

Configurations Steps for Domain Filtering

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Domain Filtering Overview

Domain Filtering is a new enhancement that is being introduced as part of the 8.3 release. This enhancement complements the Application Visibility Control (AVC) filtering currently available on the WLC. AVC filtering only supports the protocols and applications that are defined in the Protocol Pack for a given AirOS release allowing specific applications to be dropped, marked or rate-limited.

Domain Filtering builds upon AVC by using the NBAR2 engine to look deeper into the application layer matching on both the application type (e.g. HTTP) and host (e.g. www.cisco.com). In the 8.3 release administrators can now define ACLs and rules which can be applied to WLANs, Interfaces or Local Policies to either permit or deny HTTP traffic destined to specific hosts providing greater flexibility and control.



Domain Filtering is based on the NBAR2 engines filtering capabilities using field extraction. The latest NBAR2 engine supports 120 custom applications. URLs can be defined as a custom application and be classified by the engine:

- 1. URLs are classified using ACLs defined on the WLC. Each ACL has rules defined that determine the URLs to be matched.
- 2. The NBAR2 engine is configured to extract the URL field (if present) in the packets passed to it. Field extraction is performed per flow to optimize performance.
- **3.** The WLC passes HTTP packets to the NBAR2 engine to extract the URL. If present, the NBAR2 engine returns the host-name (for example www.cisco.com) as the URL to the WLC.
- The WLC implements filtering logic for the extracted URLs and takes the appropriate forwarding action (i.e. permit or denies the flow).

Considerations

- This release supports a maximum of 100 x URL ACLs:
 - Each ACL supports a maximum of 64 rules.
 - Each rule has either a permit or deny action. At least one permit rule must be defined per URL ACL for traffic to be permitted.
 - Each ACL has an implicit "deny all rule" as the last rule. If a URL does not match any of the rules, it is dropped by the WLC.
 - Each rule is inspected in order of precedence (lowest to highest). The first rule in the ACL that is matched is applied to the flow.
 - Each rule supports a maximum length 32 characters.
 - Each rule must match the exact subdomain, domain and top level domain you wish to match (example www.cisco.com, tools.cisco.com or partners.cisco.com).
 - Partial matches using wildcards or regular expressions are not supported in this release (example. www.c*.com or *.cisco.com).
 - No support for folders, file-names or extensions is provided in this release (example www.cisco.com/resources/index.html). A rule matching www.cisco.com will be applied to www.cisco.com/c/en/us/support.index.html as well as http://www.cisco.com/c/en/us/buy.html.
 - One wildcard (*) rule with a permit or deny action is supported per ACL. The wildcard matches all URLs.
- No support for AVC Profiles for matched URLs is provided in this release. URL ACLs and rules are defined separately then applied to WLANs, Interfaces or Local Policies.
- No support for IPv6 in this release (IPv4 support only).
- No support for PI is provided in this release.



This release supports HTTP URLs only. HTTPS URL support will be introduced in a later release.

Configurations Steps for Domain Filtering

Enabling Domain Filtering

Domain filtering is globally disabled on the WLC by default and must be enabled before the NBAR2 engine can inspect and filter HTTP based URLs. The following step demonstrates how to globally enable Domain Filtering on a WLC.

Enabling Domain Filtering using GUI

To enable domain filtering using GUI, perform the following steps:

Procedure

From the WLC main menu choose Security > Access Control Lists > URL ACLs. Select Enable URL Acl then click Apply.



