Mobile

Congestion Handling during OCS Failure

Table 1: Summary Data

Applicable Product(s) or Functional Area	CPS
Applicable Platform(s)	Not Applicable
Default Setting	Disabled – Configuration Required
Related Changes in This Release	Not Applicable
Related Documentation	Not Applicable

Table 2: Revision History

Revision Details	Release
First Introduced.	23.2.0

Feature Description

CPS supports the congestion handling by introducing a **Re-initiation Queue** during OCS failure in PCRF.

When the OCS is unresponsive, all the messages towards that OCS have failure result code. These messages are re-initiated and put into the **Re-initiation Queue**. This leaves an open space in the existing queue and used for processing the messages towards other OCS. By default, the feature is disabled.

The following configuration in the `/etc/broadhop/qns.conf` file enables or disables the feature:

```
-Denable.udc.sy.reinit.queue=true/false
```

For more information, see the *CPS UDC Administration Guide* and *Statistics/KPI Additions or Changes* topic in the *CPS Release Change Reference*.

Generating Valid MAC Address to Boot the VM

Behavior Change Summary and Revision History

Table 3: Summary Data

Applicable Product(s) or Functional Area	CPS
Applicable Platform(s)	Not Applicable
Feature Default Setting	Enabled – Always-on
Related Changes in this Release	Not Applicable
Related Documentation	Not Applicable

Table 4: Revision History

Revision Details	Release
First Introduced.	23.2.0

Behavior Change

Run the genmac.py script to assign the MAC address to the VMs. If the VMs are not rebooting, it is because of the invalid MAC address. Updating the fourth octet range from 7F to 3F generates a valid MAC address for VMs.

Previous Behavior:

The starting range of fourth octet in the MAC address was 7F.

```
Old Range : 00:50:56:00:00:00 - 00:50:56:7F:FF:FF
```

New Behavior:

The starting range of fourth octet in the MAC address is 3F.

```
New Range : 00:50:56:00:00:00 - 00:50:56:3F:FF:FF
```

Customer Impact:

The VMs will not boot when you use the old genmac.py script. Use the correct range to generate the valid MAC address.

Support for VoLTE-IR

Applicable Product(s) or Functional Area	CPS
Applicable Platform(s)	Not Applicable

Default Setting	Enabled – Always On
Related Changes in This Release	Not Applicable
Related Documentation	Not Applicable

Table 5: Revision History

Revision Details	Release
First Introduced.	23.2.0

Feature Description

CPS supports the VoLTE for international roaming (IR) by sending the 3GPP-SGSN-MCC-MNC AVP in the Rx AAA message to P-CSCF and subscribe the **PLMN_CHANGE** event trigger.

The following statistics verify the **PLMN_CHANGE** in Gx and Rx interfaces:

- **Gx CCR-I with 3GPP-SGSN-MCC-MNC value**
- **Rx AAR with PLMN_CHANGE**
- **Rx AAA with 3GPP-SGSN-MCC-MNC value**
- **Gx RAR with PLMN_CHANGE subscribe to event trigger**
- **Gx CCR-U with updated 3GPP-SGSN-MCC-MNC value**
- **Rx RAR with updated 3GPP-SGSN-MCC-MNC value**

For more information, see *Rx Services* chapter in *CPS Mobile Configuration Guide*.