How to Setup Captive Portal - DWC-2000 Wireless Controller

This example will use the following devices and setup:

DWC-2000 – Unified Wireless Controller

DWL-6600AP - Unified Wireless N Simultaneous Dual-Band PoE Access Point



Step 1 – Enter the web GUI interface of the DWC-2000 Wireless Controller using its IP address in a web browser. In our example we have used the IP address of **192.168.10.1**



Accept any certificate warnings you may see, this is perfectly normal and safe

Step 2 – We first now need add a new user group for Captive Portal

D-Lin Unified Contro	1k Iller - DWC 2000	Serial Number: 533	91F3000010 Firm	ware Version	1: 4.4.0.3_B101	Logged in as: admin (ADWIN WW Language: English [US Wizard System S) 🚺 Logout
	A Status	🛜 Wireless	Network		Security	O Maintenance	
Security » Authen	tication 🔅 User Datab	ase » Groups					0 0
Get User DB	Groups Users	MAC Authentication	Password Rules				
This page shows th	he list of added group	ps to the controller. The	user can add, de	lete and edi	t the groups al	50.	
Groups List							
Show 10 e	ntries (Right cli	ck row to see more option	s]				٩
Group Name			0	Descriptio	n.		θ
ADMIN				Admin Group			
GUEST				Guest Group			
Showing 1 to 2 of 2	entries					First Previous 1	Next > Last >
Add New Gro	up						

Security > User Database > Groups

Click "Add New Group"

Step 3 – Enter "Group Configuration", please refer to our example below

Group Configuration		8
Group Name Description	CaptivePortal Captive Portal Group	
User Type	O Admin Network OFront Desk O Guest	
Captive Portal User		
Session Timeout	0 [Default: 0, Range: 0 - 1440] Minutes	
Idle Timeout	10 [Default: 10, Range: 1 - 999] Minutes	
		Save

Group Name: CaptivePortal

Description: Captive Portal Group

User Type: Network

Captive Portal User: On

Session Timeout: 0

Idle Timeout: 10

Once complete, click "Save"

Groups List	
Show 10 entries [Right click row to see more options]	٩
Group Name O	Description 0
ADMIN	Admin Group
CaptivePortal	Captive Port
GUEST	Guest Group
Showing 1 to 3 of 3 entries	1 First 1 Previous 1 Next > Last >

Step 4 – We now need add new user(s) for Captive Portal

D-Lin Unified Contro	iller - DWC 2000	Serial Nu	imber: \$3391	IF3000010 Firmwar	e Version:	4.4.0.3	Lo 	gged in as: ad W Language: Wizard	min (ADMIN) English [US System Se	earch ۹
	Status	🛜 Wir	eless	Network		Securi	ty	🗘° Mainte	enance	
Security » Authen	itication 🤉 User Databas	e » Users								0 0
Get User DB	Groups Users M	AC Authent	ication Pa	ssword Rules						
This page shows a users.	list of available users	in the syste	m. A user ca	in add, delete and e	dit the use	ers also	. This pa	ge can also be	e used for se	tting policies on
Users List										
Show 10 e	ntries [Right click	row to see n	nore options]							٩
User Name		O Gr	oup Name			θ	Login S	tatus		θ
admin		ADA	WIN				Enabled			
guest		GU	EST				Disabled			
Showing 1 to 2 of 2	entries							付 First 🔄 P	revious 1	Next 🔰 Last 刘
Add New Use	r									

Security > User Database > Users

Click "Add New User"

Step 5 – Enter "User Configuration", please refer to our example below

User Configuration	8
User Name	CP
First Name	Captive
Last Name	Portal
Select Group	CaptwPotal
Enable Password Change	007
MultiLogin	
Password	
Confirm Password	
	Save

User Name: cp
First Name: Captive
Last Name: Portal
Select Group: CaptivePortal (This was created in Step 3)
Enable Password Change: Off (Optional)
MultiLogin: On
Passoword: Enter your password
Confirm Password: Re-enter the above password

Once complete, click "Save"

Users List					
Show 10 v entries [Right click row to	see more options]			٩
User Name	0	Group Name	θ	Login S	tatus Θ
admin		ADMIN		Enabled	
cp		CaptivePortal		Enabled	
guest		GUEST		Disabled	
Showing 1 to 3 of 3 entries					First Previous 1 Next > Last >

