

Microsoft Lync Server 2013 Open Interoperability (CS2013-OIP) WiFi Test Results (Mandatory Test Cases)

AP Vendor: Motorola		AP Model: AP7131		Controller Model: NX-9510	
Checklist Items		5.9.1	AP can prioritize voice over video and video over data with WMM and 802.1p tagging enabled.		
		PASS			
4.4.1	AP is certified for 802.11n by WFA.	5.9.2	AP can prioritize voice over video and video over data with WMM tagging disabled and 802.1p tagging enabled.		
PASS		PASS			
4.5.1	AP is certified for WPA2 Enterprise by WFA.	5.9.3	AP can prioritize voice over video and video over data with WMM tagging enabled and 802.1p tagging disabled.		
PASS		PASS			
5.2.1	AP is certified for WMM by WFA.	5.11.1	APs that tunnel all client traffic to controller map DSCP tags from wired Lync end point to DSCP tunnel priority tags.		
PASS		PASS			
5.3.1	AP documentation must disclose how many spatial streams are supported.	5.11.2	APs that tunnel all client traffic to controller map WMM tags to DSCP tunnel priority tags.		
PASS		PASS			
5.5.1	AP supports RF Power Management in a voice/video enabled network.	5.12.1	AP must be able to handle at least one wide band codec voice call with no background traffic.		
PASS		PASS			
5.6.1	AP supports Dynamic Channel Selection.	5.13.1	AP must be able to handle at least one video call with no background traffic.		
PASS		PASS			
Data		5.14.1	AP must be able to handle at least one wide band codec voice call with 150 Mbps downstream UDP traffic.		
		PASS			
4.5.2	WPA2 PSK authentication and association response less than 100ms.	5.15.1	AP must be able to handle at least one wide band codec voice call with saturated upstream UDP traffic.		
PASS		PASS			
4.5.3	WPA2 802.1x authentication and association response less than 250ms.	5.16.1	AP must be able to handle at least one video call with saturated downstream UDP background traffic.		
PASS		PASS			
4.15.1	AP responds with busy signal when it has reached maximum allowable users	5.17.1	AP must be able to handle at least one video call with saturated upstream UDP background traffic.		
PASS		PASS			
4.15.2	WLAN system load balances clients across APs.	5.18.1	AP must be able to handle at least five wide band codec voice calls with 150 Mbps downstream TCP background traffic.		
PASS		PASS			
4.20.1	AP supports WPA2-AES encryption.	5.19.1	AP must be able to handle at least one wide band codec voice call with saturated upstream TCP background traffic.		
PASS		PASS			
4.20.4	AP supports WPA-TKIP encryption.	5.20.1	AP must be able to handle at least one video call with saturated downstream TCP background traffic.		
PASS		PASS			
4.26.1	AP performs rogue AP detection while servicing voice call.	5.21.1	AP must be able to handle at least one video call with saturated upstream TCP background traffic.		
PASS		PASS			
Nomadic		Mobility			
5.3.2	AP has at least two transmit antennas.	6.2.1	AP authenticates roaming client when PMK is enabled on controller/AP.		
PASS		PASS			
5.3.3	AP has at least two receive antennas.	6.3.1	AP ensures fast roaming between APs without affecting call quality when encryption used is 802.1x.		
PASS		PASS			
5.4.1	AP can handle calls in both bands, and support calls that go between bands.	6.3.2	AP ensures fast roaming between APs without affecting call quality when encryption used in PSK.		
PASS		PASS			
5.7.1	WLAN does not cause degradation of call quality while doing intrusion prevention.	6.5.1	AP causes no more than 50ms jitter and delay no more than 1% packet loss while roaming between APs		
PASS		PASS			
5.8.1	AP maps 802.11e (WMM) priority tag for video traffic to 802.1p priority tag.	6.5.2	AP causes delay of no more than 100ms when roaming between APs under maximum load		
PASS		PASS			
5.8.2	AP maps 802.11e (WMM) priority tag for voice traffic to 802.1p priority tag.	6.6.1	AP causes no more than 1% packet loss while roaming between APs.		
PASS		PASS			

Microsoft Lync Server 2013 Open Interoperability (CS2013-OIP) WiFi Test Results (Optional and Not-Required Test Cases)

