Gx AVP for UP Identification

Revision History

Revision Details	Release
First introduced.	21.27

Feature Description

When an overlapping IP pool is used, the Packet Data Network (PDN) IP address and the UP function ID or identity/identification are both required to uniquely identify a session at the Policy and Charging Rules Function (PCRF). The information about the UP serving the UE is received by the PCRF from the CP. This information allows PCRF to construct a new master key based on the details collected. The PCRF is able to retrieve the identification of UP serving UE and this information is sent over Gx using the diameter dynamic dictionary configuration.

During the Packet Data Network (PDN) session establishment, the System Architecture Evolution Gateway-Control Plane (SAEGW-C) is allowed to propagate the identification of UP through the Gx interface. This new AVP is then included by SAEGW-C in the Gx CCR-I and the corresponding Gx CCR-x messages wherever applicable.

Gx Attribute Value Pair (AVP)

The **UP-IP-Address** AVP (with code number 132099) is an address type and containing the UP IP address. IP address type includes both the IPv4 or IPv6 addresses. The AVP is supported in all relevant Gx CCR-x messages.

Following are the AVP details:

- AVP Name: **UP-IP-Address**

- AVP Code: 132099
- Vendor Id: 9 (Cisco)
- Mandatory Flag: Not required
- Vendor Specific Flag: Required
- AVP Type: Address
- Parent AVP: N/A
- This AVP is encoded in the CCR-I message from SAEGW-C toward PCRF.

Note The address reported in **UP-IP-Address** AVP is the UP address in **show subscribers saegw-only full all**. This is the **sx-service** associated with the **user-plane-service** in UP.