

秘密 PSK

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秘密事前共有キーについて

Internet of Things(IoT)の出現により、インターネットに接続されるデバイスの数は著しく増加しています。これらのデバイスがすべて802.1xサプリカントをサポートしているわけではないため、インターネットに接続するための代替メカニズムが必要です。セキュリティメカニズムの1つであるWPA-PSKが代替手段として考えられます。現在の設定では、PSKは同じWLANに接続するすべてのクライアントで同じです。教育機関などの一部の設置環境では、これによりキーが不正ユーザに共有され、セキュリティ違反が生じます。このため、大規模な範囲でクライアントごとに一意のPSKをプロビジョニングすることが必要になります。

Identity PSK は、同じ SSID の個人またはユーザグループのために作成される一意の PSK です。 クライアントに複雑な設定は必要ありません。PSK と同じシンプルさで、IoT、BYOD (Bring Your Own Device) 、およびゲスト展開に適しています。

Identity PSK は 802.1x 未対応のほとんどのデバイスでサポートされるため、より強力な IoT セキュリティを実現します。他に影響を与えずに1つのデバイスまたは個人に対するアクセスを 簡単に取り消せます。何千ものキーを簡単に管理でき、AAA サーバを介して配布することができます。

IPSK ソリューション

クライアントの認証時に、AAA サーバはクライアントの MAC アドレスを認証し、Cisco-AV ペア リストの一部としてパスフレーズ(設定されている場合)を送信します。シスコ ワイヤ レス コントローラ (WLC) は RADIUS 応答の一部としてこれを受信し、追加処理を行って PSK を計算します。

対応するアクセスポイントによる SSID ブロードキャストに対してクライアントがアソシエー ション要求を送信すると、ワイヤレス LAN コントローラはクライアントの特定の MAC アド レスを含む RADIUS 要求パケットを形成し、RADIUS サーバに中継します。

RADIUS サーバは認証を実行し、クライアントが許可されているかどうか、および WLC への 応答として ACCESS-ACCEPT または ACCESS-REJECT のいずれかを送信するかどうかをチェックします。

Identity PSK をサポートするために、認証サーバは認証応答を送信するだけでなく、この特定のクライアントにAVペアパスフレーズを提供します。これは、PMKの計算に使用されます。

RADIUS サーバは、ユーザ名、VLAN、Quality of Service(QoS)など、このクライアントに固 有の追加パラメータも応答に含めることがあります。1人のユーザが複数のデバイスを所有し ている場合は、すべてのデバイスで同じパスフレーズを使用できます。

WLAN での PSK の設定 (CLI)

WLAN で PSK を設定するには、次の手順に従います。

始める前に

- ・WLAN で事前共有キー(PSK)のセキュリティを設定する必要があります。
- AAA サーバからのオーバーライドがない場合は、対応する WLAN 上の値が認証用と見な されます。

手順

	コマンドまたはアクション	目的
ステップ1	configure terminal 例:	グローバル コンフィギュレーション モードを開始します。
ステップ2	wlan wlan-name wlan-id ssid 例: Device(config)# wlan test-profile 4	WLAN と SSID を設定します。
ステップ3	no security wpa akm dot1x 例: Device(config-wlan)# no security wpa akm dot1x	dot1x に対するセキュリティの AKM を ディセーブルにします。
ステップ4	security wpa akm psk 例:	セキュリティタイプ PSK を設定しま す。

	コマンドまたはアクション	目的
	<pre>Device(config-wlan)# security wpa akm psk</pre>	
ステップ5	security wpa akm psk set-key ascii/hex key	PSK 認証キー管理(AKM)の共有キー
	例:	を設定します。
	Device(config-wlan)# security wpa akm psk set-key asci 0	
ステップ6	security wpa akm psk	PSK サポートを設定します。
	例:	
	Device(config-wlan)# security wpa akm psk	
ステップ1	mac-filtering auth-list-name	WLAN でMAC フィルタリングを指定し
	例:	ます。
	<pre>Device(config-wlan)# mac-filtering test1</pre>	

WLAN での PSK の設定(GUI)

手順

ステップ1	[Configuration] > [Tags & Profiles] > [WLANs] を選択します。
ステップ 2	[Wireless Networks] ページで [Security] タブをクリックします。
ステップ 3	表示される [Layer 2] ウィンドウで、[WPA Parameters] セクションに移動します
ステップ4	[Auth Key Mgmt] ドロップダウンから [PSK] を選択します。
ステップ5	[Save & Apply to Device] をクリックします。

WLAN へのポリシー プロファイルの適用(GUI)

手順

- ステップ1 [Configuration] > [Tags & Profiles] > [Tags] > > を選択します。
- ステップ2 [Manage Tags] ページで、[Policy] タブをクリックします。
- ステップ3 [Add] をクリックして、[Add Policy Tag] ウィンドウを表示します。
- ステップ4 ポリシータグの名前と説明を入力します。

- **ステップ5** [Add] をクリックして、WLAN とポリシーをマッピングします。
- **ステップ6** 適切なポリシープロファイルを使用してマッピングするWLANプロファイルを選択し、チェックアイコンをクリックします。
- ステップ7 [Save & Apply to Device] をクリックします。

