Software Architecture

قول qaul.net

GUI
Native Code Framework &
Jquery Mobile GUI
in OS specific HTML5 view

Automatic wifi &
network confi-
guration

ᑕᑎ🅳🆁🅾🅸🅳 Mac OS X Windows ubuntu

Libqaul

Data Base
(SQLite)

Web Server
(Mongoose)
TCP 8081

User Discovery
Download
Names via TCP

Messenger
1 to many
olsr flooding
1 to 1
TCP 8081

Captive Portal
DHCP dummy
UDP 8067
DNS   dummy
UDP 8053

File Sharing
Chunk
Downloading
via TCP 8081

VoIP
(pjsip)
1 to 1 voice
chat

Plugin System
Sharable
Webapps

IPC communication [Port 8112]

Port Forward
UDP 67 -> 8067
UDP 53 -> 8053
TCP 80 -> 8081

OLSR Mesh Routing
OLSRD with olsrd_qaul plugin

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qaul.net shall be execu-table on as many devices as possible.

GUI Framework
Natives Window Frame-
work & HTML5 interface:
– Windows: Visual C++
  .NetForms-Applikation
– OSX: Objective-C
– Android: Java
– Linux: QT

Libqaul
C-Library with core func-
tionality & services. The
Library is linked to the
native code framework. It
communicates via IPC
(interprocess communica-
tion) with the olsrd_qaul
plugin in the

Mesh Routing
OLSR mesh routing

Captive Portal
People can connect to
qaul.net and download the
qaul.net software.