



# “Let’s celebrate World Wi-Fi Day”

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**WORLD™**  
Wi-Fi Day



**Wireless  
Broadband  
Alliance**

**Wi-Fi** enables  
human potential

**Wi-Fi** acts as a global  
equalizer

**Wi-Fi** accelerates  
economic, social, and  
environmental impact



## **PM-WANI (Public Wi-Fi Access Network Interface):**

*PM-WANI creates the infrastructure and marketplace for public Wi-Fi in India*

## **OpenRoaming (WBA led federation):**

*OpenRoaming provides the seamless identity, security, and roaming framework*

*Increases adoption and Public Wi-Fi to Scale up*

## **Shared Objectives:**

- 1. Increase Digital Inclusion – ½ Billion People*
- 2. Improve User Experience*
- 3. Enable Seamless Connectivity*

PM-WANI Architecture Enables a decentralized public Wi-Fi ecosystem:

- *PDO (Public Data Office)*
- *PDOA (Public Data Office Aggregator)*
- *App Providers*
- *Central Registry*

Benefits:

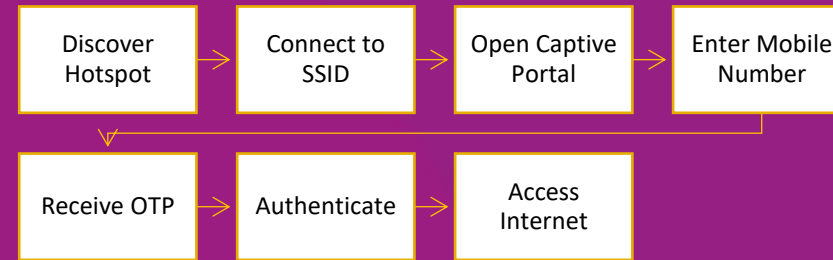
- *Low-cost public Wi-Fi deployment*
- *Entrepreneur-driven model*
- *Nationwide scalability*

Goal:

- *Millions of public Wi-Fi hotspots across India*

Current Authentication Flows

### 1. Captive Portal



### 2. App Based



Challenges:

- *Onboarding friction*
- *Repeated logins*
- *Limited roaming experience*

Result:

*Availability exceeds adoption*



# WBA OpenRoaming

## OpenRoaming enables:

- *Automatic Wi-Fi onboarding*
- *Secure authentication*
- *Roaming*

## Built on:

- *Passpoint (Hotspot 2.0)*
- *WPA2/WPA3 Enterprise*
- *PKI trust framework*
- *AAA federation*

## Participants include:

- *Operators, Enterprises, Venue owners, Wi-Fi providers, Cities & Governments*

## • OpenRoaming Technical Architecture



## Authentication methods:

- *EAP-TLS, EAP TTLS, EAP-SIM, EAP-AKA*

## Outcome:

- *No captive portal*
- *No manual login*
- *Secure connectivity*

## PM-WANI provides:

- *Infrastructure*
- *Marketplace*
- *Regulatory framework*

## OpenRoaming provides:

- *Identity federation*
- *Trust framework*
- *Seamless authentication*



## Natural Convergence / Future User Experience:

- *Device discovers PM WANI hotspot*
- *Passpoint identifies network*
- *OpenRoaming validates identity*
- *Automatic secure connection*
- *No OTP required*

# OPENROAMING WORKS WITH PASSPOINT

## Wi-Fi APs Manufacturers with easy setup



## Works with Passpoint® Wi-Fi APs



*Works with Passpoint®  
Devices*



*Examples of Identity  
Providers*



Pixel



*Among other players  
like municipalities,  
retailers and operators*



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# CROWDSOURCING OPENROAMING MAP

5,000+  
server certificates issued

1,500+  
Operators, Enterprises, cities involved



## OpenRoaming Wi-Fi Coverage Map

[Click Here for more information](#)



[www.wballiance.com/openroamingmaps/](http://www.wballiance.com/openroamingmaps/)

