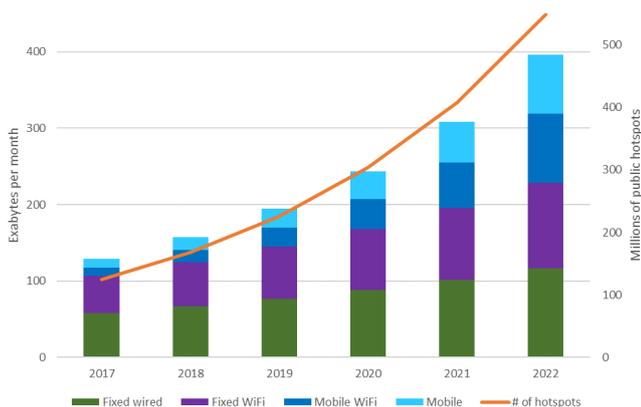


# Anyfi Networks Solution Brief

True WiFi in the Cloud

## Community WiFi

### WiFi just keeps on growing<sup>1</sup> ...



1) Source: Cisco VNI 2019

### ... but best effort is not good enough

Traditionally, Community WiFi has been seen as a means for a network owner to provide free Internet access for a selected community, as a complement to cellular networks. There is a large variety of such network owners, all the way from municipalities, local stores and coffee shops, to global café and restaurant chains.

Common for all these networks is that they offer best-effort Internet access through public hotspots or WiFi Zones. This is all good if you don't care about Quality-of-Service, security, and integrity. But for most people, Internet access is not only a matter of a moment of leisure, but critical for their personal and professional lives. And with cellular networks being expensive and increasingly crowded, there is a much better way for enabling secure and cost-efficient Internet access wherever you are.

### Anyfi Community WiFi

The Anyfi Cloud-Based WiFi Platform is optimized for fulfilling the tough requirements of a secure and efficient community WiFi network.

- A unified WiFi radio access network created from individual access points.
- End-to-end encryption guaranteeing a secure connection when using public access point.
- Multiple SSIDs are provided with cloud-based management and encryption.
- Optimum performance based on cloud-based radio management and Quality-of-Service 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.

# Community WiFi

Cloud-Based WiFi powered by Anyfi Networks

## Community WiFi under the hood

There are four corner stones that make the Anyfi Cloud-Based WiFi Platform excel when used for efficient and secure Community WiFi 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 a trusted environment, 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. This means, for example, that it is the same software that defines private and public access points.

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

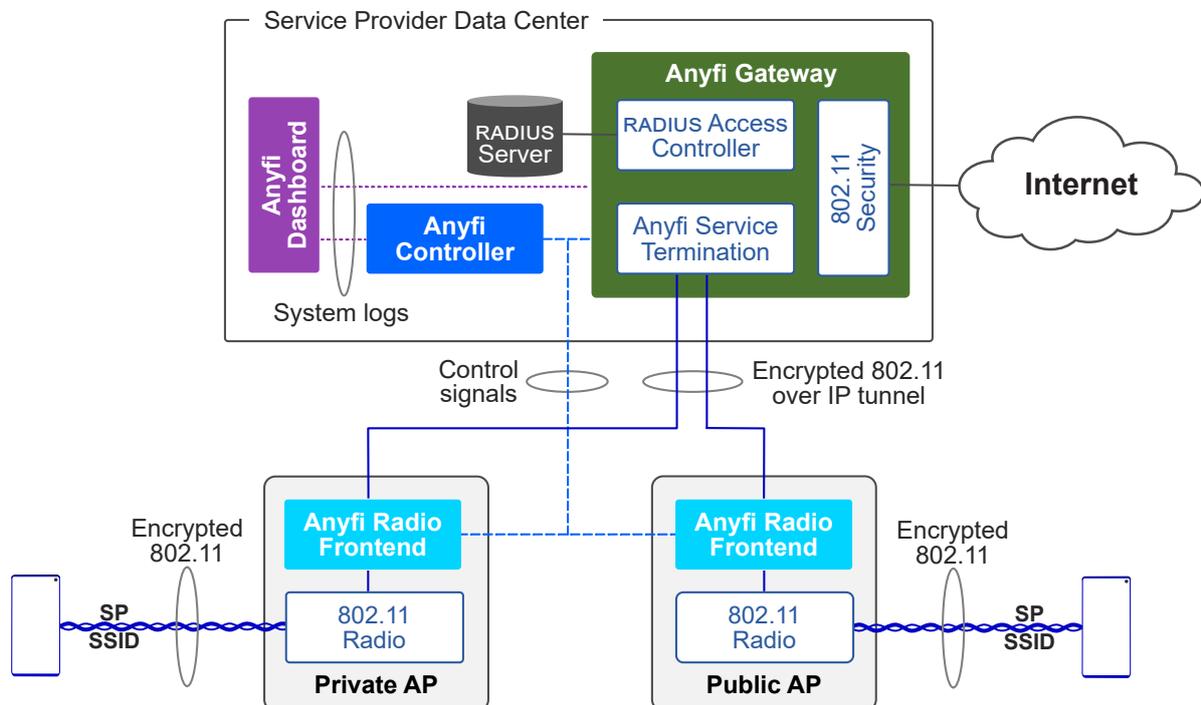
- Data encryption from a client device is terminated in the service provider's trusted location.
- AAA is not exposed to any untrusted access points, thus ensuring end-to-end privacy even if the access point in the public network is untrustworthy.

### 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](http://www.anyfinetworks.com) or contact [sales@anyfinetworks.com](mailto:sales@anyfinetworks.com).