

Radiator Case Studies

GLASFASER RUHR's AAA transformation

Enterprise network authentication



The company

GLASFASER RUHR



Ein Unternehmen der STADTWERKE BOCHUM GRUPPE

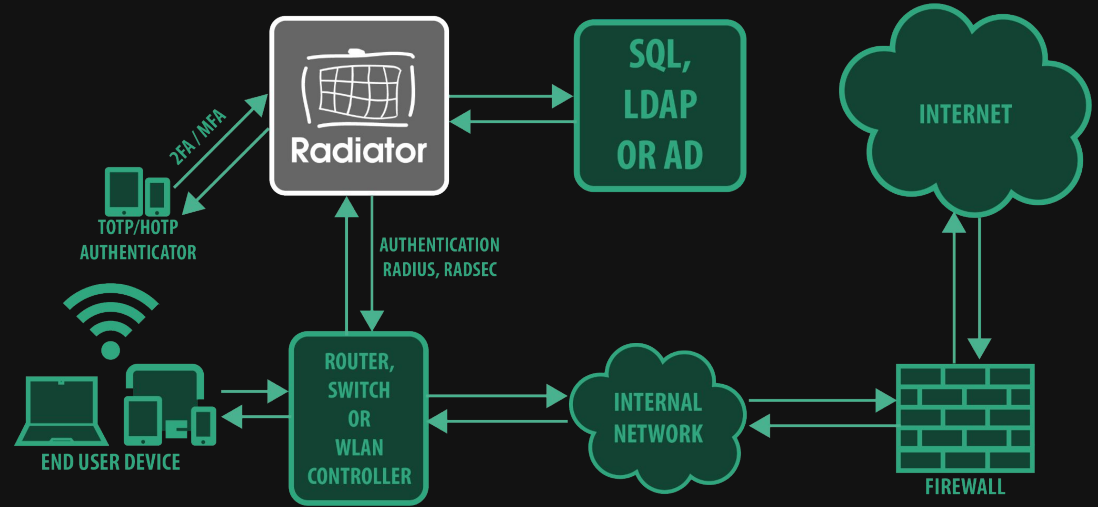
GLASFASER RUHR is a company within the Stadtwerke Bochum Group. They are a regional fiber-optic internet service provider in the Ruhr metropolitan area of Germany, committed to advancing the digital infrastructure of the region with state-of-the-art fiber technology.

GLASFASER RUHR is a long-time Radiator customer, with active installations of Radiator 4 dating back over a decade.

Use case: Enterprise network authentication

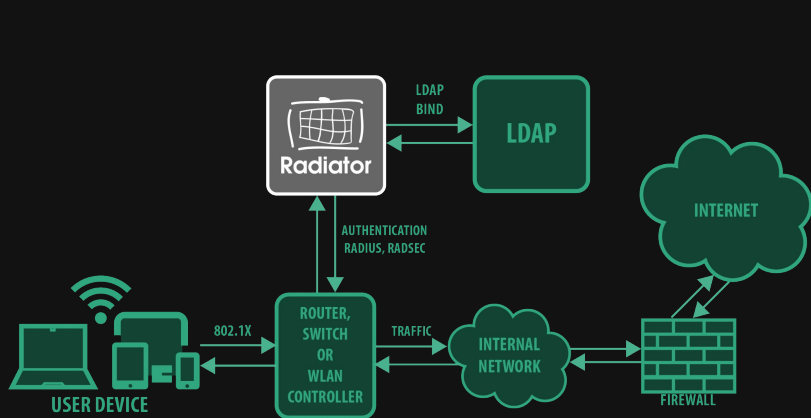
One of the basic use cases for RADIUS authentication is employee LAN authentication, meaning employee's authentication to both company's internal network and the world wide web. There are multiple methods to achieve secure network connection for your employees.

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, request with wrong credentials are rejected. This solution requires local IT admin to provision WiFi credentials.



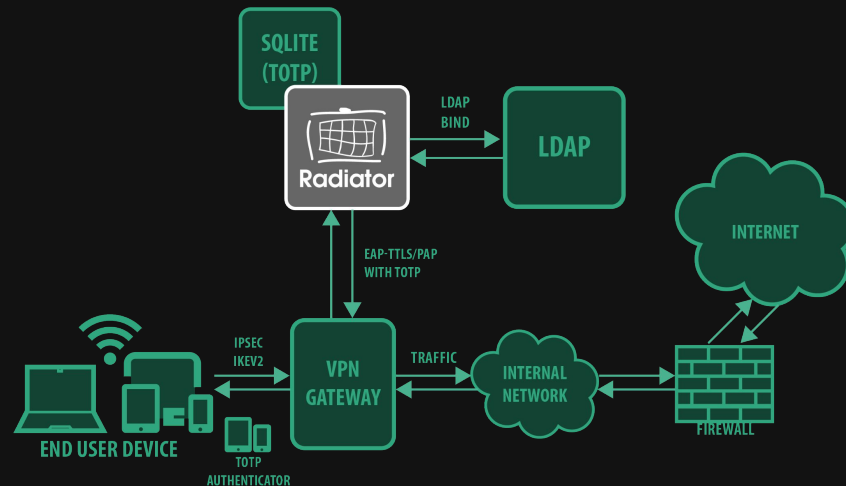
When using Active Directory the user credentials are checked against AD credentials. This model does not require manual configuration of first connection. The solution can also be complemented with second authentication factor with TOTP. All this can be implemented with just Radiator and your database of choice.

