**Controller**

Load controller keys.

* Installation Key
* Pc Kc – device identifier key.
* Generated key to share with root registration device

Open backchannel session.

Encrypt channel using Pc.

* Socket
* Bluetooth
* Serial
* NFC
* Etc.

Find available networks. Update network config.

Provide configuration interface over backchannel for network settings.

Provide configuration interface over backchannel for XMPP server settings.

* IP address
* Domain name
* Root information
* Avahi settings

Once configuration set. Run XMPP initialization.

* Update firewall
* Begin Avahi
* Start XMPP server

**Mobile**

Take QR code to find Kc.

Establish backchannel session.

Encrypt channel using Kc.