



Radiator Auth.Fi



Enterprise Wi-Fi Authentication as a Service

Radiator Auth.Fi

Radiator Auth.Fi is a RADIUS based Wi-Fi authentication cloud service for authenticating network users and guests. It provides a RADIUS based user authentication as a service mainly for Wi-Fi, but can be used also for wired 802.1X or even RADIUS based VPN authentication.

Entry requirement is a RADIUS capable Wi-Fi controller and access points – no new hardware is needed for enterprise-level WPA2/WPA3 security for your company Wi-Fi. Radiator Auth.Fi includes RADIUS servers, but can also be integrated with customer RADIUS servers for additional control.

Subscription based service is delivered from the Google Cloud. Regional service endpoints are added based on demand.

Radiator Auth.Fi is designed to work with RADIUS roaming federations such as eduroam and govroam. Optional add-ons include client certificate authentication and self-service guest access solution and roaming federation integrations.



Radiator Auth.Fi for...



Employees, contractors, regular users of organisation Wi-Fi



Organisation's guest Wi-Fi users



Roaming users

Employees, contractors, regular users ...

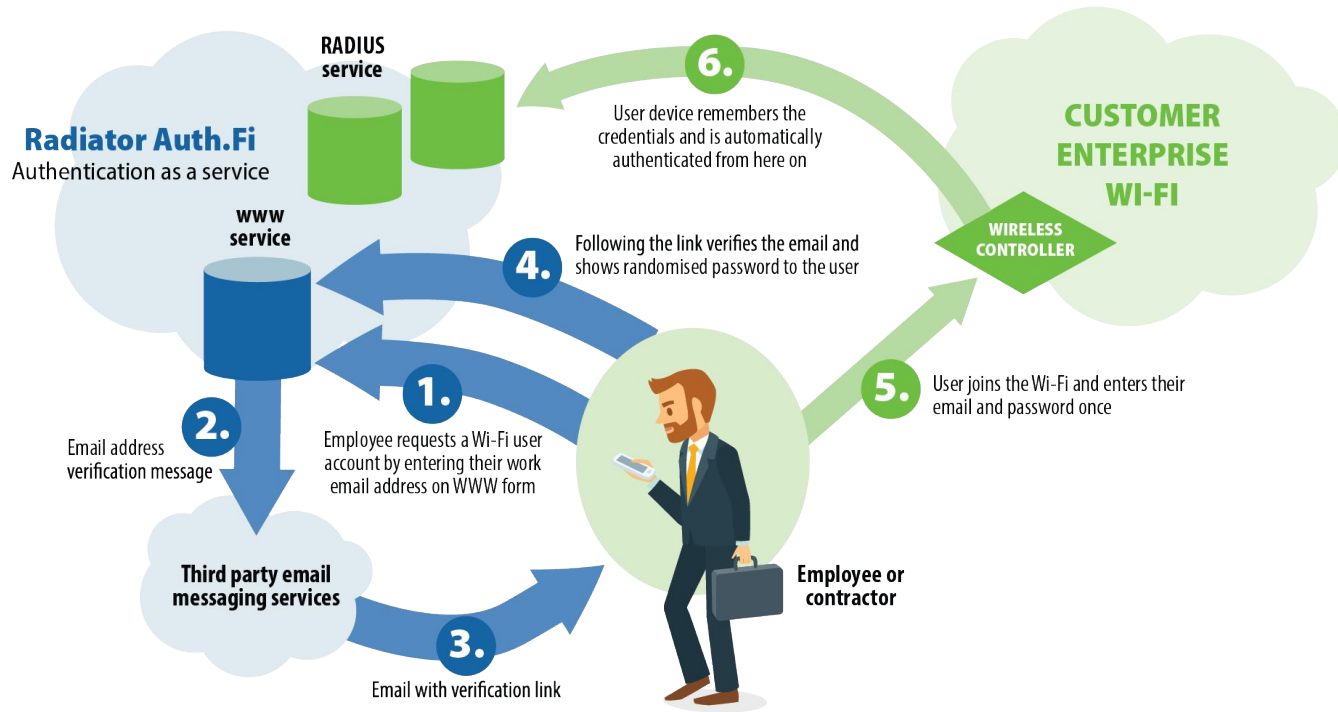
Radiator Auth.fi provides an easy way for employees or subcontractors to get self-service network access credentials for WPA2/WPA3 Enterprise secured network.

