

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.

This method is deprecated. **HOTSPOT** timeout processing is now 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)