

Implementing Cisco Wireless Advanced Solutions v1.2 (300-120)

Exam Description: Implementing Cisco Wireless Advanced Solutions v1.2 (WLSI 300-120) is a 90-minute exam associated with the CCNP Wireless Certification. This exam certifies a candidate's knowledge of wireless network implementation including FlexConnect, QoS, Multicast, advanced location services, security for client connectivity, monitoring and device hardening. The course, [Implementing Cisco Enterprise Wireless Networks](#), helps candidates prepare for this exam.

The following topics are general guidelines for the content likely to be included on the exam. However, other related topics may also appear on any specific delivery of the exam. To better reflect the contents of the exam and for clarity purposes, the guidelines below may change at any time without notice.

15%	1.0	FlexConnect
	1.1	Deploy FlexConnect components such as switching and operating modes
	1.2	Deploy FlexConnect capabilities
	1.2.a	FlexConnect groups and roaming
	1.2.b	Split tunneling and fault tolerance
	1.2.c	VLAN-based central switching and Flex ACL
	1.2.d	Smart AP image upgrade
	1.3	Implement Office Extend
10%	2.0	QoS on a Wireless Network
	2.1	Implement QoS schemes based on requirements including wired to wireless mapping
	2.2	Implement QoS for wireless clients
	2.3	Implement AVC
10%	3.0	Multicast
	3.1	Implement multicast components
	3.2	Describe how multicast can affect wireless networks
	3.3	Implement multicast on a WLAN
	3.4	Implement mDNS
	3.5	Implement Multicast Direct
10%	4.0	Location Services
	4.1	Deploy CMX and Cisco Spaces on a wireless network
	4.2	Implement location services
	4.2.a	client tracking
	4.2.b	RFID tags (tracking only)
	4.2.c	Interferers
	4.2.d	Rogue APs
	4.2.e	Clients
10%	5.0	Advanced Location Services

- 5.1 Implement CMX and Cisco Spaces components
 - 5.1.a Detect and locate
 - 5.1.b Analytics
 - 5.1.c Presence services
 - 5.1.d Captive portals
 - 5.1.e Connectors
- 5.2 Implement location-aware guest services using custom portal and social media Wi-Fi
- 5.3 Troubleshoot location accuracy
- 5.4 Troubleshoot CMX and Cisco Spaces Connector high availability
- 5.5 Implement wIPS using Cisco Catalyst Center (formerly Cisco DNA Center)

- 20% 6.0 Security for Wireless Client Connectivity**
 - 6.1 Configure client profiling on WLC and ISE
 - 6.2 Implement BYOD and guest
 - 6.2.a CWA using ISE (including self-registration portal)
 - 6.2.b LWA using ISE or WLC
 - 6.2.c Native supplicant provisioning using ISE
 - 6.2.d Certificate provisioning on the controller
 - 6.3 Implement client security on different wireless architectures and ISE
 - 6.4 Implement Identity-Based Networking on different wireless architectures (VLANs, QoS, ACLs)

- 15% 7.0 Monitoring**
 - 7.1 Utilize reports on Cisco Catalyst Center
 - 7.2 Manage alarms and rogues (APs and clients)
 - 7.2.a WLC
 - 7.2.b Cisco Catalyst Center
 - 7.3 Manage RF interferers
 - 7.3.a WLC
 - 7.3.b Cisco Catalyst Center
 - 7.4 Troubleshoot client connectivity
 - 7.4.a WLC
 - 7.4.b ISE
 - 7.4.c Cisco Catalyst Center

- 10% 8.0 Device Hardening**
 - 8.1 Implement device access controls (including RADIUS and TACACS+)
 - 8.2 Implement access point authentication (including 802.1X)
 - 8.3 Implement Control Plane ACLs on the controller