WLAN へのポリシー プロファイルの適用 (CLI)

WLAN にポリシー プロファイルを適用するには、次の手順に従います。

手順

	コマンドまたはアクション	目的
ステップ1	configure terminal 例: Device# configure terminal	グローバル コンフィギュレーション モードを開始します。
ステップ 2	wireless profile policy policy-profile-name 例: Device(config)# wireless profile policy policy-iot	デフォルト ポリシー プロファイルを設 定します。
ステップ3	aaa-override 例: Device(config-wireless-policy)# aaa-override	AAA サーバまたは Cisco Identify Services Engine (ISE) サーバから受信したポリ シーを適用するように AAA オーバーラ イドを設定します。

秘密 PSK の確認

WLAN とクライアントの設定を確認するには、次の show コマンドを使用します。

```
Device# show wlan id 2
```

WLAN Profile Name : test_ppsk		
	==	2
Identifier	:	2
Network Name (SSID)	:	test_ppsk
Status	:	Enabled
Broadcast SSID	:	Enabled
Universal AP Admin	:	Disabled
Max Associated Clients per WLAN	:	0
Max Associated Clients per AP per WLAN	:	0
Max Associated Clients per AP Radio per WLAN	:	0
Number of Active Clients	:	0
Exclusionlist Timeout	:	60
CHD per WLAN	:	Enabled

