

**NAME**

**pppoe-discovery** – perform PPPoE discovery

**SYNOPSIS**

**pppoe-discovery** [ *options* ]  
**pppoe-discovery** { **-V** | **-h** }

**DESCRIPTION**

**pppoe-discovery** performs the same discovery process as **pppoe**, but does not initiate a session. It sends a PADI packet and then prints the names of access concentrators in each PADO packet it receives.

**OPTIONS****-I interface**

The **-I** option specifies the Ethernet interface to use. Under Linux, it is typically `eth0` or `eth1`. The interface should be “up” before you start **pppoe-discovery**, but should *not* be configured to have an IP address. The default interface is `eth0`.

**-D file\_name**

The **-D** option causes every packet to be dumped to the specified *file\_name*. This is intended for debugging only.

**-U**

Causes **pppoe-discovery** to use the Host-Uniq tag in its discovery packets. The value of the tag is derived from the process's PID number. This lets you run multiple instances of **pppoe-discovery** and/or **pppd** without having their discovery packets interfere with one another. You must supply this option to *all* instances that you intend to run simultaneously. This option is mutually exclusive with **-W**.

**-W value**

Causes **pppoe-discovery** to use the Host-Uniq tag in its discovery packets. The value of the tag is taken from the option argument, encoded as a string of hexadecimal digits. This lets you run multiple instances of **pppoe-discovery** and/or **pppd** without having their discovery packets interfere with one another. You must supply this option to *all* instances that you intend to run simultaneously. This option is mutually exclusive with **-U**.

**-S service\_name**

Specifies the desired service name. **pppoe-discovery** will only accept access concentrators which can provide the specified service. In most cases, you should *not* specify this option. Use it only if you know that there are multiple access concentrators or know that you need a specific service name.

**-C ac\_name**

Specifies the desired access concentrator name. **pppoe-discovery** will only accept the specified access concentrator. In most cases, you should *not* specify this option. Use it only if you know that there are multiple access concentrators. If both the **-S** and **-C** options are specified, they must *both* match.

**-Q**

Causes **pppoe-discovery** to avoid printing discovered access concentrator names. This can be useful in scripts, which can use the exit code of the program to determine whether any matching access concentrators were discovered.

**-t timeout**

Changes the discovery timeout for PADI requests, in seconds. The default value is 5 seconds.

**-a attempts**

Changes the number of PADI discovery attempts made. By default, 3 attempts are made to discover access concentrators before giving up.

**-V | -h**

Either of these options causes **pppoe-discovery** to print its version number and usage information, then exit.

**AUTHORS**

**pppoe-discovery** was written by Marco d'Itri <md@linux.it>, based on **pppoe** by David F. Skoll <dfs@roaringpenguin.com>.

**SEE ALSO**

pppoe(8), pppoe-sniff(8)