The only thing employees or subcontractors need is their email address within the organisation (e.g. firstname.surname@example.com or ext-subcontractor.name@example.com). The email address is used as the Wi-Fi network user name. The service sends the users an email with a confirmation link. By clicking the link users verify the user name registration and get the password.

The password is randomised and cannot be changed by the user. The password is now securely separated from the more important company passwords and if leaked can be used only for gaining access to the Wi-Fi network. The user must confirm the use of user account and password periodically by following a link received in the email. This verifies that the user is still within organisation and able to access email, otherwise the user access to network ends.



Secured WPA2/WPA3 Enterprise Wi-Fi access



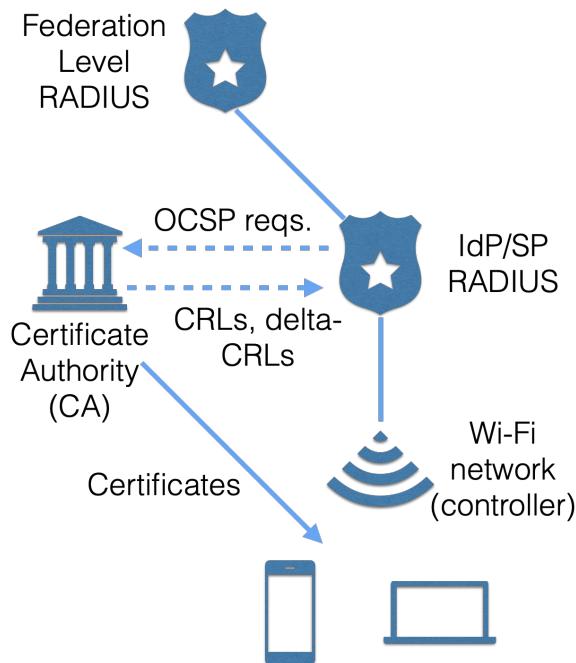
Optional: Certificates for more secure authentication

Radiator Auth.Fi supports client certificate authentication for device and person certificates.

