

# Table of Contents

<b>FastPCRF Management</b> .....	3
<b>Connection to PCRF</b> .....	3
pcrf connect show .....	3
pcrf connect switch [<pcrf_index>] .....	3
<b>Authorization request queue</b> .....	3
pcrf auth queue stat .....	3
pcrf auth queue clear .....	3
<b>Persistent reply queue</b> .....	4
pcrf persist queue stat .....	4
pcrf persist queue clear .....	4
pcrf persist queue reconnect .....	5



# FastPCRF Management

The following are the fastPCRF commands, so you have to specify the fastPCRF address in the -r argument of the fdpi\_cli utility.

## Connection to PCRF

### pcrf connect show

Displays the current status and accumulated statistics for connections to PCRF.

```
fdpi_cli -r <address> pcrf connect show
```

### pcrf connect switch [<pcrf\_index>]

Forces connection to the specified PCRF

```
fdpi_cli -r <address> pcrf connect switch [<pcrf_index>]
```

where <pcrf\_indexed> — the index of the connection line in the auth\_server parameter. If <pcrf\_indexed> is not specified — it defaults to 0.

## Authorization request queue

[Authorization request queue](#) - is an internal fastPCRF queue, which is designed to smooth out the peaks of calls to the Radius-server. When fastDPI authorization from fastPCRF, it does not take into account the bandwidth of Radius-server. There are parameters in fastpcrf.conf that set the maximum length and time spent in the queue, but sometimes you need to manually clear the queue or view its statistics.

### pcrf auth queue stat

Displays statistics on the internal queue of authorization requests:

```
fdpi_cli -r <address> pcrf auth queue stat
```

### pcrf auth queue clear

Clears the authorization queue. You can clear the entire queue with the command:

```
fdpi_cli -r <address> pcrf auth queue clear
```

or the oldest records by specifying the `time = N` parameter, where N is the number of seconds, - records older than the specified number of seconds will be removed from the queue:

```
fdpi_cli -r <address> pcrf auth queue clear time=60
```

## Persistent reply queue

[Persistent queue](#) management commands (fastPCRF response queues for authorization requests)

### pcrf persist queue stat

Displays persistent queue statistics for each fastDPI:

```
> fdpi_cli -r <address> pcrf persist queue stat

Statistics of persist queue (pcrf -> fastdpi):
FastDPI #0 '127.0.0.1%lo':
  queue file: /var/spool/dpi/pcrf/pq-127.0.0.1:29000
  current: page count=1, item count=0
  connected at: 2019/12/04 12:02:52, -25.332764s (13249164373261240 ticks)
  last sent: n/a (0 ticks)
  next reconnect: n/a (0 ticks)
  Statistics:
    sent: packet=0, bytes=0, error=0
    received: bytes=0, error=0
    socket: open=1, close=0, buffer overflow (split packet)=0
    queue: enqueue packet=0 (0 bytes)
           drop head=0, push exception=0, clear count=0
FastDPI #1 '10.20.30.41%eth0':
  queue file: /var/spool/dpi/pcrf/pq-10.20.30.41:29000
  current: page count=1, item count=3560
  last sent: n/a (0 ticks)
  next reconnect: 2019/12/04 12:03:18, +0.705613s (13249242490512650
ticks)
  Statistics:
    sent: packet=0, bytes=0, error=0
    received: bytes=0, error=0
    socket: open=0, close=0, buffer overflow (split packet)=0
    queue: enqueue packet=0 (0 bytes)
           drop head=0, push exception=0, clear count=0
```

### pcrf persist queue clear

Clears all queues or only the specified queue. The command response is the queue statistics after

clearing.

```
# clears all queues
fdpi_cli -r <address> pcrf persist queue clear

# clears a queue by its number
# the queue number can be found from the output of the pcrf persist queue
stat command
fdpi_cli -r <address> pcrf persist queue clear 1

# clears a queue by its name
fdpi_cli -r <address> pcrf persist queue clear 127.0.0.1%lo
```

## **pcrf persist queue reconnect**

Allows you to reconnect to fastDPI without resetting the queue. It can be applied to a specific connection or to all.