



**OpenWiFi:
Advancing Global Connectivity
and Innovation Through
Open Collaboration**



WorldVue is committed to delivering high-quality services and seamless connectivity. We believe wireless connectivity is a major catalyst for economic growth and industry development. Embracing OpenWiFi allows us to break free from vendor lock, rapidly innovate in the wireless space, develop deep integrations with mission-critical applications, and offer our clients the most flexible and lowest total cost of ownership.

- **Robert Grosz** | President and COO, *WorldVue*

What is OpenWiFi?

Launched in 2021, OpenWiFi is a community-developed open-source platform designed to lower the cost of developing and operating Wi-Fi networks. The platform's unique approach to Wi-Fi creates an open-source disaggregated technology stack without vendor lock-in, ensuring a cost-effective and seamless way to deploy connectivity in a variety of use cases.

OpenWiFi was created through the Telecom Infra Project (TIP), a global community of companies and organizations driving open and disaggregated infrastructure solutions to advance global connectivity. The OpenWiFi community currently includes more than 300 participants, including service providers, OEMs, ODMs, software ISVs, system integrators, silicon vendors, and industry organizations.

WorldVue has announced a partnership with OpenWiFi to enable global deployment of Telecom Infra Project (TIP) OpenWiFi solutions. Through this partnership, WorldVue will integrate OpenWiFi's open-source technology into its Wi-Fi solutions, allowing for more flexibility and the ability to streamline network operations. By building networks with TIP OpenWiFi solutions, customers will benefit from WorldVue's industry-leading technology solutions combined with OpenWiFi's innovative and cost-effective approach.

Key features of OpenWiFi

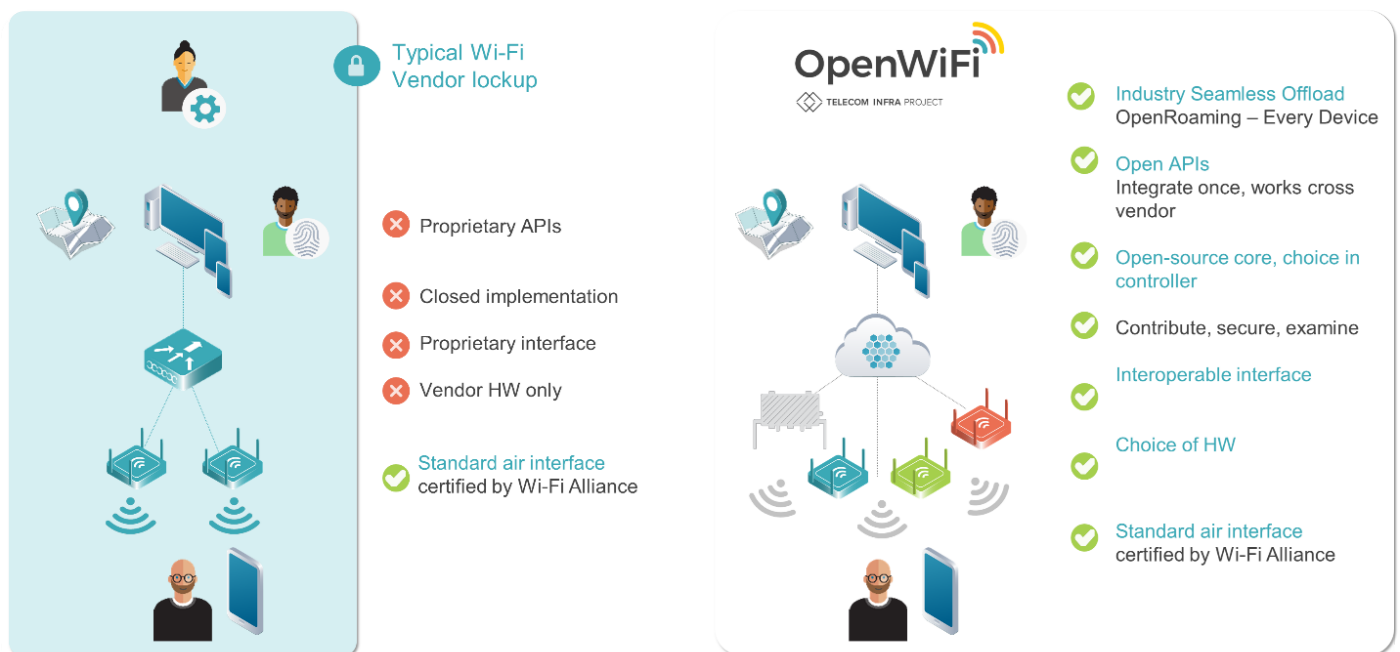
In addition to a fully disaggregated architecture with an open tech stack, OpenWiFi incorporates several additional transformative aspects:

- **Community-driven development** - All aspects of the OpenWiFi project are community-driven, with customer needs as the primary input for what developers build. This model enables rapid development and release of customer-defined features without waiting months or years for new releases from traditional vendors.



- **Enterprise-grade automated testing** - The TIP OpenWiFi project has applied the best practices of web-scale software development and the Wi-Fi OEM industry to deliver commercial-grade quality.
- **Globally secure zero-touch provisioning** - OpenWiFi includes Zero-Touch Provisioning (ZTP) based on Public Key Infrastructure (PKI) over the public internet, an essential requirement for securely deploying disaggregated network systems.
- **Product compliance validation** - The community oversees compliance testing of OpenWiFi-based products. This ensures that components implement the OpenWiFi stack properly and deliver the promised capabilities. Such testing also verifies that products and networks interoperate as expected.

OpenWiFi architecture works specifically to enable choice in device and cloud. Multiple operators have indicated that legacy lock-in models present with enterprise WLAN systems are lowering deployment velocity, limiting innovation, and introducing artificial barriers to new market use cases.

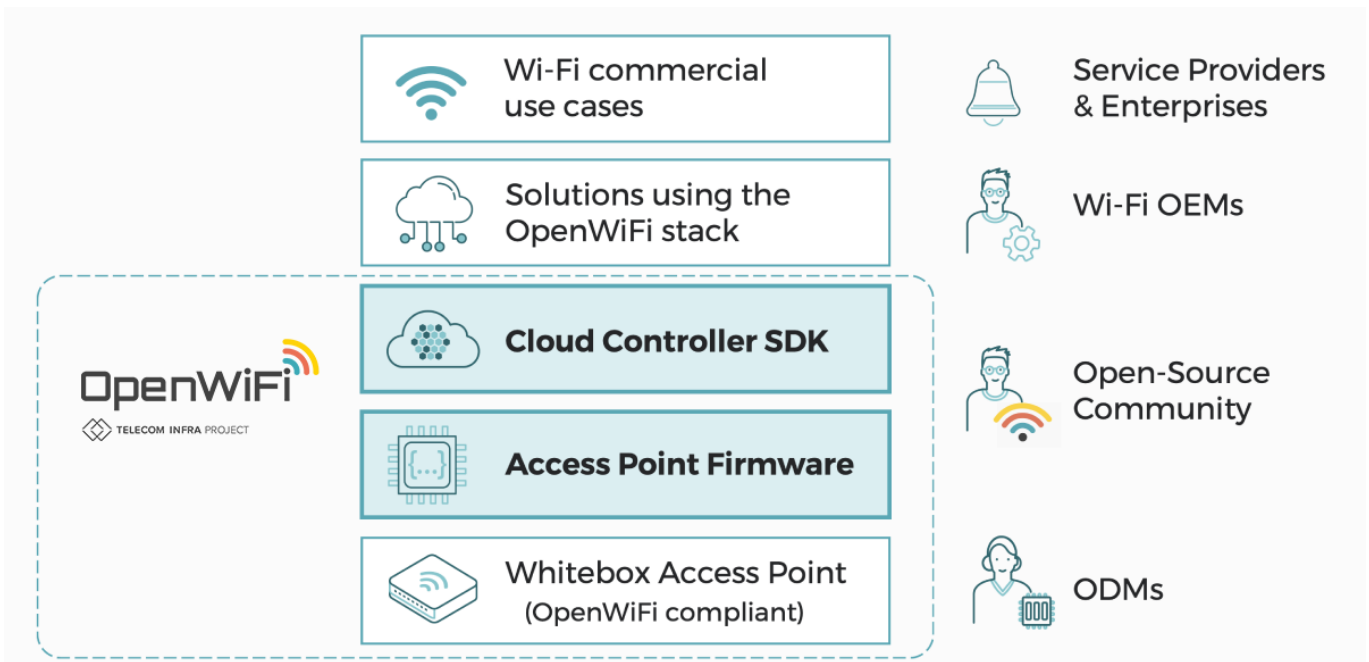


Source: TIP

Components of a typical OpenWiFi installation

The OpenWiFi system includes a cloud controller software development kit (SDK) and enterprise-grade access point (AP) firmware, designed and validated to work seamlessly together. The firmware can be used with any OpenWiFi-compliant whitebox AP. OpenWiFi presents the opportunity to deploy managed Wi-Fi services either from the cloud or on-premises.





Source: TIP

With OpenWiFi, the entire 'stack' from the cloud to the firmware can be consumed, lowering the cost of entry and time to market of a new entrant. The OpenWiFi software tech stack incorporates advanced enterprise- and carrier-grade capabilities, including:

- Open, standardized APIs and data models (AP and Controller)
- Support for Wi-Fi 6 (with Wi-Fi 7 support expected in Q2 of 2024), Passpoint (802.11u), and OpenRoaming
- Scalable mobility and Wi-Fi meshing
- Extensible Radio Resource Management (RPM)
- Configuration, telemetry, and analytics

Installations will often involve integrations with existing infrastructure. Since OpenWiFi supports widely used technology standards, equipment should be broadly interoperable. Users can extend deployment opportunities using third-party integrations with the TIP OpenWiFi SDK. For example, services can include device provisioning, network management, service assurance, authentication, captive portal services, IoT, and amenity networks.

