

ISE و PEAP مادختساب 802.1X ۋ ئىوكت 2.1 و WLC 8.3

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قىدمىقا

زوجات عم (WLAN) ۋ ئىكلسال ۋە ئىلحەم دادعى ۋېفىيەك دنتسەملا اذە حضوی 802.1x Security and Virtual Local Area Network (VLAN).

قىس اس آلە تابل طتەتمە

تابل طتەتمە

قىس اس اوملاب ۋە فەرمۇم كىدىل نوكت نأب Cisco يىصوٽ:

- 802.1x
- يەمەن ئەسۋەتەملا ۋە ئىوكتورپ (PEAP)
- تاداھشلا ئۆيىھە (CA)
- تاداھشلا

ةمدى سملاتان وكملا

ةيلاتلا ةيداملا تانوكملأا وجماربلا تارادصإ إلإ دنتسملا اذه يف ةدراولا تامولعملاء دنتسست:

- WLC v8.3.102.0
- Identity Service Engine (ISE) v2.1
- زارت لومحملارتوبيكملا Windows 10

ةصالخ ةيلمعم ةئيب يف ةدوچوملا ۆزهجألا نم دنتسملا اذه يف ةدراولا تامولعملاء عاشنامت تناك اذا .(يضارتفا) حوسمم نيكوتتب دنتسملا اذه يف ةمدختسملا ۆزهجألا عيمج تأدب رمأ يأ ل متحملاريا ثأتلل كمهف نم دكأتف ،ليغشتلا ديق كتكبش.

ةيساسأ تامولعم

ةيرهاظ ةيلحم ةكبش و 802.1x نيمأت عم (WLAN) ةيكليسال ةيلحم ةكبش دادعاب موقعت امدنع عسوم ةقداصم لوكوتوربك يمحملاء سوتتملا ةقداصملا لوكوتوربب زواجتلارنكامي ، (EAP).

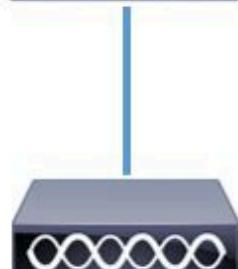
نيوكتلاء

ةكبش لليطي طختلا مسرلا

ISE v2.1



WLC v8.3



Win10

نیوکتل

يە ۆماعلە تاوەتھەلە:

1. ۆيكلساللا ۆيلحەلە ۆكبسلا يف مكحتلا رصەنە ىلع RADIUS مداخ راھەن.
2. ۆيلحەلە ۆكبسلا يف مكحتلا رصەنە يف (SSID) ۆمەدەللا ۆعومجم فرعم ئاشناب مەق ۆيكلساللا (WLC).
3. ىلع ۆقداصەلە ۆدعاق ئاشناب مەق ISE.
4. ىلع لىيۇختلا فيرعت فلم ئاشناب مەق ISE.
5. ىلع لىيۇختلا ۆدعاق ئاشناب مەق ISE.
6. ئەهەنلا ۆطقەن نیوکتب مەق.

رەنە ىلع RADIUS مداخ نالعە

رەنە ىلع RADIUS مداخ لىيچىست كەمىزلىي، RADIUS مداخ نىب لاصەتالاب حامسلل سكعالو.

GUI:

ۆكبسلا يف مكحتلا ۆدھوب ۆصالخە (GUI) ۆيموسرلا مەختىسىملا ۆھجاتەتەفا. 1. ۆوطخەلە امك دىدج > ۆقداصەلە > نامەلە ىلەلۈچەلە حەفصەت (WLC) ۆيكلساللا ۆيلحەلە ۆروصلە يف حەضووم وە.



ۆروصلە يف حەضووم وە امك RADIUS مداخ تامولۇم لاخداپ مەق. 2. ۆوطخەلە.

RADIUS Authentication Servers > New

Server Index (Priority)	<input type="text" value="2"/>
Server IP Address(Ipv4/Ipv6)	<input type="text" value="a.b.c.d"/>
Shared Secret Format	<input type="text" value="ASCII"/>
Shared Secret	<input type="text" value="*****"/>
Confirm Shared Secret	<input type="text" value="*****"/>
Key Wrap	<input type="checkbox"/> (Designed for FIPS customers and requires a key wrap compliant RADIUS server)
Port Number	<input type="text" value="1812"/>
Server Status	<input type="text" value="Enabled"/>
Support for CoA	<input type="text" value="Disabled"/>
Server Timeout	<input type="text" value="10"/> seconds
Network User	<input checked="" type="checkbox"/> Enable
Management	<input checked="" type="checkbox"/> Enable
Management Retransmit Timeout	<input type="text" value="2"/> seconds
IPSec	<input type="checkbox"/> Enable

CLI:

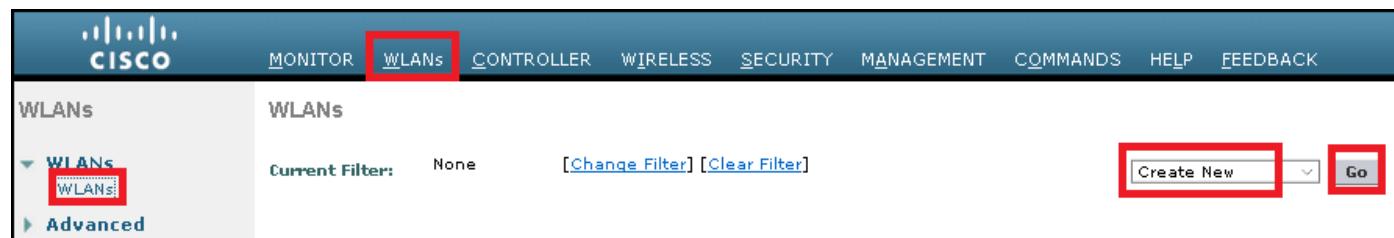
```
> config radius auth add <index> <a.b.c.d> 1812 ascii <shared-key>
> config radius auth disable <index>
> config radius auth retransmit-timeout <index> <timeout-seconds>
> config radius auth enable <index>
```

<a.b.c.d> مداخ لثامي RADIUS.

ءاشنإ SSID

GUI:

ةكبشلا يف مكحتملا ٽدحوب ٽصاخلا (GUI) ٽيموسرلا مدخلتسملأا ٽهجاوحتفا 1. ٽوطخلأا حضوم وه امك لاقتننا > ديدج ءاشنإ WLAN تاكبشنيلإ لقتنانو (WLC) ٽيكلساللا ٽيلحملأا روصلأا يف.



ةروصلأا يف حضوم وه امك قيي بطت ىلع رقنا مث SSID فيصوتل مسا رتخأ. 2. ٽوطخلأا

WLANs > New

< Back **Apply**

Type	WLAN
Profile Name	profile-name
SSID	SSID-name
ID	2

CLI:

```
> config wlan create <id> <profile-name> <ssid-name>
```

3. ۋە ئەنچەمدا RADIUS مىخالىقىندا ئىللىكىندا WLAN ۋە ئەنچەمدا RADIUS مىخالىقىندا ئىللىكىندا WLAN.