Step 6 – We now need edit the AP Profile and SSID

Wireless > Access Point > AP Profile > AP Profile SSID

ified Contro	l K ller - DWC 2000	Serial Number: \$33	91F3000010	Firmware Version:	Log 4.4.0.3_B101_WW	ged in as: admin / Language: En Wizard	(ADMIN) O Logou Iglish [US] System Search
	🙆 Status	🛜 Wireless	📃 Netv	work 🔒	Security	🗘 Maintena	nce
ess » Access	Point » AP Profile » Al	P Profile SSID					0
AP Profiles	AP Profile Padio AP	Profile SSID AP P	rofile OoS				
AP Promes	AF Profile Radio	Profile SSID AP P	Torrite Qos				
page displays	the virtual access point fier(SSID). We can confis	(VAP) settings associ	iated with the o 16 VAPs per	selected AP prof	ile. Each VAP is id sical access point	dentified by its n t.	etwork number and
ess Point P	rofiles SSID List						
	1011103 3310 2131						
AP Profile		1-Default		\checkmark			
Radio Mode		802.11	a/n/ac O	802.11b/g/n			
Show 10	entries (Right clic	k row to see more opti	ions]			(0
	turnes fugurene		T.				~
SSID Name	C	> SSID Status ⊖	VLAN 🖯	Hide SSID ⊖	Security 😣	Redirect 🖯	Captive Portal
1-dlink1	~	Enabled	1-Default	Disabled	WPA Personal	None	Permanent
-							
2-dink2		Disabled	1-Default	Disabled	None	None	Free
2-dink2 3-dink3	>	Disabled	1-Default 1-Default	Disabled Disabled	None	None None	Free Free
2-dink2 3-dink3 4-dink4		Disabled Disabled Disabled	1-Default 1-Default 1-Default	Disabled Disabled Disabled	None None None	None None	Free Free Free
2-dink2 3-dink3 4-dink4 5-dink5		Disabled Disabled Disabled Disabled	1-Default 1-Default 1-Default 1-Default	Disabled Disabled Disabled Disabled	None None None	None None None	Free Free Free Free
2-dink2 3-dink3 4-dink4 5-dink5 6-dink6	Y Y Y Y	Disabled Disabled Disabled Disabled Disabled	1-Default 1-Default 1-Default 1-Default 1-Default	Disabled Disabled Disabled Disabled Disabled	None None None None	None None None None	Free Free Free Free Free
2-dink2 3-dink3 4-dink4 5-dink5 6-dink6 7-dink7	Y Y Y Y	Disabled Disabled Disabled Disabled Disabled Disabled	1-Default 1-Default 1-Default 1-Default 1-Default 1-Default	Disabled Disabled Disabled Disabled Disabled Disabled	None None None None None	None None None None None	Free Free Free Free Free Free
2-dink2 3-dink3 4-dink4 5-dink5 6-dink5 7-dink7 8-dink8	Y Y Y Y Y	Disabled Disabled Disabled Disabled Disabled Disabled Disabled	1-Default 1-Default 1-Default 1-Default 1-Default 1-Default 1-Default	Disabled Disabled Disabled Disabled Disabled Disabled Disabled	None None None None None None	None None None None None None	Free Free Free Free Free Free
2-dink2 3-dink3 4-dink4 5-dink5 6-dink5 7-dink7 8-dink8 9-dink9	Y Y Y Y Y Y	Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	1-Default 1-Default 1-Default 1-Default 1-Default 1-Default 1-Default 1-Default	Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	None None None None None None None	None None None None None None None	Free Free Free Free Free Free Free Free
2-dink2 3-dink3 4-dink4 5-dink5 6-dink6 7-dink7 8-dink8 9-dink9 10-dink10		Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	1-Default 1-Default 1-Default 1-Default 1-Default 1-Default 1-Default 1-Default 1-Default 1-Default	Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	None None None None None None None None	None None None None None None None None	Free Free Free Free Free Free Free Free
2-dink2 3-dink3 4-dink4 5-dink5 6-dink5 7-dink7 8-dink8 9-dink9 10-dink10		Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	1-Default 1-Default 1-Default 1-Default 1-Default 1-Default 1-Default 1-Default 1-Default	Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	None None None None None None None None	None None None None None None None	Free Free Free Free Free Free Free Free

Right-click over 1-dlink1 and click "Edit"

