DHCP, RADIUS Accounting, and PMIPv6 based Session Triggers on GTPv2 over S2a Interface

The following topics are discussed:

Feature Description

This feature enables support for GTPv2 protocol on the S2a interface for DHCP, RADIUS Accounting, and PMIPv6-based session triggers for non-UICC devices.

For session triggers using the GTPv2 protocol over the S2a interface, the IMSI field in the Create-Session-Request (CSR) message will contain the decimal equivalent of the MAC address of the UE. The UE's MN-NAI value (from the AAA Server) in the PAP container within the PCO IE in the CSR message is sent to the local P-GW, and to the PCRF server over the Gx interface. SaMOG can be configured to send the MN-NAI value in the PAP-PCO IE using the **samog-s2a-gtpv2 send pco pap value mn-nai** command under the Call Control Profile Configuration Mode. The local P-GW can be configured to send the MN-NAI value in the Subscription-ID AVP with MSISDN in CCR-I or CCR-U towards PCRF on the Gx interface using the **subscription-id service-type samog-epdg nai** command under the Policy Control Configuration Mode.

Standards Compliance

This feature complies with the following standards:

- **3GPP TS 23.402** - "3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Architecture enhancements for non-3GPP accesses"

- **3GPP TS 29.274** - "3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; 3GPP Evolved Packet System (EPS); Evolved General Packet Radio Service (GPRS) Tunnelling Protocol for Control plane (GTPv2-C); Stage 3"

Configuring Session Triggers on GTPv2 Over S2a Interface

Enabling MN-NAI in PCO-PAP

Use the following configuration to enable SaMOG to forward the UE's MN-NAI value in the PAP container within the PCO IE in the CSR message to P-GW:

```
configure
    call-control-profile profile_name
        samog-s2a-gtpv2 send pco pap value mn-nai
        end
```

Notes:

- If previously configured, use the **no samog-s2a-gtpv2 send pco pap value mn-nai** command to remove and restore the configuration to its default value.

- **Default**: Disabled

Monitoring and Troubleshooting

Show Command(s) and/or Outputs

show call-control-profile full

The following fields are available to the output of the **show call-control-profile full name** *profile_name* command in support of this feature:

```
Samog-S2a-GTPv2:
    Sending PCO IE with PAP container      : Enabled with MN-NAI value
```

Table 1: *show call-control-profile full* Command Output Descriptions

Field	Description
SaMOG-S2a-GTPv2	
Sending PCO IE with PAP container	Indicates whether the configuration to forward the MN-NAI value in the PAP container within the PCO IE is enabled or disabled. Options: • Enabled with MN-NAI value • Disabled