CLI:

```
> config wlan radius_server auth add <wlan-id> <radius-index>
```

GUI:

وە امك قىيىبىتتىندا RADIUS مىخالىقىندا AAA مىخالىقىندا ئىللىكىندا ئىللىكىندا RADIUS مىخالىقىندا AAA مىخالىقىندا ئىللىكىندا ئىللىكىندا لېلىرىنىڭ ئەرەپچىسى.

WLANs > Edit 'ise-prof'

General Security QoS Policy-Mapping Advanced

Layer 2 Layer 3 AAA Servers

Select AAA servers below to override use of default servers on this WLAN

RADIUS Servers

RADIUS Server Overwrite interface Enabled

Authentication Servers	Accounting Servers	EAP Parameters
<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	Enable <input type="checkbox"/>
Server 1 IP:172.16.15.8, Port:1812	None	
Server 2 None	None	
Server 3 None	None	
Server 4 None	None	
Server 5 None	None	
Server 6 None	None	

RADIUS Server Accounting

Interim Update Interim Interval Seconds

يراجعت خالك شب ةسلجلا ةلهم ةدایزو AAA زجاجت بح امسلا نيكمنتب مق. 4. ۋوطخلما

CLI:

```
> config wlan aaa-override enable <wlan-id>
> config wlan session-timeout <wlan-id> <session-timeout-seconds>
```

GUI:

ةمدقتم تارايخ > (WLAN) ةيكلساللا ةيلحملاءكبشلا فرعم > تاكبش يلى لقتنان روصىلا يف حضوم وەامك ةسلجلا ةلهم ايراجت خاددح. AAA زجاجت بح امسلا نيكمنت.

General	Security	QoS	Policy-Mapping	Advanced																																																												
<table border="1"> <tr> <td>Allow AAA Override</td> <td><input checked="" type="checkbox"/> Enabled</td> <td colspan="3"></td> </tr> <tr> <td>Coverage Hole Detection</td> <td><input checked="" type="checkbox"/> Enabled</td> <td colspan="3"></td> </tr> <tr> <td>Enable Session Timeout</td> <td><input checked="" type="checkbox"/> 28800</td> <td>Session Timeout (secs)</td> <td colspan="2"></td> </tr> <tr> <td>Aironet IE</td> <td><input checked="" type="checkbox"/> Enabled</td> <td colspan="3"></td> </tr> <tr> <td>Diagnostic Channel 18</td> <td><input type="checkbox"/> Enabled</td> <td colspan="3"></td> </tr> <tr> <td>Override Interface ACL</td> <td>IPv4 <input type="button" value="None"/></td> <td>IPv6 <input type="button" value="None"/></td> <td colspan="2"></td> </tr> <tr> <td>Layer2 Adl</td> <td><input type="button" value="None"/></td> <td colspan="3"></td> </tr> <tr> <td>URL ACL</td> <td><input type="button" value="None"/></td> <td colspan="3"></td> </tr> <tr> <td>P2P Blocking Action</td> <td>Disabled</td> <td colspan="3"></td> </tr> <tr> <td>Client Exclusion 2</td> <td><input checked="" type="checkbox"/> Enabled 60</td> <td>Timeout Value (secs)</td> <td colspan="2"></td> </tr> <tr> <td>Maximum Allowed Clients 8</td> <td><input type="button" value="0"/></td> <td colspan="3"></td> </tr> <tr> <td>Static IP Tunneling</td> <td><input type="checkbox"/> . . .</td> <td colspan="3"></td> </tr> </table>					Allow AAA Override	<input checked="" type="checkbox"/> Enabled				Coverage Hole Detection	<input checked="" type="checkbox"/> Enabled				Enable Session Timeout	<input checked="" type="checkbox"/> 28800	Session Timeout (secs)			Aironet IE	<input checked="" type="checkbox"/> Enabled				Diagnostic Channel 18	<input type="checkbox"/> Enabled				Override Interface ACL	IPv4 <input type="button" value="None"/>	IPv6 <input type="button" value="None"/>			Layer2 Adl	<input type="button" value="None"/>				URL ACL	<input type="button" value="None"/>				P2P Blocking Action	Disabled				Client Exclusion 2	<input checked="" type="checkbox"/> Enabled 60	Timeout Value (secs)			Maximum Allowed Clients 8	<input type="button" value="0"/>				Static IP Tunneling	<input type="checkbox"/> . . .			
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5. ۋەطخىلا WLAN ۋە كېپش نىكىمتب مۇق.

CLI:

```
> config wlan enable <wlan-id>
```

GUI:

يىف حضوم وە امك SSID نىكىمتب مۇق و ماع > WLAN > تاكىپش فرعىم > WLAN ۋە كېپش نىكىمتب مۇق.

WLANS > Edit 'ise-prof'

[Apply](#)

General **Security** **QoS** **Policy-Mapping** **Advanced**

Profile Name	ise-prof
Type	WLAN
SSID	ise-ssid
Status	<input checked="" type="checkbox"/> Enabled
Security Policies [WPA2][Auth(802.1X)] (Modifications done under security tab will appear after applying the changes.)	
Radio Policy	All
Interface/Interface Group(G)	management
Multicast Vlan Feature	<input type="checkbox"/> Enabled
Broadcast SSID	<input checked="" type="checkbox"/> Enabled
NAS-ID	none

نالع WLC ىلع ISE

فاصلا > ةكبشلا ۆزهجأ > ةكبشلا دراوم > ۆرادإلا ىلإ لقتناو ISE مكحت ۆدحوحتفا. 1. ۆوطخلو ۆروصلالا يف حضوم وە امك.

Identity Services Engine

[Administration](#)

Network Resources

Network Devices

[Add](#)

ميقلا لاخداي مق. 2. ۆوطخلو.

تاعومجم نيعتو فصو واجمانرب رادصا واددم زارت مسا نوكى نأ نكمى، يرايتخا لکشب و ئيلحملالا ةكبشلا يف مكحتلا تاودوا واعقوملا و ۆزهجالا عونأ ىلإ ادانتسا ةكبشلا ۆزهجا (WLC).

يە نوكىت، يضارتفا لکشب. ۆبولطملا ۆقادصلالا لسرت يتللا WLC ۆهجاو عم a.b.c.d ۆفاوتي ۆروصلالا يف حضوم وە امك ۆرادإلا ۆهجاو.

