Version 1.03 | 04/20/2016

## **D-Link**<sup>®</sup>



# **User Manual**

## **D-Link Central WifiManager**

### **Table Of Contents**

Product Overview
Software Installation4Central WifiManager Server Installation.5Access Point Module Installation.9Central WifiManager Server Application.11Access Point Installation Tool.13
Central WifiManager Configuration17
Home
Dashboard18
Site19
Device View19
Topology View20
Configuration22
Site
Create Site23
Network25
Create Network
SSID
Create SSID
VLAN52
Bandwidth Optimization56
RF optimization57
Schedule58
Device Settings
WLAN Partition63
Wireless Resource
SSL Certification
Upload Configuration
Firmware Upgrade69
Undefined AP71
System
Settings
General
Module
Database
Advanced
SMTP

Payment	80
User Manager	81
Create User Account	
Monitor	83
Report	83
Association	83
By Access Point	
By Wireless Station	
By Station Number	85
Security	86
Chart	
List	87
Channel	88
Rogue AP	89
New AP	89
Rogue AP	93
Valid AP	94
Neighbor AP	95
SysLog	96
Monitor	97
Monitor Manager	97
Create Profile	98
Monitor List	99
Event	101
Туре	101
Standard	101
Event	102
Notice	103
Private	104
Event	105
Notice	106
Condition	107
Condition Manager	107
Create Condition	108
Condition List	111
About	113
Appendix A - Front Desk Staff & User Access	114
Appendix B - How to customize Captive Portal Login Page	124

#### **Product Overview**

The D-Link Central WifiManager is a versatile, convenient software solution for administrators to manage wireless devices throughout the network from a central point.

#### **System Requirements**

For the best results, the following minimum requirements are recommended on the computer used to run the Central WifiManager Server application:

- Hardware:
  - CPU: Intel Core i5 3.2GHz.
  - RAM: 4Gb DDR3.
  - HDD Space: 2 Terrabytes.
  - Display Card: Windows Graphics Card.
  - Installed Gigabit Network Adapter.
- Operating System:
  - Microsoft<sup>®</sup> Windows 7 (Ultimate/Enterprise) (x86/x64).
  - Microsoft<sup>®</sup> Windows Server 2008 (R2 with SP2) (x64).
  - Microsoft<sup>®</sup> Windows Server 2012 (R2) (x64).

#### **Software Installation**

In the following section, we'll discuss the software that needs to be installed and used to successfully run the Central WifiManager application.

The following software applications must be installed in order:

- The Central WifiManager Server application. This is the main application that will be responsible for day-to-day wireless network management and maintenance. For more information, refer to "Central WifiManager Server Installation" on page 5 and "Central WifiManager Configuration" on page 17.
- The Access Point Module software for all access points that will be used in the Central WifiManager Server application. Every access point has its own access point module software that can be installed on the computer that hosts the Central WifiManager Server application. These modules allow seamless communication between the server and the access points using the Simple Network Management Protocol (SNMP). For more information, refer to "Access Point Module Installation" on page 9.
- The Access Point Installation Tool. This utility can be used to find new access points on the network, change the IP address of each access point, and upload the network data file for each access point. For more information, refer to "Access Point Installation Tool" on page 13.

Included at the end of this document, we have the following appendices with additional information that can be helpful to the reader:

• "Appendix A - Front Desk Staff & User Access" on page 114.

In this section, we'll discuss the installation procedure for the D-Link Central WifiManager software. After running the installation file, a welcome window will be displayed.

Click the **Next** > button to continue to the next step. Click the **Cancel** button to stop and exit the installation.

In this window, the destination location is displayed, where the software will be
installed. If this application needs to be installed at a different location or on a different
drive, click the <b>Browse</b> button and navigate to the new destination location.

Click the **< Back** button to return to the previous step. Click the **Next >** button to continue to the next step. Click the **Cancel** button to stop and exit the installation.

Welcome to the InstallShield Wizard for Central WifiManager
The InstallShield® Wizard will install Central WifiManager on your computer. To continue, click Next.
< Back Next > Cancel

ntral WifiManager - InstallShield Wizard			×
Choose Destination Location Select folder where setup will install files.			X
Setup will install Central WifiManager in the	e following folder.		
To install to this folder, click Next. To insta another folder.	ll to a different folder,	click Browse ar	nd select
Destination Folder			<b>D</b>
U:\Program Files (x86)\D-Link\Central W	ihManager		Browse
stallShield			
	1000		
	< Back	Next>	Cancel

In this window, we can view or modify the **Manager**, **Listen** and **Service Port** numbers.

Click the **< Back** button to return to the previous step. Click the **Next >** button to continue to the next step. Click the **Cancel** button to stop and exit the installation.

In this window, we need to enter the IP address or Domain Name for the Central WifiManager in the **Central WifiManager Server** space provided. This is normally the IP address of the PC being used for the installation.

Click the **Sack** button to return to the previous step. Click the **Next** > button to continue to the next step. Click the **Cancel** button to stop and exit the installation.

Central Wifi Manag	r Port Setting	12
Manager Port	9000	
Listen Port	8090	
Service Port	64768	
stallShield	< Back	Next > Cancel

Central WifiManager - InstallShield Wizard
Central WifiManager Server IP/Domain Name
Central WifiManager Server IP/Domain Name
Central WifiManager Server IP/Domain Name
0000
InstallShield

In this window, we must enter the PostgreSQL password that will be associated with this application in the spaces provided. Enter the same password in the **Password** and **Retype password** spaces provided.

Click the **< Back** button to return to the previous step. Click the **Next >** button to continue to the next step. Click the **Cancel** button to stop and exit the installation.

Password				24
Please provide a password f	or service acco	ount (postgres)		
Password				
Retype password				
stallShield				
come i nella		< Back	Next >	Cancel

The Central WifiManager software installation is running.

Click the **Cancel** button to stop and exit the installation.

The Apache HTTPS Server application might be blocked by the computer's firewall. If Windows' default firewall is used, a security alert message will be displayed. Click the **Allow Access** button to allow this application to communicate with the network.

In this window, the user is reminded that apart from the Central WifiManager installation, each access point that will be used in this application requires a separate module to be installed. This will be discussed in the next section.

Click the **Finish** button to complete and exit the installation wizard.

Central WifiManager - InstallShield Wizard Setup Status	
Central WifiManager is configuring your new software installation.	
Installing C:\\D-Link\Central WifiManager\apache24\bin\libpq.dll	
nstallShield —	Cancel

Central WifiManager - InstallShield Wizard		
	InstallShield Wizard Complete Please install the module which you want to manage before running Central Wifi Manager Server.	
	< Back Finish Cancel	

For each access point that will be used in the D-Link Central WifiManager, we need to install an additional manager module. In this section we'll discuss the installation of the DAP-2330AP access point's manager module that will be used in the D-Link Central WifiManager.

NOTE: If the Central WifiManager Server is already running, it must be stopped and closed before that Access Point manager module can be installed.

After running the access point's manager module, a welcome message will be displayed to inform the user that the manager module will now be installed on the computer.

Click the **Next >** button to continue to the next step. Click the **Cancel** button to stop and exit the installation.

After clicking next in the previous step the access point's manager module will be installed.

Click the **Cancel** button to stop and exit the installation.

DAP-2330 AP Manager Module	Setup
	Welcome to the InstallShield Wizard for DAP-2330 AP Manager Module The InstallShield® Wizard will install DAP-2330 AP Manager Module on your computer. To continue, click Next.
	< Back Next > Cancel
DAP-2330 AP Manager Module !	Setup 🗾
Setup Status	
DAP-2330 AP Manager Module	is configuring your new software installation.
Installing	

U:\...\D-Link\Lentral WiliManager\Plugins\DAP233UapHelp.d

Cancel

### Software Installation Access Point Module Installation

After the access point's manager module was installed successfully, this window will appear.

Click the **Finish** button to complete and exit the installation wizard.

DAP-2330 AP Manager Module	Setup
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed DAP-2330 AP Manager Module. Click Finish to exit the wizard.
	K Back Finish Cancel

In this section, we'll discuss the Central WifiManager Server application. After the installation was completed the following applications will be available.



Click the **Central WifiManager Server** option to open the server application.

After running the Central WifiManager Server application, the window (on the right) will appear. This is the management console window for the server application.

In the **Menu** bar, there are two option available, **Server** and **Help**. Under the **Server** menu we can **Start**, **Stop** or **Exit** the application. Alternatively, right under the **Server** menu option, there are also start and stop icons that do exactly the same thing. Under the **Help** menu option, there is an **About** option that will, after being clicked, display the name, version and copyright details of this application.

🕐 Central WifiManager Server		- <b>-</b> X
Server Help		
• =		
Settings		
Automatically start server when configuration window is open		
Message 2014-7-01 10:06:47 Syslog Server Start success. 2014-7-01 10:06:47 FTP Server online 2014-7-01 10:06:47 SnmpTrap receiver initialize successfully!	 	]
CommLog FtpLog APLiveLog DataRefreshLog AutoConfigLog	 	
Central WifiManager Server is offline		

In the Settings section, we can select to Automatically open configuration window when Windows start up and Automatically start server when configuration window is open. Select these options if needed.

After this, there server can be started by click either the start icon or being selecting **Start** in the **Server** menu option.

**NOTE:** When clicking the close icon, on the far upper right corner, this application will close and exit. The server will not be running in the background. Click the minimize icon to close this window and allow the server application to run in the background.

When the server is up and running, the left circle icon, at the far bottom right corner, will display green. When the server is not running the right circle icon, at the far bottom right corner, will display red.

To view log entries about the System, FTP Connectivity, Live Access Points, Data Transmissions and Automatic Configurations, tabs at the bottom of the **Message** section can be selected.

erver Help	
Settings	
Automatically open configuration window when Windows start up	
✓ Automatically start server when configuration window is open	
Message	
2014-7-01 10:06:47 Syslog Server Start success. 2014-7-01 10:06:47 FTP Server online	
2014-7-01 10:06:47 SnmpTrap receiver initialize successfully!	
2014-7-01 10:06:47 SnmpTrap receiver initialize successfully!	
2014-7-01 10:06:47 SnmpTrap receiver initialize successfully!	
2014-7-01 10:06:47 SnmpTrap receiver initialize successfully!	
2014-7-01 10:06:47 SnmpTrap receiver initialize successfully!	
2014-7-01 10:06:47 SnmpTrap receiver initialize successfully!	
2014-7-01 10:06:47 SnmpTrap receiver initialize successfully!	
2014-7-01 10:06:47 SnmpTrap receiver initialize successfully!	
2014-7-01 10:06:47 SnmpTrap receiver initialize successfully!           CommLog         FtpLog         APLiveLog         DataRefreshLog         AutoConfigLog	

The Access Point Installation Tool is an additional utility that compliments the D-Link Central WifiManager. This utility can be used to scan for new D-Link access points in the network, regardless of what IP range they are configured in, and then pre-configure them to be used in the Central WifiManager. To add new Access Points into the CWM, we need to run Access Point Installation Utility for CWM first. This is required to provide initial synchronization (IP address of the CWM server and authentication information) of APs with the CWM. Once the APs are synchronized with CWM, we can use the CWM: 'Uploading Configuration' option, to push new configuration or any amended configuration remotely to the APs.

After opening the Access Point Installation Tool, the following window will be available.

Click the **Discovery** button, to scan for D-Link access points that are connected to the network with an Ethernet cable.

After clicking the **Discovery** button, this utility will scan the network for D-Link access points that are connected to the network with an Ethernet cable. This utility will find

D-Link access points regardless of what IP address they're configured in.

				Time Out 3	Retry 1	Discovery	Set IP	Set GroupInfo
Address	Model Name	HW Version	MAC Address	NetMask	SNMP	FW Version	Action	Status

				Time Out 3	Retry 1	Discovery	Set IP	Set Grou
PAddress	Model Name	HW Version	MAC Address	NetMask	SNMP	FW Version	Action	Status
192.168.0.205	DAP-2695	A	002695128470	255.255.255.0	✓ Enable	1.11		
192.168.0.204	DAP-2310	В	C4A81D91B110	255.255.255.0	<ul> <li>Enable</li> </ul>	2.02		
192.168.0.202	DAP-2330	A	C4A81D90CD90	255.255.255.0	Enable	1.01		
192.168.0.207	DAP-2553	B1	EC2280B61B78	255.255.255.0	<ul> <li>Enable</li> </ul>	3.00		
192.168.0.206	DAP-2690	В	9CD643290490	255.255.255.0	Enable	3.11		
			Discover	Discover				
			Elansed Ti	me			00.00.02	

To change the IP address of an access point discovered, select the check box next to it and click the **Set IP** button.

After clicking the Set IP button, the following parameters can be configured:

Parameter	Description
IP Mode	Select the IP mode for the access point here. Options to choose from are <b>Static IP Address</b> , to manually configure the IP settings, and <b>Dynamic IP Address</b> , to allow a DHCP server to automatically assign the IP settings to the access point.
IP Address	Enter the new IP address for the access point here.
Sub Mask	Enter the new subnet mask for the access point here.
Gateway	Enter the gateway's IP address for the access point here.
DNS	Enter the DNS address for the access point here.
User Name	After clicking the <b>Advanced</b> button, we can enter the login username of the access point here.
Password	After clicking the <b>Advanced</b> button, we can enter the login password of the access point here.
Authentication	After clicking the Advanced button, we can select the login authentication encryption method used. Options to choose from are <b>MD5</b> and <b>HMD5</b> .

Click the **OK** button to accept the changes made. Click the **Cancel** button to discard the changes made.



		1	Set IP	Time Out 13 Date 11	Piscovery	Set IP	Set Groupinfo
IP Address	Model Name	HWN	- IP Setting		sion	Action	Status
192.168.0.207	DAP-2553	B1	" ooung	Photo ID A Advance			
192.168.0.204	DAP-2310	В	IP Mode	Static IP Address			
192.168.0.206	DAP-2690	В	10000000000	192 168 0 206			
192.168.0.205	DAP-2695	A	IP Address	102 . 100 . 0 . 200			
192.168.0.202	DAP-2330	A	Sub Mask	255 . 255 . 255 . 0			
			Gateway	0.0.0.0			
			DNS	· · · ·			
			Advanced	OK			
			Advanced				
Select All the Devi	ces		Please ente	r the correct password before setting up			
number is 5			ir duurcas.				
			User Name Password Authentication	C MDS C HMDS			

After clicking the **OK** button to set the IP address, the access point will be configured and some time will be given for the access point to restart after the new IP address was applied.

The **Status** parameter will display the progress of the IP address configuration and access point reboot.

				Time Out 3	Retry 1	Discovery	Set IP	Set Groupin
Address	Model Name	HW Version	MAC Address	NetMask	SNMP	FW Version	Action	Status
192.168.0.205	DAP-2695	A	002695128470	255.255.255.0	<ul> <li>Enable</li> </ul>	1.11		
192.168.0.207	DAP-2553	B1	EC2280B61B78	255.255.255.0	<ul> <li>Enable</li> </ul>	3.00		
192.168.0.204	DAP-2310	в	C4A81D91B110	255.255.255.0	<ul> <li>Enable</li> </ul>	2.02		
192.168.0.201	DAP-2660	A	7062B850D260	255.255.255.0	<ul> <li>Enable</li> </ul>	1.06		
✓ 192.168.0.202	DAP-2330	A	C4A81D90CD90	255.255.255.0	<ul> <li>Enable</li> </ul>	1.01	Reset	14%
192.168.0.203	DAP-2360	В	C4A81D948E28	255.255.255.0	Enable	2.02		
192.168.0.206	DAP-2690	В	9CD643290490	255.255.255.0	<ul> <li>Enable</li> </ul>	3.11		

This utility also allows us to upload the network data file directly to the access point to configure the group information that this access point will use to identify in which network it belongs.

Click the **Set GroupInfo** button to upload the network data file. After click the Set **GroupInfo** button, we can click on the "..." button to navigate to the saved network data file on the computer and then upload it.

Click the **Test** button to test if the data file is in fact a valid network data file. Click the **Advanced** button to use advanced login options for the access point as discussed earlier. AD number is 7

				Time Out 3	Retry 1	Discovery	Set IP	Set Groupint
Address	Model Name	HW Version	MAC Address	NetMask	SNMP	FW Version	Action	Status
192.168.0.205	DAP-2695	A	002695128470	255.255.255.0	Enable	1.11	_	
192.168.0.207	DAP-2553	B1	Set GroupInt	0				
192.168.0.204	DAP-2310	В	( second	-	Concernence of the second		_	
192.168.0.201	DAP-2660	A	1					
192.168.0.202	DAP-2330	A	File:				eset	OK
192.168.0.203	DAP-2360	В	Server cor	nection test				
192.168.0.206	DAP-2690	в	Each port	can detect whethe ck test start checkin	r the server is con g	nected properly,		
						Test		
			Advan	ced	OK	Cancel		

AB number is 7

After clicking the **Test** button to successfully test if the network data file is valid, the following message will be displayed.

Click the **OK** button to initiate the upload Click the **Cancel** button to cancel the upload.



After clicking the OK button, the network data file will be uploaded, the access point will be configured based on the settings within the data file, and will then reboot.

The **Status** parameter will display the progress of the configuration.

For more information about configuring networks and generating network data files used in this upload, refer to "**Network**" on page 25.

				Time Out 3		Retry 1	Discovery	Set IP	Set GroupIn
Address	Model Name	HW Version	MAC Address	NetMask	SN	MP	FW Version	Action	Status
192.168.0.204	DAP-2310	В	C4A81D91B110	255.255.255.0	-	Enable	2.02		
192.168.0.207	DAP-2553	B1	EC2280B61B78	255.255.255.0	~	Enable	3.00		
192.168.0.201	DAP-2660	A	7062B850D260	255.255.255.0	-	Enable	1.06		
192.168.0.203	DAP-2360	В	C4A81D948E28	255.255.255.0	-	Enable	2.02		
192.168.0.205	DAP-2695	A	002695128470	255.255.255.0	-	Enable	1.11		
192.168.0.202	DAP-2330	A	C4A81D90CD90	255.255.255.0	~	Enable	1.01		
192.168.0.206	DAP-2690	В	9CD643290490	255.255.255.0		Enable	3.11	Config Group I	20%

#### **Central WifiManager Configuration**

In this section, we'll discuss the Central WifiManager client application. After the installation was completed the following applications will be available.

길 D-Link
퉬 Central WifiManager
🌏 Central WifiManager Server
🔘 Central WifiManager

Click the **Central WifiManager** option to open the client application.

The Central WifiManager uses a secure HTTPS connection to the Central WifiManager Server. By default, this application will open the default Web browser and connect the to **localhost**, which is the local means of connecting to the same PC's own IP address.

Alternatively, from a remote computer, we can connect to the Central WifiManager Server by entering the IP address of the computer that has the server application installed into the web browser, thus it is not needed to install the software on the remote computer. Open the web browser on the remote computer (Internet Explorer or Google Chrome are recommend) and enter for example https://192.168.10.1 or https://domain-name.com (where 192.168.10.1 or domain-name.com is the IP address or domain name of the computer running the CWM server) in the web browser's address bar and press **ENTER** to enter the CWM management interface.

**NOTE:** Connection to the Central WifiManager Server uses a secure HTTPS connection.

After the Web browser was open and connection to the server was made successfully, a login window will appear. Enter the login user name and password in this spaces provided and click **Login** to enter the Central WifiManager Configuration.

**NOTE:** By default, the user name and password is **admin**. The default language is English and also support Italian,French,Spanish and German.

-) <del>)</del>	Image: Second Secon
8	There is a problem with this website's security certificate.
	The security certificate presented by this website was not issued by a trusted certificate authority. The security certificate presented by this website was issued for a different website's address.
	Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.
	We recommend that you close this webpage and do not continue to this website.
	Click here to close this webpage.
	S Continue to this website (not recommended).
	More information

			Laguage : English 💌
Cen	tral WifiManage	er	
	Username :		
	Password :		
	CAPTCHA :	,gyg3 € Login	

### **CWM Configuration** Home **Dashboard**

After successfully logging into the server, the **Dashboard** page will be available. On this page, summarized information of the connected access points and wireless clients will be displayed.

After configuring sites, a list of sites will be available for selection in the site drop-down menu.

Underneath the site drop-down menu, the following four blocks with pie charts can be seen.

Block	Description
Station	In this block the number of wireless clients, connected to the access points in this network, will be displayed per wireless frequency supported. The pie chart illustrate this information visually.
Band	In this block the number of wireless frequency bands, hosted by the access points in this network, will be displayed per frequency band supported. The pie chart illustrates this information visually.
Model	In this block the number of access points in this network will be displayed per product code. The pie chart illustrates this information visually.
Access Point	In this block the number of online and offline access points will be displayed per status. The pie chart illustrates this information visually.

In the **Station Detail** table, a list of connected wireless clients will be displayed with the basic information about them.