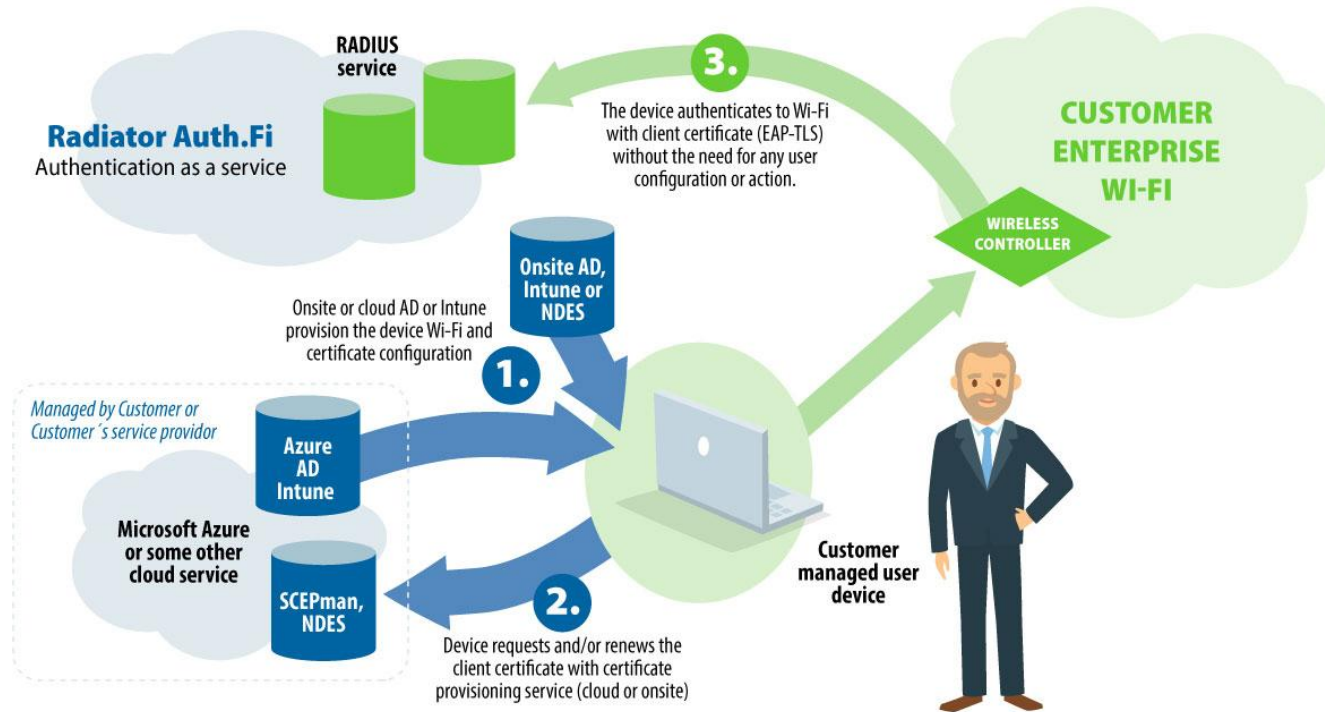
The service works together with certificate provisioning solutions and PKIs such as for example SCEPman, Microsoft NDES, Intune.

The only thing needed for integration are the PKI CA certificates, which the service uses to authenticate Wi-Fi clients such as devices and people via enterprise Wi-Fi authentication called EAP-TLS.

Separately configurable deny lists and certificate revocation lists (CRLs) can be used to limit device and people access to the network.



