



## CASE STUDY NETCOLOGNE



# Carrier-grade solution from ituma for the provider NetCologne

“Free Wi-Fi for everyone” is the motto of NetCologne’s hotspot.koeln. Hotspot.koeln is the City of Cologne’s public and free Wi-Fi service. NetCologne operates the Wi-Fi network from the city centre to the outlying districts and is constantly working to ensure that coverage becomes increasingly dense across all nine of Cologne’s districts. Currently, over 850 access points are installed, with the number set to exceed 1,000 soon. More than 50,000 users log on to the internet via hotspot.koeln every day. From July 2019, the aduno<sup>®</sup> Provider solution from ituma will be used for this purpose.

The modular infrastructure of the innovative service portal and CRM tool aduno<sup>®</sup> has been specifically designed for the deployment of a Wi-Fi hotspot infrastructure. In contrast to the ituma single-system solution, which provides all relevant components within a central appliance, the aduno<sup>®</sup> Provider solution has been designed with a modular architecture. This has enabled components that limit scalability to be separated into independent units. This ensures stable system operation even under high network load.

The ituma aduno<sup>®</sup> Provider solution meets all requirements for operating the hotspot service at carrier level. Furthermore, the extended range of functions is taken into account. Central routing of network traffic is thus ensured by high-performance third-party components (e.g. Nokia 7750 SR). This enables increased data throughput. Other services such as RADIUS and MySQL are separated into independent units.

