

## How to authenticate hosts by Captive portal on DWC

On DWC, the function of captive portal can use the radius server to authenticate host. DWC can auth the traffic between different VLAN.

The topology show as below, PC1 want to access the HTTP server on PC3(on the other vlan), and DWC will auth PC1 first, if it pass, and then, PC1 is able to surf the HTTP server on PC3.

Topology:

PC1-----(port1:vlan1)DWC(port4:vlan2)-----PC3

PC2-----(port2:vlan1)

PC1 info

[HTTP Client](#), IP address:192.168.10.55/24, Default Gateway:192.168.10.1/24

PC2 info

[Radius server](#), IP address:192.168.10.185/24, Default Gateway:192.168.10.1/24

PC3 info

[HTTP Server](#), IP address:192.168.20.100/24, Default Gateway:192.168.20.1/24

DWC info

VLAN1 IP address:192.168.10.1/24

Port1:VLAN1, Port2:VLAN1

VLAN2 IP address:192.168.20.1/24

Port4:VLAN2

[DWC Setup]

1. Configure the port1 and port2 as VLAN1 (PVID 1)  
Configure the port4 as VLAN2 (PVID 2)

DWC-1000 // SETUP ADVANCED TOOLS STATUS

Wizard  
WLAN Global Settings  
AP Management  
Option Port Settings  
Network Settings  
QoS  
GVRP  
VLAN Settings  
USB Settings

Operation succeeded

**PORT VLANS** LOGOUT

This page allows user to configure the port VLANs. A user can choose ports and can add them into a VLAN.

**Port VLANs**

	Port Name	Mode	PVID	VLAN Membership
<input type="checkbox"/>	Port 1	Access	1	1
<input type="checkbox"/>	Port 2	Access	1	1
<input type="checkbox"/>	Port 3	Access	1	1
<input type="checkbox"/>	Port 4	Access	2	2

Edit

2. Setup the Radius server on DWC

ADVANCED / Radius Settings /

Authentication Server IP Address:192.168.10.185

Secret:dlink (the secret should be same as the setting on the radius server)

DWC-1000 // SETUP ADVANCED TOOLS STATUS

Global  
Peer Controllers  
AP Profile  
SSIDs  
WIDS Security  
Captive Portal  
Client  
IPv6  
Routing  
Certificates  
Users  
IP/MAC Binding  
Radius Settings  
Switch Settings

Operation succeeded

**RADIUS SERVER** LOGOUT

This page configures the RADIUS servers to be used for authentication. A RADIUS server maintains a database of user accounts used in larger environments. If a RADIUS server is configured in the LAN, it can be used for authenticating users that want to connect to the wireless network provided by this device. If the first/primary RADIUS server is not accessible at any time, then the device will attempt to contact the secondary RADIUS server for user authentication.

Save Settings Don't Save Settings

**Radius Server Configuration**

**Authentication Server IP Address (Primary):** 192.168.10.185

**Authentication Port:** 1812

**Secret:** ●●●●●●

**Timeout:** 1 (Seconds)

**Retries:** 2

**Authentication Server IP Address (Secondary):** 192.168.1.3

**Authentication Port:** 1812

**Secret:** ●●●●●●●●●●

**Timeout:** 1 (Seconds)

**Retries:** 2

### 3. Configure the captive portal on DWC

Add a Captive portal policy for the traffic from vlan1(lan) to vlan2

Advanced / Captive Portal

**CAPTIVE PORTAL CONFIGURATION** LOGOUT

This page allows you to add a new captive Portal Policy or edit the configuration of an existing Policy. The details will then be displayed in the List of Captive Portal Policies table on the Captive Portal Setup page.

**Captive Portal Configuration**

**Policy Name:**

**From InterfaceName:**

**To InterfaceName:**

**Enable:**

Authentication Mode : Radius

Authentication Type : PAP

**Operation Successful**

**CAPTIVE PORTAL SETUP** LOGOUT

Captive Portal is a security mechanism to selectively provide authentication on certain interfaces. You can use this page to manage the Policies and Profiles of CaptivePortal.

**Captive Portal Policies**

<input type="checkbox"/>	Policy Name	Status	In Interface	Out Interface
<input checked="" type="checkbox"/>	vian1-to-vlan2	Enabled	LAN	VLAN-vlan2