Enabling Domain Filtering using CLI

To enable domain filtering using CLI, perform the following steps:

Procedure

Globally enable Domain Filtering:

```
(Cisco Controller) > config acl url-acl enable
Step 2: Verify enablement. The URL ACL Feature field will change from Disabled to Enabled:
(Cisco Controller) > show acl url-acl summary
```

ACL	Cour	iter	Status		Disabled
URL	ACL	Feat	ture		Enabled

Access Control Lists and Rules

Domain filtering determines which HTTP based URLs to permit or deny using ACLs and rules that are assigned to WLANs, Interfaces or individual client sessions by way of Local Policies. The following steps demonstrate how to create URL based ACLs and rules for two common scenarios:

- Scenario 1—A ACL and rules are defined to deny access to specific HTTP URLs. This is commonly referred to as Blocked-Listing.
- Scenario 2—A ACL and rules are defined to only permit access to specific HTTP URLs. This is commonly
 referred to as Allowed-Listing.

Access Control Lists

Access Control Lists using GUI

To enable access control lists using GUI, perform the following steps:

Procedure

Step 1 From the WLC main menu choose **SECURITY > Access Control Lists > URL ACLs** and then click **New**.

li.ili.							Sa <u>v</u> e Co	nfiguratio	on <u>P</u> ing	Logout
CISCO	MONITOR	<u>W</u> LANs	CONTROLLER	W <u>I</u> RELESS	SECURITY	M <u>A</u> NAGEMENT	C <u>O</u> MMANDS	HE <u>L</u> P	FEEDBACK	¢
Security	URL Acc	ess Con	trol Lists			Entries 0 - 0 of	fo		New	1
 AAA Local EAP Advanced EAP Priority Order Certificate 	Enable UF	RL ACI 🗹	lied Status							
 Access Control Lists Access Control Lists CPU Access Control Lists 										

Step 2 Enter the **URL ACL Name** and then click **Apply**.

In this example a ACL named **BLOCK-HTTP-SITES** has been defined.

،، ،،، ،، cısco	MONITOR WLANS CONTROLLER WIRELESS SECURITY
Security	URL Access Control Lists > New
 AAA Local EAP Advanced EAP Priority Order Certificate 	URL ACL Name BLOCK-HTTP-SITES

Step 3

Click New to define additional ACLs.

						Sa <u>v</u> e Co	nfiguratio	on <u>P</u> ing Lo <u>q</u> out
CISCO	<u>M</u> ONITOR <u>W</u> L	ANs <u>C</u> ONTROLLER	WIRELESS	SECURITY	MANAGEMENT	C <u>O</u> MMANDS	HE <u>L</u> P	FEEDBACK
Security	URL Access	Control Lists			Entries 1 - 1 o	f 1		New
AAA Local EAP Advanced EAP	Enable URL A URL Acl Name	cl 🗹			Applied	Status		
Priority Order	BLOCK-HTTP-SI	TES			Yes			

Step 4 Enter the URL ACL Name and then click Apply.

In this example a second ACL named **PERMIT-HTTP-SITES** has been defined.

uluilu cisco	MONITOR	<u>W</u> LANs	<u>C</u> ONTROLLER	WIRELESS	<u>S</u> ECURITY	M <u>a</u> nagement
Security	URL Acc	ess Con	trol Lists > N	ew		7.2
 AAA Local EAP Advanced EAP 	URL ACL	Name	RMIT-HTTP-SITES	5		

Access Control Lists using CLI

To enable access control lists using CLI, perform the following steps:

Procedure

Step 1	Create the URL ACLs named BLOCK-HTTP-SITES and PERMIT-HTTP-SITES :
	(Cisco Controller) > config acl url-acl create BLOCK-HTTP-SITES (Cisco Controller) > config acl url-acl create PERMIT-HTTP-SITES
Step 2	Verify ACL creation. Note the Applied status fields for both ACLs will display as No until rules are added and the ACLs are applied:
	(Cisco Controller) > show acl url-acl summary URL ACL Feature Enabled ACL Counter Status Disabled
	URL ACL Name Applied

BLOCK-HTTP-SITES No ALLOW-HTTP-SITES No

Rules–Blocked-Listing Example

The following configuration steps demonstrate how to use rules to deny access to specific HTTP URLs. In this example an ordered list of URLs is defined with a deny action to block access to specific requested HTTP based URLs. As the ACL itself has an implied deny, a wildcard permit rule is added as the last rule to provide access to all other requested HTTP URLs.

