

Managed Wi-Fi Use Cases

Wi-Fi Home Router*



Enterprise Wi-Fi



Municipal Wi-Fi



Cellular Wi-Fi Offload/Aggregation



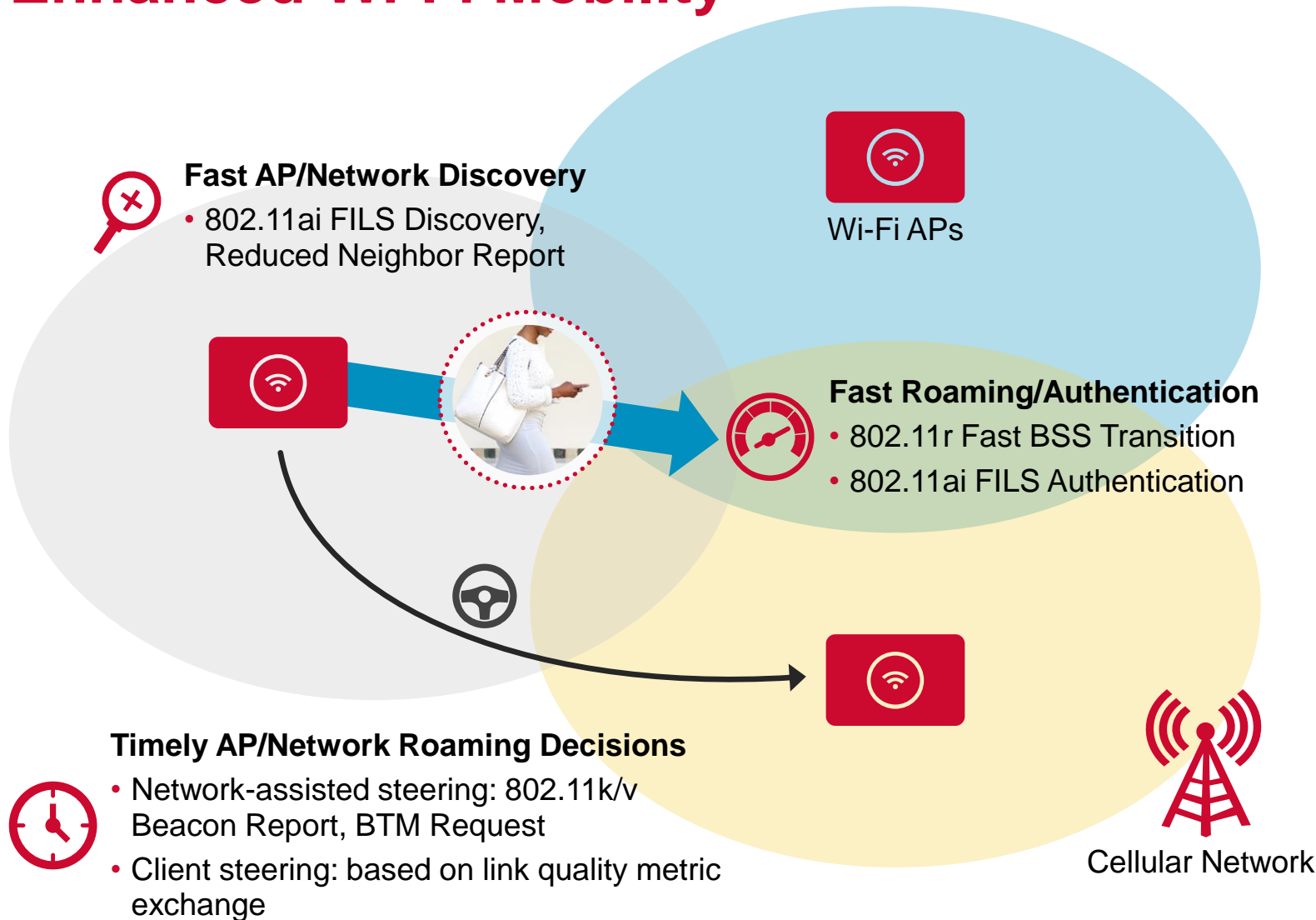
Venue Wi-Fi



Wi-Fi First operators

* Wi-Fi Home Router may be managed by fixed-line operator, may serve both home network and public Homespots

