

Содержание

GTP Tunneling Protocol Settings	3
Section "fast-epdg.tunnel.pgw"	3
Section "fast-epdg.tunnel.pgw.gtp"	3
Section "fast-epdg.tunnel.pgw.gtp.gtp-server-name-n"	4
Section "fast-epdg.tunnel.pgw.gtp.gtp-server-name-n.qos"	6
Section "fast-epdg.tunnel.pgw.gtp.gtp-server-name-n.gtp-c"	8
Section "fast-epdg.tunnel.pgw.gtp.gtp-server-name-n.gtp-u"	10

GTP Tunneling Protocol Settings

Section "fast-epdg.tunnel.pgw"

Parameter	Description	Value
gtp {}	GTP protocol settings	

Template:

```
fast-epdg {
  tunnel {
    iface =
    pdn =
    pgw {
      gtp {}
    }
  }
}
```

Example:

```
fast-epdg {
  tunnel {
    iface = epdg
    pdn = ipv4
    pgw {
      gtp {}
    }
  }
}
```

Section "fast-epdg.tunnel.pgw.gtp"

Parameter	Description	Value
mcc	Operator's MCC	XXX
mnc	Operator's MNC	YYY
realm	Served realm	epc.mncYYY.mccXXX.3gppnetwork.org
gtp-server-name-1 {}	GTP server settings #1	
gtp-server-name-2 {}	GTP server settings #2	
gtp-server-name-n {}	GTP server settings #n	

Template:

```
fast-epdg {
  tunnel {
    iface =
    pdn =
```

```

pgw {
    gtp {
        mcc =
        mnc =
        tac =
        cid =
        enbid =
        realm =
        gtp-server-name-1 {}
        gtp-server-name-2 {}
        gtp-server-name-n {}
    }
}

```

Example:

```

fast-epdg {
    tunnel {
        iface = epdg
        pdn = ipv4
        pgw {
            gtp {
                mcc =
                mnc =
                tac =
                cid =
                enbid =
                realm =
                gtp-server-name-1 {}
                gtp-server-name-2 {}
                gtp-server-name-n {}
            }
        }
    }
}

```

Section "fast-epdg.tunnel.pgw.gtp.gtp-server-name-n"

Parameter	Description	Value
apn	Served APN	ims
priority	Server priority	0-100
devname	Tunneling device	[tun][gtp]
devmode	Tunneling mode	[soft][kernel]

Parameter	Description	Value
subnet	APN subnet	IPv4: x.x.x.x/m, where x — a decimal number from 0 to 255, m — the subnet mask, a decimal number from 0 to 32 IPv6: y:y:y:y:y:y:y/n, where y — a hexadecimal number from 0000 to FFFF, n — the subnet mask, a decimal number from 0 to 128
qos {}	Default bearer QoS settings	
gtp-c {}	GTP-C settings	
gtp-u {}	GTP-U settings	

Template:

```

fast-epdg {
  tunnel {
    iface =
    pdn =
    pgw {
      gtp {
        mcc =
        mnc =
        tac =
        cid =
        enbid =
        realm =
        gtp-server-name-1 {
          apn =
          priority =
          devname =
          devmode =
          subnet =
          qos {}
          gtp-c {}
          gtp-u {}
        }
        gtp-server-name-2 {
          apn =
          priority =
          devname =
          devmode =
          subnet =
          qos {}
          gtp-c {}
          gtp-u {}
        }
      }
    }
  }
}

```

Example:

```

fast-epdg {
  tunnel {
    iface = epdg
    pdn = ipv4
    pgw {
      gtp {
        mcc =
        mnc =
        tac =
        cid =
        enbid =
        realm =
        gtp-server-name-1 {
          apn = ims
          priority = 50
          devname = tun0
          devmode =
          subnet = 10.1.0.0/16,2001:10::0/48
          qos {}
          gtp-c {}
          gtp-u {}
        }
        gtp-server-name-2 {
          apn = ims
          priority = 50
          devname = gtp0
          devmode = kernel
          subnet = 10.1.0.0/16,2001:10::0/48
          qos {}
          gtp-c {}
          gtp-u {}
        }
      }
    }
  }
}

```

Section "fast-epdg.tunnel.pgw.gtp.gtp-server-name-n.qos"

Parameter	Description	Value
qci	QCI level	0-9
mbr_ul	Max bitrate uplink	kbits/s
mbr_dl	Max bitrate downlink	kbits/s
gbr_ul	Guaranteed bitrate uplink	kbits/s
gbr_dl	Guaranteed bitrate downlink	kbits/s