I

<pre>Multicast Interface : Unconfigured WMM : Allowed WifiDirect : Invalid Channel Scan Defer Priority: Priority (default) : 4 Priority (default) : 5 Scan Defer Time (msecs) : 100 Media Stream Multicast-direct : Disabled CCX - Diagnostics Channel Capability : Disabled CCX - Diagnostics Channel Capability : Disabled Radio Policy : All Priority (default) : 6 Scan Defer Time (msecs) : 100 Media Stream Multicast-direct : Disabled Radio Policy : All DTIM period for 802.11a radio : 1 DTIM period for 802.11b radio : 1 DTIM period for 802.11b radio : 1 Local EAP Authentication : Disabled Mac Filter Authorization list name : Disabled Security & 802.11 A uthentication : Disabled Security & 802.11 A uthentication : Disabled Wi-Fi Protected Access (WPA/WPA2) : Disabled Wi-A (SN TE) : Disabled Wi-A (SN TE)</pre>	Interface	:	default
<pre>NMM : Allowed : Allowed WifiDirect : Invalid Channel Scan Defer Priority: Priority (default) : 4 Priority (default) : 5 Scan Defer Time (mescs) : 100 Media Stream Multicast-direct : Disabled CCX - Diagnostics Channel Capability : Disabled CCX - Diagnostics Channel Capability : Disabled Radio Policy : All DTIM period for 802.11b radio : 1 DTIM period for 802.11b radio : 1 DECAL Statute Security : Usabled 802.11 Authentication ist name : Disabled 802.11 Authentication : 0pen System Static WEP Keys : Disabled Wi-Fi Protected Access (WPA/WPA2) : Enabled 002.1x : Disabled WWA (SSN IE) : Disabled MWA (SSN IE) : Disabled MWA (SSN IE) : Disabled MUTTY Cipher : Disabled MUTTY Cipher : Disabled Auth Key Management 802.1x : Disabled Auth Key Management 802.1x : Disabled FT dot1x : Disabled FT dot1x : Disabled FT SK : Disabled FT SK : Disabled FT SK : Disabled FT Nerworther : Disabled FT SK : Disabled FT Sk : Disabled FT Nerworther : Disabled FT Nerworther : Disabled FT Sex : Disabled FT Sex : Disabled FT Nerworther : Disabled FT Sex : Disabled FT Sex : Disabled FT Nerworther : Disabled FT Support : Disabled FT Support : Disabled FT Nerworther : Disabled FT Support : Disabled FT Support : Disabled FT Support : Disabled CCM TSF Tolerance : 1000 FT Support : Disabled Conditional Web Redirect : Disabled Non Cisco WGB : Disabled Muticast Buffer Size : 0 IF Source Guard Assisted-Roaming Neighbor List prise Neighbor List prise : Disabled Neighbor List prise :</pre>	Multicast Interface	:	Unconfigured
<pre>WifiDirect : Invalid Channel Scan Defer Priority: Priority (default) : 4 Priority (default) : 5 Scan Defer Time (msecs) : 100 Media Stream Multicast-direct : Disabled CCX - Diagnostics Channel Capability : Disabled Peer-to-Peer Bloching Action : Disabled Radio Policy : All TIM period for 802.11b radio : 1 Local EAP Authentication : Disabled Mac Filter Authorization list name : Disabled 802.1x authentication list name : Disabled 802.1x authentication : Disabled 802.1x authentication : Open System Static WEP Keys : Disabled 802.1x authentication : Open System Static WEP Keys : Disabled 802.1x authentication : Disabled 802.1x authentication : Disabled 802.1x authentication : Disabled 802.1x authentication : Disabled 802.1x : Disabled 804.1x : Disabled 805.2x : Disabled 805.2x : Disabled 805.2x : Disabled 806.2x : Disabled 806.2x : Disabled 807.2x : Disabled 808.2x : Disabled 808.</pre>	WMM	:	Allowed
Channel Scan Defer Priority: Priority (default) : 4 Priority (default) : 5 Priority (default) : 6 Scan Defer Time (msecs) : 100 Media Stream Multicast-direct : Disabled CCX - AironetLe Support : Enabled CCX - Diagnostics Channel Capability : Disabled Peer-to-Peer Blocking Action : Disabled Peer-to-Peer Blocking Action : 1 DTIM period for 802.11a radio : 1 DTIM period for 802.11b radio : 1 Local EAP Authentication ist name : Disabled Accounting list name : Disabled 802.11 Authentication : 0 Disabled 802.12 : Disabled 802.13 : Disabled 802.14 : Disabled 802.14 : Disabled 802.14 : Disabled 802.14 : Disabled 802.15 : Disabled 802.18 : Disabled 802.18 : Disabled 802.18 : Disabled 802.18 : Disabled 802.18 : Disabled 802.19 : Disabled 802.10 : Disabled 802.10 : Disabled 802.10 : Disabled 802.10 : Disabled 802.11 : Disabled 802.12 : Disabled 802.12 : Disabled 802.12 : Disabled 802.14 : Disabled 802.14 : Disabled 802.15 : Disabled 802.15 : Disabled 802.16 : Disabled 802.16 : Disabled 802.17 : Disabled 802.17 : Disabled 802.18 : Disabled 802.18 : Disabled 802.18 : Disabled 802.19 : Disabled 802.19 : Disabled 802.19 : Disabled 802.10 : Disabled 802.11 : Disabled 802.12 : Disabled 802.12 : Disabled 802.12 : Disabled 802.12 : Disabled 803.12 : Disabled 804 : Disabled 805 : Disabled 805 : Disabled 806 : Disabled 806 : Disabled 807 : Disabled 808 : Disable	WifiDirect	:	Invalid
Priority (default) : 4 Priority (default) : 5 Priority (default) : 6 Scan Defer Time (mscs) : 100 Media Stream Multicast-direct : Disabled CCX - Diagnostics Channel Capability : Disabled Peer-to-Peer Blocking Action : Disabled Radio Policy : All DTIM period for 802.11a radio : 1 Local EAP Authentication : Disabled Mac Filter Authorization list name : Disabled Security : Disabled Security : Disabled Security : Disabled Security : Disabled Wi-Fi Protected Access (WPA/WPA2) : Enabled WPA (SSN IE) : Disabled MERA (SSN IE) : Disabled MUPA (SSN IE) : Disabled MUPA (SSN IE) : Disabled MUPA (SSN IE) : Disabled Auth Key Management : Susabled SOLIX : Disabled MUPA (SSN IE)	Channel Scan Defer Priority:		