GLASFASER RUHR's deployment model



GLASFASER RUHR's internal use cases consist of two parts. Within the corporate network, Radiator enables strong, certificate- or credential-based authentication via 802.1X across both wired (LAN) and wireless (Wi-Fi) environments.

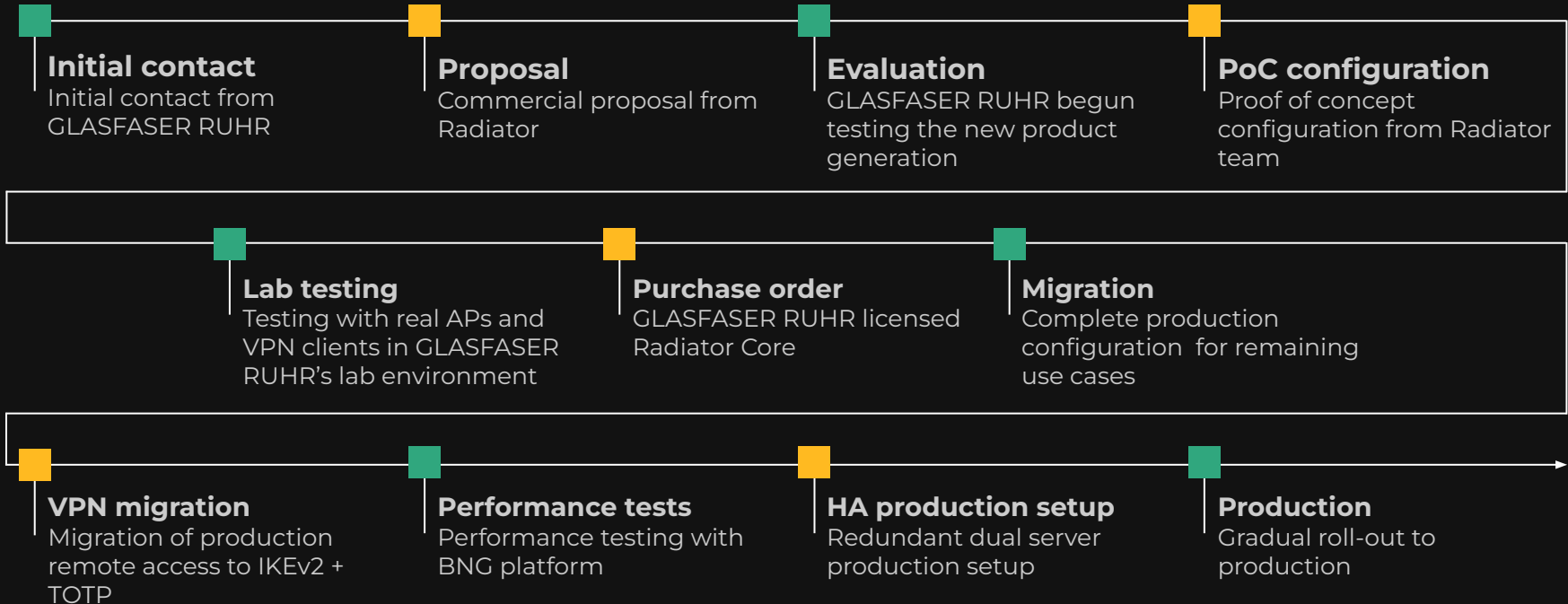
This ensures that only authorized users and devices can connect, enforcing consistent access control and improving overall network security posture.



For remote access, the same platform extends authentication to IPSec IKEv2 VPN connections utilising EAP-TTLS/PAP, with a TOTP second authentication factor to strengthen the security of the deployment.

This model protects against compromised credentials while providing a seamless and consistent user experience across both internal and remote access scenarios.

Project overview



Main Benefits

With the AAA modernization project, GLASFASER RUHR achieved several benefits



**Improved
operability**



**Streamlined
architecture**



**Future-proof
scalability**

Word from GLASFASER RUHR

"GLASFASER RUHR has been running Radiator 4 for nearly 20 years. It's a rock solid product. As we are preparing to deploy our own BNG infrastructure, we needed a RADIUS solution that could grow with us.

Radiator 10 was the natural next step: modern architecture, a proper GUI, and a vendor we already knew and trusted. We rely on it for both internal authentication and, once our BNG goes live, for authenticating our broadband subscribers at scale.

What truly set the experience apart was the collaboration from day one: feature requests were taken seriously and implemented quickly, support response times were exceptional, and working with the Radiator Software team was genuinely enjoyable. We're glad to be continuing this partnership."

Tobias Kaminski
GLASFASER RUHR

GLASFASER
RUHR

The logo graphic for GLASFASER RUHR consists of three curved, parallel lines in a vibrant green color, sweeping from the bottom right towards the center, positioned beneath the word 'RUHR'.

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Thank you for reading

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