Rules Blocked-Listing using GUI

To enable rules Blocked-Listing using GUI, perform the following steps:

Procedure

Step 1 From the WLC main menu choose SECURITY > Access Control Lists > URL ACLs. Click on the URL ACL Name to add rules.

lulu		Sa <u>v</u> e
cisco	MONITOR WLANS CONTROLLER WIRELESS SECURI	ity m <u>a</u> nagement c <u>o</u> mmand
Security	URL Access Control Lists	Entries 1 - 2 of 2
AAALocal EAP	Enable URL Acl 🗹	
Advanced EAP	URL Acl Name	Applied Status
Priority Order	BLOCK-HTTP-SITES	No
Certificate	PERMIT-HTTP-SITES	No

Step 2 Click Add New Rule.

ahaha						Sa <u>v</u> e Co	nfiguratio	on <u>P</u> ing
cisco	MONITOR WLAN	s <u>C</u> ONTROLLER	WIRELESS	<u>S</u> ECURITY	M <u>A</u> NAGEMENT	C <u>O</u> MMANDS	HELP	<u>F</u> EEDBACK
Security	URL Access C	ontrol Lists > E	dit		1	< Back	Add N	ew Rule
 AAA Local EAP 	General							
Advanced EAP	URL ACL Name Status	BLOCK-HTTP Not Applied	P-SITES					

Step 3 Enter a **Rule Index** then define a **URL** to match and **Action**. In this example, the URL **www.cisco.com** has been defined as the first rule with the action set to **Deny**. Click **Apply**. Add additional **Deny** rules as required.

						Sa <u>v</u> e Co	nfigurati
cisco	<u>M</u> ONITOR <u>W</u> LANs	<u>C</u> ONTROLLER	WIRELESS	SECURITY	MANAGEMENT	C <u>O</u> MMANDS	HE <u>L</u> P
Security	URL Access Cor	trol Lists > R	ules > New				
AAALocal EAP	Rule Index	1					
Advanced EAP	URL	www.cisco.co	om				
 Priority Order Certificate 	Action	Deny	•				

Step 4 Define a final rule that permits access to all other HTTP sites. In this example, a wildcard URL * has been defined as the last rule with the action set to **Permit**. Click **Apply**.

uluilu cisco	MONITOR	<u>W</u> LANs	CONTROLLER	WIRELESS	<u>s</u> ecurity	MANAGEMENT	Sa <u>v</u> C <u>O</u> MMAN
Security	URL Acc	ess Cor	trol Lists > R	ules > New	<u> </u>	Y.:	
 AAA Local EAP Advanced EAP Priority Order Certificate 	Rule Index URL Action		6 * Permit	T			

Step 5 Verify your rules are correct then click **Apply All**. The **Status** field will change from **Not Applied** to **Applied**.

cisco	MONITOR	<u>W</u> LANs	CONTROLLER	WIRELESS	<u>s</u> ecurity	
Security	URL Acce	ss Con	trol Lists > E	dit	·	1
 AAA Local EAP 	General					
Advanced EAP	URL ACL Nam Status	ne	BLOCK-HTTP Applied	-SITES		
Priority Order	19 19					

Note The configuration steps for adding rules 2 - 5 are not shown in this example, however the procedure for adding the rules is identical to what is demonstrated in step 3.