Central		- /-	<b>}</b>	<b>\$</b> ®	*	ر چ	
WiFiMo	nag	er LE Ho	⊞ me	Configuration	Svstem	Monito	Pr About
shboard	Home	e>Dashboard					
	All s	ites 💌					
	Stat	ion	В	and	Model		Access point
	Ban 2.4Gł 5GHz	d Sum Hz 0 : 1	2.4GHz E 5GHz 2.4 50	Band Sum 4GHz 4 3Hz 3	2.4GHz Model Sum 5GHz DAP-2360 1 DAP-2553 1 DAP-2660 1 DAP-2690 1	DAP-2360 DAP-2553 DAP-2660 DAP-2690 DAP-2600 DAP	Status         Sum         Off line AP         On line AP         On line AP         On line AP         Image: Constraint of the line applies of the line linte line applies of the linter applies of the lintere
	Sta	tion detail					•
	Sta No.	tion detail	IP address	Alias	Band Authentication	RSSI SSID	Power save mode
	Sta No. 1	tion detail MAC address A0888B4E4C400	IP address 192.168.0.103	Alias Click to set alias	Band Authentication N WPA2-Personal	RSSI SSID 91 WiFiMan	Power save mode ager50 OFF
	Sta No. 1	tion detail MAC address A088B4E4C400	P address 192.168.0.103	Alias Click to set alias	Band Authentication N WPA2-Personal	RSSI SSID 91 WiFiMana	Power save mode ager50 OFF
	Sta No. 1	tion detail MAC address A088B4E4C400	IP address 192.168.0.103	Alias Click to set alias	Band Authentication N WPA2-Personal	RSSI SSID 91 WiFiMan	Power save mode ager50 OFF
	Sta No. 1	tion detail MAC address A088B4E4C400	IP address 192.168.0.103	Alias Click to set alias	Band Authentication N WPA2-Personal	RSSI SSID 91 WiFiMan	Power save mode ager50 OFF
	Sta No. 1	tion detail MAC address A088B4E4C400	IP address 192.168.0.103	Alias Click to set alias	Band Authentication N WPA2-Personal	RSSI SSID 91 WIFIMan	Power save mode ager50 OFF
	Sta No. 1	tion detail MAC address A088B4E4C400	IP address 192.168.0.103	Alias Click to set alias	Band Authentication N WPA2-Personal	RSSI SSID 91 WiFiMan:	Power save mode ager50 OFF
	Sta No. 1	tion detail MAC address A088B4E4C400	P address 192.168.0.103	Alias Click to set alias	Band Authentication N WPA2-Personal	RSSI SSID 91 WiFiMana	Power save mode ager50 OFF
	Sta No. 1	tion detail MAC address A088B4E4C400	P address 192.168.0.103	Alias Click to set alias	Band Authentication N WPA2-Personal	RSSI SSID 91 WiFiMan	Power save mode ager50 OFF
	Sta No. 1	tion detail MAC address A088B4E4C400	P address 192.168.0.103	Alias Click to set alias	Band Authentication N WPA2-Personal	RSSI SSID 91 WiFiMand	Power save mode ager50 OFF
	Sta No. 1	tion detail MAC address A088B4E4C400	P address 192.168.0.103	Alias Click to set alias	Band Authentication N WPA2-Personal	RSSI SSID 91 WiFiMan	Power save mode ager50 OFF

### CWM Configuration Home Site Device View

On this page, a list of configured sites will be displayed. For more information on how to create or configure sites, refer to "**Create Site**" on page 23. For this example, we created a site called **Headquarters** and within the site we created a network called **Server-Room**.

For more information on how to create or configure networks, refer to "Create Network" on page 26.

In the **Device View** tab, a list of access points will be displayed that was associated with the **Headquarters** site. More information about the access points will be displayed in the table columns. To view more detailed information about a specific access point, click on the IP address of that access point.

Click the local contorial control in the selected access points from this network. Click the select what information will be displayed of your site or network.

Click the 🗾 button to manually reboot the access point.

- Click the  $\overline{\mathbf{m}}$  icon to remove an access point from this network.
- Click the 🛜 button to configure the transmit power settings of the access point.

After clicking the 🛜 button, the transmit power settings of the access point can be configured as shown below:



Click the **OK** button to accept the changes made. Click the **Cancel** button to discard the changes made.

Centro	h					03	≈, _	<b>Ö</b>	<u></u>			i)
Wifi/	Manag	er		LIIII Home		Configu	ration	System	Monito	r	At	out
ashboard	Hom	ie>Site	Ð									
HQ Network	Dev	ice vie	ew To	opology view								前:
		No.	Status	Group name	Client	Channel	Local IP address	NAT IP address	MAC address	Model name	Version	Action
		1	Θ	HQ	0/0	<u>1/157</u>	<u>192.168.70.50</u>	192.168.70.50	54B80A2EEA70	DAP-2660	1.15	日日
											<<	≤ 1 ≥

### CWM Configuration Home Site Topology View

On this page, all the devices connected to the specified site will be displayed visually. The following items can be found on this page.

Item	Description
Add Topology	On the top, right of the viewing area, there is a + icon. Click this icon to add a custom topology.
Edit Topology	On the top, right of the viewing area, there is an <b>i</b> icon. Click this icon to modify the newly added topology's name.
Delete Topology	On the right of the topology tabs, there is an <b>x</b> icon. Click this icon to remove the custom topologies created. The <b>all</b> topology, which is automatically generated, cannot be deleted.
Map Size	The map size of the topology view can be modified. Enter the <b>width</b> and <b>height</b> of this view in the text boxes and click <b>Submit</b> to accept the changes made. These values must be between 800 and 8000.
Cursor	Select this option to select an item individually.
Guide	Select this option to make the guides visible in the topology.
Add Device	Select this option to add access points, that have been associated with this site, into the topology.
Add Background	Select this option to add a custom background image to the topology. Image formats supported are JPG, JPEG, GIF and PNG.
Pen	Select this option to manually draw a connection line from one device to another. After drawing the connection line, it can be specified as either wired or wireless and the color and line thickness can be customized.



Copyright ©2014 D-Link Corporation.

### CWM Configuration Home Site Topology View

Parameter	Description
Drag	Select this option to enable the function to simply select and move the objects and the background of the topology into place.
Save	Select this option to save the topology.
PC (Null)	This icons illustrates the management PC, where the Central WifiManager Server application is installed.
Access Points	These icons illustrate the access points located at the site and there connection relation with each other. Double click on any access point icon to view more detailed information about the selected access point.

#### **CWM Configuration Configuration Site**

On this page we can view, create and configure logical sites and networks that are related to the physical locations of the wireless devices in the network. Wireless devices at these sites can unanimously and effortless be managed and maintained through the use of this application.

Sites and networks that have already been configured will be displayed under the **Site** option on the left panel. Also, after clicking on the **Site** option in the left panel, the list of configured sites will be displayed in the **Site List** table on the main page.

Click the button to add a new site.



### CWM Configuration Configuration Site Create Site

After clicking the 🕒 button to add a new site, the following page will be available. On this page, users can create sites and also assign member accounts to each site.

#### The following parameters can be configured:

Parameter	Description
Site name	Enter the new site's name here. This name can be up to 50 characters long.
Site member	Select the member accounts that will be added to this site in the left box and click >> to add them to the <b>Selected</b> list in the right box. To remove a member account from the selected list, select it and click << to remove the account.

Click the **OK** button to create the new site.



### **CWM Configuration Configuration Site**

After creating a new site, it will be displayed in the **Site List** table. In this example, we created a site called **HQ**.



button to add another site.

Click the button to download the **AP Installation Utility** for the Central WifiManager.

Click the **Copy** from icon to copy the configuration from another site to this site. Click the **Modify** icon to modify an existing site. Click the **Delete** icon to delete an existing site.

					🕒 2016-04-22 09:33 👱 Sig	yn Out/admin
D Central WiFiN	lanager 🔒	<b>*</b>	<b>\$</b>	[ [		
	Home	Configuration	System	n Mon	tor Abc	put
Site	Configuration>Site					
HQ					$\mathbf{i}$	<b>C</b>
			Site list			
	Site name	Admin member	Creator	Creation date	Copy from Modify	Delete
	HQ	admin/SuperUser	admin	2016-04-20 14:16:26		
		C 11/02040 D				

After clicking on the site link called **HQ**, in the left panel, we can see the list of networks that have been created for the site in the **Network List** table on the main page.

Click the button to add new network for this site.



### CWM Configuration Configuration Site Network Create Network

After clicking the 🕒 button to add a new network, the following page will be available. On this page, users can create networks and also assign member accounts to each network.

The following parameters can be configured:

Parameter	Description
Network name	Enter the new network's name here. This name can be up to 50 characters long.
Network member	Select the member accounts that will be added to this network in the left box and click >> to add them to the <b>Selected</b> list in the right box. To remove a member account from the selected list, select it and click << to remove the account.

Click the **OK** button to create the new network.



After creating a new network, it will be displayed in the **Network List** table. In this example, we created a network called **Network**.



button to add another network.

Click the button to download the **AP Installation Utility** for the Central WifiManager.

Click the **Copy from** icon to copy the configuration from another network to this network.

Click the **Modify** icon to modify an existing network.

Click the **Delete** icon to delete an existing network.

Click the **Export** icon to download the **data file** of this network, that can be **uploaded** to an **access point** to quickly configure an access point to identify with this network.

For more information about how to upload the network data file to an access point for seamless network association, refer to "**Access Point Installation Tool**" on page 13.

			-		<b>(</b> )2016-0	04-22 15:03 🙎 Sign Out/admin
Central		<b>\$</b>	<b></b> ,	**	<u></u>	î
UiFiMo	Home	Configura	ation	System	Monitor	About
Site	Configuration>Site>HQ			cystem		About
HQ e						
Network			Netw	ork list		
Undefined AP	Network name	Admin member	Creator	Creation date	Copy from Modif	y Delete Export
	Network	admin/SuperUser	admin	2016-04-20 14:35:18		<u>a</u> <u>b</u>
						· · · · · · · · · · · · · · · · · · ·
		Convright©	016 D.L ink Corpo	ration		

After clicking on the network link called **Network**, in the left panel, a feature rich configuration page is available where users can manually configure settings that will be applied to all access points available in the network selected. On this page we can now create a wireless network profile called **SSID**.

Click the 🕒 button to add a new SSID.



SSID

### CWM Configuration Configuration Site Network SSID Create SSID

After adding a new SSID, the following page will be available. In the **Basic Settings** section, we can configure the following:

Parameter	Description
Band	Select the wireless frequency band that will be used for this network here. Options to choose from are <b>2.4G</b> and <b>5G</b> .
Index	Select the SSID index that will be used fore this network here. Options to choose from are <b>Primary</b> and <b>SSID1</b> to <b>SSID7</b> .
SSID	Enter the wireless network name for this network here. This is name is also called the SSID of the wireless network.
SSID Broadcast	Select to <b>Enable</b> or <b>Disable</b> the wireless SSID visibility here.
WMM (Wi-Fi Multimedia)	Select to <b>Enable</b> or <b>Disable</b> the Wi-Fi multimedia features here.
Security	Select the wireless security that will be used by this wireless network here. Options to choose from are <b>Open System</b> , <b>Shared Key</b> , <b>WPA-Personal</b> , <b>WPA-Enterprise</b> , <b>WPA2-</b> <b>Personal</b> , <b>WPA2-Enterprise</b> , <b>WPA-Auto-Personal</b> , and <b>WPA-Auto-Enterprise</b> .

In the following sections we'll discuss the wireless security options that are available to networks managed by this application.

Central				• 🗘 🔄	<u></u>	(j)
	Home	e C	Configuration	– System	Monitor	About
ite	Configuration>Site>HQ>N	etwork>SSID				
HQ • SSID VLAN Bandwidth optimization RF optimization Schedule Device setting Performance	Basic settings     Wireless settings     Band Index SSID SSID broadcast WMM (Wi-Fi Multimedia) Security WPA settings	2.4G V SSID1 V Enable V Enable V Open System	Character set: UTI	F-8 🔽		
WLAN Partition Wireless resource SSL Certification Uploading configuration Firmware upgrade	Encryption Key type Key value Access control MAC address:	Disable V Key	size 64 Bits index	n: Disable V		
ndefined AP	Upload MAC address list: The max number of MAC at No. MAC address	ddress is 512 512 k	Browse Upto	Download		
	Authentication type: Disa	ible 🔽	2			Save

After selecting the WEP **Open System** option as the wireless security method, the following parameters are available for configuration:

Parameter	Description
Encryption	Select this option to <b>Enable</b> or <b>Disable</b> the WEP Open System encryption method for this network.
Key Size	Select the WEP key size here. Options to choose from are <b>64 Bits</b> , <b>128 Bits</b> , and <b>256 Bits</b> .
Кеу Туре	Select the WEP key type here. Options to choose from are <b>HEX</b> and <b>ASCII</b> .
Key Index	Select which key in the index of four will be used for this network. Options to choose from are <b>First</b> , <b>Second</b> , <b>Third</b> , and <b>Fourth</b> .
Key Value	Enter the open system WEP encryption key here, based on the selections made.

Rasic Settings	
Wireless Settings	
Band	2.4G 💙
Index	Primary 🗸
SSID	
SSID Visibility	Enable V
WMM (Wi-Fi Multimedia)	Enable 🗸
Security	Open System
Key Settings	
Encryption	Disable V Key Size 64 Bits V
Кеу Туре	HEX 🗸 Key Index First 🗸
Key Value	

**Create SSID** 

After selecting the WEP **Shared Key** option as the wireless security method, the following parameters are available for configuration:

Parameter	Description
Encryption	Select this option to <b>Enable</b> or <b>Disable</b> the WEP Shared Key encryption method for this network.
Key Size	Select the WEP key size here. Options to choose from are <b>64 Bits</b> , <b>128 Bits</b> , and <b>256 Bits</b> .
Кеу Туре	Select the WEP key type here. Options to choose from are <b>HEX</b> and <b>ASCII</b> .
Key Index	Select which key in the index of four will be used for this network. Options to choose from are <b>First</b> , <b>Second</b> , <b>Third</b> , and <b>Fourth</b> .
Key Value	Enter the open system WEP encryption key here, based on the selections made.

<ul> <li>Basic Settings</li> <li>Wireless Settings</li> </ul>	
Band	2.4G 🗸
Index	Primary 💌
SSID	
SSID Visibility	Enable 🗸
WMM (Wi-Fi Multimedia)	Enable 💌
Security	Shared Key
Key Settings	
Encryption	Enable V Key Size 64 Bits V
Кеу Туре	HEX V Key Index First V
Key Value	

ork SSID Create SSID

After selecting the **WPA-Personal** option as the wireless security method, the following parameters are available for configuration:

Parameter	Description
Cipher Type	Select the WPA cipher type here. Options to choose from are <b>Auto</b> , <b>AES</b> , and <b>TKIP</b> .
Group Key Update Interval	Enter the WPA group key update interval value here. By default, this value is 3600.
Pass Phrase	Enter the secret pass phrase used here.

Basic settings	
Wireless settings	
Band	2.4G 💌
Index	SSID1 💌
SSID	
SSID broadcast	Enable 💌
WMM (Wi-Fi Multimedia)	Enable 💌
Security	WPA-Personal
WPA settings	
Encryption type	Auto 💌 Group key update interval 3600
Passphrase	
RADIUS server	Port 1812
RADIUS secret	

After selecting the **WPA-Enterprise** option as the wireless security method, the following parameters are available for configuration:

Parameter	Description
Cipher Type	Select the WPA cipher type here. Options to choose from are <b>Auto</b> , <b>AES</b> , and <b>TKIP</b> .
Group Key Update Interval	Enter the WPA group key update interval value here. By default, this value is 3600.
<b>RADIUS Server</b>	Enter the RADIUS server's IP address here.
Port	Enter the RADIUS server's port number used here. By default, this port number is 1812.
RADIUS Secret	Enter the RADIUS secret pass phrase used here.

Basic settings	
Wireless settings	
Band	2.4G 💌
Index	SSID1 💌
SSID	
SSID broadcast	Enable 💌
WMM (Wi-Fi Multimedia)	Enable 💌
Security	WPA-Enterprise
WPA settings	
Encryption type	Auto Group key update interval 3600
Passphrase	
RADIUS server	Port 1812
RADIUS secret	

After selecting the **WPA2-Personal** option as the wireless security method, the following parameters are available for configuration:

Parameter	Description
Cipher Type	Select the WPA2 cipher type here. Options to choose from are <b>Auto</b> , <b>AES</b> , and <b>TKIP</b> .
Group Key Update Interval	Enter the WPA2 group key update interval value here. By default, this value is 3600.
Pass Phrase	Enter the secret pass phrase used here.

Basic settings	
Wireless settings	
Band	2.4G 💌
Index	SSID1 💌
SSID	
SSID broadcast	Enable 💌
WMM (Wi-Fi Multimedia)	Enable 💌
Security	WPA2-Personal
WPA settings	
Encryption type	Auto 💌 Group key update interval 3600
Passphrase	
RADIUS server	Port 1812
RADIUS secret	

**Create SSID** 

After selecting the **WPA2-Enterprise** option as the wireless security method, the following parameters are available for configuration:

Parameter	Description
Cipher Type	Select the WPA2 cipher type here. Options to choose from are <b>Auto</b> , <b>AES</b> , and <b>TKIP</b> .
Group Key Update Interval	Enter the WPA2 group key update interval value here. By default, this value is 3600.
RADIUS Server	Enter the RADIUS server's IP address here.
Port	Enter the RADIUS server's port number used here. By default, this port number is 1812.
RADIUS Secret	Enter the RADIUS secret pass phrase used here.

Basic settings	
Wireless settings	
Band	2.4G 💌
Index	SSID1 💌
SSID	
SSID broadcast	Enable 💌
WMM (Wi-Fi Multimedia)	Enable 💌
Security	WPA2-Enterprise
WPA settings	
Encryption type	Auto 🔽 Group key update interval 3600
Passphrase	
RADIUS server	Port 1812
RADIUS secret	

After selecting the **WPA-Auto-Personal** option as the wireless security method, the following parameters are available for configuration:

Parameter	Description
Cipher Type	Select the WPA/WPA2 cipher type here. Options to choose from are <b>Auto</b> , <b>AES</b> , and <b>TKIP</b> .
Group Key Update Interval	Enter the WPA/WPA2 group key update interval value here. By default, this value is 3600.
Pass Phrase	Enter the secret pass phrase used here.

Basic settings	
Wireless settings	
Band	2.4G 💌
Index	SSID1 💌
SSID	
SSID broadcast	Enable 💌
WMM (Wi-Fi Multimedia)	Enable 💌
Security	WPA-Auto-Personal 💌
WPA settings	
Encryption type	Auto Group key update interval 3600
Passphrase	
RADIUS server	Port 1812
RADIUS secret	

**Create SSID** 

After selecting the **WPA-Auto-Enterprise** option as the wireless security method, the following parameters are available for configuration:

Parameter	Description
Cipher Type	Select the WPA/WPA2 cipher type here. Options to choose from are <b>Auto</b> , <b>AES</b> , and <b>TKIP</b> .
Group Key Update Interval	Enter the WPA/WPA2 group key update interval value here. By default, this value is 3600.
RADIUS Server	Enter the RADIUS server's IP address here.
Port	Enter the RADIUS server's port number used here. By default, this port number is 1812.
RADIUS Secret	Enter the RADIUS secret pass phrase used here.

Basic settings	
Wireless settings	
Band	2.4G 💌
Index	SSID1 💌
SSID	
SSID broadcast	Enable 💌
WMM (Wi-Fi Multimedia)	Enable 💌
Security	WPA-Auto-Enterprise
WPA settings	
Encryption type	Auto Group key update interval 3600
Passphrase	
RADIUS server	Port 1812
RADIUS secret	

In the **Access Control** section we can configure which network devices can have access to the network or not by specifying the MAC of the accepted or rejected devices. The following parameters can be configured.

Parameter	Description
MAC Address	Enter the MAC address of the networking device that will be used for this configuration here.
Action	Select the action that will be applied to the networking device. Option to choose from are <b>Disable</b> , <b>Accept</b> and <b>Reject</b> .



**Create SSID** 

A list of configured entries will be displayed in the table.

Click the 📠 icon to remove a specific entry.

In the **User Authentication** section we can configure the authentication method that will be applied to all the wireless clients that connect to access point in this network. The following parameters can be configured.

Parameter	Description	User authentication
Authentication Type	Select the authentication type that will be applied to the wireless clients in this network. Options to choose from are <b>Disable</b> , <b>Web Redirection Only</b> , <b>Username/password</b> , <b>Remote RADIUS</b> , <b>LDAP</b> , <b>POP3</b> and <b>Passcode</b> . After selecting <b>Disable</b> as the authentication type, this feature will be disabled.	Authentication type: Disable

After selecting **Web Redirection Only** as the **Authentication Type**, we can configure the redirection website URL that will be applied to each wireless client in this network.

The following parameters can be configured.

Parameter	Description
IPIF Status	Select to enable or disable the use of the IP interface here.
VLAN Group	Enter the VLAN group name here.
Get IP From	Select the IP address configuration setting here. Options to choose from are <b>Static IP (Manual)</b> and <b>Dynamic IP</b> (DHCP).
IP Address	Enter the IP address of the IP interface here.
Subnet Mask	Enter the subnet mask of the IP interface here.
Gateway	Enter the gateway address of the IP interface here.
DNS	Enter the preferred DNS address of the IP interface here.
Web redirection	Select this option to enable the website redirection feature.
Website	Select whether to use either HTTP or HTTPS here. After selecting either http:// or https://, enter the URL of the website that will be used in the space provided.

User authentication		
Authentication type: W	eb Redirection Only	
IPIF Status	Enable 🔽	
VLAN Group		
Get IP From	Static IP(Manual)	
IP address		
Subnet mask		
Gateway		
DNS		
Web redirection 🗹 —		
Website :	Inttp://	
	Save	Back

**Create SSID** 

Click the **Save** button to accept the changes made.

