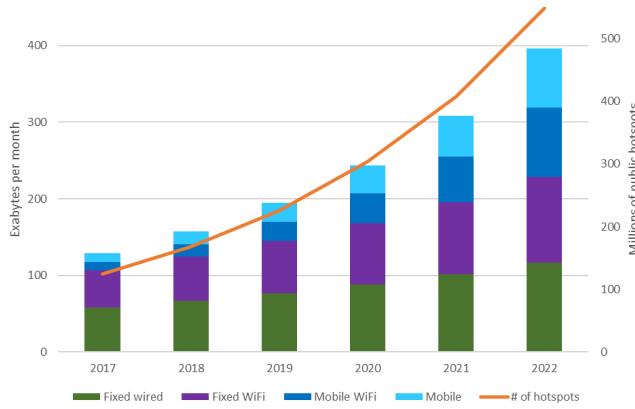


Anyfi Networks Solution Brief

True WiFi in the Cloud

WiFi-as-a-Service

WiFi just keeps on growing¹ ...



1) Source: Cisco VNI 2019

... readily available as a service

WiFi has become a utility for everyday life, comparable to water and electricity. Many businesses are dependent on secure and hi-quality network connections – failure could be devastating in a mission-critical setup. At the same time, the growing costs and demands on dedicated resources for implementing, managing, and supporting increasingly complex WiFi networks are difficult for smaller businesses to cope with.

The WiFi-as-a-Service subscription model allows SMEs to focus on their core businesses, rather than coping with high up-front networking cost and managing wireless networks. It also allows service-based, customer-facing businesses to increase their insights into customer behaviors, thus creating new business opportunities. And with a cloud-based, scalable software-defined WiFi platform it is easier than ever for an Internet service provider to offer WiFi services.

Anyfi WiFi-as-a-Service

The Anyfi Cloud-Based WiFi Platform is optimized for easy integration of multiple tenants with a service provider offering.

- A massively scalable platform combining cloud-based data plane and management with cost-effective WiFi radios.
- RESTful APIs to core functionality allowing for easy service integration, for example, a captive portal.
- Support for social media login, thus minimizing the threshold for consumers to access services.
- Fully-fledged radio resource managing, including automatic channel selection, band steering, and transmit power control.
- Easy management through cloud-based analytics for system health and performance monitoring.

The Anyfi Cloud-Based WiFi Platform

No compromises in security and integrity

All communication to and from the client device can neither be eavesdropped nor tampered with. And there is no need for any VPN or special software in the client device.

Ease-of-use for consumers

A client device is automatically connected to its preferred WiFi network whenever that network is available – be it at home, when visiting friends, or in public places.

Carrier-grade performance and manageability

The software-defined platform provides unlimited scalability through its cloud-based, modular architecture, executable in any Linux-based virtual environment.

WiFi-as-a-Service

Cloud-Based WiFi powered by [Anyfi Networks](#)

WiFi-as-a-Service under the hood

There are four corner stones that make the Anyfi Cloud-Based WiFi Platform excel when used for efficient and secure WiFi-as-a-Service applications.

- A WiFi stack split into a radio frontend and a service termination, enabling end-to-end encryption of all data.
- A separation of control signals from data signals, allowing scalable, centralized control of any number of wireless networks, access points, or gateways.
- A virtualized WiFi access gateway that executes in the Service Provider Data Center, securing AAA/RADIUS control as well as management and routing of all encrypted data traffic.
- A modularized software architecture that allows all components to be executed in any Linux environment.

In addition, full visibility and control of system performance and traffic is secured through the cloud-based analytics and monitoring dashboard.

Key Features

End-to-end security

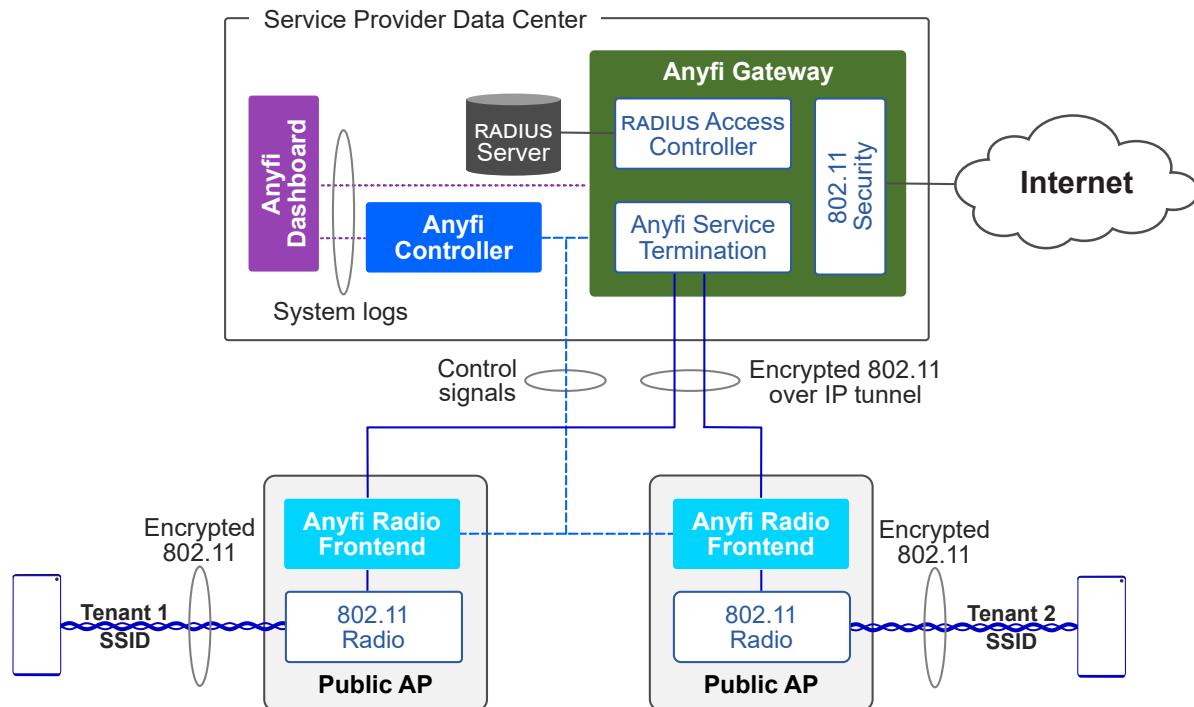
- Data encryption from a client device is terminated in the service provider's trusted location.
- AAA is not exposed to any untrusted access points, thus ensuring end-to-end privacy even if the access point in the public network is untrustworthy.

Massively scalable infrastructure

- Dashboard, Controller, and Gateway execute in any virtualized Linux environment.
- Access point density scales independently of network management and control.

Plug-and-play installation and management

- Cloud-based configuration, setup, and updates of access points.
- There is no software to install in the client device – not even any settings to change.
- Advanced spectrum-aware traffic prioritization and radio resource management ensuring optimum user experience.



About Anyfi Networks

With its patented, cloud-based wireless networking architecture, Anyfi Networks offers a range of WiFi solutions to fixed and mobile broadband operators, targeting Community WiFi and WiFi Offloading as well as a massively scalable secure WiFi-as-a-Service platform. For more information please visit www.anyfinetworks.com or contact sales@anyfinetworks.com.