

HTTP protocol

url: All manager to device events happen by http GET requests to url:

http://<device-name | IP>:<port>/[device.php]?

cmd=<command>[&<arg1>=<val1>[& ...]]

behavior when requesting any other file but **/device.php** or **/** is undefined but it is recommended that the device responds as if **/device.php** were requested. Argument order is arbitrary and additional arguments may be supplied (and ignored).

port: The device may listen on any port so long as it does not change ever.

events: The device must handle a minimal set of commands ('cmd'). The cmd type is encoded into the GET or POST query string in the standard way (eg **?cmd=eventtype&field=val1&field2=val2...**).

All managers must implement the following actions:

?action=	parameters	POST data	response
getCode	- none -	- none -	The JS code for App
getHTML	- none -	- none -	the HTML code for App
ping	- none -	- none -	200 in header, no body
acquire	port=<manager_http_port>¹	- none -	200 ok 503 unavailable (already acquired)
info	- none -	- none -	JSON formatted info

¹: required

getCode:

ping:

acquire: A command from the manager which ties the device to the manager.

info: fields are:

```
{
  uuid    : <the uuid string>,
  status  : <human readable status string 50 chars max>,
  state   : <machine state object. readable by app>,
  name    : <the device name 50 chars max>,
}
```

Reserved query fields:

The following fields may not be used in http query strings.

- post_data
- ip

The following fields must be ignored by the device

- action
- uuid

Discovery

device sends multicast packet to manager... see manager