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Priority (default) : 6 Scan Defer Time (mascs) : 100 Media Stream Multicast-direct : Disabled CCX - AironetTe Support : Enabled CCX - Diagnostics Channel Capability : Disabled Peer-to-Peer Blocking Action : Disabled Radio Policy : All DTIM period for 802.11a radio : 1 Local EAP Authentication : Disabled Mac Filter Authorization list name : Disabled Scourity : test Accounting list name : Disabled Scourity : 002.11 Authentication : Open System Static WEP Keys : Disabled 802.1X authentication : Open System Static WEP Keys : Disabled WPA2 (SSN IE) : Enabled WPA2 (SSN IE) : Enabled WPA2 (SSN IE) : Enabled Auth Key Management 802.1x : Disabled WPA2 (SSN IE) : Enabled Auth Key Management 802.1x : Disabled MFP2 (CM IE) : Disabled Auth Key Management 802.1x : Disabled PFF dot1x : Disabled PFF dot1x : Disabled PFF dot1x : Disabled FT dot1x : Disabled FT dot1x : Disabled FT Support : Disabled FT Support : Disabled FT Noter-The-DS mode : Enabled PMF Association Timeout : 20 FT Over-The-DS mode : Enabled PMF Association Comeback Timeout : 1 PMF SA Query Time : 200 Web Eased Authentication : Disabled Splash-Page Web Redirect : Disabled Splash-Page Web Redirect : Disabled Splash-Page Web Redirect : Disabled Nebauth Anthentication : Disabled Splash-Page Web Redirect : Disabled Splash-Page Web Redirect : Disabled Nebauth Anthentication : Disabled Splash-Page Web Redirect : Disabled Nebauth Anthentication Iist Name : Disabled Nebauth Anthentication : Disabled Ne	Priority (default)	:	5
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Media Stream Multicast-direct : Disabled CCX - AironetE Support : Enabled CCX - Diagnostics Channel Capability : Disabled Radio Policy : All DTIM period for 802.11a radio : 1 DTIM period for 802.11b radio : 1 DTIM period for 802.11b radio : 1 Local EAP Authentication : Disabled Mac Filter Authorization list name : Disabled Security : 802.11 Authentication : Open System Static WEP Keys : Disabled 802.11 Authentication : Open System Static WEP Keys : Disabled WMPA (SSN IE) : Enabled WPA (SSN IE) : Disabled WPA (SSN IE) : Disabled WPA (SSN IE) : Disabled MUPA (SSN IE)	Scan Defer Time (msecs)	:	100
CCX - Aironetle Support : Enabled CCX - Diagnostics Channel Capability : Disabled Peer-to-Peer Blocking Action : Disabled Radio Policy : All DTIM period for 802.11a radio : 1 DTIM period for 802.11b radio : 1 Local EAP Authentication list name : Disabled Mac Filter Authorization list name : Disabled 802.1x authentication list name : Disabled 802.1x authentication : Open System Static WEP Keys : Disabled Wi-Fi Protected Access (WFA/WPA2) : Enabled 802.1x : Disabled WFA2 (RSN IE) : Disabled WFA2 (RSN IE) : Disabled WFA2 (RSN IE) : Disabled MVFA2 (RSN IE) : Disabled MVFA (SSN IE) : Disabled MVF RSN : Disabled MVF SA Query Time : 200 Web Rased Authentication : Disabled MVF SA Query Time : 200 Web Rased Authentication : Disabled MVFA RASUCY Time : Disabled MVEA RASUCY Time :	Media Stream Multicast-direct	:	Disabled
CCX - Diagnostics Channel Capability : Disabled Rear-to-Peer Blocking Action : Disabled Radio Policy : All DTIM period for 802.11a radio : 1 Local EAP Authentication : Disabled Accounting list name : Disabled 802.1x authentication list name : Disabled 802.1x authentication ist name : Disabled 802.1x authentication : Open System Static WEP Keys : Disabled 802.1x (WI-FI Protected Access (WPA/WPA2) : Enabled WPA (SSN IE) : Disabled WPA (SSN IE) : Disabled WPA (SSN IE) : Disabled WPA (SSN IE) : Disabled Act MEP Keys : Disabled WPA (SSN IE) : Disabled Auth Key Management 802.1x : Disabled PSK : Disabled FT dot1x : Disabled FT dot1x : Disabled FT dot1x : Disabled FT NerTolerance : 1000 FT Support : Disabled FT NerTolerance : Disabled FT Support : Disabled PMF Association Timeout : 20 FT Support : Disabled PMF Association Comeback Timeout : 1 PMF Association Comeback Timeout : 20 Web Based Authentication : Disabled PMF Support : Disabled PMF Sabled PMF Sabled PMF Sabled : Disabled PMF Association Comeback Timeout : 1 PMF Association Comeb	CCX - AironetIe Support	:	Enabled
Peerto-Peer Blocking Action : Disabled Radio Policy : All DTIM period for 802.11b radio : 1 DTIM period for 802.11b radio : 1 DTIM period for 802.11b radio : 1 DIM period for 802.11b radio : 1 DISAbled : 1 Mac Filter Authorization list name : Disabled Mac Filter Authorization list name : Disabled Socurity : 0 802.1x authentication : Open System Static WEP Keys : Disabled 802.1x : Disabled WFA (SSN IE) : Disabled WFA (SSN IE) : Enabled WFA (SSN IE) : Enabled WFA (SSN IE) : Disabled ASS Cipher : Disabled ASS Cipher : Disabled FT FSK : Disabled FT fot1x : Disabled PMF dot1x : Disabled FT Support : Disabled FT Support : Disabled FT Support : Disabled FT Support : Disabled PMF Association Comeback Timeout : 20 FT Over-The-DS mode : Enabled Subseled PMF Association Comeback Timeout : 1 PMF SA Query Time : Disabled Splash-Page Web Redirect : Disabled Splash-Page Web Redirect : Disabled Neb Based Authentication : Disabled Splash-Page Web Redirect : Disabled Neb Basel Authentication : Disabled Splash-Page Web Redirect : Disabled Neb Basel Authentication : Disabled Neb Basel Authentication : Disabled Splash-Page Web Redirect : Disabled Neb Basel Authentication : Disabled Neb Basel Authentication : Disabled Neb Basel Authentication : Disabled Neb Basel Authentication : Disabled Neb Disabled : Disabled Nulticast Buffer : Disabled Neb Disabled Neb Disabled : Disabled Neb Disabled Neb Disabled : Disabled Neb Disabled Neb Disabled : Disabled Neb Disabled Neb Disabled : Disabled Neb Disabled : Disabled Neb Disabled Neb Disabled : Di	CCX - Diagnostics Channel Capability	:	Disabled