AP Vendor: Motorola		AP Model: AP7131	Controller Model: NX-9510
Checklist Items (Optional)		4.17.3	AP remaps incorrect WMM/DSCP tags on wireless inbound voice traffic to 802.1p/DSCP tags on network interface.
4.2.1	AP is certified for 802.11a by WFA.	4.17.4	AP/controller retags incorrectly tagged voice/video traffic from network with correct DSCP/WMM tags on wireless.
PASS			
4.3.1	AP is certified for 802.11g by WFA.	4.18.1	Video call quality is not affected with data traffic shaping enabled.
PASS			
4.7.1	AP supports Power Over Gigabit Ethernet (802.3af).	4.18.2	Voice call quality is not affected with data traffic shaping enabled.
PASS			
4.8.1	AP and controller must support IPv6 in hardware or software.	4.19.1	AP prioritizes untagged SIP TLS traffic from the network over any other traffic type under full congestion.
PASS			
4.21.1	AP is FIPS 140-2 accredited for government applications.	4.19.2	AP prioritizes untagged SIP TLS traffic from the WLAN over any other traffic type under full congestion.
PASS			
4.22.1	AP is HIPAA compliant for healthcare applications.	4.20.2	AP supports WPA2-TKIP encryption.
PASS		PASS	
4.23.1	AP is PCI compliant for applications requiring financial applications.	4.20.3	AP supports WPA-AES encryption.
PASS			
4.24.1	AP has a built-in ICSA certified firewall.	5.10.1	Existing call quality is not affected when a new call is made through a fully loaded AP.
PASS			
6.8.1	AP is WFA Mobile Multimedia certified.	6.3.3	AP ensures fast roaming without affecting call quality when roaming between controller/APs in different subnets.
PASS		PASS	
6.9.1	AP is WFA Voice Enterprise (V-E) certified.	6.4.1	AP supports efficient roaming with AP assisted handoff.
Data / Nomadic / Mobility (Optional)		6.7.1	AP broadcasts channel load information in beacon and probe response frames when QBSS is enabled.
		PASS	
4.3.2	AP supports 802.11g operation.	Data / Nomadic / Mobility (Not-Required)	
PASS			
4.6.1	AP supports 802.11n 40Hz wide channel with channel bonding.	4.11.1	AP generates session logs with session details.
PASS			
4.7.1	AP supports Power Over Ethernet (802.3af).	4.12.1	WLAN solution can identify client's location and past roaming history.
PASS		PASS	
4.8.2	AP can handle calls when both IPv4 and IPv6 are enabled.	4.12.2	WLAN solution displays RF coverage heat maps in the 2.4GHz spectrum.
PASS		PASS	
4.9.1	AP can steer dual band clients towards the 5GHz band during association.	4.12.3	WLAN solution displays RF coverage heat maps in the 5GHz spectrum.
PASS		PASS	
4.10.1	AP can detect and display the source of interference on a channel.	4.13.1	AP logs should specify a voice call as such in the logs.
PASS			
4.10.2	AP can determine the category of interference on a channel.	4.13.2	AP should be able to distinguish voice video from data sessions.
PASS			
4.16.1	AP classifies untagged video traffic from network inbound to WLAN.	4.14.1	Lync end points transmitting at different speeds have better throughput with Air Time Fairness enabled in the 2.4GHz band.
		PASS	
4.16.2	AP classifies untagged voice traffic from network inbound to WLAN.	4.14.2	Lync end points transmitting at different speeds have better throughput with Air Time Fairness enabled in the 5GHz band.
		PASS	
4.16.3	AP classifies untagged video traffic from WLAN inbound to network.	4.14.3	802.11n performance is not penalized in network with a higher percentage of legacy clients when ATF is enabled.
		PASS	
4.16.4	AP classifies untagged voice traffic from WLAN inbound to network.	4.14.4	QoS is media aware and does not degrade the quality of Lync calls.
		PASS	
4.17.1	AP remaps incorrect 802.1p/DSCP tags on voice traffic to WMM/DSCP tags.	4.25.1	WLAN can detect and quarantine clients duplicating IP addresses.
4.17.2	AP remaps incorrect 802.1p/DSCP tags on video traffic to WMM/DSCP tags.		

