

# Wireless Broadband Alliance Introduces 'Zero-Touch' Framework for Seamless and Secure IoT Device Onboarding

*New framework proposes a 'zero-touch' onboarding process for Internet of Things (IoT) Wi-Fi devices, integrating the simplicity and security of OpenRoaming with FIDO Device Onboard*

LONDON, UNITED KINGDOM,  
November 4, 2024 /EINPresswire.com/

-- The [Wireless Broadband Alliance \(WBA\)](#), the global industry body dedicated to improving Wi-Fi standards

and services, today announced a new framework for integrating FIDO Device Onboard (FDO) and WBA OpenRoaming™ technologies. This initiative enables a 'zero-touch' seamless and secure onboarding process for Internet of Things (IoT) Wi-Fi devices, parallel to the simplicity and

“

This new framework will turbocharge secure and efficient IoT device deployments, overcoming the challenges of onboarding IoT devices into a Wi-Fi network.”

*Tiago Rodrigues, CEO,  
Wireless Broadband Alliance*

security of Wi-Fi device onboarding using [OpenRoaming](#). Released today, the [“OpenRoaming for IoT - FIDO Device Onboarding Framework”](#) report details how these technologies work together to simplify and secure the onboarding process for IoT devices, transforming large scale IoT deployments.

The integration between OpenRoaming and FDO is a significant milestone in the realm of Wi-Fi device onboarding and addresses critical challenges of large-scale IoT deployments by providing a secure, scalable, and automated solution.

By automating the onboarding process, this allows headless and other pre-configured FDO IoT devices to be onboarded straight out of the box using OpenRoaming, it can then receive new OpenRoaming credentials, allowing it to connect via OpenRoaming permanently, or receive credentials to connect to a private Wi-Fi network for a permanent connection.



**Wireless  
Broadband  
Alliance**

Logo of the Wireless Broadband Alliance

Wi-Fi-based IoT devices have historically faced challenges due to the complexity of manual onboarding processes, making large-scale deployment inefficient. By leveraging the OpenRoaming global network of millions of hotspots, the onboarding process becomes seamless, accelerating the adoption of Wi-Fi-based IoT devices across sectors like smart cities, manufacturing, and logistics.

Key Benefits of the Framework:

- Zero-touch, secure onboarding: Automates device onboarding, enhancing operational efficiency and ensuring secure authentication.
- OpenRoaming and FIDO integration: Describes how pre-configured OpenRoaming and FIDO credentials enable seamless device connectivity across networks.
- Alternative network environments: Covers complex deployments and provisioning challenges.
- Supply chain security: Ensures device security through ownership vouchers and cryptographic mechanisms.

Tiago Rodrigues, CEO of the Wireless Broadband Alliance,

said: "This new framework will turbocharge secure and efficient IoT device deployments, overcoming the challenges of onboarding IoT devices into a Wi-Fi network. This framework standardizes OpenRoaming for FIDO, encouraging a widespread adoption and cross-industry collaboration, and will enable a wide range of industries to benefit from improved operational efficiency and security across their IoT devices into Wi-Fi networks."

Tomas Bäckström, Director of Delivery Services, Enea, said: "Since 2018, our vision has been to enable secure, automatic Wi-Fi onboarding by harnessing existing Wi-Fi IoT device certificates. This requires a united, industry-wide effort, and WBA is the ideal body to lead the charge. This framework could be a game-changer in solving long-standing challenges for large-scale deployments across industries like smart cities and logistics, and we eagerly anticipate seeing the first devices hit the market."

Dr. Necati Canpolat, Sr. Staff Wireless Architect at Intel and WBA Board Director, added: "WBA's work on zero-touch onboarding with OpenRoaming and managing the ownership of industrial IoT devices with FIDO will address a critical industry challenge and facilitate large-scale deployments of these devices. Intel is proud to lead this initiative at WBA."

To learn more about the future of IoT device onboarding, download the "OpenRoaming for IoT - FIDO Device Onboarding Framework" report (<https://wballiance.com/openroaming-for-iot-fido-device-onboard-framework/>), and visit the WBA Resources pages of the Wireless Broadband Alliance website - <http://wballiance.com/resources/wba-white-papers>.



Tiago Rodrigues, CEO of the Wireless Broadband Alliance

## About the Wireless Broadband Alliance

Wireless Broadband Alliance (WBA) is the global organization that connects people with the latest Wi-Fi initiatives. Founded in 2003, the vision of the WBA is to drive seamless, interoperable service experiences via Wi-Fi within the global wireless ecosystem. WBA's mission is to enable collaboration between service providers, technology companies, cities, regulators, and organizations to achieve that vision.

WBA undertakes programs and activities to address business and technical challenges, while exploring opportunities for its member companies. These initiatives encompass standards development, industry guidelines, trials, certification, and advocacy. Its key programs include NextGen Wi-Fi, OpenRoaming, 5G, IoT, Smart Cities, Testing & Interoperability, and Policy & Regulatory Affairs, with Member-led Work Groups dedicated to resolving standards and technical issues to promote end-to-end services and accelerate business opportunities.

Membership in the WBA includes major operators, service providers, enterprises, hardware and software vendors, and other prominent companies that support the ecosystems from around the world. The WBA Board comprises influential organizations such as Airties, AT&T, Boingo Wireless, Boldyn Networks, Broadcom, BT, Charter Communications, Cisco Systems, Comcast, HFCL, Intel, Reliance Jio, Telecom Deutschland, and Turk Telekom.

Follow Wireless Broadband Alliance:

[www.twitter.com/wballiance](https://www.twitter.com/wballiance)

[www.facebook.com/WirelessBroadbandAlliance](https://www.facebook.com/WirelessBroadbandAlliance)

[www.linkedin.com/company/2919934/](https://www.linkedin.com/company/2919934/)

Wireless Broadband Alliance PR team

GingerPR Ltd

+44 1932 485300

[email us here](#)

Visit us on social media:

[Facebook](#)

[X](#)

[LinkedIn](#)

---

This press release can be viewed online at: <https://www.einpresswire.com/article/756875904>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2024 Newsmatics Inc. All Right Reserved.