LCN 3GPP Diameter Routing Agent

With Diameter emerging as the key control protocol in 3G and LTE networks, Diameter Routing Agent becomes a critical part of the network infrastructure. LCN Diameter Routing Agent is a cost-effective and feature rich solution available to operators.

LCN

Role of DRA in Modern Mobile Networks

LTE has emerged as the unifying architecture towards which both GSM and CDMA networks have started evolving. Greenfield LTE deployments have also accelerated in the last few months.
LTE's Evolved Packet Core uses Diameter as the key control protocol. Policy control, billing and IP Multimedia Subsystem (IMS) – all are extensively based on Diameter based interfaces defined by 3GPP. In the next 4-5 years, many mobile networks are expected to handle millions of Diameter messages every day. DRAs, sitting in the path of these messages and intelligently routing them, hold the key to build a scalable, reliable network.

LCN Compass DRA

LCN Compass Diameter Routing Agent provides the following key features:

- Load balancing and high-availability support.
- Configurable PCRF selection based on user's IP Address, identity or APN.
- Ability to forward related sessions on different interfaces like Gx,Gxx and Rx to the same PCRF.
- Dynamic peer and routing table changes
- Full RFC 3588 support.
- Along with LCN Compass APIs for different 3GPP interfaces, provides a complete control protocol environment for billing, IMS and policy control.

Deployment Scenario

The following diagram shows the typical deployment scenario for DRA. Each client will be configured to send requests to the DRA, which in turn will forward them to the most appropriate server. The requests may be over Gx, Gxx, Rx, Ro, Rf or any other 3GPP interfaces.
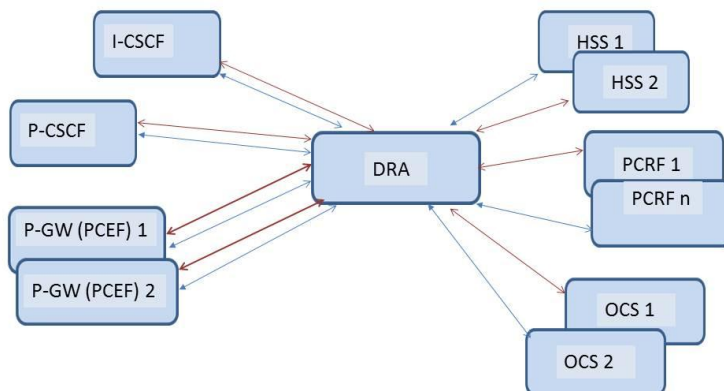
Diameter Routing Agent (DRA) Deployment

Figure 1 DRA routing requests in a load-balanced configuration

Operator Advantages

- Scalable and reliable network, with DRA's load balancing and HA features.

- Simplified administration. Clients don't see the servers directly, topology changes are localized.
- Fully IETF and 3GPP compliant, interoperable with leading vendor products.

Contact

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