Network Devices List > New Network Device

Network Devices

* Name WLC-name

Description optional description

* IP Address: a.b.c.d / 32

* Device Profile Cisco

Model Name wlc-model

Software Version wlc-software

* Network Device Group

Device Type WLCs-2504 Set To Default

Location All Locations Set To Default

WLCs WLCs Set To Default



RADIUS Authentication Settings

Enable Authentication Settings

Protocol RADIUS

* Shared Secret *****

Show

Enable KeyWrap ⓘ

* Key Encryption Key

Show

* Message Authenticator Code Key

Show

Key Input Format ASCII HEXADECIMAL

CoA Port 1700

Show

ةكبشلا ۆزهجأ تاعومجم لوح تامولعملانم ديزم ىلع لوصحلل:

[ISE - ۆكبسلا ۆزهجأ تاعومجم](#)

اىل ديدج مدخلت سم عاشننا ISE

يـف حـضـوم وـه اـمـك ةـفـاضـاـنـا > نـيـمـدـخـتـسـمـ > تـايـوـهـ > ةـرـادـاـ > ةـرـادـاـ اـىـلـاـ لـقـتـنـاـ 1ـ.ـ وـطـخـلـاـ ةـروـصـلـاـ.

The screenshot shows the Cisco Identity Services Engine (ISE) web interface. At the top, there's a navigation bar with links like Home, Context Visibility, Operations, Policy, System, Identity Management, Network Resources, Device Portal Management, and Settings. A red box highlights the 'Administration' dropdown menu. Under 'Administration', another red box highlights the 'System' section, which includes options like Deployment, Licensing, Certificates, Logging, Maintenance, Upgrade, Backup & Restore, Admin Access, and Settings. A third red box highlights the 'Identity Management' section, specifically the 'Identities' tab under 'Users'. On the left, there's a sidebar with 'Latest Manual Network Scan Res...' and a 'Users' button. The main content area is titled 'Network Access Users' and shows a table with columns for Status, Name, and Description. A message 'Loading...' is displayed below the table. At the top of the users table, there are buttons for Edit, Add (which is highlighted with a red box), Change Status, Import, and Export.

تـامـولـعـمـلـاـ لـخـدـأـ 2ـ.ـ وـطـخـلـاـ.

هـطـبـضـ نـكـمـيـ نـكـلـوـ،ـ اـمـسـتـ ةـعـوـمـجـمـ اـذـهـ يـمـتـنـيـ،ـ لـاثـمـلـاـ اـذـهـ يـفـ حـضـومـ وـهـ اـمـكـ،ـ ةـجـاحـلـاـ بـسـحـ.

Network Access Users List > New Network Access User

Network Access User

* Name

Status Enabled

Email

Passwords

Password Type: Internal Users

* Login Password

Re-Enter Password

Enable Password

User Information

First Name

Last Name

Account Options

Description

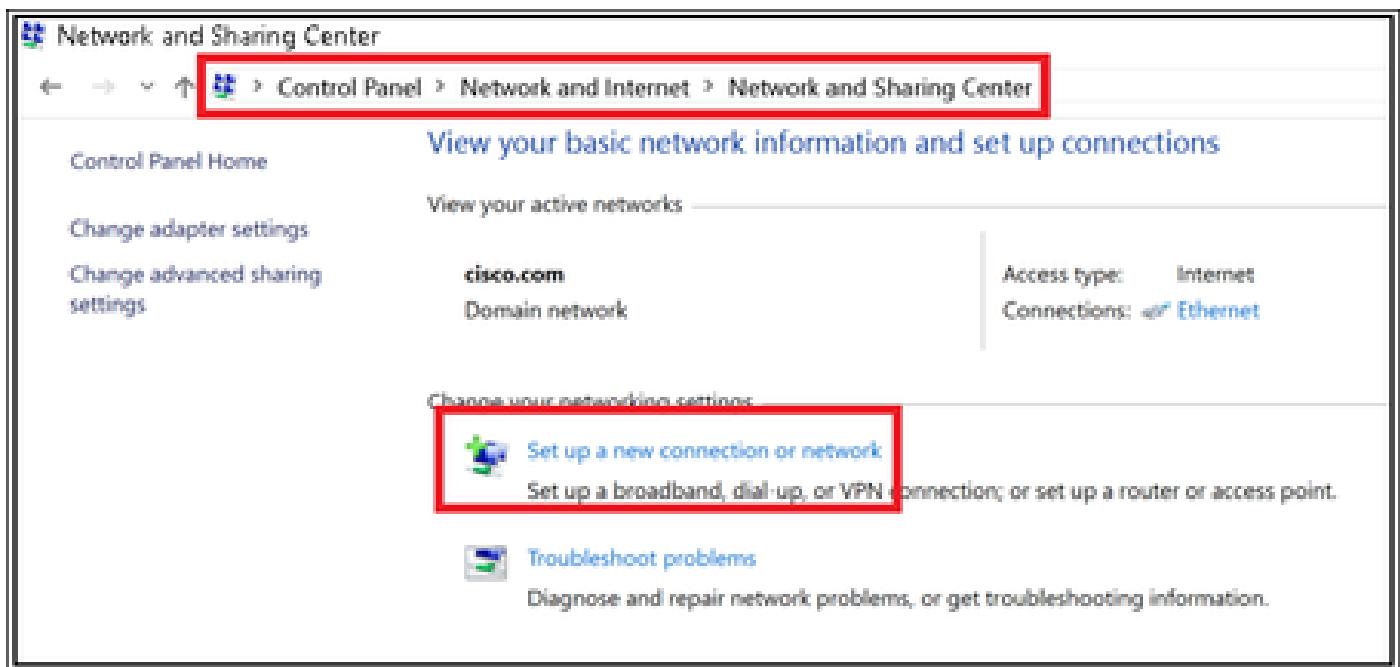
Change password on next login

Account Disable Policy

Disable account if date exceeds

2017-01-21

User Groups



يـف حـضـوم وـه اـمـك يـلـاتـلـا يـلـع رـقـنـا مـث ،ـيـكـلـسـالـ ةـكـبـشـبـ اـيـوـدـيـ لـيـصـوـتـلـا دـدـحـ 3ـ ـةـوـطـخـلـاـ .ـةـرـوـصـلـاـ.

 Set Up a Connection or Network

Choose a connection option

 Connect to the Internet

Set up a broadband or dial-up connection to the Internet.

 Set up a new network

Set up a new router or access point.

 Manually connect to a wireless network

Connect to a hidden network or create a new wireless profile.