Click the **Back** button to discard the changes made and return to the main page.

### CWM Configuration Configuration Site Network SSID Create SSID

After selecting **Username/password** as the **Authentication Type**, we can apply local authentication to each wireless client in this network. Local authentication means that no external server is needed to help with the authentication process. Authentication is applied based on restricted subnets, username and password authentication based on the accounts created here and the group that they belong to.

The following parameters can be configured.

Parameter	Description
Session timeout	Enter the session timeout value here. This value can be from 1 to 1440 minutes. By default, this value is 60 minutes.
IP Address	Enter the IP address or network address that will be used in the IP filter rule here. For example, an IP address like 192.168.70.66 or a network address like 192.168.70.0. This IP address or network will be inaccessible to wireless clients in this network.
Subnet Mask	Enter the subnet mask of the IP address or networks address that will be filtered here. For example, 255.255.255.0.

168.70.254		
dd		
Subnet mask 255.255.255.0	Delete	I
	dd Subnet mask 255.255.255.0	dd Subnet mask Delete

Click the Add button to add the new IP filter rule.

Click the 🔲 icon to delete an existing rule.

The following parameters can be configured.

Parameter	Description
IPIF Status	Select to enable or disable the use of the IP interface here.
VLAN Group	Enter the VLAN group name here.
Get IP from	Select the IP address configuration setting here. Options to choose from are <b>Static IP (Manual)</b> and <b>Dynamic IP</b> (DHCP).
IP Address	Enter the IP address of the IP interface here.
Subnet Mask	Enter the subnet mask of the IP interface here.
Gateway	Enter the gateway address of the IP interface here.
DNS	Enter the preferred DNS address of the IP interface here.

-IP Interface Settings		
IPIF Status	Enable 🔽	
VLAN Group		
Get IP From	Static IP(Manual)	
IP address		
Subnet mask		
Gateway		
DNS		
#### The following parameters can be configured.

Parameter	Description	
Username	Enter the username that the wireless clients should use here.	
Password	Enter the password that the wireless clients should use here.	

Click the Add button to add a new user account.

Click the **Clear** button to clear out the information entered in the fields.

Click the 🗐 icon to modify an existing account.

Click the 📠 icon to delete an existing user account.

The following parameters can be configured.

Parameter	Description
Web redirection	Select this option to enable the website redirection feature.
Website	Select whether to use either HTTP or HTTPS here. After selecting either <b>http://</b> or <b>https://</b> , enter the URL of the website that will be used in the space provided.
Choose template	Select the login style that will be used here.

After selecting the style to use, click the **Preview** button to preview the selected style.

Click the Upload login file button to upload a new style.

Click the <u>Delete the template</u> link to delete the selected style.

Click the <u>Download template</u> link to download the style template.

User/password settings -			
Username			
Password			
Add	Clear		
Username	Modify	Delete	
user1	E/	Ē	

Web redirection	
Website :	http://
- Splash page customize	ation
Choose template: page	es_default V Preview Upload login file Delete the template Download template

In the following section we can configure what network devices are allowed to connect to this network by specifying the MAC address of those network devices.

Parameter	Description
Enable White List	Select this option to enable the white list feature.
MAC Address	Enter the MAC address of the networking device that will be allowed to connect to this network here. Click <b>Add</b> to then add this MAC address to the white list table.
Upload White List File	To upload a white list file, click <b>Browse</b> and navigate to the white list file, saved on the computer, and then click <b>Upload</b> .

Click the 🛅 icon to delete an existing entry.

Click the **Save** button to accept the changes made.

Click the **Back** button to discard the changes made and return to the main page.

After selecting **Remote RADIUS** as the **Authentication Type**, we can configure access points in this network to act as authenticator devices that will communicate and relay authentication messages to an additional RADIUS server installed in the network.

#### The following parameters can be configured.

Parameter	Description
Session timeout	Enter the session timeout value here. This value can be from 1 to 1440 minutes. By default, this value is 60 minutes.
IP Address	Enter the IP address or network address that will be used in the IP filter rule here. For example, an IP address like 192.168.70.66 or a network address like 192.168.70.0. This IP address or network will be inaccessible to wireless clients in this network.
Subnet Mask	Enter the subnet mask of the IP address or networks address that will be filtered here. For example, 255.255.255.0.
	200.200.200.0

Click the **Add** button to add the new IP filter rule.

Click the 📠 icon to delete an existing rule.



**Create SSID** 

Authentication type:	Remote RADIUS	
Session timeout(1~1	440): 60 minute(s)	
IP addross		
or address		
Subnet mask		
	Add	
IP address	Subnet mask	Delete

### The following parameters can be configured.

Parameter	Description
IPIF Status	Select to enable or disable the use of the IP interface here.
VLAN Group	Enter the VLAN group name here.
Get IP from	Select the IP address configuration setting here. Options to choose from are <b>Static IP (Manual)</b> and <b>Dynamic IP</b> (DHCP).
IP Address	Enter the IP address of the IP interface here.
Subnet Mask	Enter the subnet mask of the IP interface here.
Gateway	Enter the gateway address of the IP interface here.
DNS	Enter the preferred DNS address of the IP interface here.

- IP Interface Settings	
IPIF Status	Enable 🔽
VLAN Group	
Get IP From	Static IP(Manual)
IP address	
Subnet mask	
Gateway	
DNS	

**Create SSID** 

#### The following parameters can be configured.

Parameter	Description
RADIUS Server	Enter the primary, secondary or third RADIUS server's IP address here.
RADIUS Port	Enter the primary, secondary or third RADIUS server's port number used here. By default this value is 1812.
RADIUS Secret	Enter the primary, secondary or third RADIUS server secret here.
Remote RADIUS type	Select the primary, secondary or third remote RADIUS server type here. Options to choose from are <b>SPAP</b> and <b>MS-CHAPv2</b> .

-RADIUS server settings -	
RADIUS server	RADIUS port 1812 (1~65535)
RADIUS secret	
Remote RADIUS type	SPAP V
Secondary RADIUS Serv	Settings-
RADIUS server	RADIUS port 1812 (1~65535)
RADIUS secret	
Remote RADIUS type	SPAP V
Third RADIUS Server Se	gs-
RADIUS server	RADIUS port 1812 (1~65535)
RADIUS secret	
Remote RADIUS type	SPAP V

#### The following parameters can be configured.

Parameter	Description
Web redirection	Select this option to enable the website redirection feature.
Website	Select whether to use either HTTP or HTTPS here. After selecting either <b>http://</b> or <b>https://</b> , enter the URL of the website that will be used in the space provided.
Choose template	Select the login style that will be used here.

After selecting the style to use, click the **Preview** button to preview the selected style. Click the **Upload login file** button to upload a new style.

Click the <u>Delete the template</u> link to delete the selected style.

Click the **Download template** link to download the style template.

In the following section we can configure what network devices are allowed to connect to this network by specifying the MAC address of those network devices.

#### The following parameters can be configured.

Parameter	Description
Enable White List	Select this option to enable the white list feature.
MAC Address	Enter the MAC address of the networking device that will be allowed to connect to this network here. Click <b>Add</b> to then add this MAC address to the white list table.
Upload White List File	To upload a white list file, click <b>Browse</b> and navigate to the white list file, saved on the computer, and then click <b>Upload</b> .

Click the 📠 icon to delete an existing entry.

Click the **Save** button to accept the changes made.

Click the **Back** button to discard the changes made and return to the main page.

Web redirection				
Website :	http://			
- Splash page customiza	tion			
Choose template: page	s_default 🗸	Preview Upload login file	Delete the template Download template	

Enat	le white list 🗹		
MAC	address:	Add	
Uploa	ad white list file:	Browse Upload	
No.	MAC address	Delete	
1	00:11:22:33:44:55	Ē	

After selecting LDAP as the Authentication Type, we can configure access points to use an additional LDAP server to handle user authentication in this network.

The following parameters can be configured.

Parameter	Description
Session timeout	Enter the session timeout value here. This value can be from 1 to 1440 minutes. By default, this value is 60 minutes.
IP Address	Enter the IP address or network address that will be used in the IP filter rule here. For example, an IP address like 192.168.70.66 or a network address like 192.168.70.0. This IP address or network will be inaccessible to wireless clients in this network.
Subnet Mask	Enter the subnet mask of the IP address or networks address that will be filtered here. For example, 255,255,255,0.

uthentication type: LDAP	$\checkmark$		
Session timeout(1~1440):	60 minute(s)		
IP filter settings			
IP address			
Subnet mask			
	Add		
	Auu		
IP address	Subnet mask	Delete	1
IP address 192.168.70.150	Subnet mask 255.255.255.0	Delete	1
IP address 192.168.70.150	Subnet mask 255.255.255.0		
IP address 192.168.70.150	Subnet mask 255.255.255.0	Delete	
IP address 192.168.70.150	Subnet mask 255.255.255.0	Delete	
IP address 192.168.70.150	Subnet mask 265.255.255.0	Delete	
IP address 192.168.70.150	Subnet mask 255.255.255.0	Delete	

**Create SSID** 

Click the Add button to add the new IP filter rule.

Click the 📠 icon to delete an existing rule.

The following parameters can be configured.

Parameter	Description
IPIF Status	Select to enable or disable the use of the IP interface here.
VLAN Group	Enter the VLAN group name here.
Get IP from	Select the IP address configuration setting here. Options to choose from are <b>Static IP (Manual)</b> and <b>Dynamic IP</b> (DHCP).
IP Address	Enter the IP address of the IP interface here.
Subnet Mask	Enter the subnet mask of the IP interface here.
Gateway	Enter the gateway address of the IP interface here.
DNS	Enter the preferred DNS address of the IP interface here.

- IP Interface Settings -	
IPIF Status	Enable 🗸
VLAN Group	
Get IP From	Static IP(Manual)
IP address	
Subnet mask	
Gateway	
DNS	

The following parameters can be configured.

Parameter	Description	LDAP settings	
Server	Enter the LDAP server's IP address here.	Port	
Port	Enter the LDAP server's port number used here.	Authentication mode	Simple V
Authenticate Mode	Select the authentication mode that will be used here. Options to choose from are <b>Simple</b> and <b>TLS</b> .	Username Password	
Username	Enter the administrator's username here that will be able to access and search the LDAP database.	Base DN Account attribute	(ou=,dc=) (ex.cn)
Password	Enter the administrator's password here that will be able to access and search the LDAP database.	Identity	
Base DN	Enter the base domain name of the LDAP database here. For the group <b>users</b> in the domain <b>test.com</b> .	example, <b>cn=use</b>	ers, dc=test, dc=com means that the wireless client is a member of
Account Attribute	Enter the attribute for the account here. For example, cn is us	ed for Windows S	erver.
Identity	Enter the name of the administrator here. For example, <b>cn=Administrator</b> , <b>cn=users</b> , <b>dc=test</b> , <b>dc=com</b> means for Windows Server, if the administrator is a member of wireless client, it is also a member of the group <b>users</b> in the domain <b>test.com</b> . Alternatively select the <b>Auto Copy</b> option to automatically generate and insert the name of the administrator here based on the <b>Base DN</b> and <b>Account Attribute</b> strings entered.		

Parameter	Description
Web redirection	Select this option to enable the website redirection feature.
Website	Select whether to use either HTTP or HTTPS here. After selecting either http:// or https://, enter the URL of the website that will be used in the space provided.
Choose template	Select the login style that will be used here.

After selecting the style to use, click the **Preview** button to preview the selected style. Click the **Upload login file** button to upload a new style.

Click the <u>Delete the template</u> link to delete the selected style.

Click the <u>Download template</u> link to download the style template.

In the following section we can configure what network devices are allowed to connect to this network by specifying the MAC address of those network devices.

The following parameters can be configured.

Parameter	Description	Enabl	e white list 🗹 ——		
Enable White List	Select this option to enable the white list feature.	MAC	address:	Add	
MAC Address	Enter the MAC address of the networking device that will be	Uploa	d white list file:	Browse	Upload
	allowed to connect to this network here. Click Add to then	No.	MAC address	Delete	
	add this MAC address to the white list table.	1	00:11:22:33:44:5	5	
Upload White List	To upload a white list file, click Browse and navigate to the				
File	white list file, saved on the computer, and then click <b>Upload</b> .				
-					

Click the <a>I</a> icon to delete an existing entry.

Click the **Save** button to accept the changes made.

Click the **Back** button to discard the changes made and return to the main page.

Web redirection	
Website :	http://
- Splash page customizati	on
Choose template: pages	_default V Preview Upload login file Delete the template Download template

After selecting **POP3** as the **Authentication Type**, we can configure access points to use an additional POP3 server to handle user authentication in this network.

The following parameters can be configured.

Parameter	Description
Session timeout	Enter the session timeout value here. This value can be from 1 to 1440 minutes. By default, this value is 60 minutes.
IP Address	Enter the IP address or network address that will be used in the IP filter rule here. For example, an IP address like 192.168.70.66 or a network address like 192.168.70.0. This IP address or network will be inaccessible to wireless clients in this network.
Subnet Mask	Enter the subnet mask of the IP address or networks address that will be filtered here. For example, 255,255,255,0.

uthentication type: POP3	$\checkmark$		
ession timeout(1~1440):	60 minute(s)		
IP filter settings			
IP address			
Subnet mask			
	Add		
IP address	Subnet mask	Delete	1
IP address 192.168.70.150	Subnet mask 255.255.255.0	Delete	1
IP address 192.168.70.150	Subnet mask 255.255.255.0	Delete	
IP address 192.168.70.150	Subnet mask 255.255.255.0	Delete	
IP address 192.168.70.150	Subnet mask 255.255.255.0	Delete	
IP address 192.168.70.150	Subnet mask 255.255.255.0	Delete	

Click the Add button to add the new IP filter rule.

Click the 📠 icon to delete an existing rule.

The following parameters can be configured.

Parameter	Description
IPIF Status	Select to enable or disable the use of the IP interface here.
VLAN Group	Enter the VLAN group name here.
Get IP from	Select the IP address configuration setting here. Options to choose from are <b>Static IP (Manual)</b> and <b>Dynamic IP</b> (DHCP).
IP Address	Enter the IP address of the IP interface here.
Subnet Mask	Enter the subnet mask of the IP interface here.
Gateway	Enter the gateway address of the IP interface here.
DNS	Enter the preferred DNS address of the IP interface here.

- IP Interface Settings -	
IPIF Status	Enable 🔽
VLAN Group	
Get IP From	Static IP(Manual)
IP address	
Subnet mask	
Gateway	
DNS	

#### The following parameters can be configured.

Parameter	Description
Server	Enter the POP3 server's IP address here.
Port	Enter the POP3 server's port number used here. By default this port number is 110. For the SSL/TLS connection type this value is 995 by default.
Connection Type	Select the POP3 connection type here. Options to choose from are <b>None</b> and <b>SSL/TLS</b> .

POP3 settings		
Server		
Port:	110 (1~65535)	
Connection type	None 🗸	

#### The following parameters can be configured.

Parameter	Description
Web redirection	Select this option to enable the website redirection feature.
Website	Select whether to use either HTTP or HTTPS here. After selecting either http:// or https://, enter the URL of the website that will be used in the space provided.
Choose template	Select the login style that will be used here.

Web redirection 🗹 —					
Website :	http:// 🗸				
- Splash page customiza	ation				
Choose template: page	es_default	Preview	Upload login file	Delete the template Download template	

### After selecting the style to use, click the $\ensuremath{\text{Preview}}$ button to preview the selected style.

Click the Upload login file button to upload a new style.

Click the <u>Delete the template</u> link to delete the selected style.

Click the Download template link to download the style template.

In the following section we can configure what network devices are allowed to connect to this network by specifying the MAC address of those network devices.

The following parameters can be configured.

Parameter	Description	<b>□</b>	Enable white list 🗹			
Enable White List	Select this option to enable the white list feature.	MAC address:			A	
MAC Address	<b>MAC Address</b> Enter the MAC address of the networking device that will be allowed to connect to this network here. Click <b>Add</b> to then add this MAC address to the white list table.		pload o.	white list file: MAC address 00:11:22:33:44:55		Browse
Upload White List File	To upload a white list file, click <b>Browse</b> and navigate to the white list file, saved on the computer, and then click <b>Upload</b> .					

Click the  $\overline{\mathbf{m}}$  icon to delete an existing entry.

Click the Save button to accept the changes made.

Click the **Back** button to discard the changes made and return to the main page.

After selecting **Passcode** as the **Authentication Type**, we can view and configure the following section.

The following parameters can be configured.

Parameter	User authentication					
Session timeout	Enter the session timeout value here. This value can be from 1 to 1440 minutes. By default, this value is 60 minutes.	Authentication type: Pass Session timeout(1~1440) :	code 60			
IP Address	Enter the IP address or network address that will be used in the IP filter rule here. For example, an IP address like 192.168.70.66 or a network address like 192.168.70.0. This IP address or network will be inaccessible to wireless clients in this network.	IP address Subnet mask	Add			
Subnet Mask	Enter the subnet mask of the IP address or networks address that will be filtered here. For example, 255.255.255.0.	192.168.70.150	255.1			

Click the **Add** button to add the new IP filter rule.

Click the 🗖 icon to delete an existing rule.

User authentication	on			
Authentication type:	Passcode	$\checkmark$		
Session timeout(1~14	40) : 60	minute(s)		
- IP filter settings				
IP address				
Subnet mask				
	Add			
IP address		Subnet mask	Delete	
192.168.70.150		255.255.255.0		
-				

Enab	le white list 🗹			 	 	 	
MAC	address:	Add					
Uploa	d white list file:	Browse	Upload				
No.	MAC address	Delete					
1	00:11:22:33:44:55	11					
						Save	ľ

#### The following parameters can be configured.

Parameter	Description
IPIF Status	Select to enable or disable the use of the IP interface here.
VLAN Group	Enter the VLAN group name here.
Get IP from	Select the IP address configuration setting here. Options to choose from are <b>Static IP (Manual)</b> and <b>Dynamic IP</b> ( <b>DHCP</b> ).
IP Address	Enter the IP address of the IP interface here.
Subnet Mask	Enter the subnet mask of the IP interface here.
Gateway	Enter the gateway address of the IP interface here.
DNS	Enter the preferred DNS address of the IP interface here.

In this table configured front desk user accounts that have been assigned to this network and have already generated a pass code from the Web login page, will be displayed.

-IP Interface Settings	
IPIF Status	Enable 🔽
VLAN Group	
Get IP From	Static IP(Manual)
IP address	
Subnet mask	
Gateway	
DNS	

**Create SSID** 

Passcode list								
Passcode	SSID	Duration	User limit	Last active day	Duration remaining	Creator	Status	

#### The following parameters can be configured.

Parameter	Description
Web redirection	Select this option to enable the website redirection feature.
Website	Select whether to use either HTTP or HTTPS here. After selecting either <b>http://</b> or <b>https://</b> , enter the URL of the website that will be used in the space provided.
Choose template	Select the login style that will be used here.

 Website :
 http:// v

 Splash page customization

 Choose template:
 pages\_default

 v
 Preview

 Upload login file
 Delete the template

 Download template

After selecting the style to use, click the **Preview** button to preview the selected style. Click the **Upload login file** button to upload a new style.

Click the <u>Delete the template</u> link to delete the selected style.

Click the **Download template** link to download the style template.

Web redirection 🗹

In the following section we can configure what network devices are allowed to connect to this network by specifying the MAC address of those network devices.

The following parameters can be configured.

Parameter	Description
Enable White List	Select this option to enable the white list feature.
MAC Address	Enter the MAC address of the networking device that will be allowed to connect to this network here. Click <b>Add</b> to then add this MAC address to the white list table.
Upload White List File	To upload a white list file, click <b>Browse</b> and navigate to the white list file, saved on the computer, and then click <b>Upload</b> .

Click the 👼 icon to delete an existing entry.

Click the Save button to accept the changes made.

Click the **Back** button to discard the changes made and return to the main page.

After selecting **External Captive Portal** as the **Authentication Type**, we can configure the following settings.

Parameter	Description
Session timeout	Enter the session timeout value here. This value can be from 1 to 1440 minutes. By default, this value is 60 minutes.
IP Address	Enter the IP address or network address that will be used in the IP filter rule here. For example, an IP address like 192.168.70.66 or a network address like 192.168.70.0. This IP address or network will be inaccessible to wireless clients in this network.
Subnet Mask	Enter the subnet mask of the IP address or networks address that will be filtered here. For example, 255.255.255.0.

Click the **Add** button to add the new IP filter rule.

Click the  $\overline{\mathbf{a}}$  icon to delete an existing rule.

Enable white list		
MAC address:	Add	
Upload white list file:	Browse Upload	
No. MAC address	Delete	
1 00:11:22:33:44:55	m	
		Save B

**Create SSID** 

User authentication type:	External Captive portal	
Session timeout(1~1-	440): 60 minute(s)	
IP address Subnet mask	192.168.70.254 255.255.255.0 Add	
IP address	Subnet mask	Delete
192.168.70.254	255.255.255.0	

#### The following parameters can be configured.

Parameter	Description
IPIF Status	Select to enable or disable the use of the IP interface here.
VLAN Group	Enter the VLAN group name here.
Get IP from	Select the IP address configuration setting here. Options to choose from are <b>Static IP (Manual)</b> and <b>Dynamic IP</b> (DHCP).
IP Address	Enter the IP address of the IP interface here.
Subnet Mask	Enter the subnet mask of the IP interface here.
Gateway	Enter the gateway address of the IP interface here.
DNS	Enter the preferred DNS address of the IP interface here.

