Radiator

Data sheet
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Radiator SIM Pack

Radiator SIM Pack is the key component for seamless data and voice roaming between mobile and Wi-Fi networks with SIM authentication. Radiator SIM Pack provides all the functions required for 3GPP AAA Server. Radiator SIM Pack provides seamless authentication with EAP-AKA standard. AKA is the standard for authenticating wireless LAN access with mobile phone SIM cards and the existing world-wide LTE mobile telephone authentication network. The use cases for SIM based Wi-Fi authentication include Wi-Fi offloading, Wi-Fi calling (VoWiFi) and In-Flight Connectivity. Radiator SIM Pack also provides 3GPP authentication for Entitlement Servers.

Features

- Full 3GPP AAA Server functionality for VoWiFi and VoLTE
- 3GPP AAA server SWm, S6b, SWa Diameter interfaces
- Standalone support for all SIM-based (EAP-SIM, EAP-AKA, EAP-AKA') authentication protocols
- IMSI encryption for EAP-SIM, EAP-AKA, EAP-AKA' and 3GPP AAA Server as defined by WBA's IMSI Privacy Protection for Wi-Fi – Technical Specification
- Wi-Fi offload authentication with Diameter SWx, Wx, Cx, S6a/S6d
- MSISDN and profile retrieval with SWx and S6a/S6d location update
- M3UA/SIGTRAN interface for MAP based authentication
- MSISDN and profile retrieval with MAP location update
- Support for converting AKA vectors to SIM triplet for lower HSS licensing costs and greater configuration flexibility
- Supports MAP/SS7 gateways for connecting to legacy AuC/HLR servers over MAP, SIGTRAN and other protocols
- Full RADIUS accounting support
- IPv4 and IPv6 support
- TCP and SCTP for both IPv4 and IPv6
- Advanced Radiator Diameter server software
- Diameter relay application
- Equipment Identity Register (EIR) support for 3GPP AAA server, including generic, client and test server support
- Includes all features of Radiator AAA Server Software

Interoperability

- Interoperable with any device that uses RADIUS, TACACS+ or Diameter
- Offers wide range of vendor-specific extensions
- Proven compatibility with major HSS and HLR vendors, including Ericsson, Huawei, Nokia and ZTE
- Multiple Diameter and SIGTRAN peerings supported for HA and load-balancing

Licensing and expert services

- Flexible licensing options ranging from perpetual licences to subscriber-based and flat rate licensing. Licences include the first year access to new releases and patches (renewal annually)
- Email and telephone support
- Remote and onsite expert services for configuration, integration, deployment, training and feature requests

Supported platforms

- Runs on containers, virtual and physical servers
- Memory, CPU and disk space requirements depend on the use case and configuration.

For supported operating systems, see radiatorsoftware.com/supported-platforms

Additional modules

Radiator SIM Pack can be combined with our other ISP products:

- Radiator Policy and Charging Pack (PCRF, OCS)
- Radiator GBA/BSF Pack (mobile services authentication)
- Radiator Core (ISP RADIUS)