AP Profiles AP Profile	Radio AP Profile S	SID AP Profile QoS				
nis page displays the virtual ervice Set Identifier(SSID). W	access point(VAP) set /e can configure and e	tings associated with th nable up to 16 VAPs per	e selected AP pro radio on each ph	file. Each VAP is io ysical access point	lentified by its i t.	network number and
ccess Point Profiles SS	ID List					
AP Profile		1-Default	\checkmark			
Radio Mode		802.11a/n/ac O	802.11b/g/n			
Show 10 entries	[Right click row to se	e more options]				٩
SSID Name	SSID S	itatus Ə VLAN Ə	Hide SSID ⊖	Security Θ	Redirect \varTheta	Captive Portal Θ
1-dink1	Enabled	2 50	Disabled	WPA Personal	None	Permanent
2-dink2	Disabler	d Dirable	Disabled	None	None	Free
3-dlink3	Disabler	- USADLE	Disabled	None	None	Free

Step 7 – Enter a SSID, in out example we have configured as follows:

SSID Configuration		8
SSID	captiveportal	^
Captive Portal Type	Permanent User	
Enable Redirect	01	
Login Profile Name	Getaut Create a Profile	
Captive Portal Authentication Configuration Authentication Server	Local User Database	
Choose Profile	Login Profile O Custome Profile	
Hide SSID	007	
Ignore Broadcast	01	
VLAN	1 [Range: 1 - 4093]	
MAC Authentication	O Local O Radius	~
	-	Save

SSID Configuration	A mond operation c	8
Redirect	None O HTTP	^
Wireless ARP Suppression Mode		
L2 Distributed Tunneling Mode		
Band Steering		
Radius Server Name	Default-RADIUS-Server	
RADIUS Authentication Server Status	Configured	
Radius Accounting Server Name	Default-RADIUS-Server	
Radius Accounting Server Status	Configured	~
		Save

SSID Configuration		
RADIUS Use Network Configuration	97	^
Accounting Mode	007	
Security	O None WPA/WPA2	
	WPA Personal O WPA Enterprise	
WPA Versions		
WPA		
WPA2		
WPA Ciphers		
ткір		
CCMP(AES)		
WPA Кеу Туре	ASCII	~
		Save

SSID Configuration	(
WPA Кеу Туре WPA Кеу	ASCII	~
Bcast Key Refresh Rate	300 [Default: 300, Range: 0 - 86400] Seconds	
Client QoS	or .	
Client QoS Bandwidth Limit Down	0 [0 to 4294967295, 0 - Disable]	
Client QoS Bandwidth Limit Up	0 [0 to 4294967295, 0 - Disable]	
Client QoS Access Control Down	none	
Client QoS Access Control Up	none	~
	Save	I

SSID Configuration		8
CTMML 1003		
Client QoS Bandwidth Limit Down	0 [0 to 4]	294967295, 0 - Disable]
Client QoS Bandwidth Limit Up	0 [0 to 4	294967295, 0 - Disable]
Client QoS Access Control Down	none	
Client QoS Access Control Up	none	
Client QoS Diffserv Policy Down	none	
Client QoS Diffserv Policy Up	none	
		Save

Once complete, click "Save"

Step 8 – Click on "AP Profiles" and you should notice the default profile has a status of "Associated-Modified"

om this page, we can cre	ate,	copy and delete AP pro	files. Up	p to 16 AP profiles can t	be crea	ted on the Unified Wireless Controller.	
cess Point Profile	List						
how 10 🔽 entries	[R	ight click row to see mor	e option:	5]			٩
AP Profile Name	0	Profile Status	θ	Hardware Type	θ	Wired Network Discovery VLAN ID	(
-Default		Associated - Modified		Any		1	
howing 1 to 1 of 1 entries						First Previous 1 Next > 1	ast 刘

Right-click over the default profile and select "Apply"

Access Point Profile Li	st						
Show 10 entries [Right click row to see more options]							٩
AP Profile Name	0	Profile Status	θ	Hardware Type Θ	Wired Netwo	rk Discovery VLAN ID	θ
1-Default		Associated -		Any	1		
Showing 1 to 1 of 1 entries		🖉 Edit				First Previous 1 Next >	Last 刘
		😥 Сору					
Add New AP Profile		🗹 Apply					
		🗶 Delete					

Step 9 – Once applied the status should show "Apply Requested"

