

**NAME**

**comitup** – Manage wifi connections on headless, unconnected systems

**SYNOPSIS**

**comitup**

**DESCRIPTION**

The **comitup** service provides a means to establish a connection between a computer and a wifi access point, in the case where wifi is the only means available to access the computer.

On startup, the service will attempt to connect to wifi using established `networkmanager(8)` connections. If this is not successful, **comitup** will establish a wifi hotspot with the name `comitup-<nnnn>`, where `<nnnn>` is a persistent 4-digit number.

While the hotspot is active, a `comitup-web(8)` service is available to manage connecting to an access point.

In all states, `avahi-daemon(8)` is used to publish the mdns host names `comitup.local` and `comitup-<nnnn>.local`, making the web service accessible as e.g. `http://comitup.local`, for systems supporting Zeroconf. For other systems, a `comitup` Web Service is published which is visible to Zeroconf browsing applications, allowing the IP address to be manually determined. The web service address is likely `http://10.42.0.1`.

**comitup** logs to `/var/log/comitup.log`.

**D-Bus Interface**

**Comitup** provides a D-Bus object which claims the name `com.github.davesteele.comitup` on the path `/com/github/davesteele/comitup`, supporting the interface `com.github.davesteele.comitup`. The interface includes the following methods.

- `activity()`

Input: None

Output: None

Calling this method will disable **comitup** timeout processing for the current period. In the **HOTSPOT** mode, this defers the periodic access point connection attempt until the next timeout period (nominally 1 minute). **HOTSPOT** timeout processing is also disabled if any other device is connected to the hotspot.

- `access_points()`

Input: None

Output: Array of *DICT\_ENTRY*

Return a list of visible access points. This is represented as an array of D-Bus *DICT\_ENTRY*. Each *DICT\_ENTRY* contains strings associated with the following keys, *ssid*, *strength* (0 to 100) and *security* (*encrypted* or *unencrypted*).

- `state()`

Input: None

Output: *state*, *connection*

This returns strings for the current **comitup** state (either **HOTSPOT**, **CONNECTING**, or **CONNECTED**) and the *ssid* name for the current connection on the wifi device.

- `connect()`

Input: *ssid*, *password*

Output: None

Delete any existing connection for *ssid*, create a new connection, and attempt to connect to it. The password may be a zero length string if not needed.

- *delete\_connection()*

Input: *ssid*

Output: None

Delete the connection for *ssid*. The system will not be able to reconnect using this connection.

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**SEE ALSO**

comitup-conf(5), comitup-cli(1), comitup-web(8)