**Authentication Type**

**Authentication Mode:**  Radius  Local

**Authentication Type:**

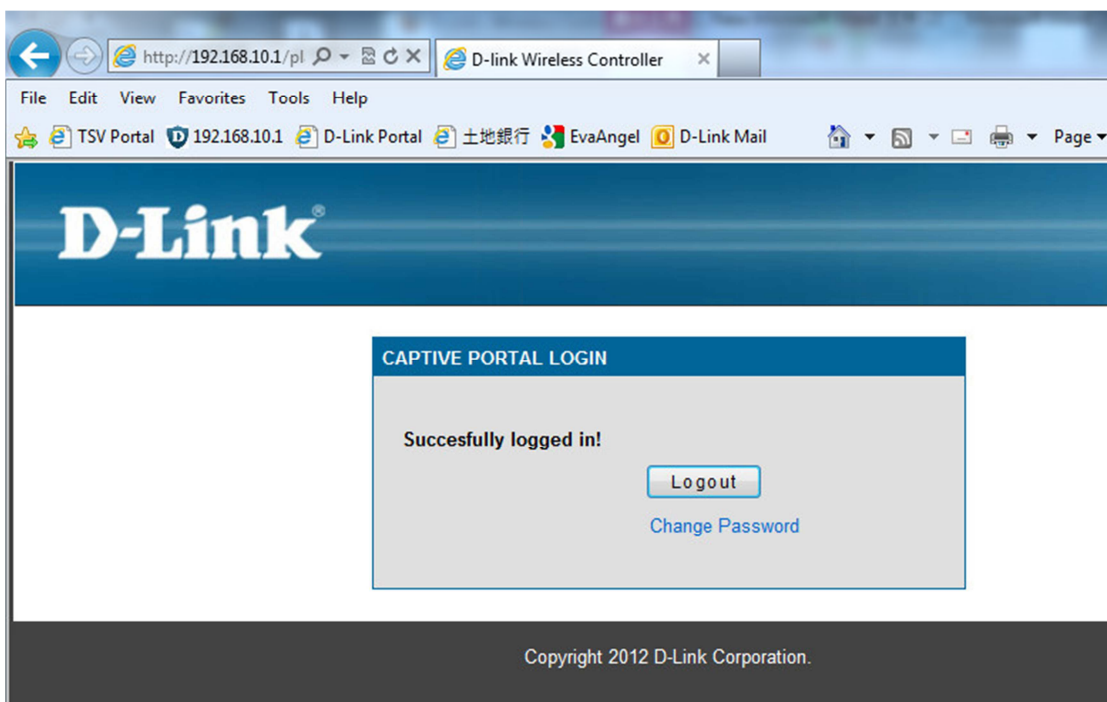
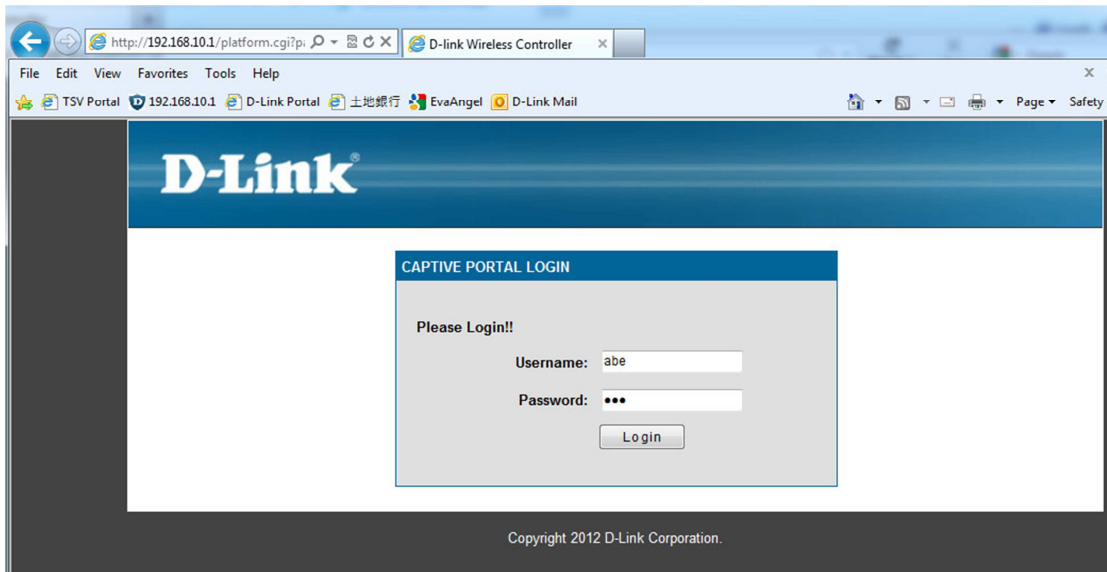
**List of Available Profiles**

<input type="radio"/>	Profile Name	Status	Action
<input checked="" type="radio"/>	default	In Use	<input type="button" value="Show Preview"/>
<input type="radio"/>	default2	Not In Use	<input type="button" value="Show Preview"/>

[PCs Setup]

1. PC1 works as a HTTP client
2. PC3 works as a HTTP server
3. PC2 works as a Radius Server, about setting of the Radius server, Please refer to the KM DK1200612

After finishing these configurations, let PC1 surf the web site on PC3. The browser on PC1 will pop-up the login page. After key-in the correct username and password, PC1 is able to surf the web site on PC3.



End of this document