

**NAME**

faxmodem – dynamically add a modem to a *HylaFAX* server system

**SYNOPSIS**

**/usr/local/sbin/faxmodem** [ **-q** *queue-dir* ] [ **-c** *capabilities* ] [ **-p** ] [ **-P** ] [ **-u** *priority* ] *modem*

**DESCRIPTION**

*faxmodem* sends a message to the *HylaFAX* queuer process *faxq(8C)* telling it that the specified modem is ready for use and informing it about its fax-related capabilities. This is the mechanism by which modems are added in a send-only configuration. Once a modem has been configured its status can be reconfigured using the *faxstate(8C)* program. *faxmodem* can also be used to alter the capabilities and usage priority of a previously configured modem.

The specified *modem* is either the terminal device name where the modem is attached or a *HylaFAX* device identifier (see *hylafax-config(5F)* for information on device identifiers). Device names may be given without a leading directory pathname; e.g. *ttyf2* instead of */dev/ttyf2*.

To figure out the capabilities of a modem either use the *probemodem(8C)* script or manually communicate with the modem. For a Class 2 modem the capabilities are given in the response to the “AT+FDCC=?” query command and for a Class 2.0 modem the “AT+FCC=?” command. To check if a modem is capable of polled retrieval of documents use “AT+FSP=?” for a Class 2.0 modem or “AT+FSPL=?” for a Class 2 modem; if “1” is indicated in the response then the modem supports polling. For example,

```
hyla% cu -l ttyf2
Connected
at+fclass=2.0
OK
at+fcc=?
(0,1),(0-5),(0-2),(0-2),0,0,0,(0-7)
OK
at+fsp=?
(0,1)
OK
```

In this case the modem would be added using the command:

```
/usr/local/sbin/faxmodem -c '(0,1),(0-5),(0-2),(0-2),0,0,0,(0-7)' ttyf2
```

(by default polling is assumed to be supported).

Class 1 modems require a different technique. The host implements most of the fax protocol so all that is needed is to identify the possible signalling rates the modem supports for transmitting; this is done with the “AT+FTM=?” command. For example,

```
hyla% cu -l ttyf2
Connected
at+fclass=1
OK
at+ftm=?
24,48,72,73,74,96,97,98,121,122,145,146
OK
```

In this case the modem supports 2400, 4800, 7200, 9600, 12200, and 14400 bps signalling rates so the modem would be added using:

```
/usr/local/sbin/faxmodem -c '(0,1),(0-5),(0-2),(0-2),(0,1),0,0,(0-7)' ttyf2
```

**OPTIONS**

The following options are available:

- c** Specify the fax capabilities using the syntax defined by the “Class 2” specification: “(vr),(br),(wd),(ln),(df),(ec),(bf),(st)”. where, *vr* specifies vertical resolution, *br* specifies bit

rate, *wd* specifies page width, *ln* specifies page length, *df* specifies data compression, *ec* specifies error correction, *bf* specifies binary file transfer, and *st* specifies scan time/line; and each of the above specifications is a range or list of numbers that defines the exact capabilities of the modem. For example, the default capabilities are “(0,1),(0-3),(0-4),(0-2),(0),(0),(0),(0-7)” which specifies the modem is capable of sending and receiving both low and high resolution facsimile with a variety of page sizes; supports signalling rates 0-3 (2400 bps through 9600 bps); supports only 1D-encoded data compression; and does not support error correction or binary file transfer. A modem’s ability to support polled retrieval of facsimile is specified separately with the **-p** and **-P** options.

- p** Specify the modem is **not** capable of polling for remote documents.
- P** Specify the modem is capable of polling for remote documents (default).
- q dir** Use a spooling area other than */var/spool/hylafax*.
- u priority** Assign the specified priority to the modem when scheduling it for outbound use. Modem priorities are numbers in the range [0..255] with lower numbers meaning higher priority. Modems are initially assigned priority 255.

## FILES

|                                |                                 |
|--------------------------------|---------------------------------|
| <i>/var/spool/hylafax</i>      | default spooling area           |
| <i>/var/spool/hylafax/FIFO</i> | fifo for contacting <i>faxq</i> |

Consult *hylafax-server*(5F) for a complete discussion of the structure and content of the spooling area.

## SEE ALSO

*hylafax-server*(5F), *faxgetty*(8C), *faxq*(8C).