It is not enough for a mass market solution to eliminate vendor lock-in for equipment. It is also necessary to provide customer choice in the cloud, whether that customer is the operator or an end user. Thus, OpenWiFi is provider-agnostic, and OpenWiFi base devices may be redirected to any other OpenWiFi-ready cloud at any time.



Advantages for developers

Compared with typical proprietary approaches to Wi-Fi product development, OpenWiFi has several key advantages.

- **Accelerated, open innovation**, with development based on common control, data, and management layers. This enables developers to focus on innovation rather than reinventing the basics.
- **Open APIs** so over-the-top Wi-Fi applications can be integrated once and then be used with multiple vendor solutions. This reduces integration costs and shortens the time to market.
- **Lower R&D cost** to develop enterprise-grade Wi-Fi solutions by using OpenWiFi's robust, single codebase of common Wi-Fi "plumbing."

Advantages for property owners

OpenWiFi has many potential benefits for property owners such as hoteliers as well, including:

- OpenWiFi's combination of deployment savings (CAPEX) and automation-driven operational savings (OPEX) brings **a significant reduction in Total Cost of Ownership (TCO)** over current proprietary solutions.
- OpenWiFi's diverse multi-vendor selection of cloud controllers and access points brings **choice and flexibility** to enterprise-grade Wi-Fi infrastructure. This enables greater customization to meet the property's specific needs and enhance the guest experience.
- By eliminating vendor lock-in, OpenWiFi **makes network installations more future-proof**. For example, OpenWiFi makes it easier to swap in new equipment when existing equipment fails, as it inevitably does. Any compatible equipment can be used to scale or upgrade the network. Open collaboration also promotes the incorporation of emerging technologies. This enables properties to adopt innovative solutions more quickly and ensures greater sustainability.
- As a result of continuous community-driven development, properties can implement enhanced security with faster identification and resolution of vulnerabilities.





We are your trusted technology partner for OpenWiFi Solutions

WorldVue is a top-tier, full-service company providing seamless solutions for hospitality and residential properties. We provide a team of technology engineers, systems designers, and project managers dedicated to serving your property with ONE point of contact for installation, service, and support nationwide. We can help bring your property into the future with connected services that will improve the guest and resident experience.

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