

Options for LTE in Unlicensed and Shared Spectrum

LTE-U Forum

3GPP (Release 13)

CBRS Alliance

MulteFire Alliance

LTE-U
(Non-standard,
for non-LBT
markets)

LAA
"LTE – License
Assisted Access"
(Global Standard)

LWA
"LTE – WLAN
Aggregation"
(Global Standard)

CBRS
"Citizens Band
Radio Service"
(US Standard)

MulteFire
(Global Standard)

Augment licensed LTE with unlicensed data 'boost'

Shared Spectrum

Fully unlicensed

- X Closed Forum
- X Duty-cycled (CSAT) approach to channel access

- ✓ 3GPP
- ✓ Improved Wi-Fi coexistence
- ✓ Listen-before-talk

- ✓ 3GPP
- ✓ Complete Wi-Fi coexistence
- ✓ Tunnels LTE data over 802.11

- ✓ Open Alliance
- ✓ Standardized Coordinated Sharing
- ✓ 3GPP TDD LTE

- ✓ Open Alliance
- ✓ Standalone, Unlicensed LTE
- ✓ Builds on 3GPP LAA coexistence

