

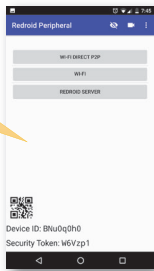


Putting retired Android devices back to work

Derek Johnson • Matt Madden • Greg Smith • Scott Wells

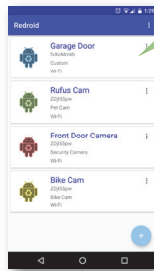
Two Apps

Simple, 1-screen interface



Redroid Peripheral

Makes the hardware of an old (or new) phone available via the Redroid API.

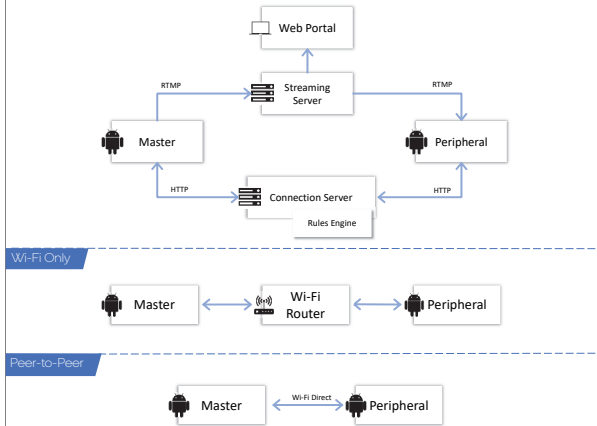


Redroid Master

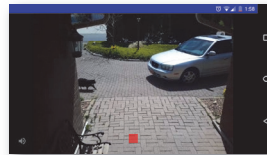
Runs on the phone in your pocket to harnesses the power of a Redroid Peripheral.

Full-featured

Flexible Networking Options



Preset Configurations



Security/Pet Cam

Bike Cam



OR

Custom Configurations

USE:

- Sensors
- Video + Audio
- Location
- Rules

TO MAKE:

- Garage door detector
- GPS tracker
- Mailbox watcher
- Anti-theft system
- Anything you can think up



Rules

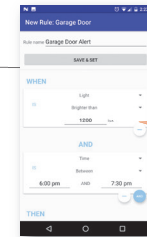
Custom rules define triggers and actions

Triggers

- Sensors
- Location data
- Video motion detection

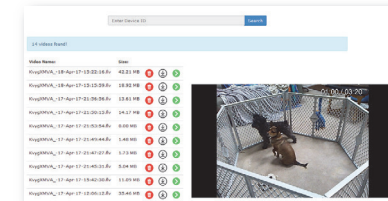
Actions

- Android notifications
- SMS notifications
- Email notifications



Flexible rule-creation

Video Web Portal



View and download your saved Redroid videos.

Redroid API

- Open
- Flexible
- HTTP-based

```
API 502: Send updated location data
Request
PUT /redroid/peripheral/location_event/{request_id}
{
  "latitude": FLOAT,
  "longitude": FLOAT,
  "altitude": FLOAT,
  "bearing": FLOAT,
  "speed": FLOAT,
  "time_stamp": LONG
}
```