# External Captive Portal in Cisco Business Dashboard

### **Objective**

The objective of this article is to go over the steps to configure the external Captive Portal feature in Cisco Business Dashboard (CBD) version 2.5.1 and later.

### **Applicable Devices | Software Version**

Cisco Business Dashboard | 2.5.1 (<u>Download latest</u>) CBW140 Series | 10.8.1.0 (<u>Download latest</u>) CBW150 Series | 10.3.2.0 (<u>Download latest</u>)

### Introduction

CBD version 2.5.1 has implemented an external Captive Portal page for CBW140 and CBW150 series networks. This can be used as a guest network authentication page and offers several advantages over local captive portal pages.

Instead of redirecting the client to the local Captive Portal Page at 192.0.2.1, it redirects to CBD using the CBD's FQDN and SSL certificate. This avoids triggering the enhanced HTTP Strict Transport Security (HSTS) that modern browsers have implemented. The external Captive Portal page has a simplified deployment that makes it easy to manage multiple sites with guest networks.

All the settings for the page and authentication policies are configured within CBD. When you set up the guest network, it supports Web Consent, Email Address, and logging in CBD accounts or going to another RADIUS server.

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### **Guest Network Requirements**

To use the new Guest Network Authentication page, you must have

CBD version 2.5.1 CBW140 Series Firmware 10.8.1.0 (or later) CBW150 Series Firmware 10.3.2.0 (or later)

### **Configure Guest Authentication**

To configure the captive portal web page:

#### Step 1

Login to your CBD and navigate to **Network Configuration > Guest Portals**.



#### Step 2

The *Guest Portals* page shows each CBD Organization's web page. To edit a page, select the profile and press the edit button.

Guest Po	rtals	
C 2		
1	Profile Name	Organization
0>	Default guest portal	Default

If you have two or more networks that need unique captive portal pages, you will need to set up separate CBD organizations and have each network join the separate organization.

#### Step 3

The configuration options include

- *Profile Name* It is a unique identifier within CBD so you can easily keep track of what page goes with each organization.
- Organization Shows what organization the captive portal is connected to.
- Header Text Shows the header that will be displayed by the web browser.
- *Background Image* and *Logo Image* show where you can drag and drop in graphics to be displayed on your captive portal page.
- The foreground, background, separator, content foreground, content background, and account tips background color fields all allow you to change the color of the respective aspects of your display.
- The Fonts menu allows you to choose the font used on the captive portal page.
- The other fields allow you to edit the text that displays on the page.

			Separator Color		Acceptance Prompt	Check here to indicate that you have read and accepted the
Device Group Selection						Acceptance Use Policy
Profile Name	Default guest portal		Content Foreground Color			1
Organization	Default -		Content Background Color		No Acceptance Warning	Frror: You must acknowledge the
Web Portal Customization			Account Tips Background Color			Acceptance Use Policy before connecting!
Header Text	Web Portal Guest Access					
Background Image			Fonts	Arial -		11.
			Button Label	Connect	Work In Progress Message	Connecting, please be patient
	Drag and drop file here, or cl to select from the filesyster	n	Browser Header Text	Captive Portal		
	background png	 M				11.
l ogo Image	background.prig				Invalid Credentials Message	Error: Invalid Credentials, please
2000 mm20			Portal Title	Welcome to the Wireless Network		try again!
	Drag and drop file here, or cl to select from the filesyster	ick n				11.
				1.	Connection Succeeded Message	Congratulations!
	loginlogo.png	Û	Acceptable Use Policy	Acceptance Use Policy		
Foreground Color						
Background Color						11.
				III.	Welcome Message	You are now authorized and

#### Step 4

Click on one of the following tabs to configure the text options for authentication.

- Username/Password
- Web Consent
- Email Address

Click the **Preview** button to see how each of the menu options will be displayed.

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#### Step 5

Once you have customized the web page, click on Update or Cancel.

Login Instructions

To start using this service, enter your credentials and click the connect button

# **Configure Wireless LAN**

#### Step 1

Navigate to **Network Configuration > Wireless LANs**.



#### Step 2

You can either add or edit an existing *Wireless LANs* Profile. In this example, **add** is selected.



Specify the *Profile Name*, *Organization, and Device Groups* within the organization that this will apply to.

Wireless LANs->Add WLAN							
Device Group Selection							
Profile Name	Training Test	~	1				
Organization	Default	~	2				
Device Groups	Available Groups Default	>	Selected Groups				
_		<					
		>>					
		<<					

You may simply choose the Default organization and the Default Device Group.

Add a Wireless LAN by clicking the **plus** icon.

Wireless LANs	s				
+					
SS	SID Name	VLAN ID	Enable	Security	Action

#### Step 5

Specify SSID Name and VLAN ID. Choose Guest from the Security drop-down menu.

Add Wireless LANs		×
Enable	Enable	
SSID Name	Guest Test	<ul> <li>1</li> </ul>
VLAN ID	1	<ul><li>✓ 2</li></ul>
Security	Guest	<b>~</b> 3

#### Step 6

Select the Guest authentication method. The options are:

- Username/Password
- Web Consent
- Email Address

Guest authentication	Username/Password 🔹
Advanced Settings	Username/Password
Auvanced Settings	Web Consent
Broadcast	Email Address

#### Step 7

Under Advanced Settings, you can also specify if you want the SSID to Broadcast, the Application Visibility, Local Profiling, and Radio settings.