- IP Interface Settings	
IPIF Status	Enable 🔽
VLAN Group	
Get IP From	Static IP(Manual)
IP address	
Subnet mask	
Gateway	
DNS	

**Create SSID** 

#### The following parameters can be configured.

Parameter	Description
External Captive Portal Server Address	After selecting either <b>http://</b> or <b>https://</b> , enter the URL of the external captive portal server in the space provided.
Web redirection	Select this option to enable the website redirection feature.
Website	Select whether to use either HTTP or HTTPS here. After selecting either http:// or https://, enter the URL of the website that will be used in the space provided.

External Captive Portal Se	nver address: http://
web redirection	
Website :	http://

In the following section we can configure what network devices are allowed to connect to this network by specifying the MAC address of those network devices.

The following parameters can be configured.

Parameter	Description
Enable White List	Select this option to enable the white list feature.
MAC Address	Enter the MAC address of the networking device that will be allowed to connect to this network here. Click <b>Add</b> to then add this MAC address to the white list table.
Upload White List File	To upload a white list file, click <b>Browse</b> and navigate to the white list file, saved on the computer, and then click <b>Upload</b> .

 Enable white list
 Add

 MAC address:
 Add

 Upload white list file:
 Browse...
 Upload

 No.
 MAC address
 Delete

 1
 00:11:22:33:44:55
 Image: Comparison of the second s

Click the  $\overline{\mathbf{m}}$  icon to delete an existing entry.

Click the **Save** button to accept the changes made.

Click the **Back** button to discard the changes made and return to the main page.

For more information about creating or configuring user accounts refer to "Create User Account" on page 82.

For more information about front desk user accounts refer to "Appendix A - Front Desk Staff & User Access" on page 114.

After creating a new SSID, it will be displayed in the table. In this example, we created an SSID called **SR-WiFi**.

Click the <sup>①</sup> button to add another new SSID. Click the <sup>I</sup> icon to modify an existing SSID.

Click the  $\overline{\mathbf{m}}$  icon to delete an existing SSID.



After creating a network, additional options will be available in the left panel. These options include VLAN, Bandwidth Optimization, Captive Portal, RF Optimization, Device settings, Uploading Configuration and Firmware Upgrade.

In the following sections, we'll discuss these additional settings in more detail.

Before the tabs, we can configure the following parameter.

Parameter	Description						<b>©</b> 2014	-07-01 13:51 👤 Si	ign Out/admir
VLAN Status	Select to Enable or Disable the VLAN feature here.	Central WifiM	nooer		<b>\$</b>	<b>*</b>	<u></u>	ſ	
				Hom	ne Configuration	System	Monitor	Ab	out
		Site	Configurati	tion>Site>Headq	quarters>Server-Room>VLAN				
ick the Save butt	ton to accept the changes made.	E Headquarters e	VLAN Stat	tus: 💿 Disa	able O Enable Save				
		E Server- e Room	VLAN Lis	st Port List	Add/Edit VLAN PVID Setting				
		SSID	140	V/LANLNIGHT	Linter M AN Darte		Teg V/LAN Dorts	540	Delete
		VLAN	VID	VLAN Name	Momt LAN1 LAN2 Primary(2.4G) SSID1	1(2.4G) SSI	Tag VLAN Pons	Eoit	Delete
		Optimization			D2(2.4G),SSID3(2.4G),SSID4(2.4G),SS	SID5(2.4G),			
		Captive portal	1	1 default	SSID6(2.4G),SSID7(2.4G),Primary(5G	6),SSID1(5		B	亩
		RF Optimization			G),SSID2(5G),SSID3(5G),SSID4(5G),S	SID5(5G),S			
		Uploading			0100(00),00107(00),				
		Configuration							
		Firmware Opgrade							
			2						
		and the second							
					Copyright ©2014 D-Lin	k Corporation.			

After clicking on **VLAN** in the left panel, the following page will be available. On this page we can view, create and configure Virtual LANs (VLANs) that will be managed by the access point in this network.

In the VLAN List tab, a list of created VLANs will be displayed.

Click the **Edit** icon to modify an existing VLAN. Click the **Delete** icon to remove an existing VLAN.

In the **Port List** tab, a list of ports will be displayed. These ports are all the ports that are available on the access points in the network.

In the columns next to the **Port Name** entries, the VLAN ID number of the VLAN that the port belongs to will be displayed. The column location of the number will indicate if the port is a tagged member (**Tag VID**) or an untagged member (**Untag VID**) of the VLAN. In the last column the **PVID** number of that specific port will be displayed.

VID	VLAN Name	Untag VLAN Ports	Tag VLAN Ports	Edit	Delete
1	default	Mgmt,LAN1,LAN2,Primary(2.4G),SSID1(2.4G),SSI D2(2.4G),SSID3(2.4G),SSID4(2.4G),SSID5(2.4G), SSID6(2.4G),SSID7(2.4G),Primary(5G),SSID1(5 G),SSID2(5G),SSID3(5G),SSID4(5G),SSID5(5G),S DD2(5G),D2D2(5C),D2D2(5C))		B/	ā

VLAN

VLAN List Port L	ist Add/Edit VLAN PVI	D Setting	
Port Name	Tag VID	Untag VID	PVID
Mgmt		1	1
LAN1		1	1
LAN2		1	1
Primary(2.4G)		1	1
Primary(5G)		1	1
SSID1(2.4G)		1	1
SSID2(2.4G)		1	1
SSID3(2.4G)		1	1
SSID4(2.4G)		1	1
SSID5(2.4G)		1	1
SSID6(2.4G)		1	1
SSID7(2.4G)		1	1
SSID1(5G)		1	1
SSID2(5G)		1	1
SSID3(5G)		1	1
SSID4(5G)		1	1
SSID5(5G)		1	1
SSID6(5G)		1	1
SSID7(5G)		1	1

In the Add/Edit VLAN tab, we can create a new VLAN and assign the port membership to each port in that VLAN. After clicking the Modify icon in the VLAN List tab, we will be re-directed to this tab to modify an existing VLAN.

The following parameters can be configured.

Parameter	Description
VLAN ID (VID)	Enter the VLAN's ID here.
VLAN Name	Enter the VLAN's name here.
Port	Select the port membership option for each port in this column. Port in VLAN in this network can either be untagged ( <b>Untag</b> ) members, tagged ( <b>Tag</b> ), or non-members ( <b>Not Member</b> ).
Select All	Which this button is clicked, all the ports in the table will be changed to either be <b>Untag</b> , <b>Tag</b> or <b>Not Member</b> .
Mgmt	This is the management port on access points.
LAN1 ~ LAN2	This is the LAN ports on access points. If the access point has only one LAN port, it will be LAN1.
Primary	This is the primary WLAN SSID on access points in this network.
SSID1 ~ SSID7	This is the secondary WLAN SSIDs on access points in this network.

ID (VID)	VLAN Name								
Port	Select All	Mgmt	LAN1	LAN2					
Untag	All	۲	۲	۲					
Tag	All	0	0	0					
Not Member	All	0	0	0					
Hz									
MSSID Port	Select All	Primary	SSID1	SSID2	SSID3	SSID4	SSID5	SSID6	SSID7
Untag	All	۲	۲	۲	۲	۲	۲	۲	۲
Tag	All	0	0	0	0	0	0	0	0
Not Member	All	0	0	0	0	0	0	0	0
7									
			<b>I</b>	1					
MSSID Port	Select All	Primary	SSID1	SSID2	SSID3	SSID4	SSID5	SSID6	SSID7
Untag	All	۲	۲	۲	۲	۲	۲	۲	۲
Tag	All	0	0	0	0	0	0	0	0
Alad Adamshing	All	0	0	0	0	0	0	0	0

Click the **Save** button to accept the changes made.

In the **PVID Setting** tab, we can view and configure the Port VLAN Identifier (PVID) settings for access points and wireless client in this network.

The following parameters can be configured.

Parameter	Description	VLAN List Port List Add/Edit VLAN PVID Setting
PVID Auto Assign Status	Select to <b>Enable</b> or <b>Disable</b> the PVID automatic assign status feature here.	PVID Auto Assign Status   Disable  Enable
PVID	Enter the PVID number in the spaces provided for the corresponding ports.	Port         Mgmt         LAN1         LAN2           PVID         1         1         1           -2.4GHz         -         -         -
Mgmt	This is the management port on access points.	MSSID Port Primary SSID1 SSID2 SSID3 SSID4 SSID5 SSID6 SSID7 PVID 1 1 1 1 1 1 1 1 1 1
LAN1 ~ LAN2	This is the LAN ports on access points. If the access point has only one LAN port, it will be LAN1.	5GHz MSSID Port Primary SSID1 SSID2 SSID3 SSID4 SSID5 SSID6 SSID7
Primary	This is the primary WLAN SSID on access points in this network.	PVID 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SSID1 ~ SSID7	This is the secondary WLAN SSIDs on access points in this network.	Save

Click the **Save** button to accept the changes made.

🕒 2014-07-01 13:56 👤 Sign Out/admi

0

About

#### CWM Configuration Configuration Site Network **Bandwidth Optimization**

After clicking on Bandwidth Optimization in the left panel, the following page will be available. On this page we can view and configure the bandwidth settings for access points in this network.

The following parameters can be configured.

Parameter	Description	⊙2014-07-0				
Enable Bandwidth Optimization	Select to <b>Enable</b> or <b>Disable</b> the bandwidth optimization feature here.	Central     Image: Configuration     Image: Configuration     Image: Configuration     Image: Configuration				
Downlink Bandwidth	Enter the total downlink bandwidth speed for access points in this network here. This value is in Mbits/sec.	Site     Configuration>Site>Headquarters>Server-Room>Bandwidth Optimization       Headquarters •     Enable Bandwidth Optimization       Server- •     Enable Bandwidth Optimization				
Uplink Bandwidth	Enter the total uplink bandwidth speed for access points in this network here. This value is in Mbits/sec.	SSID     Definition     p4     Mbits/sec       VLAN     Uplink Bandwidth     54     Mbits/sec       Bandwidth     F4d Bandwidth Optimization Rule				
Rule Type	<ul> <li>Select the type of rule that will be create or modified here.</li> <li>Options to choose from are the following: <ul> <li>Allocate average BW for each station: The AP will distribute average bandwidth for each client.</li> <li>Allocate maximum BW for each station: Specify the maximum bandwidth for each connected client. Reserve certain bandwidth for future clients.</li> <li>Allocate different BW for 11a/b/g/n station: The weight of 802.11b/g/n and 802.11a/n clients are 10%/20%/70% and 20%/80%. The AP will distribute different bandwidth for 802.11a/b/g/n clients.</li> <li>Allocate specific BW for SSID: All clients share the total bandwidth.</li> </ul> </li> </ul>	Optimization Captive portal RF Optimization Device setting Uploading Configuration Firmware Upgrade       SSID       Primary SSID         Uplick Speed       26       Mbits/sec          Uplick Speed       26       Mbits/sec          Uplick Speed       26       Mbits/sec          Bandwidth Optimization Rules            Bandwidth Optimization Rules            Bandwidth Optimization Rules             Band       Type       SSID       Downlink Speed           Vindefined AP               Bandwidth Optimization Rules				
Band	Select the wireless frequency band that will be used in this rule here. Options to choose from are <b>2.4Ghz</b> and <b>5GHz</b> .					
SSID	Select which SSID will be used in this rule here. Options to choose from are <b>Primary SSID</b> and <b>SSID1</b> to <b>SSID7</b> .					
Downlink Speed	Enter the downlink speed value that will be assigned to either each station or to the specified SSID here. This value can either be in <b>Mbits/sec</b> or <b>Kbits/sec</b> .	Copyright ©2014 D-Link Corporation.				
Uplink Speed	Enter the uplink speed value that will be assigned to either each station or to the specified SSID here. This value can either be in <b>Mbits/sec</b> or <b>Kbits/sec</b> .	Click the <b>Clear</b> button to clear out all the information entered in the fields Click the <b>Save</b> button to accept the changes made.				
Click the <b>Add</b> button t	o add the new rule to the list of <b>Bandwidth Optimization</b>	Click the 🗾 icon to modify an existing rule.				

Click the **Add** button to add the new rule to the list of **Bandwidth Optimization** Rules.

🕒 2014-07-01 13:59 👤 Sign Out/admin

# CWM Configuration Configuration Site Network RF optimization

After clicking on **RF** in the left panel, the following page will be available. On this page we can view and optimize the Radio Frequency (RF) used on the access points in this network.

The following parameters can be configured.

Parameter	Description				
Enable Auto RF	Select this option to enable the RF optimization feature.	D Central WiFiMa	nnager [		<b>\$</b>
Init Auto RF	Click the <b>Auto RF Optimize</b> button to manually initiate the automatic RF optimization feature. The AP will automatically select the best channel.	Site  Headquarters  Server- Poom	Hor Configuration>Site>Head	ne quarters>Server-Roo Auto RE Optim	Configuration m>RF Optimization
Auto Init	Select this option to run the RF optimization feature periodically based on the period entered. After the initiation period has expired, the AP will automatically select the best channel.	SSID VLAN Bandwidth Optimization Captive portal RF Optimization	Auto Init Auto Init Period RSSI Thresold RF Report Frequency	24 (Hou 40% 💙 10 (Sec	rs) onds)
Auto Init Period	After enabling the <b>Auto Init</b> option, enter the automatic initiation period value in hours here.	Device setting Uploading Configuration			
RSSI Threshold	Select the RSSI threshold value for this network here. This value is between <b>10%</b> and <b>100%</b> in increments of 10%. The AP will adjust its channel or power when, after a scan, it detected APs in the network with a lower RSSI than the threshold specified.	Firmware Upgrade Undefined AP			
RF Report Frequency	Enter the frequency value, in seconds, at which an RF report will be generated. The AP might adjust its channel or power at the frequency specified.				

Click the **Save** button to accept the changes made.

<u></u> 4 0 System Monitor About Copyright ©2014 D-Link Corporation

ork Schedule

After clicking on **Schedule** in the left panel, the following page will be available. On this page we can view and configure the schedule that will be used in this network.

The following parameters can be configured.

Parameter	Description
Wireless Schedule	Select to enable or disable the wireless schedule feature here.
Name	Enter the name of the schedule rule here.
Index	Select the SSID that will be associated with this rule here.
Day(s)	<ul> <li>Select the active days for this schedule here.</li> <li>All Week - Select this option enable this rule for the whole week.</li> <li>Select Day(s) - Select this option to enable this rule only on the specified day(s). Select the days on which this rule will be enabled. Options to choose from are Sun, Mon, Tue, Wed, Thu, Fri, and Sat.</li> </ul>
All Day	Select this option to enable this rule for the whole day.
Start Time	Enter the <b>Start Time</b> from when this rule will be enabled here if the <b>All Day</b> option is not selected. Enter the hours and minutes of the day in the spaces provided.
End Time	<ul> <li>Enter the End Time until when this rule will be enabled here if the All Day option is not selected. Enter the hours and minutes of the day in the spaces provided</li> <li>Overnight - Select this option to specify that this rule is meant to be enabled overnight.</li> </ul>

Click the **Edit** icon to modify an existing rule. Click the **Delete** icon to delete a specific rule. Click the **Save** button to accept the changes made.



### CWM Configuration Configuration Site Network Device Settings

After clicking on **Device Settings** in the left panel, the following page will be available. On this page we can view and configure the login and accessibility settings for access points in this network. Additionally some advanced wireless settings can be configured on this page for both the 2.4Ghz and 5Ghz frequency bands.

The following parameters can be configured.

Parameter	Description					<b>(</b> -)2016-04-	25 11:43 👱 Sign Out/adi		
Username	This field displays the username that is applied to all access points in this network.	D Central WiFiMa	anager Hom	Configuration	System	Monitor	<b>i</b> About		
Password	Enter the password that will be applied to all access points in this network here.	Site HQ • Network •	Configuration>Site>HQ>N	etwork>Device setting admin					
Status	Select this option to enable console port connectivity on all access points in the network.	SSID VLAN Bandwidth	Password						
Console Protocol	Select the console port protocol that will be used on all access points in this network. Options to choose from are Telnet and SSH.		Status Console protocol Time out	ettings VEnable rotocol  Telnet OSH 3 Mins V					
Time Out	Select the active console session time out value here. Options to choose from are <b>1 Min, 3 Mins, 5 Mins, 10</b> <b>Mins, 15 Mins</b> , and <b>Never</b> .	WLAN Partition Wireless resource SSL Certification	Automatic Time Configu Enable NTP Server NTP Server Time Zone	alto Lime Configuration  INTP Server  INTP Server  Interver  Interver Interver  Interver Interver  Interver Interver Interver Interver Interver Interver  Interver Interver Interver Interver Interver Interver Interver					
Enable NTP Server	Select this option to enable the Network Time Protocol (NTP) server feature.	configuration Firmware upgrade Undefined AP	Enable Daylight Saving						
NTP Server	Enter the IP address or domain name of the NTP server here.		External syslog server	(If there are devices with device of (IP address)	ountry setting as United States, Ja ss/Domain name)	apan, Korea or Israel in the <u>c</u>	group, set country will fail.		
Time Zone	Select the time zone that will be used here.		Choose Band	2.4GHz (Settings applied on t	he DAP-2553 module only.)				
Enable Daylight Saving	Select this option to enable daylight saving.						Save		
Select country	Select the country region of APs in this network here.								
External syslog server	Enter the IP address or domain name of the external syslog server here.								
Choose Band	Select the wireless band of APs in this network here. Options to choose from are <b>2.4GHz</b> and <b>5GHz</b> .	1		Copyright©2016 D⊣	Link Corporation.				

Click the **Save** button to accept the changes made.

### Performance

After clicking on **Performance** in the left panel, the following page will be available. On this page we can view and configure more advanced wireless performance settings that will be used in this Network.

In the **2.4GHz** section, the following parameters can be configured.

Parameter	Description				_	©2016-04	-22 15:30 🙎 Sign Out
Wireless	Select to turn <b>On</b> or <b>Off</b> the use of the 2.4GHz wireless band for this network.		anager Home	Configuration	System	Monitor	() About
Wireless Mode	Select the wireless mode that will be used in this network here. Options to choose from are <b>Mixed 802.11n, 802.11g</b> <b>and 802.11b</b> , <b>Mixed 802.11g and 802.11b</b> , and <b>802.11n</b> <b>Only</b> .	Site HQ Site Network SSID VLAN Bandwidth	Configuration>Site>HQ>Network>Pe	On Mixed 802.11n, 802.11g	and 802.11b		
Data Rate	After selecting to use the <b>Mixed 802.11g and 802.11b</b> wireless mode, select the wireless data rate here.	optimization RF optimization Schedule	Data rate Beacon interval (40-500)	100			
Beacon Interval	Enter the beacon interval value here. The range is from 40 to 500. By default, this value is 100.	Device setting Performance WLAN Partition	WMM (Wi-Fi Multimedia) Ack Time Out (2.4GHz, 48~200)	Disable	(µs)		
DTIM Interval	Enter the DTIM interval value here. The range is from 1 to 15. By default, this value is 1.	Wireless resource SSL Certification Uploading	Short GI IGMP Snooping	Disable Disable	Y V		
WMM (Wi-Fi Multimedia)	Select to enable or disable the Wi-Fi Multimedia (WMM) feature here.	configuration Firmware upgrade Undefined AP	Multicast Rate Multicast Bandwidth Control	Disable	(Mbps)		
ACK Timeout	Enter the ACK timeout value here. The range is from 48 to 200 µs. By default, this value is 48 µs.		Maximum Multicast Bandwidth HT20/40 Coexistence	100 Enable	kbps		
Short GI	Select to enable or disable the short GI feature here.		RTS length (256-2346)	2346			
IGMP Snooping	Select to enable or disable the IGMP snooping feature here.		Fragment length (256-2346)	2346			
Multicast Rate	Select the multicast rate value here.		Channel width	Auto 20/40 MHz	V		
Multicast Bandwidth Control	Select to enable or disable the multicast bandwidth control feature here.						Sa
Maximum Multicast Bandwidth	After enabling the Multicast Bandwidth Control feature, enter the maximum multicast bandwidth allowed here. By default, this value is 100 kbps.	1		Copyright©2016 D-Li	nk Corporation.		
HT20/40 Coexistence	Select to enable or disable the HT20/40 coexistence feature here.						

### In the 2.4GHz section, the following parameters can be configured (continued).

Parameter	Description
Transfer DHCP	Select to enable or disable the feature that allows for the transfer of DHCP offers to unicast here.
Offer to Unicast	
RTS Length	Enter the RTS value here. The range is from 256 to 2346. By default, this value is 2346.
Fragment Length	Enter the fragment length value here. The range is from 256 to 2346. By default, this value is 2346.
Channel Width	Select the channel width that will be used by this network here. Options to choose from are 20 MHz and Auto 20/40 MHz.

