

TABLE 2 REQUIRED WI-FI-MOBILITY-PERFORMANCE TESTS

Mobile-performance scenario	Wi-Fi-performance metric	Wi-Fi-performance test
Data throughput over range	Data rate, packet loss, error rate	Throughput in megabits per second as a function of distance from a Wi-Fi AP—the position of your office relative to AP, for example
Voice quality over range	Packet loss	Voice quality measurement—PESQ (perceptual-evaluation-of-speech-quality)-based scores—as a function of distance from the Wi-Fi AP, such as talking on the phone in front of the TV or in the kitchen
Data AP roaming	Roaming time, data rate	Roaming time in seconds for failover roam as a handset moves to a new AP because one has failed, such as during a power glitch or network failure; roaming times for smooth roaming as a handset moves between two Wi-Fi APs, such as during walking between work areas
Voice-over-Wi-Fi handover	Roaming time, packet loss, error rate	Number and percentage of voice calls dropped as handset moves between two Wi-Fi APs or transfers from Wi-Fi to cellular networks and vice versa, walking to another part of a building while talking on the phone or moving outside the building; voice-quality measurements—PESQ-based scores when handset moves between two APs or transfers from Wi-Fi to cellular networks and vice versa, such as maintaining call quality when moving around a house or when moving from a garden into a house