

## CLIENT DEVICE INTEROPERABILITY TEST RESULTS

Document Version: v1.0		
Client Device Details		
<b>Client Device Make</b>	<b>Dell</b>	
<b>Client Device Type</b>	<b>Laptop</b>	
Client Device Model	Dell Latitude 7490 with Intel AX210	
Client Device OS type	Windows 11 with Driver version: 22.80	
Tested Client Device NIC capability	11ax, 2 spatial stream	
Test Configuration		
Aruba OS Version	8.9.0.0-81161	
Access Point	AP515, AP535, AP635	
Basic Wi-Fi Interoperability Test and Capability Results		
Feature	Support	Capability Details
Association		
Supported Encryption Opmodes	✓	Open, Mac Auth, Open WEP, PSK(TKIP/AES), Enterprise (TKIP/AES), Mixed (PSK/AES)
Channels		
2.4 GHz Radio	✓	2.41 ... 2.48 GHz; depending on the country approvals (channels 1-13)
5 GHz Radio	✓	4.9 ... 5.8 GHz; depending on the country approvals (Channels 36-165)
Roaming		
Opportunistic Key Caching (OKC)	✓	OKC Capable
Fast Transition (802.11r)	✓	FT supported with Enterprise SSID
Protocols		
BSS Transition (802.11v)	✓	Supports BSS Transition
WMM Client ( 802.11e)	✓	802.11e Capable
WMM-PS (U-APSD)	✗	Client Does not support U-APSD Power Save
Radio Resource Management (802.11k)	✓	802.11k Capable
Management Frame Protection (802.11w)	✓	MFP-Capable and MFP-Required
802.11h and 802.11d	✓	DFS and TPC capable
WPA3 Capabilities		
OWE	✓	OWE Capable
WPA3-SAE	✓	SAE Capable
WPA3-CCM-128	✓	WPA3-CCM-128 Capable
WPA3-SuiteB	✓	Suite-B Capable

WPA3-AES-GCM-256	X	Not Supported
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Roaming with WPA3		
SAE+11r	X	Not supported by client
WPA3-CCM-128 + 11r	✓	Capable of WPA3-CCM-128 + 11r
Suite-B +11r	X	Not supported
WPA3-AES-GCM256 + 11r	X	Not Supported
802.11ax Client Capabilities		
802.11ax Capable	✓	11ax Capable
DL-OFDMA	✓	Capable of transmitting OFDMA frames
UL-OFDMA	✓	Capable of receiving OFDMA frames
DL MU-MIMO	✓	Capable of transmitting HE MU-MIMO frames
UL MU-MIMO	✓	Capable of receiving HE MU-MIMO frames
TWT Capable	✓	Individual TWT supported
1024 QAM Capable	✓	All rates up to MCS 11 supported in both Tx and Rx
WIFI 6E		
6E Capable	✓	6E Capable Client
Notes and Additional Comments		

**NOTE:** Client Device may support a superset of the above capabilities

**ABBREVIATIONS:** NR: Neighbor Report; BR: Beacon Report; LM: Link Measurement, TSM: Transmit Stream Measurement, MFP: Management Frame Protection, FT: Fast Transition, OKC: Opportunistic Key Caching, DFS: Dynamic Frequency Selection, TPC: Transmit Power Control, DL: Downlink, UL: Uplink, TWT: Target Wake Time, OFDMA: Orthogonal Frequency Division Multiple Access