Certificate provisioning and authentication



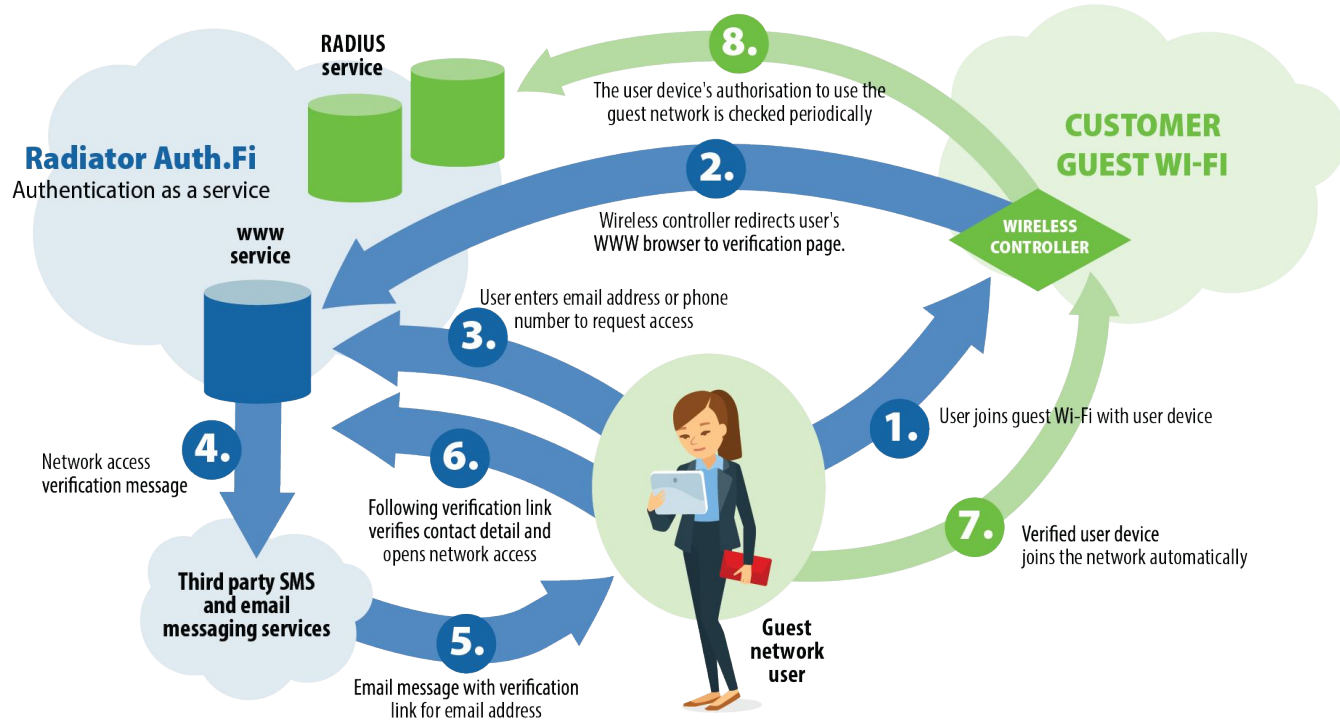
Optional: Guest Wi-Fi Access Control

Radiator Auth.fi provides an optional self-service guest Wi-Fi access solution for Cisco, Aruba and Extreme (in progress) wireless equipment (ask for support for other vendors).

The guests get an easy guest network access without usernames and passwords by verifying their email address or phone number on the captive portal page. The verified end user device is then able to connect to the guest network automatically without authentication, for example for 24 hours.



Self-service, passwordless Guest Wi-Fi access



Roaming users...

Roaming in Wi-Fi networks means using your existing network credentials such as username and password to authenticate into some other organisation's (roaming partner) network.

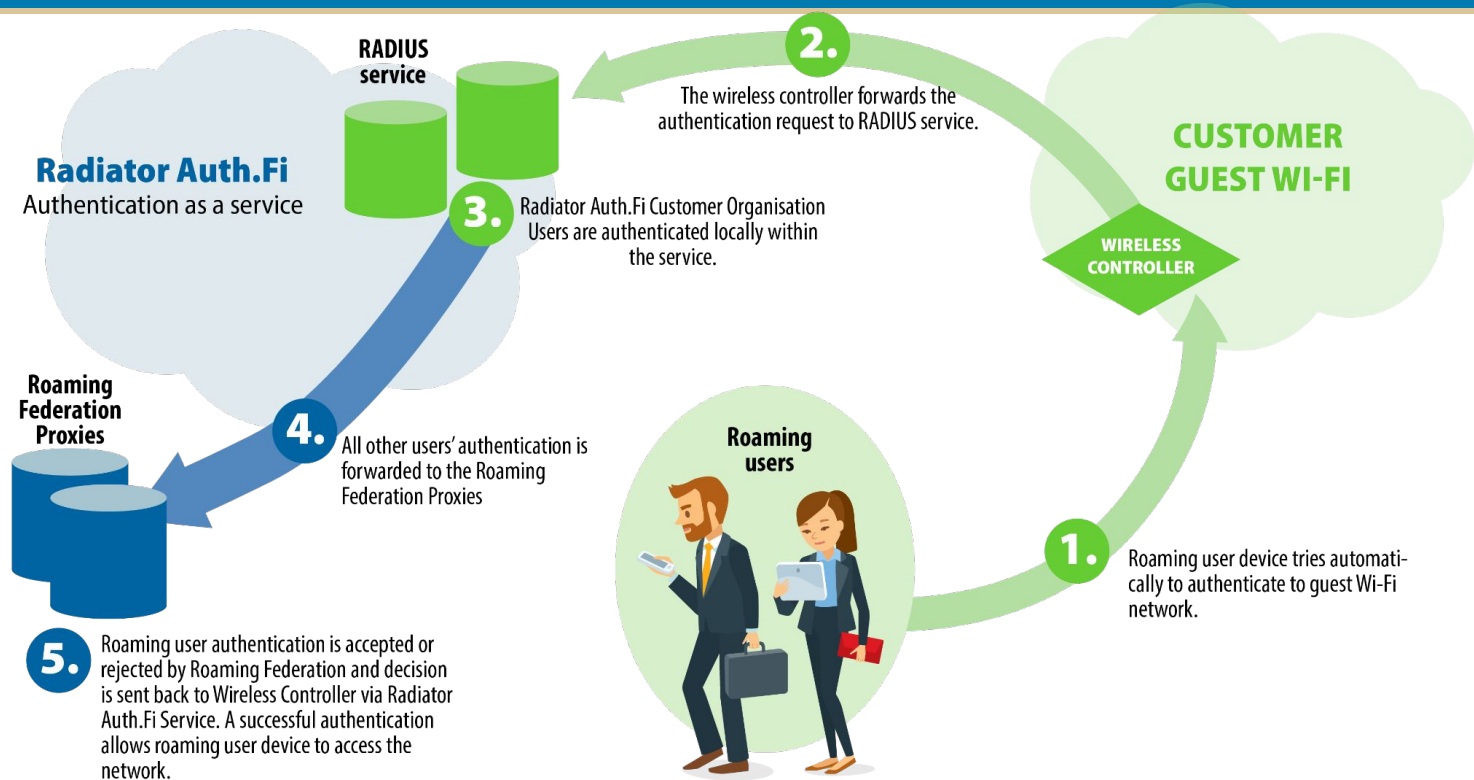
Radiator Auth.Fi supports both Service Provider and Identity Provider roles in RADIUS based Wi-Fi roaming. An organisation in Service Provider role only provides network access to roaming users. An Identity Provider provides roaming authentication also for provider's own users.

