

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.

If two wifi interfaces are available, the hotspot will remain active on the first interface, and the internet connection will be made on the second. Otherwise, the hotspot will be replaced with the internet connection.

In all states, `avahi-daemon(8)` is used to publish the mdns host name *comitup-<nnnn>.local*, making the web service accessible as e.g. *http://comitup-1234.local*, for systems supporting Zeroconf. For other systems, a *comitup* Workstation entry 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.

- *get_info()*

Input: None

Output: *DICT_ENTRY*

Return information about the current **Comitup** service. The keys are as follows:

* *_version_* – The package version.

* *_basename_* – The currently configured basename (default ***comitup***).

* *_id_* – The unique random numeric id associated with the service instance.

* *_hostnames_* – A list of host names that are published for the service IP address.

- *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)