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The FastPCRF logs

FastPCRF logs its actions to the /var/log/dpi/ directory. Logs purposes:

fastpcrf_alert.log

The fastPCRF start/halt log. If there are any errors at the start/halt, you will see them in this log.

fastpcrf_ap0.log

Log of authorization requests from the fastDPI (fastDPI → fastPCRF interaction):

- errors occurred when connecting to the fastDPI;
- fastDPI authorization requests traces;
- traces of acounting data received from the fastDPI.

fastpcrf_ap1.log

CoA log:

- connections to CoA clients;
- CoA requests receiving and processing

fastpcrf_ap2.log

Interaction with RADIUS-authorization servers:

- adding and removing of RADIUS servers;
- Access-Request authorization requests;
- Access-Accept/Reject responses

fastpcrf_ap3.log

Accounting log:

- adding and removing of accounting RADIUS servers;
- internal accounting database maintenance;
- subscriber accounting start/stop;
- sending of of accounting data;

fastpcrf_ap4.log

fastPCRF → fastDPI interaction log:

- Connection to fastDPI using the control port;
- Sending of authorization results to the VAS Experts DPI;
- Sending of CoA requests to the VAS Experts DPI.

fastpcrf_stat.log

Internal fastPCRF statistics

- memory allocation;
- number of requests sent to the RADIUS and corresponding responses received;
- CoA statistics;
- statistics of connection with RADIUS servers and with fastDPI

FastPCRF periodically logs its internal statistics to this log.

Tracing

The level of log detail is specified by the `trace` option in the fastpcrf.conf configuration file. The `trace` option is a bitmask, so each bit specifies the detailed logging of a subsystem:

- 0x00000001 - connection monitor. RADIUS connection monitor. It monitors the connections activity, decides on switching to the backup RADIUS server if necessary.
- 0x00000002 - task scheduler. Internal task scheduler
- 0x00000010 - auth server is responsible for accepting authorization requests from the fastDPI(fastDPI → fastPCRF interaction)
- 0x00000200 - radius_client connections. Detailed Access-Request and Access-Accept/Reject responses logging
- 0x00000400 - radius_client monitor. Logging of Server-Status requests intended to check the RADIUS server operates and corresponding responses
- 0x00001000 - CoA server. CoA events logging
- 0x00002000 - CoA listener - establishing connections to CoA clients
- 0x00004000 - CoA processor - detailed CoA requests logging
- 0x00010000 - fdpi_ctl - logging of events of sending data to the fastDPI (fastPCRF → fastDPI interaction)
- 0x00020000 - fdpi_crl FIFO - message queue events (the messages are sent from fastPCRF to fastDPI). CoA-requests being sent to all fastDPI-servers are queued.
- 0x00100000 - logging of start/stop accounting sending
- 0x00200000 - logging of interim update accounting sending

The `trace` optons can be used "on the fly": It is allowed to change its value on the fly by the following command: `service fastpcrf reload`