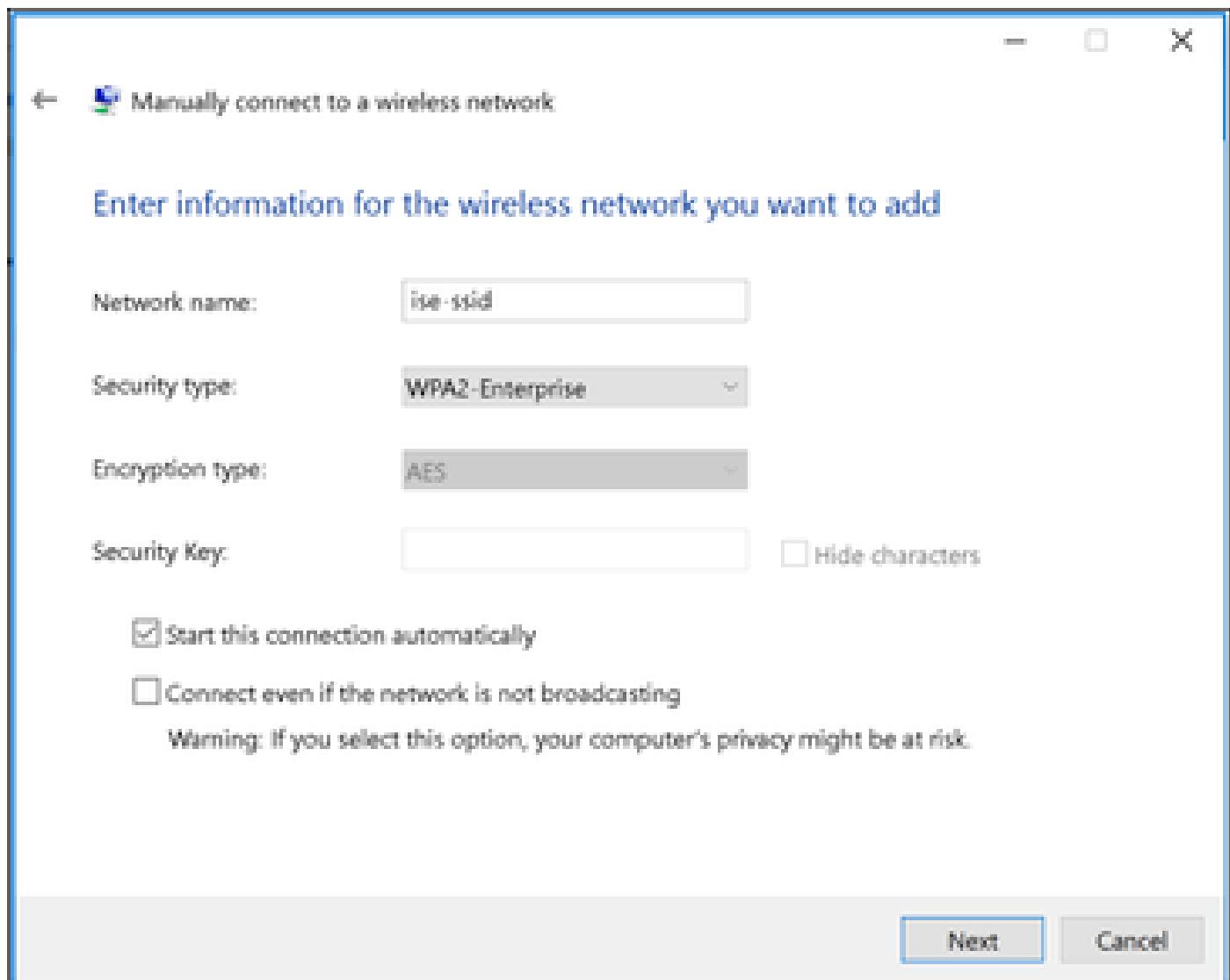
 Connect to a workplace

Set up a dial-up or VPN connection to your workplace.

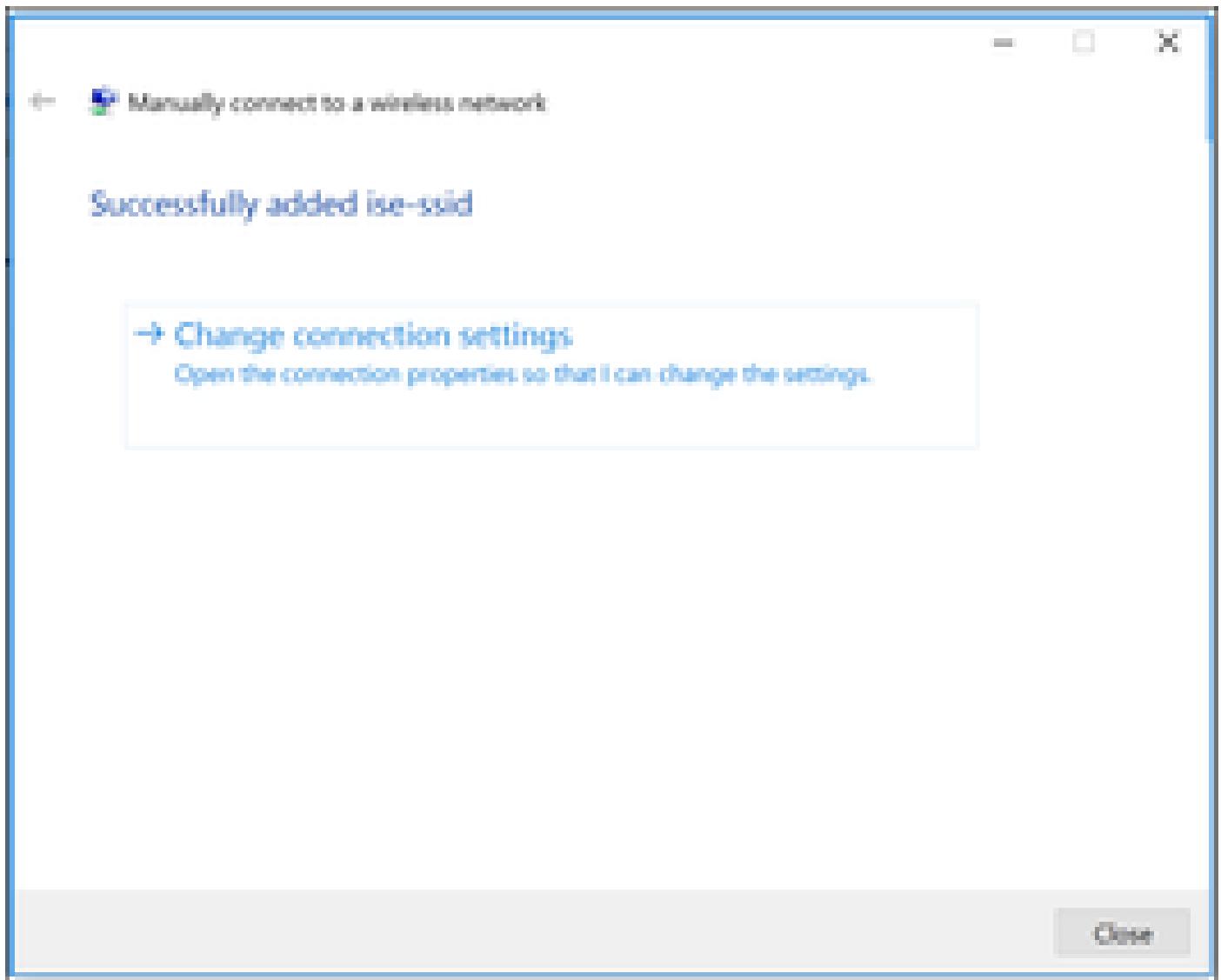
Next

Cancel

وه امك يلاتل رقن او SSID نيمأتلا عون و WPA2-Enterprise مساب تامولعمل لخدا . 4. ووطخل اهروصل اي ف حضوم.



