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Service Management

Subscriber management is performed using the utility `fdpi_ctrl`.

We recommend using subsman_profiles, which will simplify service management.

Command Syntax

General command format:

```
fdpi_ctrl command --service service_id [IP_list] [LOGIN_list]
```

Command parameter breakdown:

Parameter	Description, possible values, and format	Note
`command`	Values: 1. `load` — load data 2. `del` — delete. For `–service`, the `service_id` must be specified 3. `list` — show information for the specified `IP_list` or all information if the argument `all` is specified.	In the `list` and `del` commands, instead of an IP/LOGIN list, you can specify `all`, which applies the command to all.
`service_id`	Numeric ID corresponding to a service from the list.	
`IP_list`	Values: 1. `–file` — file with IP list 2. `–ip` — single IP, format: `192.168.0.1` 3. `–ip_range` — IP range (inclusive), format: `192.168.0.1-192.168.0.5` 4. `–cidr` — IP with port, format: `192.168.0.0/30, 5.200.43.0/24~` (CIDR range with excluded boundary addresses)	The CIDR range can exclude boundary addresses (gateway and broadcast addresses under classless addressing) by adding the `~` symbol at the end of the CIDR definition, e.g., `–cidr 5.200.43.0/24~`.
`LOGIN_list`	Values: 1. `–file` — file with login list 2. `–login` — single login, format: USER1, "FIRST_NAME LAST_NAME" (option to use login with escaped special characters)	"USER1" — example of using login in double quotes 'USER2' — example of using login in single quotes

A line starting with # is a comment.

List of Services

When enabling blocking services (4, 16, 49), only TCP traffic is blocked. To block UDP traffic as well, you need to enable the `udp_block` parameter.

ID	Short Description	Link to Detailed Description
1	Bonus program	Description
2	Advertising	Description
3	Ad blocking	Description
4	Blacklist filtering	Description
5	Whitelist and Captive Portal	Description
6	HTTP redirect notification	Description
7	Caching	Description
8	Passed DDOS protection	Description
9	RADIUS accounting / netflow statistics collection for billing	Description
10	DDOS protection	Description
11	CGNAT and NAT 1:1	Description
12	Traffic recording in PCAP	Description
13	Mini Firewall	Description
14	Traffic diversion to the TAP interface	Description
15	Special subscriber (all traffic goes to cs0, filtering service (4) is not applied to vChannel and general channel)	Description
16	Whitelist and redirection to Captive Portal without internet access	Description
17	Traffic mirroring to a specified VLAN	Description
18	Session-based policing for certain protocols and traffic classification at channel and subscriber levels	Description
19	DNS response substitution, future plans: redirect DNS queries to the provider's DNS server	Description
49	IPv6 traffic blocking	Description
50	Participant in a marketing campaign with notification via HTTP redirect	Description
51	Reserved (internal service)	
254	VRF	Description

Examples

1. Enable service:

```
fdpi_ctrl load --service 9 --ip 192.168.0.1
# or
fdpi_ctrl load --service 9 --login USER1
```

2. Disable service:

```
fdpi_ctrl del --service 9 --ip 192.168.0.1
```

3. Get list with the connected service:

```
fdpi_ctrl list all --service 9
```

4. Get information for a specific IP:

```
fdpi_ctrl list --service 9 --ip 192.168.0.1
```

5. When specifying the IP list, you can simultaneously specify several options: `–file`, `–ip`, `–ip_range`, `–cidr`:

```
fdpi_ctrl list --service 9 --ip 192.168.0.1 --ip 192.168.0.2 --file
fip_1.txt --ip_range 192.168.0.3-192.168.0.6 --login USER1
```

   The operation will apply to all specified elements where no error occurred.
   ℹ If an error occurs, changes are not rolled back!

6. Enabling services with named profiles:

```
fdpi_ctrl load --service 4 --profile.name blocked --login Test
```

TCP and UDP Protocol Blocking Configuration

The parameter `udp_block` is responsible for blocking the UDP protocol. If the `udp_block` parameter is present in the DPI configuration file `/etc/dpi/fastdpi.conf`, both TCP and UDP will be blocked; if absent, only TCP will be blocked.

To start blocking UDP protocols (e.g., QUIC), add the `udp_block` parameter with a value of 2 or 3 (start blocking after two or three passed packets). These values are set because sometimes a large number of individual packets pass, which are not accounted for in the traffic but can put a heavy load on DPI.

```
udp_block=3
```

Adding the parameter does not require a DPI restart; a simple reload is sufficient:

```
service fastdpi reload
```