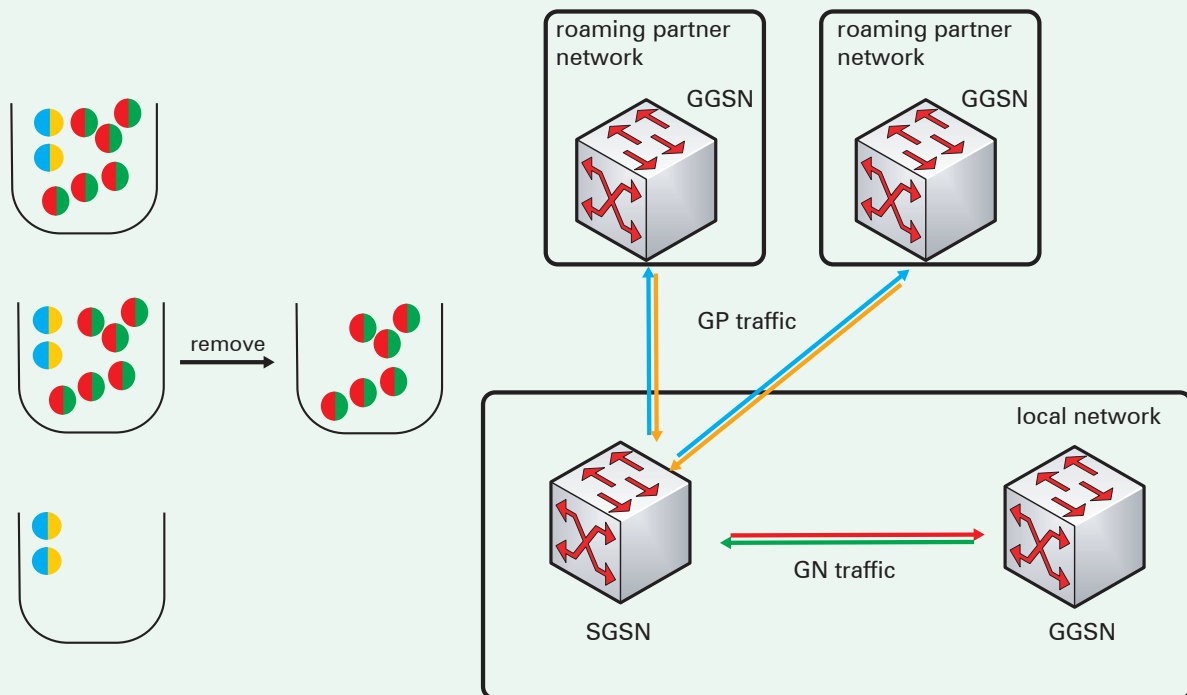


APPLICATION NOTES

GN AND GP FILTERING AND SEPARATION

July 2017

GN AND GP FILTERING AND SEPARATION



We know the IP ranges from the local SGSN and GGSN (Example SGSN 10.10.10.10 | GGSN 20.20.20.20).

How to separate GN from GP?

The difference between GN and GP is that GN has only known IP addresses and GP has only one known IP address.

Source (roaming out) destination (roaming in)

Solution:

First step is to do filters with the known SGSN GGSN relations

Priority 40000

SRC=10.10.10.10/24

DST=20.20.20.20/24 to output 1 (GN)

Priority 40000

SRC=20.20.20.20/24

DST=10.10.10.10/24 to output 1 (GN)

Note: Do all possible connections 100 – 140 rules

The second step is as follows:

Priority 30000

SRC=10.10.10.10/24 to output 2 (GP roaming out)

Priority 30000

SRC=20.20.20.20/24 to output 2 (GP roaming out)

Priority 30000

DST=10.10.10.10/24 to output 2 (GP roaming in)

Priority 30000

DST=20.20.20.20/24 to output 2 (GP roaming in)

The rules are using the known IP ranges and a wildcard. It works because the rules are stacked (Controlled stacked).

The GN traffic is already gone and the rest is GP.