Rules Blocked-Listing using CLI

To enable rules Blocked-Listing using CLI, perform the following steps:

Procedure

Step 1 Create rules for the ACL named **BLOCK-HTTP-SITES**.

```
(Cisco Controller) > config acl url-acl rule add BLOCK-HTTP-SITES 1
(Cisco Controller) > config acl url-acl rule url BLOCK-HTTP-SITES 1 www.cisco.local
(Cisco Controller) > config acl url-acl rule action BLOCK-HTTP-SITES 1 deny
(Cisco Controller) > config acl url-acl rule add BLOCK-HTTP-SITES 2
(Cisco Controller) > config acl url-acl rule url BLOCK-HTTP-SITES 2 www.nba.local
(Cisco Controller) > config acl url-acl rule action BLOCK-HTTP-SITES 2 deny
!
```

! Configuration Suppressed for rules 3 - 5
!
(Cisco Controller) > config acl url-acl rule add BLOCK-HTTP-SITES 6
(Cisco Controller) > config acl url-acl rule url BLOCK-HTTP-SITES 6 *
(Cisco Controller) > config acl url-acl rule action BLOCK-HTTP-SITES 6 permit

Step 2 Apply the ACL.

(Cisco Controller) > config acl url-acl apply BLOCK-HTTP-SITES

Step 3 Verify the ACL rules.

(Cisco C	ontroller)	> show acl url-acl detailed BLOCK-HT	ITP-SITES
RuleInde	x Action	URL	Hit Count
1	Deny	www.cisco.com	0
2	Deny	www.nba.com	0
3	Deny	www.disney.com	0
4	Deny	www.nfl.com	0
5	Deny	www.united.com	0
6	Permit	*	0

Step 4 Verify the ACL has been applied. The Applied status field for the **BLOCK-HTTP-SITES** ACL will change from **No** to **Yes**.

```
(Cisco Controller) > show acl url-acl summaryURL ACL FeatureEnabledACL Counter StatusDisabled------HighURL ACL NameAppliedBLOCK-HTTP-SITESYesALLOW-HTTP-SITESNo
```

Rules–Allowed-Listing Example

The following configuration steps demonstrate how to use rules to only permit access to specific HTTP URLs (commonly referred to as Allowed-Listing). In this example an ordered list of URLs is defined with a permit action to allow access to specific requested HTTP based URLs. As the ACL has an implied deny, access to all other requested HTTP URLs will be blocked.

Rules Allowed-Listing using GUI

To enable rules Allowed-Listing using GUI, perform the following steps:

Procedure

Step 1

From the WLC main menu choose SECURITY > Access Control Lists > URL ACLs. Click on the URL ACL Name to add rules.

lindin							Sa <u>v</u> e Co	nfiguration
CISCO	MONITOR	<u>W</u> LANs	<u>C</u> ONTROLLER	WIRELESS	SECURITY	MANAGEMENT	C <u>O</u> MMANDS	HELP
Security	URL Acce	ess Con	trol Lists			Entries 1 - 2 of	f 2	1
AAA Local EAP Advanced EAP	Enable UR URL Acl Na	L Acl 🕑				Applied	Status	
Priority Order	BLOCK-HTTP	P-SITES				Yes		
Certificate	PERMIT-HTT	P-SITES				No		

Step 2 Click Add New Rule.

iiliiilii cisco	MONITOR WLANS	<u>c</u> ontroller	W <u>I</u> RELESS	<u>s</u> ecurity	M <u>A</u> NAGEMENT	Sa <u>v</u> e Co C <u>O</u> MMANDS	nfiguratio HE <u>L</u> P	on <u>P</u> ing <u>F</u> EEDBAC
Security	URL Access Co	ntrol Lists > E	dit		1	< Back	Add N	ew Rule
AAALocal EAP	General							
Advanced EAP Priority Order	URL ACL Name Status	PERMIT-HTT Not Applied	P-SITES					

Step 3 Enter a Rule Index then define a URL to match and Action. In this example the URL www.cisco.com has been defined as the first rule with the action set to Permit. Click Apply. Add additional Permit rules as required.

cisco	<u>M</u> ONITOR <u>W</u> LANs	CONTROLLER	WIRELESS	<u>s</u> ecurity	MANAGEMENT	Sa <u>v</u> e C C <u>O</u> MMANDS
Security	URL Access Con	trol Lists > R	ules > New			
AAALocal EAP	Rule Index	1				
Advanced EAP Priority Order Certificate 	URL Action	Permit	om ▼			

