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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.

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.