

WIRELESS BROADBAND ALLIANCE (WBA)



WBA's vision is to lead the development of

"Seamless and interoperable services experience on Wi-Fi within the global wireless ecosystem"

Enable collaboration among service providers, technology companies and the organizations in the industry who share the vision



Undertake programs and activities to address business and technical issues and opportunities for the member companies

in 2003

100+ MEMBERSHIP COMMUNITY

PROJECTS & PROGRAMS

2 ANNUAL **EVENTS**

PROMOTION AND GO-TO-MARKET

THOUGHT LEADERSHIP & MARKET RESEARCH

WORK GROUPS & PROJECTS



WBA WORK GROUPS

NextGen		5G	loT	Roaming	Testing & Interoperability Work Group
Work Group		Work Group	Work Group	Work Group	
Wi-Fi 6		RAN Convergence	Deploying Wi-Fi and LoRa (Same infrastructure)	Roaming Evolution	Captive Network Portal
(802.11ax)		(NGMN JTF, Roadmap)		(Federation, Interconnect)	Standards for Wi-Fi
In-Flight Connectivity		Multipath Technologies	Connected Vehicle	NGH Live Initiatives (WGC & External Events)	NGH Provisioning Standardization & Trial
In-Home Wi-Fi	Wi-Fi Sensing				
WBA KEY ROLE					
Fast-tracking Wi-Fi		<u>Leading convergence</u>	Augmenting Wi-Fi	Incubating new business opportunities	Achieving interoperable
deployments for operators		<u>of Wi-Fi with 5G</u>	role in IoT		Wi-Fi services

Carrier Wireless Services Certification (CWSC)

CTO Group

...ARE YOU IN? contact PMO@wballiance.com



Workgroup Charter:

- Document how the current operating systems behave by Client, OS, Version
- Document the current pre-auth connectivity
 & onboarding process
- Recommend improvements for clients and onboarding for a better quality of experience

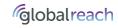
LEADING MEMBERS*







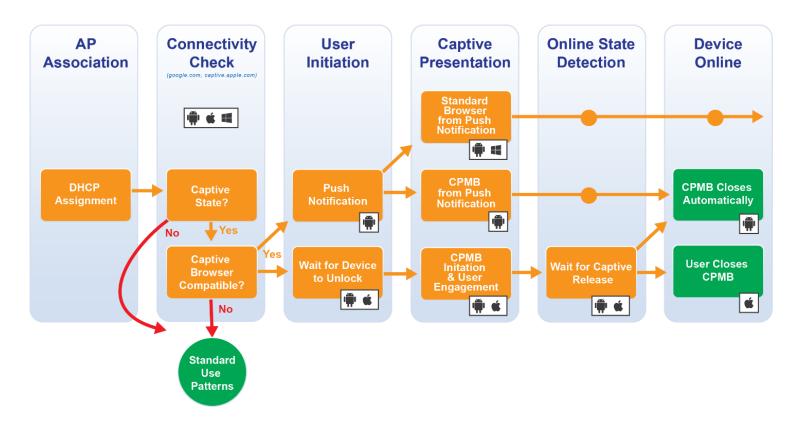












Pressing Issues



Client connectivity check

- Non-standard URL's are referenced
- SSL cert mismatch issues on some devices
- MITM behavior creates many technical issues

Fragmented use cases

- Apple / Android / Windows interpretations
- Post-auth behavior

Limited features available

- No debugging tools for client
- Limited W3C standards
- No support for client-side state management



WBA's Constituency

- Network Operators
- Network Device Manufacturers
- Technology Providers



Project work collaboration

- Possible RFC for near-term usability standards
- Short-term fixes to manufacturer dev cycles
- Practical trials for RFC 7710 bis
- Inclusions of Enterprise & Hotspot 2.0/802.11u
 use cases
- Any other IETF activity regarding captive portal we can help with?



Thank You!

(Questions / Next Steps)