Show 10 🔽 entries	[Right click row to see more o	ptions]		٩
AP Profile Name	Profile Status	θ Hardware Type Θ	Wired Network Discovery VLAN ID	θ
1-Default	Apply Requested	Any	1	
Showing 1 to 1 of 1 entries			First Previous Next >	Last 🖌

Step 10 – When your changes have been successfully applied you should see "Associated"

ccess Point Profile	List						
Show 10 v entries	[Ri	ght click row to see mor	e optic	ons]			٩
AP Profile Name	0	Profile Status	θ	Hardware Type	θ	Wired Network Discovery VLAN ID	e
1-Default		Associated		Any		1	
Showing 1 to 1 of 1 entries						K First Previous 1 Net	t > Last >

Step 11 – Once you have completed the above, you are now able to test the **"Captive Portal"** as follows:

The following was tested with a Nokia Lumia 920 Phone. Once you authenticate against the SSID created in **Step 7** you will be automatically re-directed to the following login screen

2 X 💼 16:35	에 (승) 16:36
• Please Login!!	•Successfully logged in
CAPTIVE PORTAL LOGIN	CAPTIVE PORTAL LOGIN
Username	Logout
Password	
Login	Copyright 2014 D-Link Corporation.
Convright 2014 D-Link Corporation omitir cancelar	omitir cancelar

Additional Notes

When a user is successfully authenticated and connected to the SSID, you are able to monitor and see the users connected by going to the following:

D-Link Unified Controller - DWC 2000	Serial Number: \$3391F3000010 Firmwar	Version: 4.4.0.3_B101_	Logged in as: admin (ADWIN) WW Language: English [US] Wizard System Se	i Logout			
🙆 Status 😚	ᅙ Wireless 📃 Network	🔒 Security	Maintenance				
Status » Network Information » Captive Portal Sessions							
Use this page to monitor the runtime authen	Use this page to monitor the runtime authentication sessions that are active on your controller.						
Captive Portal Sessions List							
Show 10 entries [Right click row	to see more options]			٩			
User Name	O IP A	ldress.		θ			
ср	192.1	\$8.1.205					
Showing 1 to 1 of 1 entries			[,] First .] Previous 1	Next 🗲 Last 🕅			

Status > Network Information > Captive Portal Sessions

You can apply the following actions to the connected users:

D-Link	C - DWC 2000	Serial Number: \$33	91F3000010 Firmware	Version: 4.4,0.3_B101	Logged in as: admin (ADMIN _WW Language: English [US 	earch ٩
	🙆 Status	🛜 Wireless	🔜 Network	Security	Maintenance	
Status » Network Infor Use this page to monit	mation » Captive	Portal Sessions	hat are active on your	controller.		0 0
Show 10 v entries	s [Right clic	k row to see more options	e]	Idress		<i>م</i> 8
cp Showing 1 to 1 of 1 entri	ies	Dis O Bio	connect ick Device	8.1.205	First J Previous 1	Next > Last >

Right-click over the current user to reveal the following options:

Disconnect - This will disconnect the user from the WLAN

Block Device – This will be remembered and will no-longer be able to connect again (unless you allow)

If you do block a device by accident or you need to unblock, then go to the following menu to un-block device

Security > Firewall > Blocked Clients

D-Lin Unified Control	ler - DWC 2000	Serial Number: \$33	91F3000010 Firmwar	Version: 4.4.0.3_B101	Logged in as: admin (ADMIN)	🕐 Logout
	🕜 Status	🛜 Wireless	🔜 Network	🔒 Security	Maintenance	
ecurity » Firewall This page shows a Block MAC Clie	 Blocked Clients list of clients MAC annotation of the second second	ddresses blocked by adr	nin.			0 0
MAC Address	tnes [kognt co	ck row to see more option	oj O D	escription		۹ 9
54:44:08:24:4c:1c			Bl	ocked		
Showing 1 to 1 of 1	entries				[] First] Previous 1 Ne.	xt 🔰 Last 🕅
Add New Bloc	ked Clients					

Right-click over blocked device and select "Delete"

Block MAC Clients List				
Show 10 v entries [Right click row to see m	ore options]			٩
MAC Address		0	Description	θ
54:44:08:24:4c:1c	Salact All		Blocked	
Showing 1 to 1 of 1 entries	Edit			[] First] Previous 1 Next > Last >
Add New Blocked Clients	X Delete			
Add Hell Diotked Onems				

Once done, this device will be able to re-join the wireless network and login via the Captive Portal.