



Pre-packaged frameworks substantially reduces the cost & complexity of SGW/PGW development

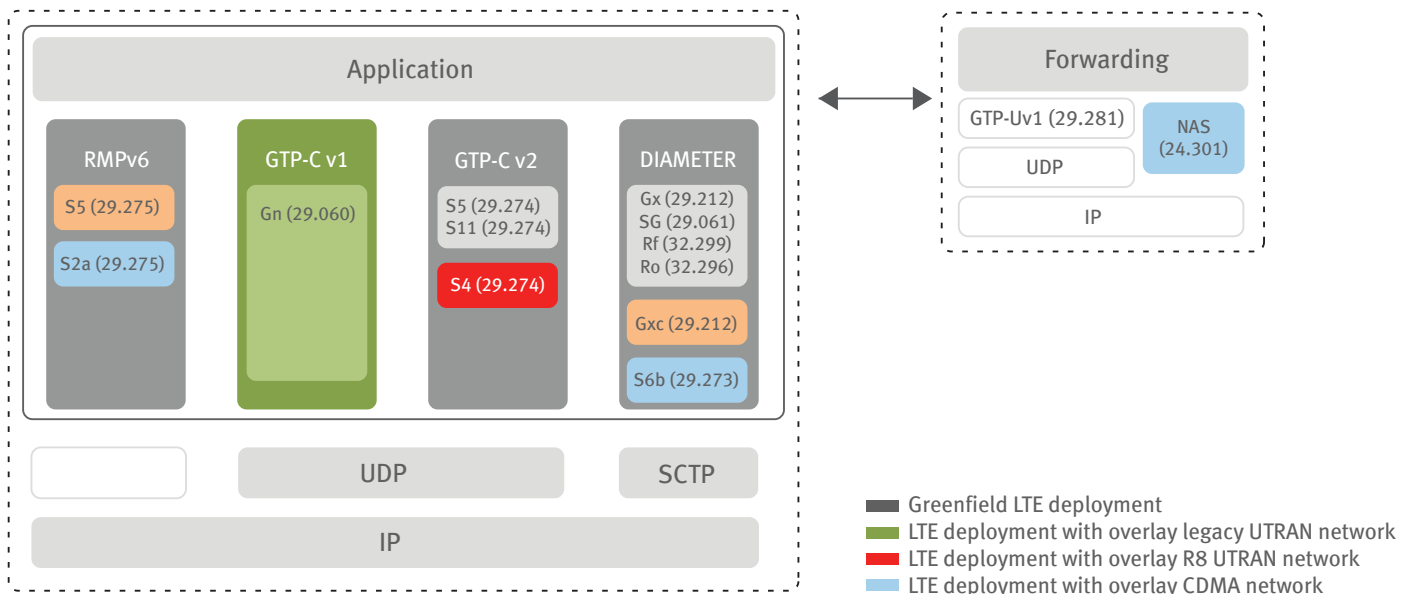
LTE Serving Gateway & Packet Data Network Gateway Control Plane Framework

Overview of the Product

Aricent offers a pre-integrated and pre-optimized Serving Gateway and Packet Data Network Gateway (SGW/PGW) Control Plane Framework enabling customers to build fully functional high capacity SGW/PGW Gateway solutions. It offers a compelling time to market advantage, in addition to resolving technical challenges related to scalability, capacity and performance. The framework can work for a variety of deployment scenarios and can scale to support up to 1 million subscribers. The framework enables differentiation by allowing customers to plug in their secret sauce “data planes” and add specialized middleware for high availability and management.

Product Architecture

Aricent’s SGW/PGW framework includes both control plane and user plane modules for the Serving Gateways as well as Packet Data Network Gateways. The modules in this framework include support for native LTE operation as well as for interworking with EVDO/1xRTT and legacy 3GPP networks. The critical components of this framework from a signaling plane perspective include support for proxy MIP, GTP-Cv2 for LTE operation, GTPC-v1 for interworking with legacy networks, and DIAMETER-based AAA services. On the data plane, the framework supports both GTP-Uv1 for 3GPP-based networks and GRE for CDMA-based networks.



Interfaces Supported

- S11
- Transparent SGI
- Non-transparent SGI
- S5
- Gn
- Gx
- Gy/Ro
- Gz/Rf
- S4

Protocol Conformance

- **3GPP TS 29.274** – 3GPP Evolved Packet System (EPS); Evolved General Packet Radio Service (GPRS) Tunneling Protocol for Control plane (GTPv2-C)
- **3GPP TS 29.273** – Evolved Packet System (EPS); 3GPP EPS AAA interfaces
- **3GPP TS 29.212** – Policy and charging control over Gx reference point
- **3GPP TS 29.281** – General Packet Radio System (GPRS) Tunneling Protocol User Plane (GTPv1-U)
- **3GPP TS 32.299** – Telecommunication management; Charging management; Diameter charging applications
- **3GPP TS 32.296** – Telecommunication management; Charging management; Online Charging System (OCS)- Applications and interfaces
- **3GPP TS 29.061** – Inter-working between PLMN supporting packet based services and packet data network

Product Features and Benefits

The salient features supported by Aricent's MME framework include:

- **Scalability** – Up to 1 million subscribers can be supported
- **Sample Plug-ins** – Sample lawful interception client and management interfaces included with the solution
- **Platform Services** – Open interfaces via C APIs for integration with platform services
- **Charging** – Support for online and offline charging
- **QoS Support** – Support for both Static QoS and Dynamic QoS (PCC and UE initiated)

- **Bearer Support** – Default and dedicated bearers supported
- **SGi Interface Support** – Based on local DHCP, RADIUS, and DIAMETER
- **External Interfaces Supported** – S11, Transparent SGI, Non-transparent SGI, S5, Gn, Gx, Gy/Ro, Gz/Rf, S4, and datapath interfaces

Customer Testimonial

“Aricent's deep domain knowledge and proven track record in delivering telecommunications software and services make them a clear choice for a development partner in LTE. Application Ready Platform for LTE EPC elements based on a combination of Aricent's LTE framework and RadiSys' industry leading ATCA platforms & middleware is an excellent way for telecom equipment manufacturers to dramatically reduce time-to-market in delivering cutting edge solutions to the market.”

- Venkataraman Prasannan, Senior Director of ATCA at RadiSys

Deliverables

- Binary Code
- User Manual
- Integration Support
- On demand Product Support

CORPORATE OFFICE

700 Hansen Way
 Palo Alto, CA 94304-1388 USA
 Phone +1 650 391 1088
 www.aricent.com



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