حضم وه امك WLAN فيرعت فلم نيوكت صيصختل لاصتالا تادادع ارييغت ددح 5. ووطخلا روصلا يف.



ةروصلـا يـف حـضـوم وـه اـمـك تـادـاعـإـلـا قـوـف رـقـنـاـو نـامـأـلـا بـيـوبـتـلـا ةـمـالـع ىـلـا لـقـتـنـا 6. ةـوـطـخـلـا.

ise-ssid Wireless Network Properties

X

Connection Security

Security type: WPA2-Enterprise

Encryption type: AES

Choose a network authentication method:

Microsoft: Protected EAP (PEAP)

Settings

Remember my credentials for this connection each time I'm logged on

Advanced settings

OK

Cancel

ال مؤمن بـ RADIUS داخل ناك اذا ام ددح 7. ووطخل

ةحص نم ققحتلا لالخ نم مدخلـا ئـيـوه نـم قـقـحتـلا نـيـكـمـتـبـ مـقـفـ ،ـمـعـنـبـ ئـبـاجـإـلـا تـنـاـكـ اـذـاـيـ.ـاـيـتـاـذـ ئـعـقـوـمـلـا ISE ئـدـاهـشـ ئـمـئـاـقـلـا دـدـحـتـ :ـاهـبـ قـوـثـوـمـلـا رـذـجـلـا ئـقـدـصـمـلـا عـجـارـمـلـا نـمـوـ ئـدـاهـشـلـا.

ىـلـعـ لـوـخـدـلـا لـيـجـسـتـ رـوـرـمـ ئـمـلـكـوـ مـسـا مـادـخـتـسـا لـيـطـعـتـ وـنـيـوـكـتـ دـدـحـ ،ـكـلـذـ دـعـبـ روـصـلـا يـفـ حـضـوـمـ وـهـ اـمـكـ قـفـاـوـمـ وـهـ اـمـكـ ،ـ...ـاـيـئـاـقـلـتـ.

Protected EAP Properties

X

When connecting:

Verify the server's identity by validating the certificate

Connect to these servers (examples: srv1;srv2; *.srv3.com):

Trusted Root Certification Authorities:

Local Computer Certificate
 Local Computer Authority Root Certificate
 Local Computer
 Local Network

EAP-SelfSignedCertificate

Microsoft Default Certificate Store
 Trusted Root Certification Authorities Certificate Store
 Enterprise Root Certificate Store
 Current User Certificate

Notifications before connecting:

Tell user if the server name or root certificate isn't specified



Select Authentication Method:

Secured password (EAP-MSCHAP v2)

Configure...

Enable Fast Reconnect

Disconnect if server does not present cryptobinding TLV

Enable Identity Privacy

OK

Cancel

وقداصمك وقداصملا عض ودبح، ومدقتم تادادع دبح، نامألا بيوبتلابيالعيلاعوجرلا درجمب
وه امك مدخلتسمل وقداصمل ISE اىلعا هنويوكت مت يتلادامتتعالاتانايي بظفح او، مدخلتسملل
روصلایف حضوم.

ise-ssid Wireless Network Properties



Connection Security

Security type: WPA2-Enterprise

Encryption type: AES

Choose a network authentication method:

Microsoft: Protected EAP (PEAP)

Settings

Remember my credentials for this connection each time I'm logged on

Advanced settings

OK

Cancel

Advanced settings



802.1X settings 802.11 settings

Specify authentication mode:

User authentication

Delete credentials for all users

Enable single sign-on for this network

Perform immediately before user logon

Perform immediately after user logon

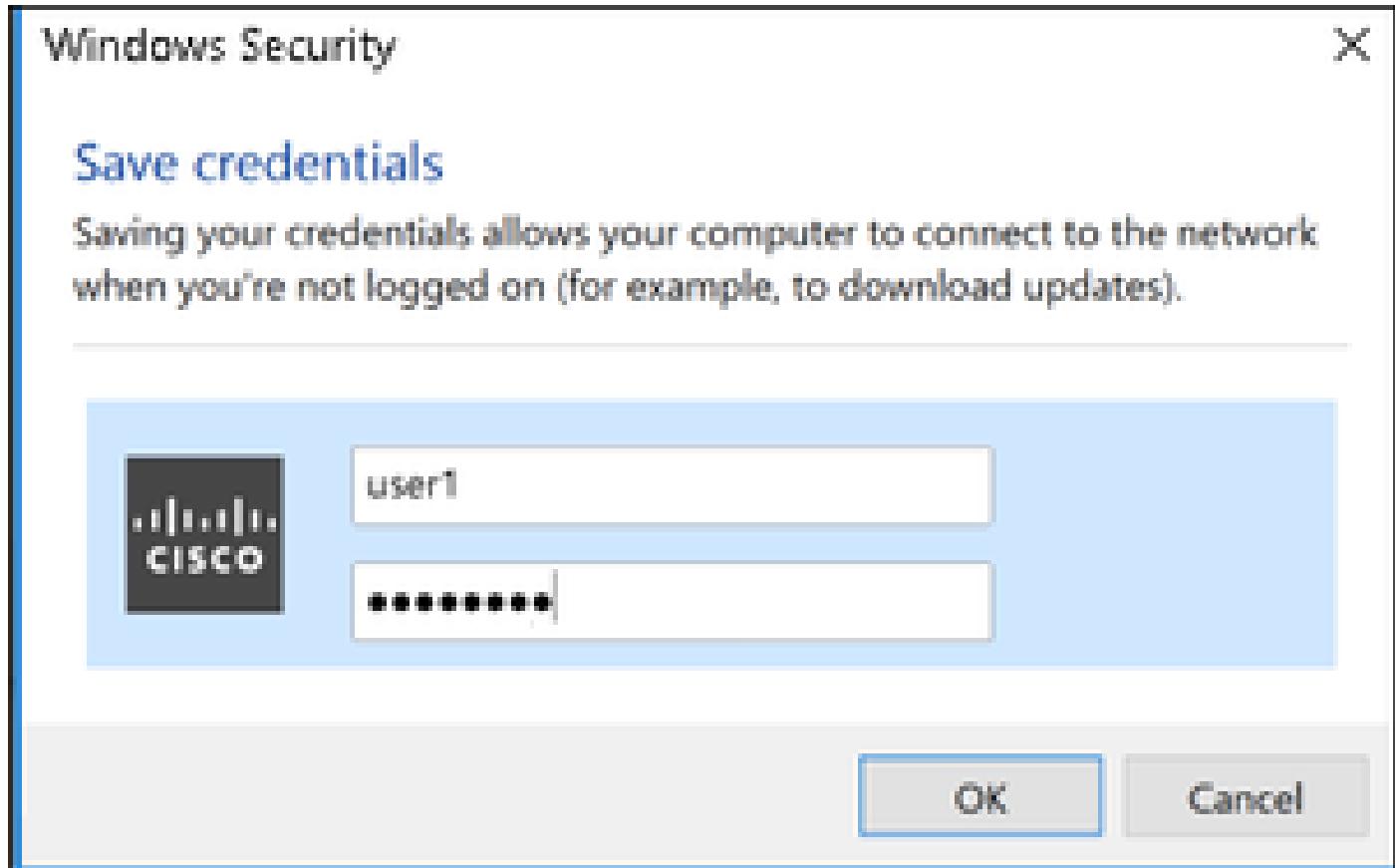
Maximum delay (seconds):