Enhanced Wi-Fi Mobility



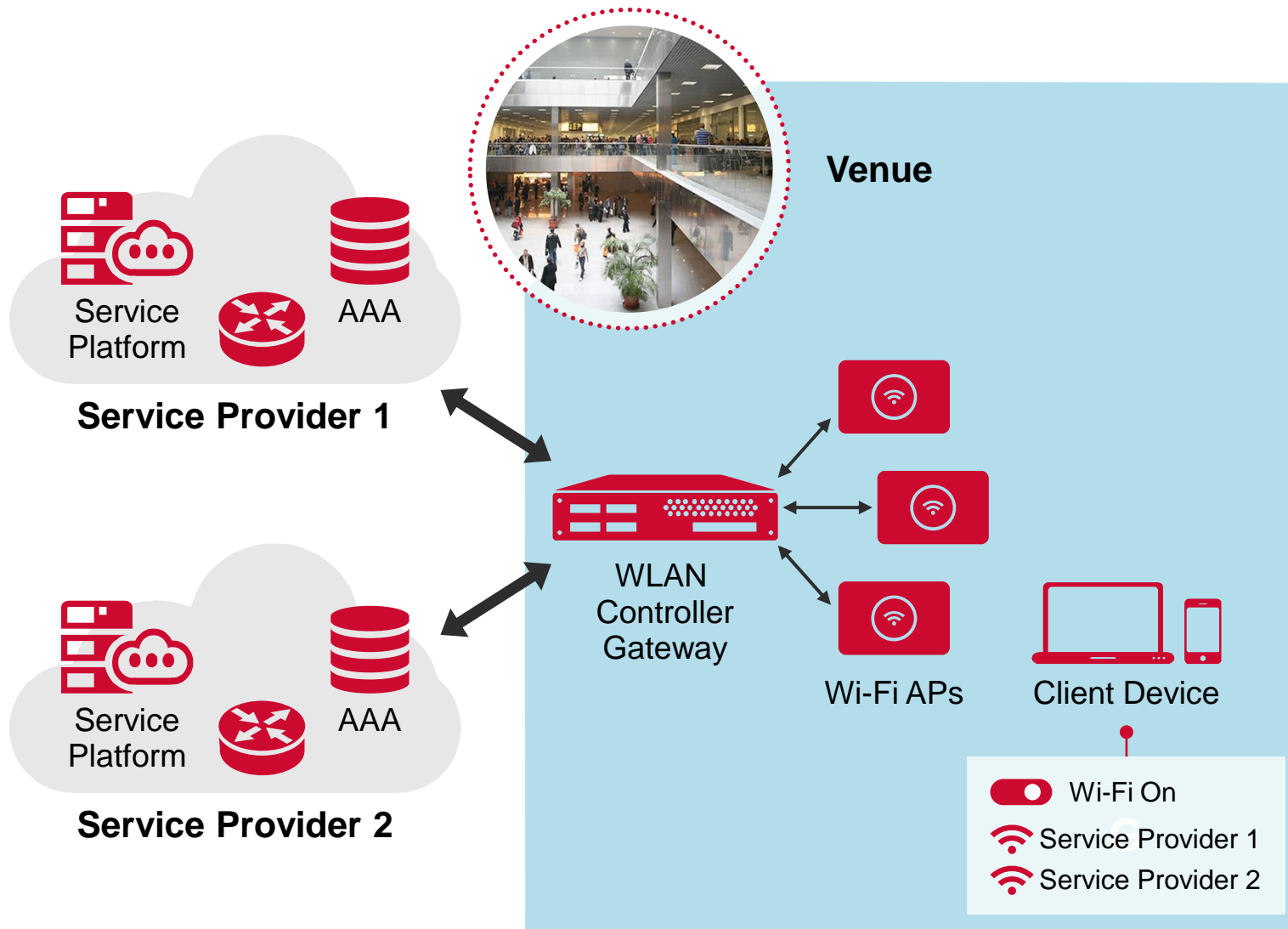
What is Enhanced Mobility?

- Best connectivity experience as devices move within/between coverage of Wi-Fi networks
 - Often in “dense” environments where a large numbers of users are served simultaneously
- Managed mobility within a Wi-Fi network
 - High-speed handover
 - Load balancing between bands and APs
- Selection/aggregation between Wi-Fi (and cellular) networks
- Broadcom solutions enable enhanced mobility and will support upcoming certifications



- Multiband Operations (MBO) [upcoming](#)
- Optimized Connectivity Experience (OCE) [upcoming](#)

Neutral Host Wi-Fi



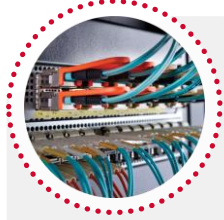
What is Neutral Host Wi-Fi?

- A **single** “neutral host” operator deploys and maintains **physical** Wi-Fi network infrastructure
- **Multiple** service providers can each offer a **virtual** network service over the shared/sliced physical infrastructure
- Each service provider has end-to-end control over service delivery
 - Network discovery (802.11u)
 - User authentication/signup
 - WPA2 carrier-grade security
 - Quality of Service guarantee via end-to-end optimization
- Broadcom solutions enable Neutral Host Wi-Fi, based on



Wi-Fi CERTIFIED Passpoint

Managed Wi-Fi Ecosystem



Operators/SPs

- High capacity
 - Gigabit Wi-Fi service
 - Spectrum access
- Tiered class-of-service
- Flexible deployment
 - Neutral Host
 - Remote/cloud-based management
 - Self-Optimizing Network (SON), diagnostics



Device Vendors

- Compelling, differentiated user experience
- High performance
- Value-added features
 - Location support
 - Analytics
- Power efficiency



End Users

- Quality of experience
 - Speed
 - Reliability
 - Coverage
- Simple configuration
 - Provisioning
 - Always best connected
- Security



Managed Wi-Fi “Umbrella” Certification

- Wi-Fi CERTIFIED Vantage

New features added on rolling release cycle

Baseline PHY/MAC Certifications

- Wi-Fi CERTIFIED ac
- 802.11ax upcoming