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11 Mobile Networks Support

```
<html>
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```

Stingray SG can detect GTP-C traffic and extract subscriber parameters for the subscriber's IP and login binding from the GTP session creation requests. GTP-C versions 1 and 2 are supported. GTP support is enabled by parameters in fastdpi.conf:

```
# bras enable=1
   # GTP processing mode
   # Values:
   # 0 - (default) GTP processing is disabled
        1 - [bind mode] In this mode, BNG/BRAS processes GTP-C packets of
the session start and end,
            binding the IP-address issued to the subscriber with the login
(IMSI or MSISDN is used as the login).
            At the end of the session, the login-IP connection is broken.
        2 - [auth mode] authorization of GTP sessions is enabled. In this
mode, BNG/BRAS processes GTP-C session start and end packets.
            Upon successful start of the GTP session, BRAS sends an L3
authorization request to PCRF,
            transmitting the subscriber's IP address, IMSI, MSISDN, IMEI and
other parameters.
           At the end of the session, the login-IP connection is broken.
#bras gtp mode=0
```

When the bras_gtp_mode is enabled, it is assumed that mirrored GTP-C traffic between S-GW and P-GW is sent to the SSG: SSG drops all incoming GTP-C packets, when bras_gtp_mode=2 is enabled SSG acts as L3 BNG/BRAS, requesting policing and subscriber services from PCRF.

You should also set the maximum size of active GTP-sessions internal database in fastdpi.conf

```
# Max number of concurrent GTP-sessions
# We recommend setting this parameter 1.5-2 times more than the actual
max number of sessions
# Default value: 10000 sessions, minimum value: 10000
#bras_gtp_session=10000
```

After receiving a request to create a GTP-C session, SSG waits for a packet of successful session creation. Only at this moment, upon receiving a successful response and issuing an IP address to the subscriber, connects the login and IP. The response timeout is set by a parameter in fastdpi.conf:

Max time to wait for a response to a GTP session creation, seconds

```
# Default = 3 seconds
#bras_gtp_pending_timeout=3
```

IMSI or MSISDN can be used as a login, which is set by a parameter in fastdpi.conf:

```
# What is the subscriber's login for GTP:
# 0 - IMSI (by default)
# 1 - MSISDN
#bras_gtp_login=0
```

To detect GTP-U, you have to enable tunnel parsing:

```
# enable the tunnels parsing by dispatchers
check_tunnels=1
  # enable the detection and parsing of GTP-U
detect_gtp_tunnel=1
```

When you enable parsing of GTP-U tunnels, SSG will work with the real IP-address of the subscriber, and not with the IP-address of the tunnel. That means that it becomes possible to apply filtering, services and policing to the GTP-subscriber.

SSG does not terminate GTP-U tunnels.

The internal database of GTP-sessions can be controlled with a special set of CLI-commands.