baby Bunny Rabbit Videos - Baby Animal Video Compilation (2019)

10:03

Write a message...
Using on hardware

• Halium support was dropped, only mainline devices supported
• Pine64 PinePhone and PinePhone Pro
• Various devices supported, see pmOS
  • Ex. OnePlus 6
• Can be installed as regular packages too!
  • Packaged in Alpine, Fedora, Manjaro ARM, postmarketOS, Arch Linux ARM, openSUSE, Fedora
Major challenges for future

- More and more vendor lock-in
- Lack of more generalized adaption of open mobile projects
- Fragmentation and lack of collaboration between open mobile communities
Looking forward to 2023 and beyond

• Improved **stability** and **performance**
  • Create better workflows to find performance issues, track regressions

• KDE **PIM** (calendars, email, contacts...)
  • Bring the stack to mobile

• Improved **tablet support**
  • Make it easy to install and use on x86 devices

• **Convergence**
  • Better support for multiple displays, multi-window mode
Looking forward to 2023 and beyond

• More mainline devices, shoutout to postmarketOS! 🎉
• More active contributors
• Hoping that Plasma Mobile becomes a stepstone for people looking to contribute to KDE
• More hardware vendors that support Linux Mobile
Contribute!

- We want more contributors!
- Application development: https://develop.kde.org
- Design and UX improvements
- More testing
- Join us on Matrix: https://matrix.to/#/#plasmamobile:matrix.org

Website: plasma-mobile.org
Questions?

Meet us in Plasma Mobile BoF at Room 2 on Monday @ 17:00