#### In the **5GHz** section, the following parameters can be configured.

Parameter	Description					<b>⊖</b> 2016-04	22 15:48 👤 Sign Oul			
Wireless	Select to turn <b>On</b> or <b>Off</b> the use of the 5GHz wireless band for this network.	D Central WiFiMa	nnager Home	Configuration	System	Monitor	<b>i</b> About			
Wireless Mode	Select the wireless mode that will be used in this network here. Options to choose from are <b>Mixed 802.11n, 802.11a</b> , <b>802.11a Only, 802.11n Only</b> , and <b>Mixed 802.11ac</b> .	Site HQ Network SSID	Configuration>Site>HQ>Network>1	2erformance On	V					
Data Rate	After selecting to use the <b>802.11a Only</b> wireless mode, select the wireless data rate here.		VLAN     Wireless Mode     Mixed 802.11ac       Bandwidth optimization     Data rate     Best							
Beacon Interval	Enter the beacon interval value here. The range is from 40 to 500. By default, this value is 100.	iere. The range is from 40 00. Betom		1 Enable						
DTIM Interval	Enter the DTIM interval value here. The range is from 1 to 15. By default, this value is 1.	WLAN Partition Ack Ti Wireless resource Short	WLAN Partition Wireless resource	WLAN Partition Wireless resource	is from 1 to WLAN Partition A Wireless resource	WLAN Partition Ack Time Out (5GHz, 25~200) Wireless resource Short GI	48 Disable	(µs)		
WMM (Wi-Fi Multimedia)	Select to enable or disable the Wi-Fi Multimedia (WMM) feature here.	M) Uploading configuration Firmware upgrade 25 to Undefined AP GMP Snooping Multicast Rate Multicast Bandwidth Control Maximum Multicast Bandwidth		Disable Disable	(Mbps)					
ACK Timeout	Enter the ACK timeout value here. The range is from 25 to 200 $\mu$ s. By default, this value is 48 $\mu$ s.			Disable 100	kbps					
Short GI	Select to enable or disable the short GI feature here.		HT20/40 Coexistence	Disable	~					
IGMP Snooping	Select to enable or disable the IGMP snooping feature here.		RTS length (256-2346)	2346						
Multicast Rate	Select the multicast rate value here.		Fragment length (256-2346)	2346						
Multicast Bandwidth Control	Select to enable or disable the multicast bandwidth control feature here.		Channel width	Auto 20/40 MHz	V		s			

Copyright©2016 D-Link Corporation.

Performance

# CWM Configuration Configuration Site Network Performance

In the 5GHz section, the following parameters can be configured (continued).

Parameter	Description
Maximum Multicast	After enabling the Multicast Bandwidth Control feature, enter the maximum multicast bandwidth allowed here. By default, this value is 100 kbps.
Bandwidth	
HT20/40	Select to enable or disable the HT20/40 coexistence feature here.
Coexistence	
Transfer DHCP	Select to enable or disable the feature that allows for the transfer of DHCP offers to unicast here.
Offer to Unicast	
RTS Length	Enter the RTS value here. The range is from 256 to 2346. By default, this value is 2346.
Fragment Length	Enter the fragment length value here. The range is from 256 to 2346. By default, this value is 2346.
Channel Width	Select the channel width that will be used by this network here. Options to choose from are 20 MHz and Auto 20/40 MHz, and Auto 20/40/80 MHz.

Click the **Save** button to accept the changes made.

### WLAN Partition

After clicking on **WLAN Partition** in the left panel, the following page will be available. On this page we can view and configure the WLAN partition settings that will be used in this network.

In the 2.4GHz section, the following parameters can be configured.

Parameter	Description		
Link Integrity	Select to enable or disable the wireless link integrity feature here.	WifiMa	nager
Ethernet to WLAN Access	Select to enable or disable Ethernet to WLAN access here.	Site <ul> <li>HQ</li> <li>Network</li> </ul>	Configuratio
Primary SSID	Select to enable or disable membership of the primary SSID to this WLAN partition here. Select the <b>Guest mode</b> option to allow this SSID to have access to this WLAN partition as a guest.	SSID VLAN Bandwidth optimization RF optimization Schedule	Link Integri Ethernet to Internal Sta Primary
Multi-SSID 1 to 7	Select to enable or disable membership of the specified multi-SSID to this WLAN partition here. Select the <b>Guest</b> <b>mode</b> option to allow this SSID to have access to this WLAN partition as a guest.	Device setting Performance WLAN Partition Wireless resource SSL Certification	Multi-S: Multi-S: Multi-S: Multi-S: Multi-S:

Click the **Save** button to accept the changes made.

					0 2046 04 2	2 16:00 9 Cian Outladmir
D Central WifiMa	nager Home	c	onfiguration	System	Monitor	2 16:00 🗙 Sign Outradmir Ottadmir About
Site	Configuration>Site>HQ>Ne	etwork>WLAN Partition	n			
HQ • Network • SSID VLAN Bandwidth optimization RF optimization Schedule Device setting Performance WLAN Partition Wireless resource SSL Certification Uploading configuration Firmware upgrade	2.4GHz     1     5GHz       Link Integrity       Ethernet to WLAN Access       Internal Station Connection       Primary SSID       Multi-SSID 1       Multi-SSID 2       Multi-SSID 3       Multi-SSID 4       Multi-SSID 5       Multi-SSID 6       Multi-SSID 7	Disable V Enable V Enable Enable Enable Enable Enable Enable Enable Enable Enable Enable Enable	<ul> <li>Disable</li> </ul>	<ul> <li>Guest mode</li> </ul>		Save

Copyright©2016 D-Link Corporation

In the **5GHz** section, the following parameters can be configured.

Parameter	Description
Link Integrity	Select to enable or disable the wireless link integrity feature here.
Ethernet to WLAN Access	Select to enable or disable Ethernet to WLAN access here.
Primary SSID	Select to enable or disable membership of the primary SSID to this WLAN partition here. Select the <b>Guest mode</b> option to allow this SSID to have access to this WLAN partition as a guest.
Multi-SSID 1 to 7	Select to enable or disable membership of the specified multi-SSID to this WLAN partition here. Select the <b>Guest mode</b> option to allow this SSID to have access to this WLAN partition as a guest.

Click the **Save** button to accept the changes made.

WifiMa	nager 🖽		D /	*	Ľ	
	Home	C	onfiguration	System	Monitor	About
9	Configuration>Site>HQ>Net	work>WLAN Partition	n			
IQ ⊖ ∃ Network ⊖	2.4GHz   5GHz					
SSID	Link Integrity	Disable 🗸				
VLAN	Ethernet to WI AN Access	Enable V				
Bandwidth optimization	Internal Station Connection					
RF optimization	Primary SSID	Enable	○ Disable	⊖ Guest mode		
Schedule	Multi SSID 1	© Enable	ODiashla	O Guest made		
Device setting	Wala-SSID 1	Ellable	Obisable	O Guest mode		
Performance	Multi-SSID 2	Enable	O Disable	○ Guest mode		
WLAN Partition	Multi-SSID 3	Enable	O Disable	O Guest mode		
Wireless resource	Multi-SSID 4	Enable	O Disable	O Guest mode		
SSL Certification	Multi-SSID 5	Enable		⊖ Guest mode		
Uploading configuration	Multi COID C		OBISIDIO			
Firmware upgrade	Multi-SSID 6	<ul> <li>Enable</li> </ul>	Obisable	() Guest mode		
lefined AP	Multi-SSID 7	Enable	O Disable	⊖ Guest mode		
						Sa

**WLAN Partition** 

Copyright©2016 D-Link Corporation

#### CWM Configuration Configuration Site Network **Wireless Resource**

After clicking on Wireless Resource in the left panel, the following page will be available. On this page we can view and configure the WLAN resource settings that will be used in this network.

In the 2.4GHz section, the following parameters can be configured.

Parameter	Description					©2016-04-	22 16:39 🙎 Sign Out/a
ACL RSSI Threshold	Select the ACL RSSI threshold percentage here. The range is from 10% to 100%, in increments of 10%.	D Central WiFiMa	nager Home	Configuration	System	Monitor	<b>i</b> About
Aging Out	Select this option to enable and select the aging out mode here. Options to choose from are <b>RSSI</b> and <b>Data Rate</b> .	Site HQ • Network •	2.4GHz   5GHz	Wireless resource			
RSSI Threshold	sr selecting the <b>RSSI</b> mode, select the RSSI threshold centage here. The range is from 10% to 100%, in rements of 10%.		Aging out				
Data Rate	After selecting the <b>Data Rate</b> mode, select the data rate connection limit here. The range is from 6 to 54 Mbps.	Schedule Device setting Performance	Data rate	6 V			
Connection Limit	Select this option to enable and configure the connection limit settings.	WLAN Partition Wireless resource	User limit(0~64)	20 Enable			
User Limit	Enter the user connection limit here. The range is from 0 to 64 users. By default, this value is 20.	Uploading configuration Firmware upgrade	Network utilization	100%			
11n Preferred	Select to enable or disable the preferred use of 802.11n here.	Undefined AP					Save
Network Utilization	Select the network utilization percentage value here. The range is from 0% to 100%, in increments of 20%. By default, this value is 100%.						

Click the **Save** button to accept the changes made.

Copyright©2016 D-Link Corporation

#### In the 5GHz section, the following parameters can be configured.

Parameter	Description
ACL RSSI Threshold	Select the ACL RSSI threshold percentage here. The range is from 10% to 100%, in increments of 10%.
Aging Out	Select this option to enable and select the aging out mode here. Options to choose from are <b>RSSI</b> and <b>Data Rate</b> .
RSSI Threshold	After selecting the <b>RSSI</b> mode, select the RSSI threshold percentage here. The range is from 10% to 100%, in increments of 10%.
Data Rate	After selecting the <b>Data Rate</b> mode, select the data rate connection limit here. The range is from 6 to 54 Mbps.
Connection Limit	Select this option to enable and configure the connection limit settings.
User Limit	Enter the user connection limit here. The range is from 0 to 64 users. By default, this value is 20.
11n Preferred	Select to enable or disable the preferred use of 802.11n here.
Network Utilization	Select the network utilization percentage value here. The range is from 0% to 100%, in increments of 20%. By default, this value is 100%.
Band Steering	Select to enable and configure the wireless band steering feature here.
Band Steering Age	Enter the wireless band steering age value here. The range is from 0 to 600. By default, this value is 180.
Band Steering Difference	Enter the wireless band steering difference value here. The range is from 0 to 32. By default, this value is 2.
Band Steering Refuse Number	Enter the wireless band steering refuse number here. The range is from 0 to 10. By default, this value is 3



Click the **Save** button to accept the changes made.

ork Wireless Resource

# CWM Configuration Configuration Site Network SSL Certification

After clicking on **SSL Certification** in the left panel, the following page will be available. On this page we can view and configure the SSL certification settings that will be used in this network.

In this section, the following parameters can be configured.

Parameter	Description	
Upload Certificate From File	Click the <b>Browse</b> button to navigate to the SSL certificate file, located on the local computer, that will be uploaded here	Site
		E HQ
Upload Key From	Click the <b>Browse</b> button to navigate to the SSL key file,	
File	located on the local computer, that will be uploaded here.	

Click the **Upload** button to initiate the file upload. After this, the **Status**, **Result**, and **Progress** will be displayed.



### CWM Configuration Configuration Site Network Upload Configuration

After clicking on **Uploading Configuration** in the left panel, the following page will be available. On this page we can view and configure the configuration file upload schedule or initiate the upload of the configuration file to all access points in this network manually.

In the **Schedule Settings** section, the following parameters can be configured.

Parameter	Description
Run	Select this option to manually upload the configuration file to all the access points in this network manually. Click <b>Complete</b> to initiate the upload.
Specify Time	Select this option to configure the scheduled time for the configuration upload to take place. Selecting this option will initiate the configuration upload every weekday specified at the time specified continuously.
Specify Date	Select this option to configure the scheduled date for the configuration upload to take place. Selecting this option will only initiate the configuration upload once on the date and time specified.
Date	After selecting the <b>Specify Date</b> option, select the date at which the upload will be initiated.
Time	After selecting the <b>Specify Time</b> or the <b>Specify Date</b> option, select the time at which the upload will be initiated.
Day	After selecting the <b>Specify Time</b> option, select the day(s) on which the upload will be initiated.

Click the **Complete** button to accept the changes made or to manually initiate the upload.

In the Run Status section, the following parameters can be configured.

Parameter	Description
Off/On	Toggle this option to <b>On</b> , to enable the scheduled configuration upload configured. Toggle this option to <b>Off</b> to disable the scheduled upload. To reconfigure the schedule settings, this option must be turned off.

After the first upload, the **Next Run Time** field will display when the next upload will take place. After every upload, the **Result** hyperlink will be made available for review.



### CWM Configuration Configuration Site Network Firmware Upgrade

After clicking on **Firmware Upgrade** in the left panel, the following page will be available. On this page we can view and configure the firmware file upload schedule or initiate the upload of the firmware file to all access points in this network manually.

In the **Choose Firmware** section, the following parameters can be configured.

Parameter	Description
Firmware File	For every access point in this network, we can specify the firmware file that will be uploaded either manually, or based on the schedule configured. Click <b>Browse</b> to navigate to the firmware file located on the computer.

In the **Schedule Settings** section, the following parameters can be configured.

Parameter	Description
Run	Select this option to manually upload the firmware file to all the specified access points in this network manually. Click <b>Complete</b> to initiate the upload.
Specify Time	Select this option to configure the scheduled time for the firmware upload to take place. Selecting this option will initiate the firmware upload every weekday specified at the time specified continuously.
Specify Date	Select this option to configure the scheduled date for the firmware upload to take place. Selecting this option will only initiate the firmware upload once on the date and time specified.
Date	After selecting the <b>Specify Date</b> option, select the date at which the upload will be initiated.
Time	After selecting the <b>Specify Time</b> or the <b>Specify Date</b> option, select the time at which the upload will be initiated.
Day	After selecting the <b>Specify Time</b> option, select the day(s) on which the upload will be initiated.

Click the **Complete** button to accept the changes made or to manually initiate the upload.



# CWM Configuration Configuration Site Network Firmware Upgrade

#### In the Run Status section, the following parameters can be configured.

Parameter	Description
Off/On	Toggle this option to <b>On</b> , to enable the scheduled firmware upload configured. Toggle this option to <b>Off</b> to disable the scheduled upload. To reconfigure the schedule settings, this option must be turned off.

After the first upload, the **Next Run Time** field will display when the next upload will take place. After every upload, the **Result** hyperlink will be made available for review.



# CWM Configuration Configuration Undefined AP

After clicking on **Undefined AP** in the left panel, the following page will be available. On this page we can view a list of access points that do not belong to a network configured in any site.

To add an access point in this list to a network, select the check box next to the entry and click the icon on the top, right of this page. A list of available networks will be displayed that can be selected for the move.

					©20		Sign Out	
D Central WiFiMa	nager		<b>ې</b>	<b>.</b>	<u></u>		<b>i</b>	
	H	ome (	Configuration	System	Monitor		About	
te	Configuration>Undefine	ed AP						
D-Link_HQ								4
D-Link_TW	r Undefined AP list							
)-Link_US	NO. Status	Client Chanr	Last check-in	IP address	MAC address	Module name	Version	T
-Link_EU		0/0 1/14	9 2014-08-27 17:2	4.24 10 10 10 247	78542EB07D30	DAP-2695	1 10	٣
Link_JP					100122001000	0.1 2000		
Link_KR								
-Link_IN								
Link_AU								
Link_CN								
-Link_SG								
Link_RU								
Link_LA								
link_me								
NK_HK								
IK_IR								
* •								
afined AP								
Cinco / Cinco								
	s							_
							_	
		Сору	right©2014 D-Link Co	rporation.				

### CWM Configuration System Settings General

On this page we can view and configure settings that are related to the system functionality of the Central WifiManager application.

After clicking on **System** in the top panel and **Settings** in the left panel, the following page will be displayed.

On this page there are five tabs with various settings that can be configured. They are General, Module, Database, Advance and SMTP.

In the General tab, we can view and configure the CWM login settings, the AP live packet settings, the CWM connection settings, and update the SSL certification.

Direction operations       Direction operation operation operations       Direction opera					<b>(</b> )2016-04-2	25 11:04 👱 Sign Out/admi
Hone       Configuration       System       Montor       About         Settings       System-Settings       Income       I		al Manager 🏦	<b>\$</b>	\$	<u></u>	i
Statuge         Spectral-SecuritySet           General	Callingo	Home	Configuration	System	Monitor	About
Copyright©2016 D-Link Corporation.	Settings User manager	System-Settings General Module Database S Login settings Save your login settings: None Maximum online users: 100 CAPTCHA Disable AP live packet settings Live packet interval time: Auto Connection setting Access address: 192 Server must be restarted for chang Listening port: 800 Web access port 442 Uptoad Certificate From File Uptoad Certificate From File Restart Apache	MTP Payment	(Domain name / IP addre (Domain name / IP addre ce port 64768 rer restart needed 3rowse Uptoad 3rowse Uptoad	ss)	
			Copyright©2016 D-Link	Corporation.		
#### CWM Configuration System General Settings

#### In the Login settings section, the following parameters can be configured.

Parameter	Description	
Save your login settings	In the <b>Login Settings</b> section, select this option to choose whether the login session should be remembered or not. After selecting the <b>None</b> option, the user will be prompt to	Save your login seturings.     None       Maximum online users:     100       CAPTCHA     Disable
	login every time a connection to the Web User Interface (Web UI) is made.	
	After selecting the <b>1 week</b> option, the user session will be kept initial login was made except if the user manually logged out.	open for one week. During this time, the user will not be asked to login again after the
Maximum online users	Enter the maximum amount of users that will be allowed to acc 10. By default, this value is 5.	ess the management interface at the same time. This value must be between 1 and
САРТСНА	Select to enable or disable the CAPTCHA feature here.	

#### In the AP live packet settings section, the following parameters can be configured.

Parameter	Description	AP live packet settings
Live packet interval	Select the live packet interval time here. Options to choose	Live packet interval time: Auto 🗸 (Seconds)
time	from are Auto, 2, 5, 10, 20, and 30.	

#### In the Connection settings section, the following parameters can be configured.

Parameter	Description
Access address	Enter the Central WifiManager Server application's IP address here.
Listen port	Enter the CWM server application's listen port number here. By default, this value is 8090.
Service port	Enter the CWM server application's service port number here. By default, this value is 64768.
Web access port	Enter the CWM web access port number here. By default, this value 443.

Connection setting		
Access address:	192.168.70.19	(Domain name / IP address)
Server must be restarted for c	hanges in settings to take effect.	
Listening port:	8090 Service	port: 64768
Web access port	443 Apply Apache serve	r restart needed

Click the Apply button the accept the changes made.

# CWM Configuration System Settings General

#### In the **Update SSL Certification** section, the following parameters can be configured.

Parameter	Description
Upload Certificate From File	Click the <b>Browse</b> button to navigate to the SSL certificate file, stored on the local PC, that will be used in this upload. Click the <b>Upload</b> button to initiate the upload.
Upload Key From File	Click the <b>Browse</b> button to navigate to the SSL key file, stored on the local PC, that will be used in this upload. Click the <b>Upload</b> button to initiate the upload

Click the **Restart Apache** button to restart the Apache server used to host the CWM. Click the **OK** button to accept the changes made.

[	Update SSL Certification	 		 	 
	Upload Certificate From File	Browse	Upload		
	Upload Key From File	Browse	Upload		
	Restart Apache				
					ОК

In the **Module** tab, a list of access point modules will be displayed in the **Module Name** section. Every different model of access point that will be managed by the Central WifiManager Server application, requires the administrator to install the executable module file for that specific access point's model name.

For example, on this page we have two kinds of access point modules installed, the DAP-2330 and the DAP-2660. This means that we can have multiple DAP-2330 and DAP-2660 access points installed on the network, but only required to install two modules. One for each type of access point.

**NOTE:** The module executable files for all the access points, supported in the application, can be downloaded from the D-Link website.

More information about the installed access point modules can be found in the **Module Information** section.

To keep the installed modules and firmware versions for access points up to date, click on the **Check Now** button.

Click the **OK** button to accept the changes made.

			Online	e Check Version		x
	Model Name	нw	Version	Result	Download	
1000	DAP-2330	А	1.01			
	DAP-2660	А	1.05			
_						

After clicking on **Check Now**, the following page will be available. On this page the application will check if the installed access point modules are up to date.

		_		<b>O</b> 2014-07-0	)1 16:59 👤 Sign Out/admir
Central WiFiManager	Home	Configuration	System	Monitor	<b>i</b> About
Settings System>	Settings	2000 - 100 -			
User Manager Genera Check Check	Module     Database     Ad     Checking for The Latest Versing for the latest module and     know     Module Name     DAP-2330     DAP-2660	Vanced SMTP ion Firmware version DAP-2330 Module Name: Description: Product Version: Support Band:	Module Info DAP-2330 AP Manager Module 1 1.01 2.4GHz	rmation v1.01r08 (2014/06/24)	
		Copyright ©2014 D-Link	Corporation.		ОК

### CWM Configuration System Settings Database

After clicking on the **Database** tab, the following page will be available. On this page we can view and configure how this application backs up or restores the database information and at what time intervals this should take place. In the **Database** tab, there are two sub-tab pages called **General** and **Backup**.

In the **General** sub-tab, the following parameters can be configured.