Step 4

Verify your rules are correct then click Apply All. The Status field changes from Not Applied to Applied.

cisco	MONITOR	<u>W</u> LANs	<u>C</u> ontroller	W <u>I</u> RELESS	<u>s</u> ecurity
Security	URL Acc	ess Con	trol Lists > E	dit	
 AAA Local EAP 	General				
Advanced EAP	URL ACL Na Status	ime	PERMIT-HTTF Applied	P-SITES	
Priority Order					

Rules Allowed-Listing using CLI

To enable rules Allowed-Listing using CLI, perform the following steps:

Procedure

```
Step 1
        Create rules for the ACL named ALLOW-HTTP-SITES.
         (Cisco Controller) > config acl url-acl rule add ALLOW-HTTP-SITES 1
         (Cisco Controller) > config acl url-acl rule url ALLOW-HTTP-SITES 1 www.cisco.local
         (Cisco Controller) > config acl url-acl rule action ALLOW-HTTP-SITES 1 permit
Step 2
        Apply the ACL.
         (Cisco Controller) > config acl url-acl apply ALLOW-HTTP-SITES
Step 3
         Verify the ACL rules
         (Cisco Controller) > show acl url-acl detailed ALLOW-HTTP-SITES
        RuleIndex Action
                                      URT
                                                           Hit Count
         _____
             1
                  Permit www.cisco.com
                                                                 0
```

Step 4 Verify the ACL has been applied. The Applied status field for the **ALLOW-HTTP-SITES** ACL will change from **No** to **Yes**.

```
(Cisco Controller) > show acl url-acl summaryURL ACL FeatureEnabledACL Counter StatusDisabled------URL ACL NameApplied------BLOCK-HTTP-SITESYesALLOW-HTTP-SITESYes
```

Enabling Hit Counters

Hit counters can be optionally enabled to monitor the number of rule hits for each URL ACL. Hit counters are useful for troubleshooting ACLs as the counters are incremented by one as each rule is matched. The following step demonstrates how to globally enable ACL hit counters on a WLC.

Enabling Hit Counters using GUI

To enable hit counters using GUI, perform the following steps:

Procedure

Step 1 From the WLC main menu choose Security > Access Control Lists > Access Control Lists. Select Enable Counters and then click Apply.

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،، ،،، ،، cısco	MONITOR	<u>w</u> lans	<u>C</u> ONTROLLER	WIRELESS	<u>s</u> ecurity
Security	Access (Control L	.ists	1	
► AAA			_		
Local EAP	Enable Co	ounters			
Advanced EAP	Name Ty	pe			

Step 2 From the WLC main menu choose **Security > Access Control Lists > URL ACLs**. Click on the desired **URL ACL Name** to view the Hit Count for each matched URL.

cisco	MONITOR	<u>w</u> lans	CONTROLLER	WIRELESS	<u>s</u> ecurity	M <u>a</u> nagement	Sa <u>v</u> e C <u>O</u> MMAND
Security	URL Acce	ess Con	trol Lists > E	dit		1	< Back
 Local EAP Advanced EAP Priority Order 	URL ACL Nar Status	ne (URI	BLOCK-HTTP Applied	-SITES	Actio	n Hit Count	1
 Certificate Access Control Lists Access Control Lists CPU Access Control Lists FlexConnect ACLs Layer2 ACLs URL ACLs 	1 2 3 4 5	www.cis www.nb www.di www.nf www.ur	sco.com pa.com sney.com I.com nited.com		Deny Deny Deny Deny Deny Deny	41 24 7 8 1	
 Wireless Protection Policies 	6	*			Permi	t 25	۵

Enabling Hit Counters using CLI

To enable hit counters using CLI, perform the following steps:

Procedure

Step 1 Globally enable ACL Hit Counters.

