Radiator AAA Server Software

Radiator is the leading solution for authentication, authorisation, and accounting (AAA) which allows you to control access to your wired and wireless networks comprehensively and efficiently. Thousands of companies and organisations around the world use Radiator for their AAA needs. Radiator provides RADIUS, RadSec, Diameter, and TACACS+ AAA interfaces with back-ends ranging from simple files to a carrier-grade 3GPP Diameter infrastructure.

Features

• Fully featured RADIUS and TACACS+ support
• Acts as a Diameter to RADIUS (and RADIUS to Diameter) gateway for authentication and accounting
• TLS support, including TLS 1.3 for RadSec and EAP-TLS
• RADIUS over TLS (RadSec)
• Supports IPv4, IPv6, UDP, TCP, SCTP
• Easy modification to suit your special requirements: full source code and extension API
• Support for standard tools like SNMP to monitor your server
• Extensible with wide range of logging solutions (JSON, syslog, SQL, Elasticsearch, Splunk, etc.)
• Support for 802.1X authentication
• Support for a wide range of EAP authentication methods including MD5, One-Time-Password (OTP), Generic Token Card (GTC), LEAP, FAST, TLS, TTLS (including PAP, CHAP, MSCHAPV1 and MSCHAPV2), PEAP and PWD
• Supports a wide range of multifactor authentication solutions (Microsoft/Google Authenticator and other TOTP compatible clients, Duo Security, RSA Token, YubiKey, DigiPass)
• Database support: SQL (MySQL, MariaDB, PostgreSQL, Oracle etc.), LDAP (Active Directory, OpenLDAP, etc.), REST
• Support for multiple read/write back-ends
• Address allocation from SQL, DHCP, etc.
• Supports Active Directory integration both in Windows and Linux/Unix
• Roaming and proxying support (eduroam, govroam, OpenRoaming, etc.)
• Comprehensive IETF RFC support. Full list available in Radiator documentation
• Comprehensive and extendable RADIUS dictionary with ready support for multiple vendor-specific attributes

Interoperability

• Vendor-neutral and interoperable with any device that uses RADIUS, TACACS+ or Diameter
• Adapts and connects to customer infrastructure, devices and services supporting multi-vendor environments
• Can combine information from multiple sources for an AAA response
• Support for vendor-specific interfaces such as MICROS-Fidelio Opera Property Management System and SIP2

Supported Platforms and Minimum System Requirements

• Unix, Linux, RHEL 8/9 and its derivatives, Ubuntu LTS (20/22/24), Debian 11/12, SUSE, Solaris 10/11, Windows 10/11, Windows Server 2019/2022, macOS, VMS
• Runs on containers, virtual and physical servers
• Memory, CPU and disk space requirements depend on the use case and configuration.

Support and licensing

• 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, upgrades, migrations, design and feature requests
• Training

Additional Modules

Radiator AAA Server Software can be combined with our carrier products:
• Radiator SIM Pack (VoWiFi, SIM Authentication)
• Radiator Policy and Charging Pack (PCRF, OCS)
• Radiator GBA/BSF Pack (mobile services authentication)
• Radiator VNF Flex (virtualisation & configuration management)