Parameter	Description					<b>●</b> 2015-	01-05 14:22 👱 Sign Out/Jo
Enable auto backup	Select this option to enable the automatic backup feature of the application's database.	WifiMc	anager Home	Configuration	System	Monitor	<b>i</b> About
Auto backup interval time	Enter the automatic backup interval time, in days, here. By default, this value is 7 days. To remove the old database backed up information after the new database was successfully backed up, select the ' <b>Old data will be</b> <b>deleted once the automatic backup process finishes</b> ' option and enter the pending days value in the text box. By default, this value is 7 days.	Settings User manager	System>Settings  General Module Database  General Backup  Data will be collected in the backup  Can also set up to have data delet  Enable auto backup IV  Auto backup interval time  Other of the set	Advanced SMTP ground while the server is runnin ted after backup is done. Days the automatic backup process	g.You can set up auto backu finishes 7 Days	up as data will increase subs	tantially over time.You
Data backup directory	In this field the path to the backup directory will be displayed for reference.		Data backup directory:\\Server\\A	PP_DATA\\D-Link			
Click the <b>OK</b> button to a	accept the changes made.						
			L				OK

Copyright©2014 D-Link Corporation

# CWM Configuration System Settings Database

#### In the **Backup** sub-tab, the following parameters can be configured.

Parameter	Description
Backup	<ul> <li>In this section we can manually backup the system data to the computer accessing the Web interface. Options to choose from are: <ul> <li>Backup basic settings - Select this option to backup basic system settings.</li> <li>Backup station information - Select this option to backup wireless station information.</li> <li>Backup all information - Select this option to backup all the information.</li> </ul> </li> <li>Click Backup Now to initiate the manual backup. The backup file is a PostgreSQL file with the file extension of SQL.</li> </ul>
Restore	In this section we can manually navigate to a backed up file and restore those settings to this application. Click <b>Browse</b> and navigate to the previously backed up SQL file and then click <b>Restore Now</b> to initiate the restore.

Click the **OK** button to accept the changes made.

Entry     Entry     Entry       Hore     Configuration     System     Montlor     About         etings     System>Settings   Ser manager       General     Module     Database     SMTP     Payment         General     Backup     Discover     General     Backup to local hard drive         Backup to local hard drive     Backup Now     Backup Now         Restore     Restore         Choose backup file     Browse	Centr	al Magager		• <u></u>	•	Ŕ	Î
strings       System>Settings         ser manage/       General Module Database SMTP Payment         Ceneral Backup       Backup         You can backup system data as well as restore from a previously saved one here       Backup-         Backup Databasic setting       Backup all information         Backup Now       Backup Now         Restore       Choose backup file         Browse (limit to 500M)       Restore Now		manager	Home	Configuration	System	Monitor	About
	eer manager	General General You can b Backup 1 Backup 1 Backup 1 Backup 1 Choose 1 Restore Choose 1 Restore	Module Database St Backup ackup system data as well to local hard drive up basic setting up station information up all information Backup Now	It as restore from a previously Browse (1)	saved one here		

# CWM Configuration System Settings Advanced

After clicking on the **Advanced** tab, the following page will be available. On this page we can view and configure advanced time settings for some features hosted by this application.

The following parameters can be configured.

Parameter	Description
Set timeout	Enter the maximum time allowed for settings to be made in this application. This is the time from the click of a button until the request was received by the server. By default, this value is 5 seconds.
Reboot time	Enter the time the Web application will wait after a reboot request was send by the server to access points. By default, this value is 50 seconds.
Configuration update time	Enter the time the Web application will wait after a configuration file update was initiated to access points by the server. By default, this value is 60 seconds.
Factory reset time	Enter the time the Web application will wait after a factory reset was initiated to access points by the server. By default, this value is 60 seconds.
FW download time	Enter the time the Web application will allow for firmware downloads initiated by the firmware update check feature. By default, this value is 80 seconds.
FW flash time	Enter the time the Web application will wait after a firmware flash update was initiated by the server to access points. By default, this value is 300 seconds.
Timing tolerance time	Enter the timing tolerance time value here. By default, this value is 5 seconds.

Click the **OK** button to accept the changes made.

Copyright©2014 D-Link Corporation.

### CWM Configuration System Settings SMTP

After clicking on the **SMTP** tab, the following page will be available. On this page we can view and configure the Simple Mail Transfer Protocol (SMTP) settings.

In the **Configure Server Settings** section, the following parameters can be configured.

Parameter	Description
Mail Server	Enter the SMTP server's IP address or domain name here.
Port	Enter the SMTP server's port number here. By default, this value is 25.
Encryption	If applicable, select the SMTP connection's encryption method here. Options available are <b>SSL</b> and <b>TSL</b> . Click <b>Connect</b> to test if the mail server settings are correct.
Enable authentication	Select this option if the SMTP server requires authentication to successfully send emails.
Username	After authentication was enabled, enter the SMTP user account's username here.
Password	After authentication was enabled, enter the SMTP user account's password here.

In the Mail Settings section, the following parameters can be configured.

Parameter	Description
From address	Enter the sender's email address here so that the recipient can recognize who is sending the email.
From name	Enter the sender's name here.
Reply address	Enter the recipient's email address here.
Reply name	Enter the recipient's name here.
Word wrap	Enter the word wrap value here. By default, this value is 80.

In the Mail Test section, the following parameters can be configured.

Parameter	Description
Mailbox address	To test if the recipient's email address is active, enter the
	recipient's email address here and click Test.

Click the **OK** button to accept the changes made.

Hanager L	ome	Configuration	System	Monitor	Abq
System>Settings					
General Module [	Database Adva	nced SMTP			
Configure Server Se	ettings				
Mail Server:					
Port:	25				
Encryption:	SSL 🗆	TSL Connect			
Enable Authent	tication				
Username:					
Password:					
Mail Settings					
From Address:					
From Name:					
Reply Address:					
Reply Name:					
Word Wrap:	80				
Mail Test					
MailBox Address:			Test		
					ОК

Copyright ©2014 D-Link Corporation

OK

# CWM Configuration System Settings Payment

After clicking on the **Payment** tab, the following page will be available. On this page we can view and configure PayPal payment settings used on the CWM.

The following parameters can be configured.

Parameter	Description						C) 2016 04	25 11-56 Sign Out/ode
PayPal Currency Code	Select the currency code for the PayPal account here.	D Cent Wif	ral Manager		<b>\$</b>	۵	<u></u>	i)
Passcode Unit Price	Enter the passcode unit price per minute here.	Settings	Ho System>Settings	ome	Configuration	System	Monitor	About
PayPal API Username	Enter the API username for the PayPal account here.	User manager	General Module D	Database SMT	Payment			
PayPal API Password	Enter the API password for the PayPal account here.	_	PayPal Currency Cod Passcode Unit Price	le USD V	minute			
PayPal API Signature	Enter the API signature for the PayPal account here.		PayPal API Password PayPal API Password PayPal API Signature					
Click the <b>OK</b> button to a	accept the changes made.							

Copyright©2016 D-Link Corporation.

#### CWM Configuration System User Manager

After clicking on **System** in the top panel and **User Manager** in the left panel, the following page will be displayed. On this page we can view, create and configure user accounts. There are five kinds of user accounts that can be created to access the Central WifiManager Server application.

In the User List section, a list of user accounts will be displayed.

- Click the 🕒 button to add a new user account.
- Click the 🗐 icon to modify an existing user account.
- Click the 📠 icon to delete an existing user account.

					2014-07-09 17:	:04 🙎 Sign Out/admii
Central	oooor		<b>\$</b>	•	Ŕ	<b>i</b>
	anager	Home	Configuration	System	Monitor	About
Settings	System>0	Jser Manager				
Jser Manager					T.	
	All Users	(2)   Root Admin(1)   Ro	ot User(0)   Local Admin(0)	Local User(0)   Front Desk Staff(1)		
	User	List				<b>•</b>
		UserName	Privilege	CreateDate	Resume	Action
		admin	Root Admin	2012-08-03 03:34:46	default user	E/
		front	Front Desk Staff	2014-07-08 10:55:50		
				2 total 1/1 Page		
	-		Copyright ©2014.1	D-Link Corporation.		

# CWM Configuration System User Manager Create User Account

After clicking the <sup>(1)</sup> icon, the following page will be available. On this page we can configure the following parameters.

Parameter	Description
Username	Enter the username for the new user account here. This name must be between 4 and 64 characters long.
Password	Enter the password for the new user account here. This password must be between 4 and 64 characters long.
Privilege	Select the privilege level that this user account will have. Options to choose from are <b>Root Admin</b> , <b>Root User</b> , <b>Local</b> <b>Admin</b> , <b>Local User</b> , and <b>Front Desk Staff</b> .
E-mail	Enter the email address that will be associated with this user account here.
Description	Enter a more detailed description for this user account here.

Click the **OK** button to create the user account.

Click the **Reset** button to clear the information entered in the fields of this form. Click the **Cancel** button to discard the changes made and return to the main page.

					<b>C</b> 2015-0 <sup>-</sup>	I-05 18:18 🙎 Sign Out/admin
Central			<b>\$</b>	<b>Ö</b>	Ŕ	î
	nager	Home	Configuration	System	Monitor	About
Settings	System>User mar	nager				
User manager						
	Username :	*		Maximum length: 64	characters	
	Password :	*				
	Privilege :	Root admin				
	E-mail :					
	Description :				*	
					*	
		Maximum le	ngth: 50 characters			
					OK	Reset Cancel
					2	
			Copyright©201 <u>4 D-Li</u> i	nk Corporation.		

#### CWM Configuration Monitor Report Association By Access Point

After clicking on **Monitor** in the top panel and **Association** in the left panel, the following page will be displayed. On this page we can view a report of all the access points and wireless clients managed by this application. Three association reports can be generated **By Access Point**, **By Wireless Station**, and **By Station Number**.

On this page a report was generated **By Access Point**. This report can be refined by selecting the **Group** (Site), from the first drop-down menu, and also then selecting the network in the second drop-down menu.

Click the 🕏 button to regenerate this report.

In the Access Point table the list of access points, managed by this application, will be displayed. Information like the Module Name, MAC Address, Channel, IP Address and HW Version is displayed for each access point.

In the **Station Detail** table the list of wireless clients, connected to the access points, managed by this application, will be displayed. Information like **Date/Time**, **MAC Address**, **Alias**, **IP Address**, **SSID**, **Band**, **Authentication**, **RSSI** and **Power Save Mode** is displayed for each wireless client.

		Home	Con	figuration	Syste	m	Monitor	About
ort	Monitor>F	Report>Association						
ociation		By access point	By wir		By nu			
annel					10		17	
que AP					Gro	up Site	<ul> <li>All groups</li> </ul>	
log	Acces	s point						
or								Ú L
nitor manager		Module name	MAC address	Channel	IP address	Hardware versi	n	
nitor list		DAP-2360	C4A81D948E28	11/	192.168.0.20	3 В		
		DAP-2690	9CD643290490	6/64	192.168.0.20	6 B		
e		DAP-3662	003662128400	6/36	192.168.0.20	8 A 5 A		
Standard		DAP-2553	EC2280B61B78	1/	192.168.0.20	7 B1		
Private		DAP-2660	7062B850D260	11/100	192.168.0.20	1 A		
ndition		DAP-2310	C4A81D91B110	11/	192.168.0.20	4 В		
Condition								
Condition List								7 total 1/1
	r Station	n detail						
		Date time	MAC address	Alias	IP address	SSID Band	Authentication	RSSI save mod
							1	

# CWM Configuration Monitor Report Association By Wireless Station

On this page a report was generated **By Wireless Station**. This report can be refined by selecting the date and time **From** and **To**, and then selecting the **Type**, either **By MAC Address** or **By Alias**, and also additionally entering **Key Words** in the text box provided.

Click the Q button to regenerate this report.

In the table a list of wireless client connections, connected to the access points, managed by this application, will be displayed. Information like **Date/Time**, **MAC Address**, **Alias**, **IP Address**, **SSID**, **Band**, **Authentication**, **RSSI** and **Power Save Mode** is displayed for each wireless client.

WifiMan	nager 🗍 🎹		Configuratio		System		Monitor		About
port	Monitor>Report>Associatio	n	oomgaraa		oyucm		morintor		About
ssociation Security	By access point	В	y wireless st	ation	By number of sta	tions			
channel Rogue AP	From 2015-01-05 18	• 35 • To 2015	5-01-05 18	▼: 37 ▼ Type	By MAC address 🔻	Keyword	is C		1
Syslog nitor	Date time	MAC address	Alias	IP address	SSID	Band	Authentication	RSSI	Power save mode
Ionitor manager	2015-01-05 18:35:16	A088B4E4D508		192.168.0.100	WiFiManager50	5GHz	WPA2-Personal	84	OFF
onitor list	2015-01-05 18:35:16	20A2E424BB95		192.168.0.120	WiFiManager50	5GHz	WPA2-Personal	73	OFF
nt	2015-01-05 18:35:16	E0F5C602DB60		192.168.0.101	WiFiManager50	5GHz	WPA2-Personal	84	OFF
/De	2015-01-05 18:35:18	001302696D71		192.168.0.109	WiFiManager50	5GHz	WPA2-Personal	92	OFF
Standard	2015-01-05 18:35:18	00EEBD7C0589		192.168.0.199	WiFiManager50	5GHz	WPA2-Personal	70	OFF
Drivete	2015-01-05 18:36:16	20A2E424BB95		192.168.0.120	WiFiManager50	5GHz	WPA2-Personal	70	OFF
Private	2015-01-05 18:36:16	A088B4E4D508		192.168.0.100	WiFiManager50	5GHz	WPA2-Personal	84	OFF
ondition	2015-01-05 18:36:16	E0F5C602DB60		192.168.0.101	WiFiManager50	5GHz	WPA2-Personal	76	OFF
Condition	2015-01-05 18:36:18	00EEBD7C0589		192.168.0.199	WiFiManager50	5GHz	WPA2-Personal	67	OFF
manager	2015-01-05 18:36:18	001302696D71		192.168.0.109	WiFiManager50	5GHz	WPA2-Personal	92	OFF
				10 total	14 Paga				
				10 10141	in rage				

# CWM Configuration Monitor Report Association By Station Number

On this page a report was generated **By Station Number**. This report can be refined by selecting the date and time **From** and **To**, and then selecting the **Group Type** (Site), in the first drop-down menu, and then selecting the network in the second drop-down menu.

Click the subtron to regenerate this report.

In the table a list of access points will be displayed, by station number, if they have active wireless client connections, connected to the access points, managed by this application. Information like **Date/Time**, **IP Address** and **Station's Number** is displayed for each station.

In the line graph, a graphical representation of the **Station Number** over time will be displayed per IP address.



After clicking on **Monitor** in the top panel and **Security** in the left panel, the following page will be displayed. On this page we can view a report of the wireless security configurations of all the access points managed by this application. Security reports are displayed by **Chart** or by **List**.

On this page a **Chart** report was generated displaying all the available security levels on the access points managed by this application. This report can be refined by selecting the **Site**, in the first drop-down menu, and then selecting the network in the second drop-down menu.

Click the *constant* button to regenerate this report.

This report counts the available amount of SSIDs hosted by the access points in the network and then evaluating which security level they are configured at and then presenting them graphically in this chart per security level.



#### CWM Configuration Monitor Report Security List

On this page a **List** report was generated displaying all the SSIDs hosted by the access points managed by this application. This report can be refined by selecting the **Group Type** (Site), in the first drop-down menu, and then selecting the network in the second drop-down menu.

Click the 🕏 button to regenerate this report.

Information like SSID, Module Name, MAC Address, IP Address, Authentication, Encryption, Security Level, Band and HW Version is displayed for each SSID.

Click the button to export the contents displayed in this table to the computer accessing this interface. This export supports the following file formats; **TXT**, **PDF** and **Excel**.

Contraction of the								○2015-0	01-05 18:51	🧟 Sign Out/admii
Central			$\land$	<b>Ø</b> .	<b>a</b> ,	-		হি		
WifiMa	nag	)er	L	i i	<u>}_</u>	- <b></b>		÷		
			Home	Config	uration	System		Monitor		About
Report	Mon	itor>Report>Se	curity							
Association						-				
Security				L	ist					
Channel				_	Gro	up type Site		All groups	-	2 .t.
Rogue AP					10.000					
Syslog										Hardware
Monitor					120.03940.20225		- HORSON AND STOLE			version
Monitor manager	*	WiFiManag	DAP-3662	003662128400	192.168.0.208	WPA2-AUTO-Pe	enabled	auto	5GHz	A
Monitor list		Go to CWM5	DAP-3662	003662128400	192.168.0.208	Open System	disable	auto	5GHz	A
Event	×	WiFimanag	DAP-2553	EC2280B61B78	192.168.0.207	WPA2-AUTO-Pe	disabled	wep	2.4GHz	B1
E Type		GO to CWM24	DAP-2553	EC2280B61B78	192.168.0.207	Open System	enable	auto	2.4GHz	B1
Observed	≈	WiFimanag	DAP-2690	9CD643290490	192.168.0.206	WPA2-AUTO-Pe	enabled	auto	2.4GHz	В
Standard		GO to CWM24	DAP-2690	9CD643290490	192.168.0.206	Open System	enable	auto	2.4GHz	В
Private	≈	WiFiManag	DAP-2690	9CD643290490	192.168.0.206	WPA2-AUTO-Pe	enabled	auto	5GHz	В
Condition		Go to CWM5	DAP-2690	9CD643290490	192.168.0.206	Open System	enable	auto	5GHz	В
Condition	*	WiFimanag	DAP-2310	C4A81D91B110	192.168.0.204	WPA2-AUTO-Pe	disabled	wep	2.4GHz	В
Condition List	-	GO to CWM24	DAP-2310	C4A81D91B110	192.168.0.204	Open System	enable	auto	2.4GHz	В
E Condition List	×	WiFimanag	DAP-2660	7062B850D260	192.168.0.201	WPA2-AUTO-Pe	enabled	auto	2.4GHz	A
		GO to CWM24	DAP-2660	70628850D260	192.168.0.201	Open System	enable	auto	2.4GHZ	A
	×	WiFiManag.	DAP-2660	7062B850D260	192.168.0.201	WPA2-AUTO-Pe	enabled	auto	5GHz	A
		GO LO CVVIMS	DAP-2000	70628850D260	192.108.0.201	Open System	enable	auto	SGHZ	A
	÷	WIFImanag	DAP-2695	002695128470	192.168.0.205	WPA2-AUTO-Pe	enabled	auto	2.4GHZ	A
		GO to CVVW24	DAP-2095	002695128470	192.108.0.205	Open System	enabled	auto	2.4GHZ	A
	*	Co to CWM5	DAP-2095	002095128470	192.108.0.205	Open System	enabled	auto	5GHZ	A
	×	Millimanan	DAP-2095	002093128470	192.100.0.205	WDAQ AUTO Da	dischlad	auto	0.400	0
	÷	CO to CWM24	DAP-2360	C4A81D948E28	102 169 0 202	Open System	onable	wep	2.4GHZ	B
	×	WiEimonog	DAD 2662	002662120400	100.160.0.203	WDA2 AUTO Da	enabled	auto	2.4002	
	Ŷ	CO to CWM24	DAP 2662	003662128400	102.108.0.208	Open System	dicable	auto	2.4GHZ	A .
		GO 10 CWW24	DAP-3002	003002128400	192.106.0.208	open system	disable	auto	2.4GHZ	~

Copyright©2014 D-Link Corporation.

#### CWM Configuration Monitor Report Channel

After clicking on **Monitor** in the top panel and **Channel** in the left panel, the following page will be displayed. On this page we can view a graphical chart report of the wireless channel usage per frequency band.

This report can be refined by selecting the **Group Type** (Site), in the first drop-down menu, and then selecting the network in the second drop-down menu.

Click the 🕏 button to regenerate this report.

In the first chart report, we can view the channel number count for the 2.4GHz wireless frequency band.

In the second chart report, we can view the channel number count for the 5GHz wireless frequency band.



After clicking on **Monitor** in the top panel and **Rogue AP** in the left panel, the following page will be displayed. On this page we can view information about new, rogue, valid and neighboring access points. The purpose of this page is to scan for access points in the network and then to classify them into categories.

In the **New AP** tab, we can view a list of new access points in the environment. Access points displayed here have been detected by access points in our network and were classified as new access points.

Click the button to scan for unclassified access points within the range of the access points connected to our network.



After clicking the button, the following page will be available. On this page we can initiate a scan for unclassified access points within the wireless range of access points connected to our network.

Click the **Detect** button to initiate the scan.



After clicking the **Detect** button, the following page will be available. On this page we can select an access point, in our network, that will be used for the scan.

After selecting an access point, click the **OK** button to start the scan. Click the **Cancel** button to cancel the scan and return to the main page.



After clicking the **OK** button and after the scan was completed, this page will be available. On this page a list of unclassified access points within the wireless range of the previously select access point in our network will be displayed.

To classify access points in this list, select the check box next to the entry, click the button and select the classification category from the list. Options to choose from are **New**, **Rogue**, **Neighborhood** and **Valid**.

To filter the display entries in the table to only display a certain category, select the **Type** option from the drop-down menu. Filter display options are **All**, **New**, **Rogue**, **Neighborhood** and **Valid**.

Click the **OK** button to classify the selected access points into the category selected. Click the **Cancel** button to cancel the process and return to the main page.