10



Allow additional dialogs to be displayed during single sign-on

This network uses separate virtual LANs for machine and user authentication



ةحصـلـا نـم قـقـحتـلـا

حـيـحـصـ لـكـشـبـ نـيـوـكـتـلـا لـمـعـ دـيـكـأـتـلـ مـسـقـلـا اـذـهـ مـدـخـتـسـاـ.

روـظـنـمـ نـمـ وـأـ WLCـ نـمـ ةـقـدـاصـمـلـا قـفـدـتـ نـمـ قـقـحتـلـا نـكـمـيـ.

ىـلـعـ ةـقـدـاصـمـلـا ةـيـلـمـعـ WLCـ

صـاخـ مـدـخـتـسـمـلـ ةـيـلـمـعـ ةـقـدـاصـمـلـا تـبـقـارـ in order to يـلـاتـ رـمـأـلـا تـضـكـرـ:

```
> debug client <mac-add-client>
> debug dot1x event enable
> debug dot1x aaa enable
```

(تـاجـرـخـمـلـا ضـعـبـ فـذـحـ مـتـ) ةـحـجـانـلـا ةـقـدـاصـمـلـلـ لـاثـمـ:

<#root>

*apfMsConnTask_1: Nov 24 04:30:44.317:

e4:b3:18:7c:30:58 Processing assoc-req station:e4:b3:18:7c:30:58 AP:00:c8:8b:26:2c:d0-00

thread:1a5cc288

*apfMsConnTask_1: Nov 24 04:30:44.317: e4:b3:18:7c:30:58 Reassociation received from mobile on BSSID 00

*apfMsConnTask_1: Nov 24 04:30:44.318: e4:b3:18:7c:30:58 Applying Interface(management) policy on Mobil

```
*apfMsConnTask_1: Nov 24 04:30:44.318: e4:b3:18:7c:30:58 Applying site-specific Local Bridging override
*apfMsConnTask_1: Nov 24 04:30:44.318: e4:b3:18:7c:30:58 Applying Local Bridging Interface Policy for s
*apfMsConnTask_1: Nov 24 04:30:44.318: e4:b3:18:7c:30:58 RSN Capabilities: 60
*apfMsConnTask_1: Nov 24 04:30:44.318: e4:b3:18:7c:30:58 Marking Mobile as non-
e4:b3:18:7c:30:58 Received 802.11i 802.1X key management suite, enabling dot1x Authentication
11w Capable
*apfMsConnTask_1: Nov 24 04:30:44.318: e4:b3:18:7c:30:58 Received RSN IE with 1 PMKIDs from mobile e4:b
*apfMsConnTask_1: Nov 24 04:30:44.319: Received PMKID: (16)
*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 Searching for PMKID in MSCB PMKID cache for mo
*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 No valid PMKID found in the MSCB PMKID cache f
*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 0.0.0.0 START (0) Initializing policy
*apfMsConnTask_1: Nov 24 04:30:44.319:

e4:b3:18:7c:30:58 0.0.0.0 START (0) Change state to AUTHCHECK (2) last state START (0)

*apfMsConnTask_1: Nov 24 04:30:44.319:

e4:b3:18:7c:30:58 0.0.0.0 AUTHCHECK (2) Change state to 8021X_REQD (3) last state AUTHCHECK (2)

*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 0.0.0.0 8021X_REQD (3) Plumbed mobile LWAPP ru
*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 apfMsAssoStateInc
*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 apfPemAddUser2 (apf_policy.c:437) Changing sta
*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 apfPemAddUser2:session timeout for station e4:b
*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 Stopping deletion of Mobile Station: (callerId
*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 Func: apfPemAddUser2, Ms Timeout = 0, Session
*apfMsConnTask_1: Nov 24 04:30:44.320: e4:b3:18:7c:30:58 Sending Assoc Response to station on BSSID 00:
*spamApTask2: Nov 24 04:30:44.323: e4:b3:18:7c:30:58 Successful transmission of LWAPP Add-Mobile to AP
*spamApTask2: Nov 24 04:30:44.325: e4:b3:18:7c:30:58 Received ADD_MOBILE ack - Initiating 1x to STA e4:
*spamApTask2: Nov 24 04:30:44.325: e4:b3:18:7c:30:58

Sent dot1x auth initiate message for mobile e4:b3:18:7c:30:58

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.326: e4:b3:18:7c:30:58 reauth_sm state transition 0 ---> 1 for mob
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.326: e4:b3:18:7c:30:58 EAP-PARAM Debug - eap-params for Wlan-Id :2
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.326: e4:b3:18:7c:30:58 Disable re-auth, use PMK lifetime.
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.326: e4:b3:18:7c:30:58 Station e4:b3:18:7c:30:58 setting dot1x rea
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.326: e4:b3:18:7c:30:58 Stopping reauth timeout for e4:b3:18:7c:30:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.326: e4:b3:18:7c:30:58 dot1x - moving mobile e4:b3:18:7c:30:58 int
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.326:

e4:b3:18:7c:30:58 Sending EAP-Request/Identity to mobile e4:b3:18:7c:30:58 (EAP Id 1)

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.380: e4:b3:18:7c:30:58 Received EAPOL EAPPKT from mobile e4:b3:18:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.380: e4:b3:18:7c:30:58 Received Identity Response (count=1) from mo
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.380: e4:b3:18:7c:30:58 Resetting reauth count 1 to 0 for mobile e4:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.380: e4:b3:18:7c:30:58 EAP State update from Connecting to Authenti
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.380: e4:b3:18:7c:30:58 dot1x - moving mobile e4:b3:18:7c:30:58 into
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.380: e4:b3:18:7c:30:58 Entering Backend Auth Response state for mo
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.380: e4:b3:18:7c:30:58 Created Acct-Session-ID (58366cf4/e4:b3:18:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.386: e4:b3:18:7c:30:58 Processing Access-Challenge for mobile e4:b
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.387: e4:b3:18:7c:30:58 Entering Backend Auth Req state (id=215) for m
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.387: e4:b3:18:7c:30:58 WARNING: updated EAP-Identifier 1 ===> 215
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.387: e4:b3:18:7c:30:58 Sending EAP Request from AAA to mobile e4:b
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.387: e4:b3:18:7c:30:58 Allocating EAP Pkt for retransmission to mo
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.390: e4:b3:18:7c:30:58 Received EAPOL EAPPKT from mobile e4:b3:18:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.390: e4:b3:18:7c:30:58 Received EAP Response from mobile e4:b3:18:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.390: e4:b3:18:7c:30:58 Resetting reauth count 0 to 0 for mobile e4:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.390: e4:b3:18:7c:30:58 Entering Backend Auth Response state for mo
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.393: e4:b3:18:7c:30:58 Processing Access-Challenge for mobile e4:b
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.393: e4:b3:18:7c:30:58 Entering Backend Auth Req state (id=216) for m
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.393: e4:b3:18:7c:30:58 Sending EAP Request from AAA to mobile e4:b
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.393: e4:b3:18:7c:30:58 Reusing allocated memory for EAP Pkt for re
```

