

Telemach Slovenia is a mobile operator that is a member of United Group. It is the third largest mobile operator in Slovenia, with over 600,000 customers. Telemach Slovenia is one of the leading providers of paid video content and fixed internet in the country. It provides users with advanced and high-quality television services in HD and 4K resolutions, high-speed internet and premium mobile services with gigabit speeds in the VECH packages, which make the world of entertainment and communication easily accessible on all devices at home or on the go (Source: telemach.si)

As a part of United Group, Telemach Slovenia is a part of the pool of South-Eastern European telecommunications operators such as SBB in Serbia, Telemach in Croatia, Bosnia and Herzegovina, and Montenegro, Vivacom in Bulgaria, Nova in Greece, satellite television operator Total TV and NetTV Plus.

During collaboration with Logate, Telemach Slovenia was a part of the UniFi project, done in the Balkan region and including Serbia, Bosnia and Montenegro.

The particularly interesting part of the AAA implementation for Telemach Slovenia was related to Mobile Data Offload. Here is how OpenProvider played an integral role in enabling the enhanced services in Telemach Slovenia.

OpenProvider AAA key benefits for Telemach Slovenia:

- ✓ Enabling AAA functions for the wireless internet access
- ✓ Mobile Data Offload with seamless EAP-SIM/AKA mobile device authentication
- ✓ UniFi B2C mobile application for different platforms
- ✓ Captive portal implementation
- ✓ Mobile Data Offload with seamless EAP-SIM/AKA mobile device authentication
- ✓ Active-active DRS site implementation for UniFi project (primary OpenProvider site in SBB Serbia, secondary site in Telemach Slovenia)
- ✓ Ongoing subscription and SLA

We collaborated with Logate during UniFi implementation project for the United Group and we emphasize the satisfaction of cooperating with them, They are a great team with a great product.



Miroljub Jovović,
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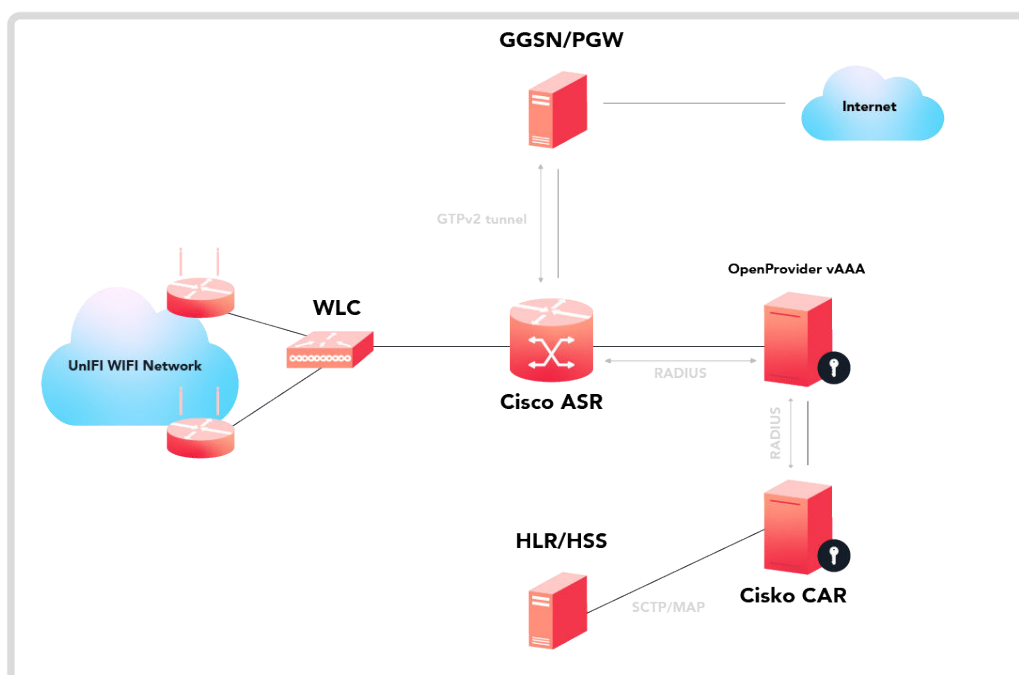


Implementing AAA platform for mobile data offload

OpenProvider vAAA acts as a proxy server between the AP/WLC and ASR on one side and Cisco CAR on the other side in order to provide attributes needed for the ASR to create a GTP tunnel to the mobile core.

The WiFi client connects to the specific SSID and chooses the EAP-SIM authentication method. The WLC sends a RADIUS Access Request to the OpenProvider vAAA platform. OpenProvider vAAA proxies all Access Requests and Access Challenge messages from the WLC to the Cisco CAR and vice versa. When Cisco CAR sends an Access Accept message, OpenProvider vAAA stores the information about the 3GPP-IMSI and MSISDN locally and correlates it to the client's MAC address. The Access Accept message is then proxied to the WLC, signaling that the EAP-SIM authentication phase is completed successfully.

ASR sends an Access Request message to the OpenProvider vAAA with the client's MAC address in the RADIUS User-Name attribute. OpenProvider vAAA processes the request, retrieves the saved 3GPP-IMSI and MSISDN for that specific MAC address and returns it to the ASR in an Access Accept message along with the attributes needed for the ASR to create a GTP tunnel to the mobile core. After the GTP tunnel is established, OpenProvider vAAA does not participate in any actions concerning the user's session.



Mobile Data offload in Telemach Slovenia

The complete technical implementation of the vAAA platform

Logate deployed its OpenProvider AAA platform that had the following characteristics:

- ✓ Solution was delivered in the virtual environment
- ✓ High availability and scalability that allows fully redundant deployments with stateful
- ✓ Real-time control and management over subscriber network access
- ✓ Easy service building supported by low code scripting language, OpenFunction
- ✓ Numerous options on how to handle charging and rating
- ✓ Personalized experience through different tiered-service bundles
- ✓ Web-based administration interface used for both service configuration and monitoring.
- ✓ Integration with OSS/BSS systems.

Team capabilities

Solution design | Project management | System integration |
Data migration | Training and education | 24x7 remote support

About us

16

years on the market

20^M

Millions of subscribers on our AAA platform

80⁺

80+ years of collective experience