Radiator

RADIATOR AAA SERVER SOFTWARE
ALL-IN-ONE RADIUS, RADSEC & TACACS+

Radiator™ is reputably the Swiss Army knife of AAA servers. It is the leading solution for authentication, authorisation, and accounting (AAA). Radiator allows you to control access to your wired and wireless networks comprehensively and efficiently. Thousands of companies and organisations use Radiator.

Radiator provides RADIUS, Diameter, and TACACS+ AAA interfaces with backends ranging from simple files to a carrier-grade 3GPP Diameter infrastructure. It supports a wide range of EAP authentication methods, including EAP-MD5, EAP-TLS, EAP-TTLS, and EAP-PEAP.

SECURE
Radiator is the only commercial AAA server delivered with full source code. You can audit, diagnose, and extend the source code yourself.
Radiator is a well-established and trusted solution. Operators, carriers, large enterprises, and organisations – including many security-oriented ones – use it globally as a mission-critical AAA component.

EXTENDABLE
Radiator is modular by design. You can easily expand it to support new authentication methods and sources, ensuring that it stays up to date with the latest advancements in authentication, authorisation, and accounting.

Radiator is highly configurable. It comes with a comprehensive collection of ready-to-use configuration examples. If you have any special requirements, you can even write your own modules – quickly and without compromising performance.

INTEROPERABLE
Radiator adjusts to your infrastructure. There is no need to make any changes to the existing infrastructure, which saves both time and money.

Radiator is completely vendor independent. It works smoothly with devices and services from different vendors and incorporates data from multiple sources. This makes Radiator an excellent choice for:
• supporting both existing and future requirements in evolving multi-vendor networks
• extending existing networks according to regulatory requirements
• merging network infrastructures after mergers and acquisitions

RADIATOR SUPPORT
We bring technical support to a whole new level. Our experts not only solve any problems you may have, but help you to design, implement, deploy, and convert complete AAA infrastructures. We can also help you to develop and configure Radiator components so that they will complement your existing infrastructure.

Global support is provided by our own engineers with extensive experience in software and telecommunications engineering. Local consultation and support services are available from agents in over 50 countries around the world.

Feel free to contact us with any questions you may have. We are more than happy to help!

TECHNICAL DETAILS

- Fully featured RADIUS and TACACS+ support
- 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, 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 and extendable RADIUS dictionary with ready support for multiple vendor-specific attributes
- Vendor-neutral and interoperable with any device that uses
- RADIUS, TACACS+ or Diameter
- 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

HIGHLIGHT

USE CASE:
EMPLOYEE NETWORK AUTHENTICATION

One of the basic internal use cases for RADIUS authentication is employee LAN authentication, meaning employee's authentication to both company's internal network and the world wide web. There are multiple methods to achieving secure network connection for your employees.

At its simplest, the employee logs in with username-password combination. The network access server sends request to Radiator which checks credentials against an SQL database. Matching credentials grant access, wrong credentials are rejected. This solution requires local IT admin to provision WiFi credentials and configure the first connection to only accept connections from specific certificate.

This above diagram showcases some of the many pieces Radiator can integrate with in this use case, for example Active Directory. When using AD the user credentials are checked against AD credentials. This model does not require manual configuration of first connection. The solution can also be complimented with second autentication factor with TOTP. All this can be implemented with just Radiator and your database of choice.
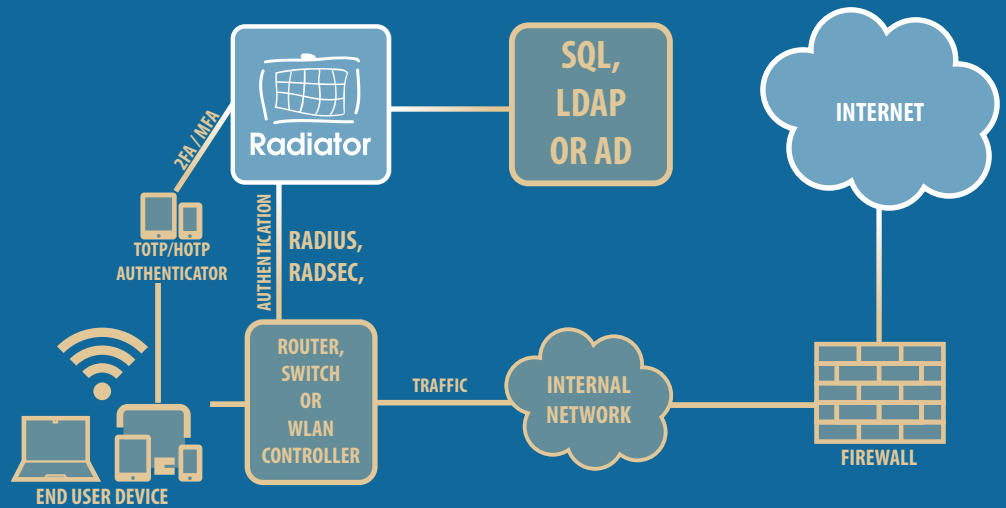
SUPPORT AND PRICING

All Radiator products are available directly from Radiator Software or from our reseller network. Please see 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 into your devices, platforms, or other products, please contact us for licensing information at *sales@radiatorsoftware.com*