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.530:

e4:b3:18:7c:30:58 Processing Access-Accept for mobile e4:b3:18:7c:30:58

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.530: e4:b3:18:7c:30:58 Resetting web IPv4 acl from 255 to 255
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.530: e4:b3:18:7c:30:58 Resetting web IPv4 Flex acl from 65535 to 6
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.530:

e4:b3:18:7c:30:58 Username entry (user1) created for mobile, length = 253

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.530:

e4:b3:18:7c:30:58 Found an interface name:'vlan2404' corresponds to interface name received: vlan2404

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.530: e4:b3:18:7c:30:58 override for default ap group, marking intg
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.530: e4:b3:18:7c:30:58 Applying Interface(management) policy on Mo
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.530: e4:b3:18:7c:30:58 Re-applying interface policy for client
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 apfApplyWlanPolicy: Apply WLAN Policy over
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531:

e4:b3:18:7c:30:58 Inserting AAA Override struct for mobile

MAC: e4:b3:18:7c:30:58, source 4

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Applying override policy from source Overrid
*Dot1x_NW_MsgTask_0: Nov 24

04:30:44.531: e4:b3:18:7c:30:58 Found an interface name:'vlan2404' corresponds to interface name received

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Applying Interface(vlan2404) policy on Mobi
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Re-applying interface policy for client
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Setting re-auth timeout to 0 seconds, got f
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Station e4:b3:18:7c:30:58 setting dot1x read
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Stopping reauth timeout for e4:b3:18:7c:30:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Creating a PKC PMKID Cache entry for station
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Resetting MSCB PMK Cache Entry 0 for station
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Adding BSSID 00:c8:8b:26:c1 to PMKID cache
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: New PMKID: (16)
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: [0000] cc 3a 3d 26 80 17 8b f1 2d c5 cd fd a0 8a c4 39
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 unsetting PmkIdValidatedByAp
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Updating AAA Overrides from local for static
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Adding Audit session ID payload in Mobility
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 0 PMK-update groupcast messages sent
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 PMK sent to mobility group
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Disabling re-auth since PMK lifetime can ta
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Sending EAP-Success to mobile e4:b3:18:7c:30:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: e4:b3:18:7c:30:58 Freeing AACB from Dot1xCB as AAA auth is do
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: e4:b3:18:7c:30:58 key Desc Version FT - 0
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: e4:b3:18:7c:30:58 Found an cache entry for BSSID 00:c8:8b:26:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: Including PMKID in M1 (16)
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: [0000] cc 3a 3d 26 80 17 8b f1 2d c5 cd fd a0 8a c4 39
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: M1 - Key Data: (22)
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: [0000] dd 14 00 0f ac 04 cc 3a 3d 26 80 17 8b f1 2d c5
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: [0016] cd fd a0 8a c4 39
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532:

e4:b3:18:7c:30:58 Starting key exchange to mobile e4:b3:18:7c:30:58, data packets will be dropped

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532:

e4:b3:18:7c:30:58 Sending EAPOL-Key Message to mobile e4:b3:18:7c:30:58

state INITPMK (message 1), replay counter 00.00.00.00.00.00.00.00

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: e4:b3:18:7c:30:58 Reusing allocated memory for EAP Pkt for r
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: e4:b3:18:7c:30:58 Entering Backend Auth Success state (id=223)

```

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: e4:b3:18:7c:30:58 Received Auth Success while in Authentication
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: e4:b3:18:7c:30:58 dot1x - moving mobile e4:b3:18:7c:30:58 into
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.547: e4:b3:18:7c:30:58 Received EAPOL-Key from mobile e4:b3:18:7c:30:58
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.547: e4:b3:18:7c:30:58 Ignoring invalid EAPOL version (1) in EAPOL
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.547: e4:b3:18:7c:30:58 key Desc Version FT - 0
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.547:

e4:b3:18:7c:30:58 Received EAPOL-key in PTK_START state (message 2) from mobile

e4:b3:18:7c:30:58
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.548: e4:b3:18:7c:30:58 Successfully computed PTK from PMK!!!
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.548: e4:b3:18:7c:30:58 Received valid MIC in EAPOL Key Message M2!
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.548: e4:b3:18:7c:30:58 Not Flex client. Do not distribute PMK Key
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.548: e4:b3:18:7c:30:58 Stopping retransmission timer for mobile e4:b3:18:7c:30:58
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.548: e4:b3:18:7c:30:58 key Desc Version FT - 0
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.548: e4:b3:18:7c:30:58 Sending EAPOL-Key Message to mobile e4:b3:18:7c:30:58
state PTKINITNEGOTIATING (message 3), replay counter 00.00.00.00.00.00.00.01
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.548: e4:b3:18:7c:30:58 Reusing allocated memory for EAP Pkt for retransmit
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 Received EAPOL-Key from mobile e4:b3:18:7c:30:58
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 Ignoring invalid EAPOL version (1) in EAPOL
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 key Desc Version FT - 0
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555:

e4:b3:18:7c:30:58 Received EAPOL-key in PTKINITNEGOTIATING state (message 4)

from mobile e4:b3:18:7c:30:58
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 Stopping retransmission timer for mobile e4:b3:18:7c:30:58
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 Freeing EAP Retransmit Buffer for mobile e4:b3:18:7c:30:58
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 apfMs1xStateInc
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 apfMsPeapSimReqCntInc
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 apfMsPeapSimReqSuccessCntInc
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555:

e4:b3:18:7c:30:58 0.0.0.0 8021X_REQD (3) Change state to L2AUTHCOMPLETE (4) last state 8021X_REQD (3)

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 Mobility query, PEM State: L2AUTHCOMPLETE
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 Building Mobile Announce :
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Building Client Payload:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Client Ip: 0.0.0.0
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Client Vlan Ip: 172.16.0.134, Vlan mask: 0.0.0.255
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Client Vap Security: 16384
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Virtual Ip: 10.10.10.10
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 ssid: ise-ssid
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Building VlanIpPayload.
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Not Using WMM Compliance code qosCap 00
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 0.0.0.0 L2AUTHCOMPLETE (4) Plumbed mobile L2
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556:

e4:b3:18:7c:30:58 0.0.0.0 L2AUTHCOMPLETE (4) Change state to DHCP_REQD (7) last state L2AUTHCOMPLETE (4)

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) pemAdvanceState2 6677
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) Adding Fast Path rule
  type = Airespace AP - Learn IP address
  on AP 00:c8:8b:26:2c:d0, slot 0, interface = 1, QOS = 0
  IPv4 ACL ID = 255, IPv6
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) Fast Path rule (contd)
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) Fast Path rule (contd)
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) Successfully plumbed
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Successfully Plumbed PTK session Keysfor mobile
*spamApTask2: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Successful transmission of LWAPP Add-Mobile to AP
*pemReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 0.0.0.0 Added NPU entry of type 9, dtlFlags 0x00000000
*apfReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) mobility role update request
  Peer = 0.0.0.0, Old Anchor = 0.0.0.0, New Anchor = 172.16.0.3
*apfReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) State Update from Mobility

