

# Radiator

## RADIATOR POLICY AND CHARGING PACK UNIFIED POLICY AND CHARGING ACROSS YOUR NETWORK

*Radiator Policy and Charging Pack extends Radiator AAA server by allowing direct connections to your 3GPP infrastructure through Diameter interfaces – a protocol commonly used in telecommunication systems.*

Radiator Policy and Charging Pack includes support for the different policy and charging related interfaces and implementations specified by 3GPP. The existing authentication, authorisation, and accounting features in Radiator are available for Diameter- RADIUS integration. Examples of use include Wi-Fi offloading, integrating Diameter online and offline charging with RADIUS infrastructure, and RADIUS accounting with Diameter online and offline charging.

### Word from our customer

We use Radiator Policy and Charging Pack for our data and SMS real-time charging (using Gy Diameter protocol). It sits between our core network elements (SMSC/GGSN) and our online charging system. All our data and SMS traffic (national and roaming) is controlled using this flow and Radiator Policy and Charging Pack. In addition, we use the control function (Gx) of Radiator Policy and Charging Pack to apply throttling on the data flow for roaming.

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**Devops Manager, IT, Salt Mobile**

### SUPPORT AND PRICING

*All Radiator products, including Radiator Policy and Charging Pack, are available directly from Radiator Software or from our reseller network. Please see [www.radiatorsoftware.com](http://www.radiatorsoftware.com) for details.*

Our flexible licensing model is designed to suit various customer needs so you will know what you are paying for.

Global support is provided by our own engineers with extensive experience in software and telecommunications engineering. Local consultation and support services are available both from Radiator Software and our partner network.

If you are interested in integrating Radiator SIM Pack into your devices, platforms, or other products, please contact us for licensing information at [sales@radiatorsoftware.com](mailto:sales@radiatorsoftware.com)

**RADIATOR POLICY AND CHARGING PACK • UNIFIES POLICY AND CHARGING IN YOUR NETWORK**

## TECHNICAL DETAILS

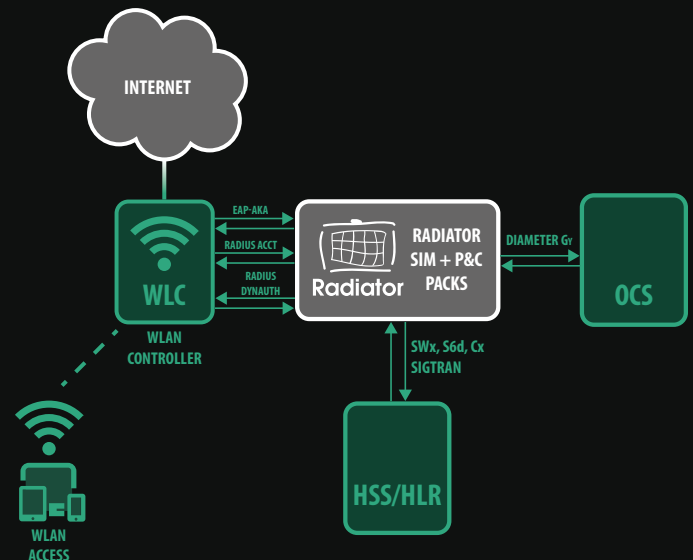
- Extensible PCRF implementation for Gx
- Extensible PCEF implementation for Gx-RADIUS integration
- PCEF usage monitoring supports prepaid and postpaid charging with RADIUS accounting and prepaid charging with WiMAX-PPAQ
- Extensible OCS for Gy
- 3GPP Diameter Gx interface for both server and client side
- Time-and-octet-based usage monitoring for Gx – supports access network level (e.g. LTE or WLAN) quota
- 3GPP Diameter Gy interface for both server and client side

- Extensible Gy client-side implementation for Gy-RADIUS integration
- 3GPP Diameter Gz interface for both server and client side
- Extensible OFCS for Gz
- Extensible Gz client-side implementation for Gz-RADIUS integration
- IPv4 and IPv6 support
- TCP and SCTP for both IPv4 and IPv6
- Full source code supplied

## USE CASE HIGHLIGHT

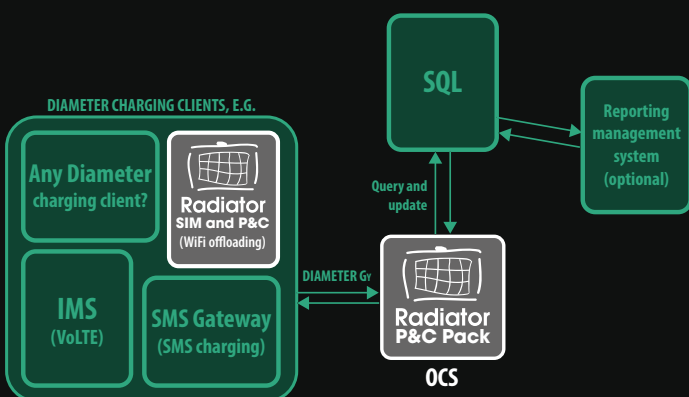
### RADIATOR SIM + P&C WI-FI OFFLOADING WITH QUOTAS

- Radiator is configured as PCRF with SQL backend.
- Integration with WLC over RADIUS, HSS and HLR over Diameter and SIGTRAN and OCS over Gy
- Role of Radiator P&C Pack: WiFi offloading functionality, set up as PCEF enforcing prepaid quota.
- Allows Wi-Fi offloading with prepaid quota.
- Quota can be time or volume based.
- P&C Pack can be used separately from SIM Pack as PCEF with existing SIM-based authentication solution.



## USE CASE HIGHLIGHT

### RADIATOR POLICY AND CHARGING PACK AS STANDALONE OCS



- Radiator is configured as OCS with SQL backend, integrated with Diameter charging clients via Diameter Gy interface.
- Role of Radiator P&C Pack: OCS with conversion between RADIUS accounting to Diameter credit control.
- This deployment enables online charging of subscribers
- prepaid quota for mobile data, Wi-Fi offloading, VoLTE, SMS
- Quota can be same or separate for different connections
- Can be combined with Radiator SIM Pack for Wi-Fi offloading functionality with prepaid quota.