Phone Proxies

Effortless Content Sharing between Smartphones and Interactive Surfaces

We present Phone Proxies, a technique for effortless content sharing between mobile devices and interactive surfaces. In such a scenario, users often have to perform a lengthy setup process before the actual exchange of content can take place. Phone Proxies uses a combination of custom NFC (near-field communication) tags and optical markers on the interactive surface to reduce the user interaction required for this setup process to an absolute minimum.

Connect Smartphones & Interactive Surfaces

We use marked NFC tags which are easily recognizable by both smartphones and interactive surfaces.

Got NFC?
Place your Smartphone here.

No NFC?

Select & Share images from smartphones
Content Sharing is initialized by selecting local images via a web interface (all devices) or a native app (Android).

Transfer available data between mobile clients
Drag gestures are used to transfer data from one client to another, using the interactive surface as a proxy.

Each tag stores a unique URL to a webserver connecting the mobile devices and controlling the content sharing. The URL points to the web interface from where users may install a native application for their devices.

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Research Questions & Future Work
- How will users perceive privacy issues regarding their shared data?
- Can native app installation be automated without compromising security?