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3 Management of policing and services

Subscribers' management is handled by `fdpi_ctrl` utility.

The instruction format:

```
fdpi_ctrl command { --service service_identifier | --policing
policing_description_file} [IP_list] [LOGIN_list]
```

Here 'command' is:

```
load : load data
del : remove. You have to specify 'program_identifier' for '--service'. No
need to specify for policing
list : show the information on the specified 'IP_list' or all the
information if the argument is 'all'
```

`service_identifier` - is one of these values or their comma separated list:

```
1 - bonus program
2 - advertising
3 - block advertisements
4 - black list
5 - white list
6 - notifications
7 - caching
8 - DDos protection passed
9 - collect netflow statistics for billing
```

`IP_list` - is a sequence or one of the following options:

```
--file      - a file containing IP list
--ip        - a single IP
--ip_range  - inclusive IP range
--cidr      - CIDR
```

`LOGIN_list` - is a sequence or one subscriber's name value in format:

```
--login USER1
--login "FIRST_NAME LAST_NAME" is the option to indicate login with special
symbols screening
```

IP list or LOGIN can be specified as:

```
192.168.0.1          a single IP
192.168.0.1-192.168.0.5 inclusive IP range
192.168.0.0/30      CIDR
"USER1"             specify LOGIN in quotes
```

```
'USER2' specify LOGIN in single quotes
```

Lines starting from '#' is treated as a comment.

One can specify 'all' instead of IP/LOGIN list in commands list, del, clear. It means to apply the command to all subscribers.

Examples:

To get the policing application list:

```
fdpi_ctrl list all --policing
```

To get the list of subscribers with active service 1:

```
fdpi_ctrl list all --service 1
```

To get the information for specified IP:

```
fdpi_ctrl list --policing --ip 192.168.0.1  
fdpi_ctrl list --service 1 --ip 192.168.0.1
```

To activate service 1:

```
fdpi_ctrl load --service 1 --ip 192.168.0.1  
or  
fdpi_ctrl load --service 1 --login USER1
```

To activate policing policy:

```
fdpi_ctrl load --policing tbf.cfg --ip 192.168.0.1
```

To disable service 1:

```
fdpi_ctrl del --service 1 --ip 192.168.0.1
```

One can specify several options '-file', '-ip', '-ip_range', '-cidr' when specifying IP list:

```
fdpi_ctrl list --service 1 --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
```

This action would be applied to all elements that do not cause any errors.



No undo for changes that were already implemented is made on errors.

Detailed description on policing and services' management one can find in chapters devoted to the respective [options](#).