Template:

```
fast-epdg {
```

```

tunnel {
  iface =
  pdn =
  pgw {
    gtp {
      mcc =
      mnc =
      tac =
      cid =
      enbid =
      realm =
      gtp-server-name-1 {
        apn =
        priority =
        devname =
        devmode =
        subnet =
        qos {
          qci =
          mbr_ul =
          mbr_dl =
          gbr_ul =
          gbr_dl =
        }
        gtp-c {}
        gtp-u {}
      }
    }
  }
}

```

Example:

```

fast-epdg {
  tunnel {
    iface = epdg
    pdn = ipv4
    pgw {
      gtp {
        mcc =
        mnc =
        tac =
        cid =
        enbid =
        realm =
        gtp-server-name-1 {
          apn = ims
          priority = 50
          devname = tun0
          devmode =

```

```

    subnet = 10.1.0.0/16,2001:10::0/48
    qos {
        qci = 5
        mbr_ul = 128
        mbr_dl = 128
        gbr_ul = 128
        gbr_dl = 128
    }
    gtp-c {}
    gtp-u {}
}
}
}
}
}
}
}
}
}
}
}
}

```

Section "fast-epdg.tunnel.pgw.gtp.gtp-server-name-n.gtp-c"

Parameter	Description	Value
local	GTP-C client address	AAA.BBB.CCC.DDD, 1111.2222.3333.4444.5555.6666.7777.8888
remote	GTP-C server address	AAA.BBB.CCC.DDD, 1111.2222.3333.4444.5555.6666.7777.8888

Template:

```

fast-epdg {
    tunnel {
        iface =
        pdn =
        pgw {
            gtp {
                mcc =
                mnc =
                tac =
                cid =
                enbid =
                realm =
                gtp-server-name-1 {
                    apn =
                    priority =
                    devname =
                    devmode =
                    subnet =
                    qos {
                        qci =
                        mbr_ul =
                        mbr_dl =
                        gbr_ul =
                        gbr_dl =
                    }
                }
            }
            gtp-c {

```



```
        local =
        remote =
    }
    gtp-u {}
}
}
}
}
}
```

Example:

```
fast-epdg {
    tunnel {
        iface = epdg
        pdn = ipv4
        pgw {
            gtp {
                mcc =
                mnc =
                tac =
                cid =
                enbid =
                realm =
                gtp-server-name-1 {
                    apn = ims
                    priority = 50
                    devname = tun0
                    devmode =
                    subnet = 10.1.0.0/16,2001:10::0/48
                    qos {
                        qci = 5
                        mbr_ul = 128
                        mbr_dl = 128
                        gbr_ul = 128
                        gbr_dl = 128
                    }
                    gtp-c {
                        local = 192.168.1.1,2001:1::1
                        remote = 192.168.2.1,2001:2::1
                    }
                }
                gtp-u {}
            }
        }
    }
}
}
```

Section "fast-epdg.tunnel.pgw.gtp.gtp-server-name-n.gtp-u"

Parameter	Description	Value
local	GTP-U client address	AAA.BBB.CCC.DDD, 1111.2222.3333.4444.5555.6666.7777.8888
remote	GTP-U server address	AAA.BBB.CCC.DDD, 1111.2222.3333.4444.5555.6666.7777.8888

Template:

```
fast-epdg {
  tunnel {
    iface =
    pdn =
    pgw {
      gtp {
        mcc =
        mnc =
        tac =
        cid =
        enbid =
        realm =
        gtp-server-name-1 {
          apn =
          priority =
          devname =
          devmode =
          subnet =
          qos {
            qci =
            mbr_ul =
            mbr_dl =
            gbr_ul =
            gbr_dl =
          }
          gtp-c {
            local =
            remote =
          }
          gtp-u {
            local =
            remote =
          }
        }
      }
    }
  }
}
```

Example:

```
fast-epdg {
  tunnel {
    iface = epdg
    pdn = ipv4
    pgw {
      gtp {
        mcc =
        mnc =
        tac =
        cid =
        enbid =
        realm =
        gtp-server-name-1 {
          apn = ims
          priority = 50
          devname = tun0
          devmode =
          subnet = 10.1.0.0/16,2001:10::0/48
          qos {
            qci = 5
            mbr_ul = 128
            mbr_dl = 128
            gbr_ul = 128
            gbr_dl = 128
          }
          gtp-c {
            local = 192.168.1.1,2001:1::1
            remote = 192.168.2.1,2001:2::1
          }
          gtp-u {
            local = 192.168.1.1,2001:1::1
            remote = 192.168.2.1,2001:2::1
          }
        }
      }
    }
  }
}
```