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# Service Management

Subscriber management is performed using the utility `fdpi_ctrl`.



We recommend using [Named 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. <code>load</code> — load data 2. <code>del</code> — delete. For <code>--service</code> , the <code>service_id</code> must be specified 3. <code>list</code> — show information for the specified <code>IP_list</code> or all information if the argument <code>all</code> is specified.	In the <code>list</code> and <code>del</code> commands, instead of an IP/LOGIN list, you can specify <code>all</code> , which applies the command to all.
service_id	Numeric ID corresponding to a service from the <a href="#">list</a> .	
IP_list	Values: 1. <code>--file</code> — file with IP list 2. <code>--ip</code> — single IP, format: <code>192.168.0.1</code> 3. <code>--ip_range</code> — IP range (inclusive), format: <code>192.168.0.1-192.168.0.5</code> 4. <code>--cidr</code> — IP with port, format: <code>192.168.0.0/30</code> , <code>5.200.43.0/24~</code> (CIDR range with excluded boundary addresses)	The CIDR range can exclude boundary addresses (gateway and broadcast addresses under classless addressing) by adding the <code>~</code> symbol at the end of the CIDR definition, e.g., <code>--cidr 5.200.43.0/24~</code> .
LOGIN_list	Values: 1. <code>--file</code> — file with login list 2. <code>--login</code> — single login, format: <code>USER1</code> , <code>"FIRST_NAME LAST_NAME"</code> (option to use login with escaped special characters)	<code>"USER1"</code> — example of using login in double quotes <code>'USER2'</code> — 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	<a href="#">Description</a>
2	Advertising	<a href="#">Description</a>
3	Ad blocking	<a href="#">Description</a>
4	Blacklist filtering	<a href="#">Description</a>
5	Whitelist and Captive Portal	<a href="#">Description</a>
6	HTTP redirect notification	<a href="#">Description</a>
7	Caching	<a href="#">Description</a>
8	Passed DDOS protection	<a href="#">Description</a>
9	RADIUS accounting / netflow statistics collection for billing	<a href="#">Description</a>
10	DDOS protection	<a href="#">Description</a>
11	CGNAT and NAT 1:1	<a href="#">Description</a>
12	Traffic recording in PCAP	<a href="#">Description</a>
13	Mini Firewall	<a href="#">Description</a>
14	Traffic recording in PCAP	<a href="#">Description</a>
15	Special subscriber (all traffic goes to cs0, filtering service (4) is not applied to vChannel and general channel)	<a href="#">Description</a>
16	Whitelist and redirection to Captive Portal without internet access	<a href="#">Description</a>
17	Traffic mirroring to a specified VLAN	<a href="#">Description</a>
18	Session-based policing for certain protocols and traffic classification at channel and subscriber levels	<a href="#">Description</a>
19	DNS response substitution, future plans: redirect DNS queries to the provider's DNS server	<a href="#">Description</a>
49	IPv6 traffic blocking	<a href="#">Description</a>
50	Participant in a marketing campaign with notification via HTTP redirect	<a href="#">Description</a>
51	Reserved (internal service)	
254	VRF	<a href="#">Description</a>

## 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.



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
```