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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:<br>1. <code>load</code> — load data<br>2. <code>del</code> — delete. For <code>--service</code> , the <code>service_id</code> must be specified<br>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:<br>1. <code>-file</code> — file with IP list<br>2. <code>-ip</code> — single IP, format: <code>192.168.0.1</code><br>3. <code>-ip_range</code> — IP range (inclusive), format: <code>192.168.0.1-192.168.0.5</code><br>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:<br>1. <code>-file</code> — file with login list<br>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<br><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
```