<ul> <li>Advanced Settings</li> </ul>	
Broadcast	Enable
Application Visibility	Enable
Local Profiling	Enable
Radio	вотн 👻

In most cases, you will leave these at the default setting.

#### Step 8

Click Save.

Add Wireless LANs

$\sim$	

Enable	Enable	
SSID Name	Guest Test	~
VLAN ID	1	~
Security	Guest	
Guest authentication	Username/Password	
<ul> <li>Advanced Settings</li> </ul>		
Broadcast	Enable	
Application Visibility	Enable	
Local Profiling	Enable	
Radio	BOTH -	
	Save	ancel

### Step 9

### Click Save once again.

Device Group Selection				
Profile Name	Training Test	~		
rganization	Default	~		
Device Groups	Available Groups Default		Selected Groups	
5		< >> <<		
Vireless LANs				
SSID Name	VLAN ID	Enable	Security	Action
	1	Yes	Guest (Username/Password)	12 角

# **CBW Guest Network Settings**

### Step 1

Login to your Cisco Business Wireless (CBW) access point.

cisco Business



Welcome! Please click the login button to enter your user name and password



#### Step 2

Navigate to Wireless Settings > WLANs.

#### Step 3

You can edit the WLAN and go to the **WLAN Security** tab. The *Captive Portal* will be set to the **External Splash page** with the *Captive Portal URL* of your CBD server. The *ACL Name* will be automatically configured.

General	WLAN Security	VLAN & Firewall	Traffic Shaping	Scheduling
	Guest Network			
Captiv	ve Network Assistant			
	MAC Filtering			
	Captive Portal	External Splash	page 🔻	0
	Captive Portal URL	https://cbd2.	iet/contre	
'	Access Type	RADIUS	•	
	ACL Name(IPv4)	CBD_cbd2.	n 🔻 😮	3
	ACL Name(IPv6)	None	• 8	

#### Step 4

The RADIUS server is automatically configured. To view it, switch to **Expert View** by clicking the bi-directional arow at the top of the page.



#### Step 5

Navigate to Management > Admin Accounts.



#### Step 6

#### Click on the RADIUS tab.

Managem Auth Cach	ent User Pri ned Users	ority Order	Local Adr	nin Accounts	TACAG	CS+ RAD	DIUS
Authenticat	ion Call Stat	ion ID Type	AP MAC	Address:SSI	- C		
Authe	ntication MA	C Delimiter	Hyphen		•		
Account	ing Call Stat	ion ID Type	IP Addre	ss	•		
Ac	counting MA	C Delimiter	Hyphen		•		
	Fal	Iback Mode	Passive		•		
		Username	cisco-pro	be			
		Interval	300		\$	Seconds	
	AP Events	Accounting					
			Apply				
Add RADIUS Authentication Server							
Action	Server Index	Network User	Management	State	Server IP A	Shared Key	Port
<b>⊮ ×</b>	1				3	*****	1812

#### Step 7

It will also dynamically add a security ACL for CBD under **Advanced > Security Settings**.

<b>3</b> 2	Monitoring	0	۱۱ c	liilii Isco	Cisco Busir	ness W	ireless 140AC Access Point	Q	A	٩		₽	$\geq$
٠	Wireless Settings												
ġ.	Management	Security Settings											
æ	Services												
*	Advanced ✔ SNMP												
	🗟 Logging	Add new ACL											
	I RF Optimization	Act	ion	ACL 1	Гуре		ACL Name			Policy AC	iL.		
	I RF Profiles	ß	×	IPv4			CBDr.net_0			Not mapp	ed		
	F Primary AP Tools	8	×	IPv4			Enable_Facebook_Login			Not mapp	ed .		
	Security Settings	ß	×	IPv4			Enable_Social_Login			Not mapp	ed		

### **Captive Portal Page**

Based on how you have configured the settings, the captive portal page will look like the following:

Username/Password Authentication

CISCO Web Portal Guest Access	
	Welcome to the Wireless Network
	To start using this service, enter your credentials and click the connect button
	Username
	Enter your Username/Password
	Password
	•••••••
	Acceptable Use Policy
	<ul> <li>Check here to indicate that you have read and accepted the Acceptable Use Policy</li> </ul>
	Connect

#### Web Consent

alialia cisco	Web Portal Guest Access	
		Welcome to the Wireless Network
		Please accept the Acceptable Use Policy
		Assessable Har Dellar
		Ассертаble Use Ровсу
		Check here to indicate that you have read and accepted the Acceptable Use Policy
		Connect

#### **Email Authentication**

diality Web Portal Guest Access	
	Welcome to the Wireless Network
	Please enter your email address to login
	Email Address
	Enter your Email Address
	Acceptable Use Policy
	<ul> <li>Check here to indicate that you have read and accepted the Acceptable Use Policy</li> </ul>
	Connect

# Conclusion

You did it! You have successfully set up the external Captive Portal page using CBD.