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First we select the protocols for Captive Portal availability in a separate class, as it is described in [Assignment of priorities](#).



These protocols typically are http/https/dns.

```
http      cs1
https     cs1
dns       cs1
default   cs2
bittorrent cs7
```

Next we create the configuration file `captive_portal.cfg`. It specifies the bandwidth limits in Captive Portal mode for each of 8 classes¹⁾.

```
htb_inbound_root=rate 1mbit
htb_inbound_class0=rate 8bit ceil 8bit
htb_inbound_class1=rate 1mbit ceil 1mbit
htb_inbound_class2=rate 8bit ceil 8bit
htb_inbound_class3=rate 8bit ceil 8bit
htb_inbound_class4=rate 8bit ceil 8bit
htb_inbound_class5=rate 8bit ceil 8bit
htb_inbound_class6=rate 8bit ceil 8bit
htb_inbound_class7=rate 8bit ceil 8bit
htb_root=rate 1mbit
htb_class0=rate 8bit ceil 8bit
htb_class1=rate 1mbit ceil 1mbit
htb_class2=rate 8bit ceil 8bit
htb_class3=rate 8bit ceil 8bit
htb_class4=rate 8bit ceil 8bit
htb_class5=rate 8bit ceil 8bit
htb_class6=rate 8bit ceil 8bit
htb_class7=rate 8bit ceil 8bit
```

- `htb_root` - is the root class. It specifies the total bandwidth. The bandwidth is redistributed within this class
- `rate` - is the lower bandwidth limit
- `ceil` - is the upper bandwidth limit, that can be borrowed from the root class if available

We place a subscriber into Captive Portal when his account runs out of money:

```
fdpi_ctrl load --policing captive_portal.cfg --ip 192.168.0.1
fdpi_ctrl load --service 5 --ip 192.168.0.1
```

Here we unblock the subscriber upon a deposit to his account:

```
fdpi_ctrl load --policing rate_plan1.cfg --ip 192.168.0.1  
fdpi_ctrl del --service 5 --ip 192.168.0.1
```

1)

[More details on bandwidth control](#)