(Cisco Controller) > config acl counter start

Step 2 Verify enablement. The ACL Counter Status field changes from Disabled to Enabled.

```
(Cisco Controller) > show acl url-acl summaryURL ACL FeatureEnabledACL Counter StatusEnabledURL ACL NameAppliedBLOCK-HTTP-SITESYesALLOW-HTTP-SITESYes
```

Step 3 View the Hit Counters for a specific ACL. In this example the Hit Count for the ACL named **BLOCK-HTTP-SITES** is displayed.

(Cisco Controller) > show acl url-acl detailed BLOCK-HTTP-SITES RuleIndex Action URL Hit Count

1	Deny	www.cisco.com	41
2	Deny	www.nba.com	24
3	Deny	www.disney.com	7
4	Deny	www.nfl.com	8
5	Deny	www.united.com	1
6	Permit	*	25

Applying Access Control Lists

URL ACLs can be assigned dynamically to clients using Local Policies or directly to WLANs or Interfaces:

- Local Policy-The URL ACL is applied to all clients assigned the Local Policy. URL ACLs assigned using Local Policies have the highest priority and will override URL ACLs assigned to the WLAN or Interface.
- WLANs The URL ACL is applied to all clients associated to the WLAN (unless a URL ACL is assigned to a client using a Local Policy). URL ACLs assigned to a WLAN will override a URL ACL assigned to an Interface.
- Interfaces The URL ACL is applied to all traffic forwarded specific interface.

The following steps demonstrate how to assign URL ACLs on a WLC to WLANs, Interfaces and Local Policies.

WLANs

Accessing WLANs using GUI

To access WLANs using GUI, perform the following steps:

Procedure

Step 1 From the WLC main menu chooseWLANs > WLANs. Select a WLAN ID to modify the access to the QoS tab. Verify Application Visibility is enabled.





Note Application Visibility must be enabled on each WLAN for an assigned URL ACL.

Accessing WLANs using CLI

To access WLANs using CLI, perform the following steps:

Procedure

Step 1	Disable the target WLAN. In this example WLAN id 1 is disabled. The WLC does not allow you to assign the ACL if the target WLAN is enabled.						
	(Cisco Controller) > config wlan disable 1						
Step 2	Assign the URL ACL to the WLAN. In this example the ACL named BLOCK-HTTP-SITES is assigned to WLAN 1 .						
	(Cisco Controller) > config wlan url-acl 1 BLOCK-HTTP-SITES						
Step 3	Re-enable the disabled WLAN.						
	(Cisco Controller) > config wlan enable 1						
Step 4	Verify the ACL assignment. If no ACL has been assigned to the WLAN, the WLAN URL ACL field will show unconfigured .						
	(Cisco Controller) > show wlan 1 WLAN Identifier						

```
! Output Suppressed
!
WLAN Layer2 ACL...... unconfigured
WLAN URL ACL..... BLOCK-HTTP-SITES
mDNS Status..... Enabled
!
```

Note You can remove the ACL from a WLAN by issuing the **config wlan url-acl <wlan-id> none** command.

Interfaces

Interfaces using GUI

To access interfaces using GUI, perform the following steps:

Procedure

From the WLC main menu choose **CONTROLLER > Interfaces**. Select an **Interface Name** to modify, then under **Access Control List** assign the desired **URL ACL**. Click **Apply**.

cisco	MONITOR	<u>W</u> LANs	<u>C</u> ONTROLLER	W <u>I</u> RELESS	<u>S</u> ECURITY	MANAGEMENT		
Controller	Interface	Address	5					
General Icons Inventory Interfaces Interface Groups Multicast Network Routes Redundancy Internal DHCP Server	VLAN Identifier IP Address Netmask Gateway IPv6 Address Prefix Length IPv6 Gateway Link Local IPv6 Address			25 192.168.25.22 255.255.255.0 192.168.25.1 :: 128 :: fe80::4e00:82ff:fe71:4faf/64				
 Mobility Management Ports NTP CDP PMIPv6 Tunneling 	ement Primary DHCP Server Secondary DHCP Server DHCP Proxy Mode Enable DHCP Option 82			192.168 Global	¥			
 Iunneling IPv6 mDNS 	ACL Nam	ne	Г	none V	TTES Y			
	ONEMOL		L					