# EXAMPLES OF DEPLOYMENTS

## HEALTHCARE



## RETAIL



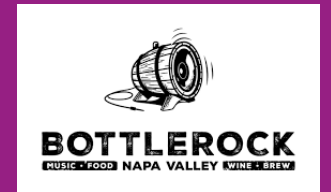
## MUNICIPALITIES



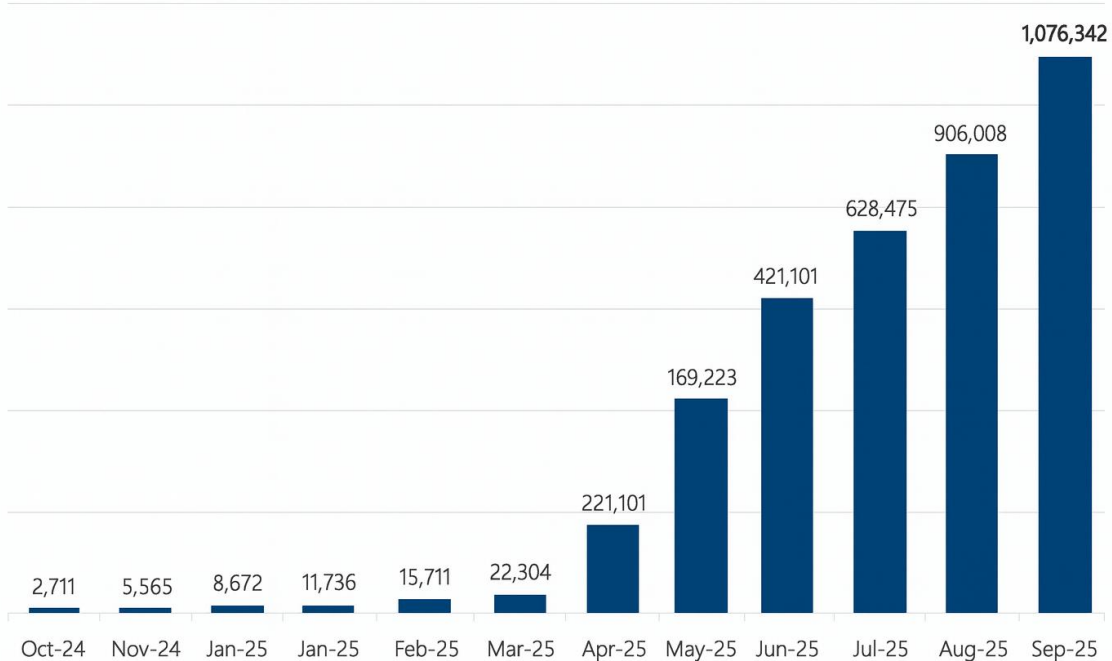
## EDUCATION



## OTHERS

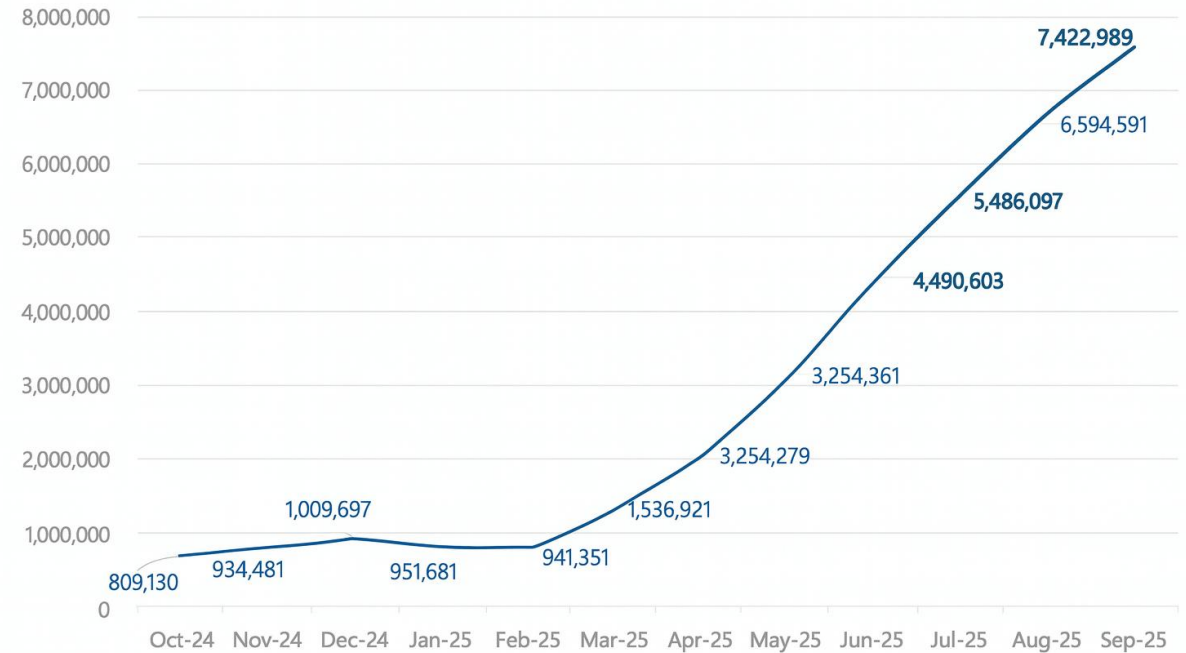


Total Profile Downloads



400x  
Growth

Monthly usage count



9x  
Growth

✓ Expanding Wi-Fi availability: > 1,000 TMG facilities

✓ Expanding subsidies to municipalities: 175 municipal facilities → approx. 700 by FY2026

# Closing Remarks

*PM-WANI can create millions of Wi-Fi access points*

*OpenRoaming can make them operate as a single, seamless national network*

*India has successfully created the framework for mass public Wi-Fi deployment through PM-WANI*

*The next challenge is user adoption*

*By integrating Passpoint and OpenRoaming, India can move from OTP-based access to automatic, secure connectivity, creating a national Wi-Fi experience that complements mobile broadband and accelerates digital inclusion*



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