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# 7 BRAS parameters

## BRAS fields in the fastdpi.conf

Field	Format	Description
bras_max_session_duration	seconds	The default value is 604800. It is the maximum Subscriber session length, in seconds. When the session maximum duration is exceeded, the FastDPI will respond by DHCP-Nak reject to a DHCP-Request of lease renewal, thereby forcing the Subscriber device to start a new session by sending DHCP-Discover.
bras_loglevel	number	It specifies the log level when writing to the /var/log/dpi/fastdpi_bras.log: 3 - Error; 4 - Warning; 5 - Info; 7 - Trace. The higher the log level, the more detailed the log. The log level is 5 by default, using this value only warnings and errors will be written to the fastdpi_bras.log. Log level 7 (Trace) will create a detailed log with all DHCP packets, which is very useful when implementing BRAS.
bras_log	string	Specifies the full name of the DHCP log file, the default value is /var/log/dpi/fastdpi_bras.log. This parameter cannot be changed on the fly, so once it changed you should restart the VAS Expert DPI.
bras_dhcp_trace_mac	MAC address	Specifies the client MAC address for tracing DHCP packets. All DHCP traffic for the given MAC address will be written to a pcap file. For example: a0:b1:c2:d3:00:0a. Only one MAC address can be specified for a DHCP trace at a time. The pcap file is created in the /var/dump/dpi directory. In this case, other <a href="#">pcap capture options</a> also can be enabled, since all the traced packets are written to one pcap file. This parameter is provided to help solve problems with specific subscriber device: if the client device does not receive an IP address for whatever reason, you can pass this device MAC address to a trace and analyse which DHCP packets come to BRAS and which DHCP responses it sends back.