					O 2015-01-08 14	1:58 🤽 Sign Out/adn
	lanager		<b>\$</b>	\$	<u></u>	i
Report	Report>Rogue AP	Home	Configuration	System	Monitor	About
Association Security Channel Rogue AP Syslog Monitor	Step1 Det Step2 Sor	t AP			Туј	De <mark>New</mark>
Monitor manager	П Туре	Channel	BSSID	Mode	ssip	
Monitor list	new	1	C4A81D8AFFEC	G	Connected Home Center	
I Type	new	1	C4A81D90CD90	N	WiFimanager240	(
Standard	new	1	EC2280B61B78	N	WiFimanager240	
Private	new	1	C4A81D8AC10C	G	024	
Condition	new	6	9CD643290490	N	WiFimanager240	
Manager	new	6	F8E903C0CDA4	G	macoffice	
I-I Condition List	new	6	6C198FD1443C	G	EEDemo	
	new	6	6C198FC44310	G	880neutrino24	
	new	6	881FA135D608	G	Airport Extreme	
	new	6	40167EA35360	G	uFish-AC68U	
	new	9	CCB255075C69	G	dlink-845	
	🗆 new	6	C8BE1972FCC6	N	Apple Tonic	
	new	10	C8BE1906CE53	N	dlink-CE53	
	D new	11	7062B869D764	G	Todd_DIR868I	~

Copyright©2014 D-Link Corporation

In the **Rogue AP** tab, we can view a list of access points in the environment that have been detected by access points in our network and were classified as rogue access points.

Click the button to scan for unclassified access points within the range of the access points connected to our network.

Contraction of the local division of the loc				<b>(</b> )2015-01-06 14:	53 🙎 Sign Out/admin
Central	$\frown$	<b>O</b>		হ	î
WifiMa	nager 🖽	Configuration	System M	4onitor	About
Report	Monitor>Report>Rogue AP				
Association					
Security					
Channel	New AP Rogue AP Valid AP N	leighbor AP			
Rogue AP			2	52	
Syslog	Channel				)
	1	D8FEE323B5D8	N	dlink-B	5D8
Monitor manager	1	6C198FF0ECDB	G	uFish-8	30L
Monitor list	1	001A9703341B	Ν	DCHG_	341B
Event					
Э Туре					
Standard					
Private					
Condition					
Condition Manager					
Condition List					
		Copyright©2014 D-Link Corp	oration.		

In the **Valid AP** tab, we can view a list of access points in the environment that have been detected by access points in our network and were classified as valid access points.

Click the button to scan for unclassified access points within the range of the access points connected to our network.

Contraction of the second				€2015-0	1-06 14:53 🙎 Sign Out/admin
Central	$\frown$	<b>0</b> .2	**	হি	
WifiMa	nager 🛄			ن <u>ن</u> Monitor	
Report	Monitor>Report>Roque AP	Conliguration	System	MONITO	About
Association					
Security					
Channel		laiabhar AD			
Rogue AP	New AF Rogue AF Valid AF N	leighbol AF			
Syslog	Channel	BSSID	Model		SSID
Monitor	6	00CAFE000010	G		uFish-880L
Monitor manager	11	7062B850D260	N	W	iFimanager240
Monitor list	9	F8E903C3A3D4	G		868newUI
Event	9	0004EDD7AEF4	G		super0705
- Type	9	78542EFDC6D8	G		
Chandlord	11	C0A0BBCF63AC	G	A	ople Martini 868
Private Condition Manager Condition List					
		Copyright©2014 D-Link Corp	poration.		

In the **Neighbor AP** tab, we can view a list of access points in the environment that have been detected by access points in our network and were classified as neighbor access points.

Click the button to scan for unclassified access points within the range of the access points connected to our network.

Central	$\frown$	<b>0</b> .8		©2015-01	-06 14:54 🙎 Sign Out/admi
WifiMa	nager 🛄	Configuration	System		About
Report	Monitor>Report>Rogue AP	Comgaration	oyuum	monitor	About
Association Security Channel	New AP Rogue AP Valid AP	Neighbor AP			
Syslog	Channel	BSSID	Model		SSID
Monitor	3	COA0BBEBDE00	G		av868-24ghz
Monitor manager	11	7062B86DB8C4	G	Gate	way to the future!
Monitor lint	6	48F8B3CAE494	G	3	Play Ground
Monitor list	11	000326603640	N	DAP2	660_Security_24
Event	11	F8E903B4F1D0	G	d	link-820LNG
] Type	11	C4A81D8AC108	G		DAJAP24
Standard	11	78542E88FDA7	G	DI	R-600_richard
Private	11	C0A0BBFBDDF0	G		Gin Tonic
Condition	2	7062B8A3015C	G	10	myWiFi015A
Manager					
		Copyright©2014 D_Link Ca	rporation.		

#### CWM Configuration Monitor Report SysLog

After clicking on **Monitor** in the top panel and **SysLog** in the left panel, the following page will be displayed. On this page we can view system log entries generated by events that occurred on the network and events that occurred on the Central WifiManager Server application.

Click the *button to export the contents displayed in this table to the computer accessing this interface. This export supports the following file formats; TXT, PDF and Excel.* 

					<b>(</b> )2015-0	11-06 15:08 🙎 Sign Out/admin
D Central WiFiMa	noner		<b>°</b> <u></u>	•	<u></u>	i
	nagor	Home	Configuration	System	Monitor	About
Report	Monitor>Report>S	yslog				
Association Security						1
Channel	Facility					on
Rogue AP	0	6	2014-08-12 17:04:21	118.167.25.94	1	A
Syslog Monitor	0	6	2014-08-12 17:14:26	118.167.25.94	[00:26:95:12:84:70] [Wireless] 5G A0:88:B4:E4:	Association Success:STA
Monitor manager Monitor list	0	6	2014-08-12 17:14:26	118.167.25.94	[00:26:95:12:84:70] [Wireless] 5G A a0:88:b4:e4	:4-way handshake start:ST I:d5:08
Event	0	6	2014-08-12 17:14:26	118.167.25.94	[00:26:95:12:84:70] [Wireless] 5G s:STA a0:88:b4:	:4-way handshake succes e4:d5:08
Standard	0	6	2014-08-12 17:14:49	118.167.25.94	[00:26:95:12:84:70] [Wireless] 5G A0:88:B4:E4:	Association Success:STA
Private	0	6	2014-08-12 17:14:49	118.167.25.94	[00:26:95:12:84:70] [Wireless] 5G A a0:88:b4:e4	:4-way handshake start:ST I:d5:08
Condition Manager	0	6	2014-08-12 17:14:49	118.167.25.94	[00:26:95:12:84:70] [Wireless] 5G s:STA a0:88:b4:	:4-way handshake succes e4:d5:08
Condition List	0	6	2014-08-12 17:32:05	36.225.38.83	[00:26:95:12:84:70] [Wireless] 5G 84:7A:88:6C	Association Success:STA 48:18
	0	6	2014-08-12 17:36:33	36.225.38.83	[00:26:95:12:84:70] [Wireless] 5G 84:7A:88:6C:	Association Success:STA 48:18
	0	6	2014-08-12 17:36:39	36.225.38.83	[00:26:95:12:84:70] [Wireless] 5G A 84:7a:88:6c	:4-way handshake start:ST :48:18
	0	6	2014-08-12 17:36:39	36.225.38.83	[00:26:95:12:84:70] [Wireless] 5G 84:7A:88:6C	Association Success:STA 48:18
	0	6	2014-08-12 17:36:40	36.225.38.83	[00:26:95:12:84:70] [Wireless] 5G A 84:7a:88:6c	:4-way handshake start:ST :48:18
	0	6	2014-08-12 17:36:41	36.225.38.83	[00:26:95:12:84:70] [Wireless] 5G A 84:7a:88:6c	:4-way handshake start:ST :48:18
				27645 records 1	2 2 4 5 6 7 9 9 10 povt 10	pages > >> current page:1/552

Copyright©2014 D-Link Corporation

### CWM Configuration Monitor Monitor Manager

After clicking on **Monitor** in the top panel and **Monitor Manager** in the left panel, the following page will be displayed. On this page we can view, create and configure monitoring watchdog entries to specifically monitor certain events that take place on certain devices.

On this page, a list of monitor manager watchdog entries are displayed.

- Click the 🕒 button to create a new monitor manager entry.
- Click the 🗾 icon to modify an existing monitor manager entry.
- Click the 👼 icon to delete an existing monitor manager entry.



#### CWM Configuration Monitor Monitor Monitor Manager Create Profile

After clicking on the add 🕒 icon, the following page will be available. On this page we can create or configure a monitor manager watchdog entry.

In the **Profile Settings** section, the following parameters can be configured:

Parameter	Description
Profile Name	Enter the profile name here. This name will be used to identify the entry in the list.
Device (IPv4 Address)	Click in the text box to view a list of access points associated with our network. Select an entry and click <b>OK</b> to add it to this field.
SNMP Version	This field will display the SNMP version that will be used for this entry. By default, the version is <b>SNMPv2c</b> .
Public String	Enter the public SNMP string name here. By default, this string is <b>public</b> .
Port	Enter the port number that the SNMP agent will use to receive request messages. By default, this value is UDP port number 161.
Timeout	Enter the message timeout value here. By default, this value is 30.
Interval Time(s)	Enter the interval time value here. By default, this value is 30 seconds.

In the Monitor Items section, the following parameters can be configured:

Parameter	Description
Monitor Item	Click in this text box to view a list of monitor items available for selection. Select a monitor item from the list. Options available for selection are <b>TransmittedByte-2.4G</b> , <b>ReceivedByte-2.4G</b> , <b>TransmittedByte-5G</b> , <b>ReceivedByte-</b> <b>5G</b> , and <b>CPUUtilization</b> .
Data Type	Select the data type here. Options to choose from are <b>Absolute</b> and <b>Relative</b> .
Channel Name	Enter the channel name here.
Unit String	Enter the unit string here.
Scale	Enter the scale value here.
Multiply	Enter the multiply value here.



Click the **Submit** button to accept the changes made.

Click the **Reset** button to clear out the information entered in the fields above. Click the **Cancel** button to discard the changes made and return to the main page.

#### **CWM Configuration Monitor Monitor List**

After clicking on **Monitor** in the top panel and **Monitor List** in the left panel, the following page will be displayed. On this page we can view a graphical chart of the monitor manager watchdog events create on the previous page. The list of created events will be displayed under the monitor list option in the left panel.

In this example, we created a monitor manager event called Access-Point-1.

Click the button to run the monitor event.

Click the 🔳 button to stop the monitor event.



### CWM Configuration Monitor Monitor List

After clicking the button, the monitor manager event will run and real-time updates will be displayed in the chart.

In this chart, we monitor the transmitted data of the 2.4GHz frequency band of the access point with the IP address of 192.168.70.50 at 30 second intervals using SNMPv2c and the public string.

Click the **button** to export this chart. This chart will be exported as an image file with the file format of **PNG**.



# CWM Configuration Monitor Event Type Standard

After clicking on **Monitor** in the top panel and **Event > Type > Standard** in the left panel, the following page will be displayed. On this page we can view standard event type messages generated based on the **Event & Notice Settings** configuration. A standard event is an event that can occur on all devices managed by the Central WifiManager Server application.

In the table, we can choose to display events based on the filtering criteria selected or we can choose to display all events generated.

To filter the events displayed in the table, the following parameters can be configured:

Parameter	Description
Date	Select the starting date by clicking in the first text box available and select the starting date from the option available. Do the same for the ending date selection in the second text box.
Event Level	Select the event level from the drop-down list provided. Options to choose from are <b>all</b> , <b>critic</b> , <b>error</b> , <b>warning</b> , and <b>notice</b> .
Node IP	Enter the node's IP address here.
Keyword	To display only entries that contain a certain keyword, enter that keyword in this text box.

Click the Q button to display only the entries based on the criteria entered.

Click the All button to display all standard events that have taken place.

Click the event and notice.

Click the <u>button</u> button to export the contents displayed in this table to the computer accessing this interface. This export supports the following file formats; **TXT**, **PDF** and **Excel**.

Click the big button to remove all entries from the event table.

Click the small 👼 button next to a specific entry to remove only that entry from the event table.

ssociation ecurity	Date: 2								
hannel logue AP		2015-0	1-08 2015	01-06 Event	evel: All	Node IP:	Кеумо		5)[
yslog		NO.	Event name		Level	Date time		Description	Delete
nitor Ionitor manager Ionitor list		1	ColdStart	Standard trap	Notice	2014-12-29 18:34:07	38.225.44.187	The sending protocol entity has rein itialized, indicating that the agent's c onfiguration nor entity implementati on may be altered.	8
ype Standard Private		2	ColdStart	Standard trap	Notice	2014-12-29 18:39:07	36.225.44.187	The sending protocol entity has rein itialized, indicating that the agent's c onfiguration nor entity implementati on may be altered.	Ē
Condition Condition Manager Condition List		3	ColdStart	Standard trap	Notice	2015-01-05 11:47:40	118.167.30.194	The sending protocol entity has rein itialized indicating that the agent's c onfiguration nor entity implementati on may be altered	•
test		4	ColdStart	Standard trap	Notice	2015-01-05 15:03:20	118.167.30.194	The sending protocol entity has rein itialized, indicating that the agent's o onfiguration nor entity implementati on may be altered.	ē

# CWM Configuration Monitor Event Type Standard Event

After clicking the button, the following page will be available. On this page, we can configure the standard SNMP event and notice settings that will be used to display messages on the **Standard** page, when that type of event has occurred on the network. For a complete list of standard traps that are supported by this application, refer to **Appendix B - Standard & Private Trap List**" on page <?>.

In the Event tab, the following parameters can be configured:

Parameter	Description							<b>(</b> ) 2015-01-	06 16:31 👱 Sign Out/a
Event	To modify an existing standard trap, select it in this section. After selecting an existing trap, its parameters will automatically be entered in the <b>Event Settings</b> section for modification. To create a new trap, do not select any event in this section.	Report Association Security Channel	al Manager Report>Event>1 Event Not	Home Event & notice settings	Configu	ration Event settings	System	Monitor	About
SNMP Version	Select the SNMP version that will be used for this trap here. Options to choose from are <b>SNMPv1</b> and <b>SNMPv2c</b> . When modifying an existing trap, this field cannot be changed.	Rogue AP Syslog Monitor Monitor manager	E Standar ColdSt WarmS LinkDo	dTrap art Start wn	*	SNMP Version Event name Generic TRAP Types	SNMP V1	×	נ
Event Name	Enter the event's name here. This name will be used to identify the event in the table mentioned before.	Monitor list Event Type	LinkUp Authen EgpNe	ticationFailure ighborLoss		Status OID	O Disable O Ena	able	]
Generic TRAP Types	Select the generic trap that will be used for this new trap here. Options to choose from are <b>Coldstart(0)</b> , <b>WarmStart(1)</b> , <b>LinkDown(2)</b> , <b>LinkUp(3)</b> , <b>AuthenticationFailure(4)</b> , <b>EgpNeighborLoss(5)</b> , and <b>EnterpriseSpecific(6)</b> . When modifying an existing trap, this field cannot be changed.	Standard Private Condition Manager Condition List test	ColdSt WarmS LinkDo LinkUp Authen EgpNe Enterpi	art(SNMPv2) Start(SNMPv2) wm(SNMPv2) (SNMPv2) ticationFailure(SNMPv2) ighborLoss(SNMPv2) risespecific		Description			
Status	Select to Enable or Disable this specific trap here.		DWP-2	360bdeAuthentication		Level	Critical	_	
OID	Enter the Object Identifier (OID) number for this trap here. When modifying an existing trap, this field cannot be changed.		DWP-2 DWP-2	360bstationAssocNotify 360bwlanIfLinkDown 360bwebLogoutSuccessful	*	New Sav	e Delete		
Description	Enter the trap's description here.		·						OK Car
Level	Select the level for this trap here. Options to choose from are <b>Critical</b> , <b>Error</b> , <b>Warning</b> , and <b>Notice</b> .								
				C	Copyright@	2014 D-Link Corpor	ation.		

Click the **New** button create a new trap event. Click the **Save** button to accept the changes made. Click the **Delete** button to delete the selected trap.

Click the **OK** button to accept the changes made.

Click the **Cancel** button to discard the changes made and return to the main page.

# CWM Configuration Monitor Event Type Standard Notice

In the **Notice** tab, we can enable the notification feature when a standard trap event was generated for a specific warning level.

The following parameters can be configured:

Parameter	Description
Warning Level	Select the warning level here. Options to choose from are <b>Critical</b> , <b>Error</b> , <b>Warning</b> , and <b>Notice</b> .
Send E-Mail	After the warning level was selected, select this option to enable the email notification feature for the selected warning level.
Recipient	Enter the recipient's email address here.
Sender	Enter the sender's email address here.
Subject	Enter the subject for the message here.
Message Type	Select the message type here. Options to choose from are <b>Event Level</b> , <b>Event Date/Time</b> , <b>Device Target</b> , and <b>Event Notice</b> .
Remark	Enter the remark for this message here.

Click the **Apply** button to accept the changes made.

Click the **OK** button to accept the changes made.

Click the **Cancel** button to discard the changes made and return to the main page.



# CWM Configuration Monitor Event Type Private

After clicking on **Monitor** in the top panel and **Event > Type > Private** in the left panel, the following page will be displayed. On this page we can view private event type messages generated based on the **Event & Notice Settings** configuration. A private event is an event that can only occur on specific devices that are managed by the Central WifiManager Server application. These events are product specific. For a complete list of private traps that are supported by this application, refer to "**Appendix B - Standard & Private Trap List**" on page <?>.

In the table, we can choose to display events based on the filtering criteria selected or we can choose to display all events generated.

To filter the events displayed in the table, the following parameters can be configured:

Parameter	Description
Date	Select the starting date by clicking in the first text box available and select the starting date from the option available. Do the same for the ending date selection in the second text box.
Event Level	Select the event level from the drop-down list provided. Options to choose from are <b>all</b> , <b>critic</b> , <b>error</b> , <b>warning</b> , and <b>notice</b> .
Node IP	Enter the node's IP address here.
Keyword	To display only entries that contain a certain keyword, enter that keyword in this text box.

Click the Q button to display only the entries based on the criteria entered.

Click the Addition to display all private events that have taken place.

Click the event and notice.

Click the button to export the contents displayed in this table to the computer accessing this interface. This export supports the following file formats; **TXT**, **PDF** and **Excel**.

Click the big button to remove all entries from the event table.

Click the small  $\overline{\[mu]}$  button next to a specific entry to remove only that entry from the event table.

Central		¢	<u>,</u>	ð I	©2015-01-0	6 16:44 💄 Sign Out/admir
U WifiMa	nager 🛄 <sub>Home</sub>	Config	uration Sy	vstem	Monitor	About
Report	Monitor>Event					
Association Security Channel	Date: 2015-01-06 -2015-0	1-06 Event level: All	▼Node IP:	Keyword:		
Rogue AP	NO. Event name	Event type Level	Date time	Source	Description	Delete
Sysiog	DAP-2660wlanl 1 fLinkDown	Private Critical	2014-12-16 16:46:32	220.137.35.35		ā
Monitor manager Monitor list	DAP-2660wlanl fLinkDown	Private Critical	2014-12-16 16:46:34	220.137.35.35		Ē
Type Standard Private Condition Condition Manager Condition List test						
	L					2 records current page:1/
		Copyright	©2014 D-Link Corporatio	on.		

<u></u>

Monitor

🕒 2015-01-06 16:51 🙎 Sign Out/ad

()

About

# CWM Configuration Monitor Event Type Private Event

After clicking the private SNMP event and notice settings that will be used to display messages on the **Private** page, when that type of event has occurred on the network.

In the **Event** tab, the following parameters can be configured:

Parameter	Description				
Event	To modify an existing private trap, select it in this section. After selecting an existing trap, its parameters will automatically be entered in the <b>Event Settings</b> section for modification. To create a new trap, do not select any event in this section	Report Association Security	al Manager Home Report-Event/Event & notice settings	Configuration	System
SNMP Version	Select the SNMP version that will be used for this trap here. Options to choose from are <b>SNMPv1</b> and <b>SNMPv2c</b> . When modifying an existing trap, this field cannot be changed.	Channel Rogue AP Syslog Monitor Monitor manager	Event ■ StandardTrap ■ Private DWP-2360bdeAuthentication DWP-2360bstationDisassocNotify	Event settings     SNMP Version     Event name     Generic TRAP Typ	SNMP V1
Event Name	Enter the event's name here. This name will be used to identify the event in the table mentioned before.	Monitor list Event Type	DWP-2360bstationAssocNotify DWP-2360bwlanifLinkDown DWP-2360bwebLogoutSuccessful	Status	© Disable © Enable
Generic TRAP Types	Select the generic trap that will be used for this new trap here. Options to choose from are <b>Coldstart(0)</b> , <b>WarmStart(1)</b> , <b>LinkDown(2)</b> , <b>LinkUp(3)</b> , <b>AuthenticationFailure(4)</b> , <b>EgpNeighborLoss(5)</b> , and <b>EnterpriseSpecific(6)</b> . When modifying an existing trap, this field cannot be changed.	Standard Private Condition Manager Condition List test	DWP-2360bbcFlood DWP-2360bdisassociateAttack DWP-2360bdeauthenticateAttack DWP-2360bdeauthenticateAttack DWP-2360bunitLinkUp DWP-2360btememoryPoor DWP-2360btenetLoginFail DWP-2360bteInetLoginFail DWP-2360bteInetLoginFail	Description	
Status	Select to Enable or Disable this specific trap here.		DWP-2360bsshLoginFail	Level	Critical
OID	Enter the Object Identifier (OID) number for this trap here. When modifying an existing trap, this field cannot be changed.		DAP-2695dtsFindInChannel DAP-2695dtsFindInChannel DAP-2695stationDisassocNotify DAP-2695stationAssocNotify	New	Bave Delete
Description	Enter the trap's description here.				
Level	Select the level for this trap here. Options to choose from are <b>Critical</b> , <b>Error</b> , <b>Warning</b> , and <b>Notice</b> .				
			Сору	yright©2014 D-Link Corp	oration.

