



Ideal for:



Telecom



Hotels & Resorts



Universities



Healthcare



Public Places



Airport

Operation Management

Customers

AP Vendors

AP Models

Inventory

Wireless Controller

Advanced RRM

and Power)

Roaming

Meshing

System Admins

Network Troubleshooting

Dynamic Control (Channel

Application Fingerprinting

Policy-Airtime, Speed, etc.

Steering (Client, Band)



Transport

Config Management

cloud SDK and OpenWiFi AP NOS.

- Venues
- Device Profiles
- AAA Profiles
- WIPS
- SON
- Captive Portal

Network Visualizer

- Dashboard View
- Network insight –
 Venue, AP, Client

Analytics & Reports

- Network & AP Outage Report
- Data Usage

Troubleshooting

- Syslog
- Health Checks
- Remote Shell
- Remote Capture

Provisioning

 Device Identity (Model, MAC, Serial Number)

Indio Cloud OpenWiFi Cloud Controller is an open wireless cloud controller designed for Enterprise, SMB and MDU deployments. It is built on an open technology stack that includes the OpenWiFi

It has the OpenWiFi 2.x Stack which allows the solution to be delivered on low-cost, low-compute AP

hardware. This flexibility enables WiFi service providers to select any AP hardware from a list of supported ODMs, eliminating hardware vendor lock-in. It is built to support WiFi6 and WiFi6E multiradio APs, while also maintaining backward compatibility with WiFi4 and WiFi5 APs. It can be deployed

on private or public clouds, including AWS, Azure, DigitalOcean, or on-premise data centers.

Additionally, it offers both SaaS and licensed platform options for WiFi service providers and enterprises, providing a versatile and scalable solution for various deployment needs.

- Device Software Upgrade
- Multiple SSID Configuration
- Bandwidth Rate Control per SSID
- Multi-Radio 2.4/5/6GHz Control
- AP Network Mode Control (Bridge/NAT mode)
- Security (WPA-Personal/WPA & WPA2/3 Personal Mixed/WPA & WPA2/3 Enterprise Mixed/WPA2/3 Personal/WPA2/3 Enterprise/WEP)
- VLAN per SSID
- VxLAN Port Configuration
- NTP Enable/Disable
- RTLS (Location Services)
 Enable/Disable

Cloud SDK in OpenWiFi

- Zero Touch Provisioning & Discovery
- Integration Northbound Interface (NBI) RESTful
- Data model driven
 OpenAPI design
- Enterprise Message Bus data access
- Cloud Native & Agnostic micro services
 - Gateway Southbound
 - Security Northbound
 - Firmware Management
 - Web User Interface
 - Provisioning
 - Analytics

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RF Control

- IEEE802.11r Fast BSS Transition per Radio Control
- IEEE802.11k RRM Radio
 Information per Radio Control
- IEEE802.11v Network Assisted Roaming per Radio Control
- RRM Location AP Channel (uChannel) Provisioning
- RRM Location Client Steering (uSteer) Threshold Provisioning

Remote Troubleshooting and Service Assurance

- Syslog
- Health Check Reports
 - Remote DHCP,
 RADIUS, UE Network
 Analysis
- Remote TTY Shell
- Remote Packet Capture Analysis

Supported Vendors

- CIG
- Netgear
- TP-Link
- ZyXEL
- Sercom
- Wallys Communications
- Edgecore Networks
- HFCL Limited
- Actiontec
- Mesh+
- CyberTAN
- Lindsay Broadband
- Inventum

Open Technology Stack



An initiative of Telecom Infra Project (TIP)



Open source cloud SDK and Enterprise-grade Access Point firmware



Community developed, disaggregated Wi-Fi software system



Two different open technology stacks available for OEMs to build open cloud controllers - 1.x and 2.x







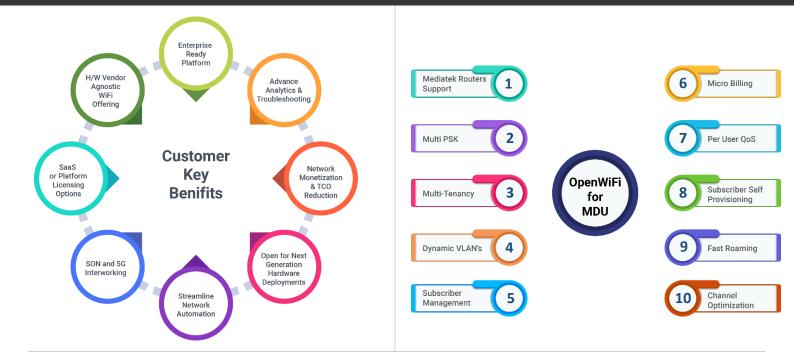




Dashboard







Deployment & Architecture

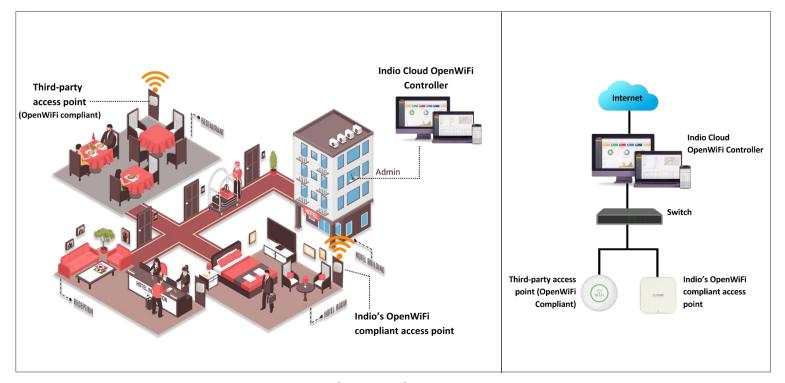


Fig. 1 OpenWiFi Deployment Scenario (Enterprise)

Fig. 2 Architecture

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