Interfaces using CLI

To access interfaces using CLI, perform the following steps:

Procedure

Step 1	Disable the WLANs using the target Interface. In this example WLAN id 3 is mapping clients vlan25 . The WLC does not allow you to assign the ACL to an Interface if there are any active WLANs using the interface.					
	(Cisco Controller) > config wlan disable 3					
Step 2	Assign the URL ACL to the WLAN. In this example the ACL named BLOCK-HTTP-SITES is assigned to WLAN 1 .					
	(Cisco Controller) > config interface url-acl vlan25 BLOCK-HTTP-SITES					
Step 3	Re-enable the disabled WLAN.					
	(Cisco Controller) > config wlan enable 3					
Step 4	Verify the ACL assignment. Note if no ACL has been is assigned to the Interface, the WLAN URL ACL field will show unconfigured .					
	<pre>(Cisco Controller) > show interface detailed vlan25 Interface Name</pre>					
	Note You can remove the ACL from a Interface by issuing the config interface url-acl <interface-name> none command.</interface-name>					

Local Policies

Local Policies using GUI

To access local policies using GUI, perform the following steps:

Procedure

From the WLC main menu select **SECURITY > Local Policies**. Select a **Policy Name** to modify, then under **Action** assign the desired **URL ACL**. Click **Apply**.

ECURITY	WIRELESS	<u>C</u> ONTROLLER	<u>W</u> LANs	MONITOR	،، ،،، ،، cısco	
	2		Edit	Policy >	Security	
	JDENTS	ST 1	ime teria	Policy Na Policy Id Match Crit	 AAA General RADIUS Authentication Accounting Fallback DNS Downloaded AVP TACACS+ LDAP Local Net Users MAC Filtering Disabled Clients User Login Policies AP Policies Denomed Policies 	
	INTS	STUD	le String	Match Ro		
	• 2Wire-Device	none	t ype	Device Lis		
					Local EAP	
				Action	Advanced EAP	
s 🔻	10ne ▼ BLOCK-HTTP-SI			IPv4 ACL URL ACL	Priority OrderCertificate	
S	2Wire-Device 2Wire-Device bone T BLOCK-HTTP-SJ		ule String LP Type tt ype	Match Ro Match EA Device Lis Device Ty Action IPv4 ACL URL ACL	 TACACS+ LDAP Local Net Users MAC Filtering Disabled Clients User Login Policies AP Policies Password Policies Local EAP Advanced EAP Priority Order Certificate Access Control Lists 	



Local Policies using CLI

To access local policies using CLI, perform the following steps:

Procedure

Step 1	Assign the ACL to the target Local Policy. In this example the ACL named BLOCK-HTTP-SITES is assigned to a Local Policy named STUDENTS .
	(Cisco Controller) > config policy STUDENTS action url-acl enable BLOCK-HTTP-SITES
tep 2	Verify the ACL assignment.
	(Cisco Controller) > config interface url-acl vlan25 BLOCK-HTTP-SITES
step 3	Re-enable the disabled WLAN.
	(Cisco Controller) > config wlan enable 3
step 4	Verify the ACL assignment. Note if no ACL has been assigned to the Local Policy, the URL ACL field will show <none></none> .
	(Cisco Controller) > show POLICY STUDENTS
	Policy Index 1
	Match Role STUDENTS
	Match Eap Type
	IPV4 ACL
	Block-HTTP-STIES
	Flexconnect cilent Act Knone>

QOS..... BRONZE !

! Output Suppressed !

Note You can remove the ACL from a Local Policy by issuing the config policy <policy-name> action url-acl disable command.