LCN Compass IMS Diameter Interfaces

All-IP LTE networks are being deployed in increasing numbers. VoLTE based on IP Multimedia Subsystem (IMS) is emerging as the preferred technology for voice calls. Finally, IMS solutions are about to get deployed widely.

LCN offers pre-built standard interfaces to help equipment vendors and solution developers quickly develop standards-compliant IMS components like CSCF, Application Servers and HSS .

Interfaces

The following IMS specific interfaces are available now.

- Cx – The interface between I-CSCF/S-CSCF and HSS (TS 29.228/29.229)
- Sh – Between Application Server (AS) and HSS (TS 29.328/29.329)

These, along with the Billing interfaces (Rf, Ro) and Policy Control interface Rx, offer the complete set of Diameter interfaces needed to build IMS functionality.
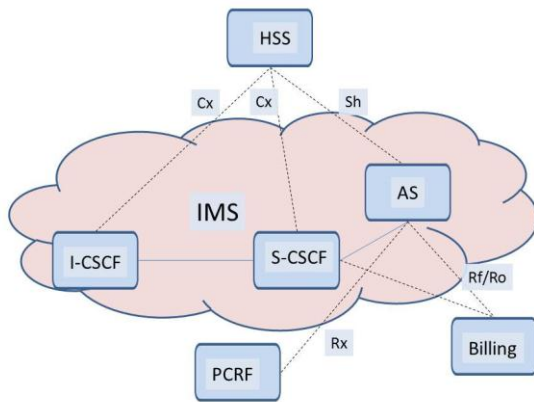
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Figure 1 IMS Diameter Interfaces from LCN

Product Features

- Simple APIs hiding protocol details and complexity
- Customizable call-back mechanism
- Server and client side implementation
- Thread safety for scalable application development
- Professional services for any customization

Advantages

Compass family of products offers standard interfaces as building blocks to OEMs building 3GPP functional elements. These interfaces are available as simple C-callable APIs. These have been built over LCN's standard compliant diameter implementation. With these APIs, OEMs can focus on building their core functionality. Advantages are,

- ✓ Reduced complexity of the development project
- ✓ Reduced time-to-market
- ✓ Considerable cost savings
- ✓ Reduced interoperability issues with other products
- ✓ Reduced integration efforts

Specifications and Standards Compliance

RFC 3588, Diameter Base Protocol

RFC 3539, AAA Transport Profile

3GPP TS 29.228 Rel 10, IMS Cx and Dx Interfaces

3GPP TS 29.229 Rel 10, Cx and Dx Interfaces based on the Diameter Protocol

3GPP TS 29.328 Rel 10, IMS Sh Interface

3GPP TS 29.329 Rel 10, Sh Interface based on the Diameter protocol

Transport : TCP and SCTP

Protocol: IPv4 and IPv6

Contact

Please write to us at info@lcnpl.com for more information.

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