

Mist Integration with ISE for EAP



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Mist AP Configuration

1) WLAN Configuration

a. Network -> WLAN -> Add WLANs





b. Create an WLAN with Security 802.1x

SSID Test-Dot1x	Security O WPA-2/PSK with passphrase Reveal
Labels +	 WPA-2/EAP (802.1X) Open Access More Options Fast Roaming
• Enabled Disabled	 Default Opportunistic Key Caching (OKC) .11r
Hide SSIDNo Static IP Devices	RadSec
Radio Band	 Enabled Oisabled RADIUS Authentication Servers
Client Inactivity	10.2.2.30 : 1812
Drop inactive clients after 1800 seconds	54.175.176.99 : 1812
	Add a Server



- c. Add the Radius Server of Choice (RadSec is disabled when not used)
 - i. Click on the Radius server and it will provide an option to input the Radius Server details (IP, Port, Shared Secret) which would be the ISE server IP and port details
 - ii. You would also have the option of adding a secondary-server/tertiary servers
 - iii. You will also be edit the order of the preference for servers using the arrow keys place beside them.

Hostname	Port
10.2.2.30	1812
Shared Secret	
xxxxxxxx	



ISE CONFIGURATION

- 1) Get the Radius Client IP, in our case the Mist Access Point IP
 - a. From the Access Point tab, select the access point of interest and get the IP of the AP under the Status tab
- You could also use a subnet of AP IP addresses if you would choose to do so in ISE
 - 2) Under ISE > Administration -> Network Devices -> Add Network Device

dentity Services Engine	Home Context Visibility Operations Policy Administration Work Centers
System Identity Management	Network Resources Device Portal Management pxGrid Services Feed Service PassiveID Threat Centric NAC
Network Devices Network Device	Groups Network Device Profiles External RADIUS Servers RADIUS Server Sequences NAC Managers External MDM + Location Services
Network devices	Network Devices List > New Network Device
Default Device	Network Devices IVIIST AP INAME
	Name WLC-backbone
	Description
	* IP Address: 10.201.228.93 + 32 AP IP address with /32 OR
	Subnet of AP IP with right Mask
	* Device Profile 🛛 😹 Cisco 💌 🕀
	Model Name
	Software Version
	* Network Device Group
	Device Type All Device Types 📀 Set To Default
	Location All Locations 📀 Set To Default
	✓ RADIUS Authentication Settings
	Enable Authentication Settings
	Protocol RADIUS Under Radius Auth
	Shared Secret show Settings – Input Radiu
	Enable KeyWrap 🗌 🕡 Shared secret
	* Key Encryption Key Show
	* Message Authenticator Code Key Show
	Key Input Format ASCII HEXADECIMAL
	CoA Port 1700 Set To Default



Dynamic VLAN Configuration

tatic VLAN ID		
(1 - 4094)		
/LAN Type Airespace	e (airespace-interface-nam	e) 🔻
Dynamic VLAN ID	Interface Name(s)	
101	Employee	Ŵ
102	Contractor	Ŵ
103	Guest	Û
		Ŵ
		Û

- Use DNAC/ISE to provision IP-SGT/VLAN-SGT bindings and push it down to the edge node/switches.
- ISE would push down dynamic VLANs based on the role of the client associating and Mist AP would place the clients on the respective VLANs
- Once the client traffic reaches the Edge node/Switch, the enforcement of the policy occurs here. The source IP/VLAN of the client corresponds to respective SGTs. Based on this the policy enforcement or SGACLs rule apply to this particular traffic – still leaving policy definition at a single point: ISE.