Radio Policy : All DTIM period for 802.11a radio : 1 DTIM period for 802.11b radio : 1 Local EAP Authentication list name : Disabled Accounting list name : Disabled 802.1x authentication list name : Disabled 802.1x authentication list name : Disabled 802.1x authentication : Open System Static WEP Keys : Disabled 802.1X (SN TE) : Disabled WPA2 (SN TE) : Disabled WPA2 (SN TE) : Disabled WPA2 (SN TE) : Disabled AES Cipher : Enabled Auth Key Management 802.1x : Disabled CCKM : Disabled FT dot1x : Disabled PMF dot1x : Disabled PMF fox : Disabled FT Support : Disabled FT Reassociation Timeout : 20 FT Neprotected Notesk Timeout : 1 PMF Association Comeback Timeout : Disabled Web Based Authentication : Disabled Web Redirect : Disabled Met Auth Key Redirect : Disabled Numer Auth Comemback Timeout : 1 PMF Association Comeback Timeout : 1 PMF Association Comeback Timeout : 1 PMF Association Comeback Timeout : 1 PMF Association List Name : Disabled Numer Authentication : Disabled Numer Authentication : Disabled Numer Authentication : Disabled Numer Association List Name : Disabled Numer Authentication : Disabled Numer Countermeasure Hold-down Timer : 60 Call Snooping : Disabled Numer Countermeasu	Peer-to-Peer Blocking Action	:	Disabled
DTIM period for 802.11a radio : 1 DTIM period for 802.11b radio : 1 Local EAP Authentication : Disabled Mac Filter Authorization list name : Disabled 802.1x authentication list name : Disabled 802.1x authentication : Open System Static WEP Keys : Disabled 802.1X : Disabled Wi-Fi Protected Access (WPA/WPA2) : Enabled WFA2 (RSN IE) : Disabled WFA2 (RSN IE) : Disabled AES Cipher : Enabled 802.1x : Disabled 802.1x : Disabled MFA2 (RSN IE) : Disabled AES Cipher : Enabled 802.1x : Disabled Auth Key Management 802.1x : Disabled FT dotlx : Disabled FT PSK : Disabled PMF dot1x : Disabled PMF dot1x : Disabled FT Reassociation Timeout : Disabled FT Reassociation Timeout : 20 FT Over-The-DS mode : Enabled PMF Support : Disabled PMF Sa Query Time : Disabled PMF Sa Query Time : Disabled Splash-Page Web Redirect : Disabled Splash-Page Web Redirect : Disabled Splash-Page Web Redirect : Disabled Neb Based Authentication List Name : Disabled Splash-Page Web Redirect : Disabled Splash-Page Web Redirect : Disabled Neb Based Authentication : Disabled Neb Based Authentication : Disabled Splash-Page Web Redirect : Disabled Neb Rased Authentication : Disabled Non Cisco WCB : Disabled Non Cisco WCB : Disabled Load Balancing : Disabled Nulticast Buffer Size : 0 IF Source Guard : Disabled Neighbor List : Disabled	Radio Policy	:	ALL
DTIM period for 802.115 radio : 1 Local EAP Authentication : Disabled Mac Filter Authorization list name : Disabled Security 802.11 Authentication ist name : Disabled Security 802.11 Authentication : Open System Static WEP Keys : Disabled 802.12 : Disabled Wi-Fi Protected Access (WPA/WPA2) : Enabled WPA (SSN IE) : Disabled WPA (SSN IE) : Disabled AES Cipher : Disabled 802.12 : Disabled 802.13 : Disabled MUT Fi Protected Access (WPA/WPA2) : Enabled AES Cipher : Disabled 802.14 : Disabled 802.15 : Disabled 802.16 : Disabled FT dotlx : Disabled FT dotlx : Disabled FT dotlx : Disabled FT dotlx : Disabled FT Reassociation Timeout : Disabled FT Reassociation Timeout : 20 FT Support : Disabled PMF PSK : Disabled FT Activent : Disabled FT Activent : Disabled FT Reassociation Comeback Timeout : 1 PMF Association Comeback Timeout : 1 PMF Association Comeback Timeout : 1 PMF Association List Name : Disabled Webauth On-mac-filter Failure : Disabled Webauth Authentication List Name : Disabled Nation Condet : Disabled Mebauth Authentication List Name : Disabled Non Cisco WGB : Disabled Non Cisco WGB : Disabled Nulticast Buffer Size : O IF Source Guard Assisted-Roaming Neighbor List : Disabled Prediction List : Di	DTIM period for 802.11a radio	:	1
Local EAP Authentication ist name : Disabled Accounting list name : Disabled 802.1x authentication list name : Disabled 802.1x authentication ist name : Disabled 802.11 Authentication : Open System Static WEP Keys : Disabled 802.11 Authentication : Open System Static WEP Keys : Disabled 802.1X : Disabled WFA (SSN IE) : Disabled WFA (SSN IE) : Disabled WFA (SSN IE) : Disabled WFA (SSN IE) : Disabled ALT KEY Management 802.1x : Disabled ALT KEY Management 802.1x : Disabled PSK : Enabled CCKM : Disabled FT dot1x : Disabled PMF dot1x : Disabled PMF dot1x : Disabled PMF for the SSN : Disabled PMF SQUEY Time : Disabled PMF SQUEY Time : Disabled PMF Support : Disabled PMF Support : Disabled PMF Support : Disabled Splash-Page Web Redirect : Disabled Splash-Page We Redirect : Disabled Splash-Page We Redirect : Disabled Webauth Authentication List Name : Disabled Webauth Parameter Map : Disabled PAG Call Snooping : Disabled PAG Super Size : O P Source Guard : Disabled PAG Super Size : O P Source Guard : Disabled PAG Super : Disabled PAG Super : Disabled PAG Super Size : O P Source Guard : Disabled PAG Super	DTIM period for 802.11b radio	:	1