```

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*apfReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) pemAdvanceState2 6315, Ad
*apfReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) Replacing Fast Path rule
    IPv4 ACL ID = 255,
*apfReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) Fast Path rule (contd...)
*apfReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) Fast Path rule (contd...)
*apfReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) Successfully plumbed mobi
*pemReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 Sent an XID frame
*dtlArpTask: Nov 24 04:30:47.932: e4:b3:18:7c:30:58 Static IP client associated to interface wlan2404 w
*dtlArpTask: Nov 24 04:30:47.933: e4:b3:18:7c:30:58 apfMsRunStateInc
*dtlArpTask: Nov 24 04:30:47.933:

e4:b3:18:7c:30:58 172.16.0.151 DHCP_REQD (7) Change state to RUN (20)

last state DHCP_REQD (7)

```

عاطخألا حيحصت للحملة ملحة مدخلت سأ، ظل هس ةقيرطب عاطخألا حيحصت لمي مع تاجنخم ةعارقلأا: ةيكلس الـISE

[Wireless Debug Analyzer \(يدلـise حيحصـتـللـلحـم\)](#)

الـISE يـلـع ةـقـدـاصـمـلـا ةـيـلـمـع

ليـوـخـتـلـاـ جـهـنـوـ ةـقـدـاصـمـلـاـ جـهـنـ ةـفـرـعـمـلـ رـشـابـمـلـاـ تـالـجـسـلـاـ >ـ تـايـلـمـعـلـاـ يـلـاـ لـقـتـنـاـ مـدـخـتـسـمـلـلـ هـنـيـيـعـتـ مـتـ يـذـلـاـ لـيـوـخـتـلـاـ فـيـرـعـتـ فـلـمـوـ.

وهـ اـمـكـ الـيـصـفـتـ رـثـكـأـ ةـقـدـاصـمـلـاـ ضـرـعـلـ لـيـصـافـتـ قـوـفـ رـقـنـاـ ،ـتـامـوـلـعـمـلـاـ نـمـ دـيـزـمـلـ رـوـصـلـاـ يـفـ حـضـوـمـ.

Time	Status	Details	Identifier	Endpoint ID	Endpoint Type	Authentication Policy	Authorization Policy	Authorization Profiles
No...	1		user1	08:74:02:77:13:45	Apple-Device	Default >> Rule name >> Default	Default >> NameAuthRule	PermitAccessVLAN2404

اهـحـالـصـ اوـ عـاطـخـأـلاـ فـاشـكـتـسـاـ

نـيـوـكـتـلـاـ اـذـهـلـ اـهـحـالـصـ اوـ عـاطـخـأـلاـ فـاشـكـتـسـاـ الـدـدـجـمـ تـامـوـلـعـمـ آـيـلـاحـ رـفـوتـتـ الـ.

هـ لـ وـ لـ جـ رـ تـ لـ اـ هـ ذـ هـ

ةـ يـ لـ آـ لـ اـ تـ اـ يـ نـ قـ تـ لـ اـ نـ مـ مـ جـ مـ وـ عـ مـ اـ دـ خـ تـ سـ اـ بـ دـ نـ تـ سـ مـ لـ اـ اـ ذـ هـ تـ مـ جـ رـ تـ
لـ اـ عـ لـ اـ ءـ اـ حـ نـ اـ عـ يـ مـ جـ يـ فـ نـ يـ مـ دـ خـ تـ سـ مـ لـ لـ مـ عـ دـ ئـ وـ تـ حـ مـ يـ دـ قـ تـ لـ ةـ يـ رـ شـ بـ لـ اـ وـ
اـ مـ كـ ةـ قـ يـ قـ دـ نـ وـ كـ تـ نـ لـ ةـ يـ لـ آـ ةـ مـ جـ رـ تـ لـ ضـ فـ اـ نـ اـ ةـ ظـ حـ اـ لـ مـ ئـ جـ رـ يـ .ـ صـ اـ خـ لـ اـ مـ هـ تـ غـ لـ بـ
يـ لـ خـ تـ .ـ فـ رـ تـ حـ مـ مـ جـ رـ تـ مـ اـ هـ دـ قـ يـ يـ تـ لـ اـ ةـ يـ فـ اـ رـ تـ حـ اـ لـ اـ ةـ مـ جـ رـ تـ لـ اـ عـ مـ لـ اـ حـ لـ اـ وـ
ىـ لـ إـ أـ مـ ئـ اـ دـ عـ وـ جـ رـ لـ اـ بـ يـ صـ وـ تـ وـ تـ اـ مـ جـ رـ تـ لـ اـ هـ ذـ هـ ةـ قـ دـ نـ عـ اـ هـ تـ يـ لـ وـ ئـ سـ مـ
(رـ فـ وـ تـ مـ طـ بـ اـ رـ لـ اـ)ـ يـ لـ صـ أـ لـ اـ يـ زـ يـ لـ جـ نـ إـ لـ اـ دـ نـ تـ سـ مـ لـ اـ).