Click the **New** button create a new trap event.

Click the **Save** button to accept the changes made.

Click the **Delete** button to delete the selected trap.

Click the **OK** button to accept the changes made.

Click the **Cancel** button to discard the changes made and return to the main page.

# CWM Configuration Monitor Event Type Private Notice

In the **Notice** tab, we can enable the notification feature when a private trap event was generated for a specific warning level.

The following parameters can be configured:

Parameter	Description
Warning Level	Select the warning level here. Options to choose from are <b>Critical</b> , <b>Error</b> , <b>Warning</b> , and <b>Notice</b> .
Send E-Mail	After the warning level was selected, select this option to enable the email notification feature for the selected warning level.
Recipient	Enter the recipient's email address here.
Sender	Enter the sender's email address here.
Subject	Enter the subject for the message here.
Message Type	Select the message type here. Options to choose from are <b>Event Level</b> , <b>Event Date/Time</b> , <b>Device Target</b> , and <b>Event Notice</b> .
Remark	Enter the remark for this message here.

Click the **Apply** button to accept the changes made.

Click the **OK** button to accept the changes made.

Click the **Cancel** button to discard the changes made and return to the main page.



### CWM Configuration Monitor Event Condition Condition Manager

After clicking on **Monitor** in the top panel and **Event > Condition > Condition Manager** in the left panel, the following page will be displayed. On this page we can view, create and configure watch manager profiles.

Existing Condition Manager profiles are displayed in the table on this page.

Click the button to create a new Condition Manager profile. Click the cicon to modify an existing Condition Manager profile. Click the cicon to delete an existing Condition Manager profile.



### CWM Configuration Monitor Event Condition Condition Manager Create Condition

After clicking the 🕒 button, the following page will be available. On this page we can create a new condition manager profile.

#### The following parameters can be configured:

Parameter	Description
Name	Enter the condition manager profile's name here.
Event List	To add an event to the event list, click on the <b>Add</b> button. To remove an event from the event list, select it and click on the <b>Delete</b> button.
Device List	To add a device to the device list, click on the <b>Add</b> button. To remove a device from the device list, select it and click on the <b>Delete</b> button.

Click the **OK** button to accept the changes made.

Click the **Cancel** button to discard the changes made and return to the main page.


# CWM Configuration Monitor Event Condition Condition Manager Create Condition

After clicking the **Add** button next to the **Event List** parameter, the following window will appear.

In the All Event section, all available trap events will be displayed.

To use one or more of these events, select them and click on the >> button add them to the **Selected Event** section.

To remove one or more of the selected events from the **Selected Events** section, select them and click on the << button.

Click the **OK** button to accept the selections made.

Click the **Cancel** button to discard the selections made and return to the previous page.

					<b>(</b> )2015-01	1-06 17:19 🙎 Sign Out/admin
D Central WiFiMa	nager	Home	Configuration	System	Monitor	<b>i</b> About
Report	Monitor>Ever	nt>Condition Manager >Creat	e Watch			
Association Security Channel Rogue AP Syslog Monitor Monitor manager Monitor list Event Standard Private Condition Manager Condition List	Name: Event list C U U U U U U U U U U U U U U U U U U	I events oldStart armStart nkDown nkUp gNNeiphort.oss oldStart(SNIMPv2) armStart(SNIMPv2) armStart(SNIMPv2) nkDown(SNIMPv2) uthentricationFailure(SNIMPv2) gNNeiphort.oss(SNIMPv2) mterprisespecific WP-2360bdarUthentication WP-2360bstationDisassocNotify WP-2360bstationAssocNotify WP-2360bstationAssocNotify	Select event Select event	ed events	allowed is 50.	OK Cancel
test			OK Cancel			
1			Copyright©2014 D-Link	Corporation.		

# CWM Configuration Monitor Event Condition Condition Manager Create Condition

After clicking the **Add** button next to the **Device List** parameter, the following window will appear.

In the **All Device** section, all available access points in the network, managed by this application, will be displayed.

To use one or more of these devices, select them and click on the >> button add them to the **Selected Devices** section.

To remove one or more of the selected devices from the **Selected Devices** section, select them and click on the << button.

Click the **OK** button to accept the selections made.

Click the **Cancel** button to discard the selections made and return to the previous page.

The second s					⊖2015-01	1-06 17:21 🙎 Sign Out/admin				
D Central WiFiMa	naaer		<b>\$</b>	\$	<u></u>	i				
		Home	Configuration	System	Monitor	About				
Report	Monitor>E	vent>Condition Manager	Create Watch							
Association Security	Name:		Maxir	num number of character	s allowed is 50.					
Channel Boguo AB	Event lie	ColdStart	Select device							
Syslog		All devices	Selecte	ed devices						
Monitor Monitor manager Monitor list Event Standard Private Condition Condition Manager Condition List test	Device	192,168,0,205 192,168,0,201 192,168,0,203 192,168,0,203 192,168,0,204 191,0,10,10,247 192,168,0,206 192,168,0,208	2			OK Cancel				
	ļ	OK Cancel								
			Copyright©2014 D-Link	Corporation.						

# CWM Configuration Monitor Event Condition Condition List

After creating watch manager profiles in the previous section, those profiles will be available for selection under the **Condition List** option in the left panel. In this example, we created a Condition manager profile called **WiFi-Link-Down** that will generate events when an access point in this network's wireless link goes down. After clicking on **Monitor** in the top panel and **Event > Condition List > WiFi-Link-Down** in the left panel, the following page will be displayed. On this page we can view watch list messages that were generated based on the watch manager profile's settings.

To filter the messages displayed in this table, the following parameters can be configured:

Parameter	Description
Date	Select the starting date by clicking in the first text box available and select the starting date from the option available. Do the same for the ending date selection in the second text box.
Event Level	Select the event level from the drop-down list provided. Options to choose from are <b>all</b> , <b>critic</b> , <b>error</b> , <b>warning</b> , and <b>notice</b> .
Node IP	Enter the node's IP address here.
Keyword	To display only entries that contain a certain keyword, enter that keyword in this text box.

Click the Q button to display only the entries based on the criteria entered.

Click the 🕘 button to display all private events that have taken place.

Click the event and notice.

Click the button to export the contents displayed in this table to the computer accessing this interface. This export supports the following file formats; **TXT**, **PDF** and **Excel**.

Click the big button to remove all entries from the event table.

Click the small 📠 button next to a specific entry to remove only that entry from the event table.

		_				<b>O</b> 2015-01-06 17:	47 🙎 Sign Out/admin
Central		$\bigtriangleup$	<b>\$</b>			হি	î
L WifiMa	nager	Home	Configuration	Systen	n I	Monitor	About
Report	Monitor>Event						
Association Security Channel	Date: 2015-01-06	-2015-01-06 Even	t level: All 🔹 No	ode IP:	Keyword:	Q (0)	
Rogue AP Syslog Monitor	NO. Event	name Event type	Level	Date time	Source	Description	Delete
Monitor manager Monitor list Event							
Type Standard							
Private							
Condition Condition Manager							
Condition List WiFi-Link-Down							
111							

Copyright©2014 D-Link Corporation.

## CWM Configuration Monitor Event Condition Condition List

To create or configure standard SNMP event and notice settings, refer to "**Standard**" on page 101.

To create or configure private SNMP event and notice settings, refer to "**Private**" on page 104.



### CWM Configuration

About

After clicking on About in the top panel, the following page will be displayed. On this page we can view the version number and copyright notice of the Central WifiManager Server application.



Front desk user accounts can be created to allow guests to use the wireless network for a limited amount of time. Normally, restricted wireless access is given to front desk wireless users. In this section we'll discuss how to create and use a front desk staff account and how generate guest pass codes.

To setup a **front desk staff** account, we need to enter the Central WifiManager Server application with an administrative account. Navigate to **System**, in the top menu, and **User Manager**, in the left menu.

Click the 🕒 button, to create a new user account.



After clicking the button, the following page will be available. The following parameters can be configured:

Parameter	Description
Username	Enter the front desk staff account's username here.
Password	Enter the front desk staff account's password here.
Privilege	Select the Front Desk Staff option here.
E-mail	Enter the front desk staff person's email address here.
Description	Enter additional information about this account here.

Click the **OK** button to create the new account. Click the **Reset** button to clear out the information entered in the fields.

					<b>⊖</b> 2015-01-0	6 17:54 👱 Sign Out/admin
Central			<b>\$</b>	**	হি	î
UifiM	anager	Home	Configuration	System	Monitor	About
Settings	System>User man	ager	12			
User manager						
	Username :	*		Maximum length: 64 ch	aracters	
	Password :	*				
	Privilege :	Root admin		•		
	E-mail :					
	Description :				*	
					-	
		Maximum leng	th: 50 characters			
	L				ОК	Reset Cancel

After successfully adding the front desk staff account, it will be displayed in the user manager table.



In the next step we need configure our guest wireless network to use pass codes for user authentication. Navigate to **Configuration**, in the top menu, and select your network, in the left menu. In our example, the guest network is located within the **Server-Room** network, at the **Headquarters** site.

In this example, the guest network's SSID is called **SR-Guest**. To enable pass code user authentication for this SSID, click the solution in the **SR-Guest** entry to modify the SSID.

Contraction and party						2014-07-14 1	0:13 🙎 Sigi	n Out/admii
D Central WiFiMa	nager		•		\$	<u></u>	ĺ	
Site	Configuratio	Home	Cont Server-Room>SS	iguration	System	Monitor	Abou	t
Headquarters								0
Room	Index	SSID	Band	Security	Access Control	User Authentication	Modify	Delete
SSID	Primary	SR-WiFi	2.4GHz	WPA-Personal		Remote Radius	B	Ē
VLAN Bandwidth Optimization	SSID1	SR-Guest	2.4GHz	2.4GHz Open System		Disable	Ð	ā
Captive portal								
<b>RF</b> Optimization								
Device setting								
Uploading Configuration								
Firmware Upgrade								
Undefined AP								

After clicking the solution, the following page will be available. Here we can modify the parameters of the SSID called **SR-Guest**.

In the **User Authentication** section, select **Passcode** as the **Authentication Type** and click the **Save** button to accept the changes made.

After successfully modifying the SSID to use pass codes for user authentication, the **User Authentication** entry column should display **Passcode** for the **SR-Guest** entry.

						<b>(</b> 2014-07-14 1	10:22 🙎 Sig	n Out/admir
D Central WiFiMa	nager	Home	Conf	iguration	System	Monitor	<b>i</b> Abou	, t
Site	Configuration	n>Site>Headquarters	>Server-Room>SS	ID				
Headquarters								6
E Server- e				82010 V D 42				
Room	Index				Access Control	User Authentication	Modify	Delete
SSID	Primary	SR-WiFi	2.4GHz	WPA-Personal		Remote Radius	E/	Ē
VLAN	SSID1	SR-Guest	2.4GHz	Open System		Passcode	E/	Ô
Bandwidth Optimization								
Captive portal								
<b>RF</b> Optimization								
Device setting								
Uploading Configuration								
Firmware Upgrade								
Undefined AP								



Access points in the network, will not know about these new changes until the configuration of the relevant access points have been updated. To manually update the configuration of the relevant access points, navigate to **Configuration**, in the top menu, and your network link in the left menu. The network in this example is **Server-Room**.

Select the **Upload Configuration** option in the left menu. In the **Schedule Settings** section, select the **Run** option and click the **Complete** button.

The configuration will now be uploaded to the relevant access points as displayed in the **Run Status** section.





After the configuration file was uploaded to the access points, the **Status** option in the **Run Status** section should show **Complete**.

Next we need to add the new front desk staff user account to the site's network member list. Navigate to the Configuration, in the top menu, and select the relevant site in the left menu. In this example our site's name is **Headquarters**.

All networks will be displayed in the **Network List** table. In this example, our network is called **Server-Room**. Click the **Server-Room**. Click the **Server-Room**.



#### Central ₿.≶ <u></u> • 0 WifiManager Home Configuration System Monitor About Configuration>Site>Headquarters Site Headquarters C E Server-Room Network List -Modify Delete Export Creator Network Nam Admin Memb 2014-07-01 12:23:01 目前 E/ Server-Room admin admin

After clicking the staff button, the following page will be available. The front desk staff user account will now be available and can be add to this network by selecting it and clicking on the >> button to move the account over to the **Selected** column.

Click the OK button to accept the changes made.



OK

Click the **OK** button to accept the changes made.

After this, upload the configuration files to the access points in the network again. Refer to the steps discussed earlier on how to do this.

Now we can log out of the administrative account, and log back in with our front desk staff account.

Enter the front desk staff account's username and password in the spaces provided and click the **Login** button to enter the front desk staff account.

D-Link Building Networks for People	
Central WifiManager	Laguage : English 💌
Username :	
Password :	
CAPTCHA : gyg3 🔊 Login	

After successfully logged in, using the front desk staff account, the following page will be available. On this page we can generate a pass code for front desk users.

The following parameters can be configured:

Parameter	Description
SSID	The network SSID will be displayed that front desk user can use to temporarily access the wireless network using the pass code that will be generated here.
Security Key	A pass code can be manually entered here. Leave this field blank to allow the system to generate a random pass code. Select the <b>Display Security Key</b> option to display the letter typed into this field.
Pass Code Quantity	Enter the amount of pass codes that will be generated here. Normally we'll only generate one pass code.
Duration	Enter the duration for this wireless connection here. This value must be in hours.
Last Active Day	Select the last active date that this code can be used here.
Device Limit	Enter the device limit value here. This is the maximum amount of active users that can use this pass code.



Click the **Generate** button to generate the new pass code.

After clicking on the **View/Edit/Delete** option in the left menu, we can view the list of pass codes that was generated. Also the **Duration Remaining** and **Status** fields are displayed here, that are useful for front desk staff to monitor active and passive connections.

Click the  $\blacksquare$  icon to modify an existing entry. Click the  $\blacksquare$  icon to delete an existing entry.

Pass codes can now be given to front desk users by front desk staff.

To generate new codes, front desk staff simply login to the Central WifiManager Server application, using the front desk staff user account details, enter the relevant ticket (pass code) information and click on the **Generate** button to get a code and give the code to the front desk user. Based on the **Duration** time specified, the ticket will expire and the entry can be removed.

Central								G	2015-01-0	6 18:07 🙎	Sign Out/fror	tde
D-Link_HQ	Frontd	esk>D-Link_	HQ>PP>View									
<ul> <li>PP</li> <li>Generate passcode</li> <li>View/edit/delete</li> </ul>	Pass	code list										ī
▪ PM ▪ Test		Passcode	SSID	Duration	User limit	Last active day	Duration remaining	Creator	Status	Edit	Delete	
		54597967	GO to CWM24	10 hour(s)	5	15-01-30	not active	frontdesk	Θ	=	Ē	-
		68656522	GO to CWM24	10 hour(s)	5	15-01-30	not active	frontdesk	0	E!	Ē	
D-Link_EU		25176003	GO to CWM24	10 hour(s)	5	15-01-30	0	frontdesk		B/	<b>a</b>	
		01291468	GO to CWM24	10 hour(s)	5	15-01-30	not active	frontdesk	0	E/	Î	
		23160099	GO to CWM24	10 hour(s)	5	15-01-30	not active	frontdesk	0		Ē	
		61721043	GO to CWM24	10 hour(s)	5	15-01-30	0	frontdesk		E/	Ē	
		85314185	GO to CWM24	10 hour(s)	5	15-01-30	not active	frontdesk	•	D/	Ē	
		55182153	GO to CWM24	10 hour(s)	5	15-01-30	not active	frontdesk	0		Ē	
		54681108	GO to CWM24	10 hour(s)	5	15-01-30	not active	frontdesk	•	Ø	Ē	

Front desk users simply connect to the wireless network available and when trying to connect to the network or Internet, using their Web browser, users will be asked to enter the pass code.

After entering the correct code, supplied by front desk staff, front desk users can connect to the network or Internet for the duration of the ticket.

# D-Link Company Logo

There are three styling options provided for customizing the look and feel of the captive portal login page. Please follow instructions below for a successful customization of the login page.

Each styling option represents different UI style; customization for any option is done by editing its web page source files. Below is a quick overview for files that can be edited as they vary for each styling option:

- **Pages\_default:** Provides options to customize the text and images shown on the login page
- Pages\_license: Provides options to customize the text and images shown on the login page, including the ability to place your own logo image.
- **Pages\_headerpic:** Provides options to customize the text and images shown on the login page, including the ability to place your own logo image and a header image at the top of the page.

Image is customized by replacing the existing image files. Text is customized by editing the "text.js" file.

#### Obtaining the source files

You can obtain the source file by going to the "SSID" page under the "Configuration" menu.

In "Splash page customization", select the style from the drop-down menu and click on "Download Template" to download its source file.

You should see the downloaded source file with the same name as the one from the drop-down menu. The file will be compressed with the extension of ".tar" (eg. Pages\_ default.tar). Please use a file compression tool such as 7zip or winrar to decompress the file. The source files should then be located in an extracted folder.



#### Contents and illustrations of each styling source files

Pages\_default: bg.png, login\_box.png, login\_login.png, text.js

- Please make sure to use png image files and remain using the same file names for your customization.
- Please make sure UTF-8 encoding for texts entered in the text.js file.

Secure internet portal Login in for secure internet access	
Passcode	
Logging in indictaes you have read and accepted the license <u>Use Policy</u>	g
login_box.png	



- Please make sure to use png image files and remain using the same file names for your customization.
- Please make sure UTF-8 encoding for texts entered in the text.js file.



Pages\_headerpic: bg.png, bg\_top.png, bott.png, logo.png, text.js

- Please make sure to use png image files and remain using the same file names for your customization.
- Please make sure UTF-8 encoding for texts entered in the text.js file.



#### Editing texts in the text.js file

Open the text.js with text editor software. Locate the following parameters in the file and change their values to after the "=" to customize texts shown in the login page:

var username="Username"; var password="Password"; var login="Login"; var license\_notice="Logging in indicates you have read and accepted the license"; var license\_link="Use Policy";

#### Uploading the source file after customization

After you are done editing the extracted source files, you would need to compress the files back to a ".tar" file before uploading it back the CWM.

Below is an example to compress the files using 7zip:

1.Select all the extracted source files and right-click. From the drop-down menu, select "7-Zip" >> "Add to archive"

:ttings\jerry.ALPHA-D480D089B\Desktop\page_sample									
	Name 🔺		Size	Туре	Date Modified				
۲	🔊 bg.png		1 KB	PNG Image	2/15/2015 3:38 PM				
	🖉 index.html		6 KB	HTML Document	2/15/2015 3:38 PM				
*	📋 licesne.txt		1 KB	Text Document	2/15/2015 3:38 PM				
	🚺 login_box.png		4 KB	PNG Image	2/15/2015 3:38 PM				
	📘 💽 login_login.png		2 KB	DNG Image	2/15/2015 3:38 PM				
	pouter.css	Preview		ding Style Sh	2/15/2015 3:38 PM				
	success.html	Edit		Document	2/15/2015 3:38 PM				
	😹 text.js	Print		Script File	2/15/2015 3:38 PM				
		7-Zip		<ul> <li>Add to an</li> </ul>	chive				
		CRC SHA	<ul> <li>Compre</li> </ul>		and email				
		🧾 Edit with Notepad++		Add to "p	age_sample.7z"				
Open With		Open With		<ul> <li>Compress</li> </ul>	to "page_sample.7z" and email				
		RTortoiseSVN		Add to "p Compress	age_sample.zip" : to "page_sample.zip" and email				

2.In the dialog, select "tar" as the archive format from the drop-down menu shown below and click "OK" to finish. (\*Please make sure the compressed file does not exceed 448KB. Exceeding the size limit will result in a failed upload)

Add to Archive							
Archive: C:\Documents and Settings\Administrator\氯面\page page_sample.tar	e_sample\						
Archive format:     Las       Compression jevet:     72       Compression method:     20       Dictionary size:     V       Word size:     V       Sold Block size:     V	Update mode: Add and replace files ♥ Path mode: Relative pathnames ♥ C Options C Compress shared files D Delete files after compression F Encryption						
Number of CPU threads: // 4 Memory usage for Compressing: 1 MB Memory usage for Decompressing: 1 MB Split to yolumes, bytes:	Enter password:  Reenter password:  Show Password Encyption method:						
NTFS     Store symbolic links     Store hard links	OK Cancel Help						

3.In the CWM web management UI, go to "Configuration" >> "SSID". Under "Splash page customization", click "Upload login file". A dialog should be displayed to allow you to add a new style profile. Enter a desired name and click "Browse", this should open another dialog which allows you to locate the source file for upload.

4. After uploading the source file successfully, the new style should be available from the drop-down menu, which you can select and finish configuration for captive portal login page customization.



Splash page customization								
Choose style:	page_sample 😽	Preview	Upload login file	Delete the style DownLoad Template				
	Not assigned							
[ Enable white list	Style1							
	Style2							
MAC address:	Style3		Add					
	page_sample							
Upload white list fi	le:		Browse	Upload				