Roaming connections to roaming federations are set up regionally, but we have already active connections in some regions for eduroam and roam.fi as a part of the Radiator Auth.Fi Base Service. We may also provide OpenRoaming support connectivity in the future as an optional feature.

From the roaming users viewpoint roaming is easy as it has been designed to work with existing user credentials automatically like mobile phone roaming around the world.



... roam automatically



Radiator Auth.Fi service provides...

- Self-service, permanent Wi-Fi user account registration and verification service
- RADIUS authentication service for WPA2/WPA3 Enterprise Wi-Fi networks – only WPA2/WPA Enterprise capable Wi-Fi controller needed
- Self-service, password-less guest Wi-Fi network authentication service
- Optional X.509 client certificate authentication RADIUS service for WPA/WPA3 Enterprise Wi-Fi networks
- Roaming federation (eduroam, govroam, roam.fi) compatible Service Provider (SP) and Identity Provider (IdP) functionality
- Based on the customer interest a WBA OpenRoaming compatible settlement-free Service Provider (SP) functionality for easy, self-service WPA2/WPA3 Enterprise Wi-Fi guest network access with possibly later an Identity Provider (IdP) functionality for providing settlement-free OpenRoaming access for organisation's roaming users.



Radiator Auth.Fi

- Radiator Auth.Fi service was designed based on our experiences in:
 - Deploying Radiator for Wi-Fi authentication in many organisations around the world
 - Running and maintaining eduroam national proxies (since 2004) and roam.fi regional roaming federation in Finland
- The service makes it easy to deploy enterprise Wi-Fi authentication with roaming and guest Wi-Fi included for such organisations not willing to design, deploy and maintain the same services themselves.
- For an operator or integrator this service complements Wi-Fi network equipment, Internet access, device management service sales etc.
- For a large scale roaming, white-label networks, commercial hotspot or captive portal service providers and operators we recommend utilising Radiator and Radiator Expert Services for building their own Radiator based products and services.