Mac Filter Authorization list name : test1 Accounting list name : Disabled 802.1x authentication list name : Disabled 802.11 Authentication : Open System Static WEP Keys : Disabled W1-Fi Protected Access (WPA/WPA2) : Enabled WPA (SSN IE) : Disabled WPA2 (RSN IE) : Enabled WPA2 (RSN IE) : Enabled AES Cipher : Disabled ALS Cipher : Disabled Auth Key Management 802.1x : Disabled CCKM : Disabled FT SK : Disabled FT PSK : Disabled PMF dot1x : Disabled PMF dot1x : Disabled PMF dot1x : Disabled PMF SK : Disabled PMF SK : Disabled FT PSK : Disabled PMF SK : Disabled PMF Sk : Disabled PMF Support : Disabled Splash-Page Web Redirect : Disabled Webauth Authentication List Name : Disabled Webauth Authentication List Name : Disabled Nuclicast Buffer : Disabled Passive Client : Disabled Passive Client : Disabled Passive Client : Disabled Multicast Buffer Size : O IP Source Guard : Disabled Multicast Buffer Size : O IP Source Guard : Disabled Multicast Buffer Size : O IP Source Guard : Disabled Prediction List : Disabled Prediction List : Disabled Pasled Dual Band Support : Disabled Pasled Dual Band Support : Disabled Pasled Dual Band Support : Disabled PASUSTER : Disab	Local EAP Authentication	:	Disabled
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<pre>Static WEP Keys : Disabled 802.1X : Disabled Wi-Fi Protected Access (WPA/WPA2) : Enabled WPA2 (RSN IE) : Disabled WPA2 (RSN IE) : Enabled AES Cipher : Disabled Auth Key Management 802.1x : Disabled CCKM : Disabled FT dotlx : Disabled PMF dotlx : Disabled PMF dotlx : Disabled PMF dotlx : Disabled FT Reassociation Timeout : 20 FT Over-The-DS mode : Enabled PMF Sa Query Time : 200 Web Based Authentication Comeback Timeout : 1 PMF SA Query Time : 200 Web Based Authentication : Disabled Splash-Page Web Redirect : Disabled Webauth On-mac-filter Failure : Disabled Webauth Authentication List Name : Disabled Tkip MIC Countermeasure Hold-down Timer : 60 Call Snooping : Disabled Multicast Buffer Size : 0 IP Source Guard Assisted Multicast Buffer Size : 0 IP Source Guard : Disabled Multicast Buffer Size : 0 IP Source Guard Support : Disabled Multicast Buffer Size : 0 IP Source Guard Support : Disabled Multicast Buffer Size : 0 IP Source Guard Support : Disabled Multicast Buffer Size : 0 IP Source Guard : Disabled Multicast Buffer Size : 0 IP Source Guard : Disabled Multicast Buffer Size : 0 IP Source Guard : Disabled Multicast Support : Disabled</pre>	802.11 Authentication	:	Open System
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Band Select : Disabled Load Balancing : Disabled Multicast Buffer : Disabled Multicast Buffer Size : O IP Source Guard : Disabled Assisted-Roaming Neighbor List : Disabled Prediction List : Disabled Dual Band Support : Disabled IEEE 802.11v parameters	PSK CCKM FT dot1x FT PSK PMF dot1x PMF dot1x PMF PSK CCKM TSF Tolerance FT Support FT Reassociation Timeout FT Over-The-DS mode PMF Support PMF Association Comeback Timeout PMF SA Query Time Web Based Authentication Conditional Web Redirect Splash-Page Web Redirect Webauth On-mac-filter Failure Webauth Authentication List Name Webauth Parameter Map Tkip MIC Countermeasure Hold-down Timer Call Snooping Passive Client		Enabled Disabled Disabled Disabled Disabled Disabled Disabled 20 Enabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled
Load Balancing : Disabled Multicast Buffer : Disabled Multicast Buffer Size : 0 IP Source Guard : Disabled Assisted-Roaming Neighbor List : Disabled Prediction List : Disabled Dual Band Support : Disabled IEEE 802.11v parameters	CCKM FT dot1x FT PSK PMF dot1x PMF dot1x PMF PSK CCKM TSF Tolerance FT Support FT Reassociation Timeout FT Over-The-DS mode PMF Support PMF Association Comeback Timeout PMF SA Query Time Web Based Authentication Conditional Web Redirect Splash-Page Web Redirect Webauth On-mac-filter Failure Webauth Authentication List Name Webauth Parameter Map Tkip MIC Countermeasure Hold-down Timer Call Snooping Passive Client Non Cisco WGB		Enabled Disabled Disabled Disabled Disabled Disabled Disabled 20 Enabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled
Multicast Buffer : Disabled Multicast Buffer Size : 0 IP Source Guard : Disabled Assisted-Roaming Neighbor List : Disabled Prediction List : Disabled Dual Band Support : Disabled IEEE 802.11v parameters	CCKM FT dot1x FT pSK PMF dot1x PMF dot1x PMF PSK CCKM TSF Tolerance FT Support FT Reassociation Timeout FT Over-The-DS mode PMF Support PMF Association Comeback Timeout PMF SA Query Time Web Based Authentication Conditional Web Redirect Splash-Page Web Redirect Webauth On-mac-filter Failure Webauth Authentication List Name Webauth Parameter Map Tkip MIC Countermeasure Hold-down Timer Call Snooping Passive Client Non Cisco WGB Band Select		Enabled Disabled Disabled Disabled Disabled Disabled Disabled 20 Enabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled
Multicast Buffer Size : 0 IP Source Guard : Disabled Assisted-Roaming Neighbor List : Disabled Prediction List : Disabled Dual Band Support : Disabled IEEE 802.11v parameters	CCKM FT dotlx FT pSK PMF dotlx PMF dotlx PMF dotlx PMF PSK CCKM TSF Tolerance FT Support FT Reassociation Timeout FT Over-The-DS mode PMF Support PMF Association Comeback Timeout PMF SA Query Time Web Based Authentication Conditional Web Redirect Splash-Page Web Redirect Webauth On-mac-filter Failure Webauth Authentication List Name Webauth Parameter Map Tkip MIC Countermeasure Hold-down Timer Call Snooping Passive Client Non Cisco WGB Band Select Load Balancing		Enabled Disabled Disabled Disabled Disabled Disabled Disabled 20 Enabled Disabled
IP Source Guard : Disabled Assisted-Roaming Neighbor List : Disabled Prediction List : Disabled Dual Band Support : Disabled IEEE 802.11v parameters	CCKM FT dotlx FT PSK PMF dotlx PMF dotlx PMF dotlx PMF PSK CCKM TSF Tolerance FT Support FT Reassociation Timeout FT Over-The-DS mode PMF Support PMF Association Comeback Timeout PMF SA Query Time Web Based Authentication Conditional Web Redirect Splash-Page Web Redirect Splash-Page Web Redirect Webauth On-mac-filter Failure Webauth Authentication List Name Webauth Parameter Map Tkip MIC Countermeasure Hold-down Timer Call Snooping Passive Client Non Cisco WGB Band Select Load Balancing Multicast Buffer		Enabled Disabled
Assisted-Roaming Neighbor List : Disabled Prediction List : Disabled Dual Band Support : Disabled IEEE 802.11v parameters	PSK CCKM FT dotlx FT PSK PMF dotlx PMF dotlx PMF PSK CCKM TSF Tolerance FT Support FT Reassociation Timeout FT Over-The-DS mode PMF Support PMF Association Comeback Timeout PMF SA Query Time Web Based Authentication Conditional Web Redirect Splash-Page Web Redirect Splash-Page Web Redirect Webauth On-mac-filter Failure Webauth Authentication List Name Webauth Parameter Map Tkip MIC Countermeasure Hold-down Timer Call Snooping Passive Client Non Cisco WGB Band Select Load Balancing Multicast Buffer		Enabled Disabled Disabled Disabled Disabled Disabled Disabled 20 Disabled
Neighbor List: DisabledPrediction List: DisabledDual Band Support: DisabledIEEE 802.11v parameters	PSK CCKM FT dotlx FT PSK PMF dotlx PMF dotlx PMF PSK CCKM TSF Tolerance FT Support FT Reassociation Timeout FT Over-The-DS mode PMF Support PMF Association Comeback Timeout PMF SA Query Time Web Based Authentication Conditional Web Redirect Splash-Page Web Redirect Splash-Page Web Redirect Webauth On-mac-filter Failure Webauth Authentication List Name Webauth Parameter Map Tkip MIC Countermeasure Hold-down Timer Call Snooping Passive Client Non Cisco WGB Band Select Load Balancing Multicast Buffer Multicast Buffer Size IP Source Guard		Enabled Disabled Disabled Disabled Disabled Disabled Disabled 20 Disabled
Prediction List : Disabled Dual Band Support : Disabled IEEE 802.11v parameters	PSK CCKM FT dotlx FT PSK PMF dotlx PMF dotlx PMF dotlx PMF PSK CCKM TSF Tolerance FT Support FT Reassociation Timeout FT Over-The-DS mode PMF Support PMF Association Comeback Timeout PMF SA Query Time Web Based Authentication Conditional Web Redirect Splash-Page Web Redirect Splash-Page Web Redirect Webauth On-mac-filter Failure Webauth Authentication List Name Webauth Parameter Map Tkip MIC Countermeasure Hold-down Timer Call Snooping Passive Client Non Cisco WGB Band Select Load Balancing Multicast Buffer Multicast Buffer Size IP Source Guard Assisted-Roaming		Enabled Disabled Disabled Disabled Disabled Disabled Disabled 20 Enabled Disabled
Dual Band Support : Disabled IEEE 802.11v parameters	CCKM FT dot1x FT pSK PMF dot1x PMF dot1x PMF PSK CCKM TSF Tolerance FT Support FT Reassociation Timeout FT Over-The-DS mode PMF Support PMF Association Comeback Timeout PMF SA Query Time Web Based Authentication Conditional Web Redirect Splash-Page Web Redirect Splash-Page Web Redirect Webauth On-mac-filter Failure Webauth Authentication List Name Webauth Parameter Map Tkip MIC Countermeasure Hold-down Timer Call Snooping Passive Client Non Cisco WGB Band Select Load Balancing Multicast Buffer Size IP Source Guard Assisted-Roaming Neighbor List		Enabled Disabled Disabled Disabled Disabled Disabled Disabled 20 Disabled
IEEE 802.11v parameters	CCKM FT dot1x FT pSK PMF dot1x FMF PSK CCKM TSF Tolerance FT Support FT Reassociation Timeout FT Over-The-DS mode PMF Support PMF Association Comeback Timeout PMF SA Query Time Web Based Authentication Conditional Web Redirect Splash-Page Web Redirect Webauth On-mac-filter Failure Webauth Authentication List Name Webauth Parameter Map Tkip MIC Countermeasure Hold-down Timer Call Snooping Passive Client Non Cisco WGB Band Select Load Balancing Multicast Buffer Size IP Source Guard Assisted-Roaming Neighbor List Prediction List		Enabled Disabled Disabled Disabled Disabled Disabled Disabled 20 Disabled
	CCKM FT dot1x FT pSK PMF dot1x FMF PSK CCKM TSF Tolerance FT Support FT Reassociation Timeout FT Over-The-DS mode PMF Support PMF Association Comeback Timeout PMF SA Query Time Web Based Authentication Conditional Web Redirect Splash-Page Web Redirect Webauth On-mac-filter Failure Webauth Authentication List Name Webauth Parameter Map Tkip MIC Countermeasure Hold-down Timer Call Snooping Passive Client Non Cisco WGB Band Select Load Balancing Multicast Buffer Size IP Source Guard Assisted-Roaming Neighbor List Prediction List Dual Band Support		Enabled Disabled Disabled Disabled Disabled Disabled Disabled 20 Enabled Disabled

8

Directed Multicast Service	:	Disabled
BSS Max Idle	:	Disabled
Protected Mode	:	Disabled
Traffic Filtering Service	:	Disabled
BSS Transition	:	Enabled
Disassociation Imminent	:	Disabled
Optimised Roaming Timer	:	40
Timer	:	200
WNM Sleep Mode	:	Disabled
02.11ac MU-MIMO	:	Disabled

Device# show wireless client mac-address a886.adb2.05f9 detail

Client MAC Address : a886.adb2.05f9 Client IPv4 Address : 9.9.58.246 Client Username : A8-86-AD-B2-05-F9 AP MAC Address : c025.5c55.e400 AP Name: saurabh-3600 AP slot : 1 Client State : Associated Policy Profile : default-policy-profile Flex Profile : default-flex-profile Wireless LAN Id : 6 Wireless LAN Name: SSS PPSK BSSID : c025.5c55.e40f Connected For : 280 seconds Protocol : 802.11n - 5 GHz Channel : 60 Client IIF-ID : 0xa0000001 Association Id : 1 Authentication Algorithm : Open System Client CCX version : No CCX support Session Timeout : 320 sec (Remaining time: 40 sec) Input Policy Name : Input Policy State : None Input Policy Source : None Output Policy Name : Output Policy State : None Output Policy Source : None WMM Support : Enabled U-APSD Support : Enabled U-APSD value : 0 APSD ACs : BK, BE, VI, VO Fastlane Support : Disabled Power Save : OFF Current Rate : m22 Supported Rates : 9.0,18.0,36.0,48.0,54.0 Mobility: : 0 Move Count Mobility Role : Local Mobility Roam Type : None Mobility Complete Timestamp : 09/27/2017 16:32:25 IST Policy Manager State: Run NPU Fast Fast Notified : No Last Policy Manager State : IP Learn Complete Client Entry Create Time : 280 seconds Policy Type : WPA2 Encryption Cipher : CCMP (AES) Authentication Key Management : PSK AAA override passphrase: Yes Management Frame Protection : No Protected Management Frame - 802.11w : No

```
EAP Type : Not Applicable
VLAN : 58
Access VLAN : 58
Anchor VLAN : 0
WFD capable : No
Manged WFD capable : No
Cross Connection capable : No
Support Concurrent Operation : No
Session Manager:
  Interface
                  : capwap_90000005
  IIF ID
                  : 0x90000005
  Device Type
                  : Apple-Device
                 : 0x000001
  Protocol Map
                  : TRUE
  Authorized
  Session timeout : 320
  Common Session ID: 1F380909000005DC30088EA
  Acct Session ID : 0x0000000
  Auth Method Status List
        Method : MAB
                               : TERMINATE
                SM State
                Authen Status : Success
  Local Policies:
        Service Template : wlan svc default-policy-profile (priority 254)
                Absolute-Timer : 320
                VLAN
                                 : 58
  Server Policies:
  Resultant Policies:
                VLAN
                                 : 58
                Absolute-Timer
                                : 320
Client Capabilities
  CF Pollable : Not implemented
  CF Poll Request : Not implemented
  Short Preamble : Not implemented
  PBCC : Not implemented
  Channel Agility : Not implemented
 Listen Interval : 0
Fast BSS Transition Details :
  Reassociation Timeout : 0
11v BSS Transition : Not implemented
FlexConnect Data Switching : Local
FlexConnect Dhcp Status : Local
FlexConnect Authentication : Central
FlexConnect Central Association : No
Client Statistics:
  Number of Bytes Received : 59795
  Number of Bytes Sent : 21404
  Number of Packets Received : 518
  Number of Packets Sent : 274
  Number of EAP Id Request Msg Timeouts :
  Number of EAP Request Msg Timeouts :
  Number of EAP Key Msg Timeouts :
  Number of Policy Errors : 0
  Radio Signal Strength Indicator : -32 dBm
  Signal to Noise Ratio : 58 dB
Fabric status : Disabled
```

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