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# Configuring 802.1X Supplicant Settings on the WAP131 and WAP371

# Objective

IEEE 802.1X authentication enables the WAP device to gain access to a secured wired network. You can enable the WAP device as an 802.1X supplicant (client) on the wired network. An encrypted user name and password can be configured to allow the WAP device to authenticate using 802.1X.

On the networks that use IEEE 802.1X port-based network access control, a supplicant cannot gain access to the network until the 802.1X authenticator grants access. If your network uses 802.1X, you must configure 802.1X authentication information on the WAP device, so that it can supply it to the authenticator.

The objective of this document is to show you how to configure 802.1X Supplicant settings on the WAP131 and WAP371.

# **Applicable Devices**

- WAP131
- WAP371

## **Software Version**

- v1.0.0.39 (WAP131)
- v1.2.0.2 (WAP371)

## **Configuring 802.1X Supplicant Settings**

Step 1. Log in to the web configuration utility and choose **System Security > 802.1X Supplicant**. The *802.1X Supplicant* page opens.

## 802.1X Supplicant

Supplicant Configuration	ı		
Administrative Mode:	Enable		
EAP Method:	MD5 🔻		
Username:		(Range: 1 - 64 Characters)	
Password:		(Range: 1 - 64 Characters)	
Certificate File Status	Refresh		
Certificate File Present:	No		
Certificate Expiration Date:	Not present		
Browse to the location where your certificate file is stored and click the "Upload" button. To upload from a TFTP server, click the TFTP radio button and enter the TFTP server information. Certificate File Upload			
Transfer Method:	<ul><li>HTTP</li><li>TFTP</li></ul>		
Filename:	Browse No file selected.		
Upload			
Save			

## Supplicant Configuration

Step 1. Navigate to the *Supplicant Configuration* area. In the *Administrative Mode* field, check the **Enable** checkbox to enable 802.1X supplicant functionality.

Supplicant Configuration		
Administrative Mode:	Enable	
EAP Method:	MD5 -	
Username:		(Range: 1 - 64 Characters)
Password:		(Range: 1 - 64 Characters)

Step 2. In the *EAP Method* drop-down list, choose the algorithm that will be used to encrypt usernames and passwords. EAP stands for Extensible Authentication Protocol, and is used as a basis for encryption algorithms.

Supplicant Configuration			
Administrative Mode:	Enable	2	
EAP Method:	MD5 🔻		
	MD5		
Username:	PEAP		(Range: 1 - 64 Characters)
	TLS		
Password:			(Range: 1 - 64 Characters)

The available options are:

- MD5 The MD5 message-digest algorithm utilizes a hash function to provide basic security. This algorithm is not recommended, as the other two have higher security.
- PEAP PEAP stands for Protected Extensible Authentication Protocol. It encapsulates EAP and provides higher security than MD5 by using a TLS tunnel to transmit data.
- TLS TLS stands for Transport Layer Security, and is an open standard that provides high security.

Step 3. In the *Username* field, enter in the username that the WAP device will use when responding to requests from an 802.1X authenticator. The username must be 1 – 64 characters long, and can include alphanumeric and special characters.

Supplicant Configuration		
Administrative Mode:	Enable	
EAP Method:	MD5	
Username:	username1	(Range: 1 - 64 Characters)
Password:		(Range: 1 - 64 Characters)

Step 4. In the *Password* field, enter in the password that the WAP device will use when responding to requests from an 802.1X authenticator. The username must be 1 -64 characters long, and can include alphanumeric and special characters.

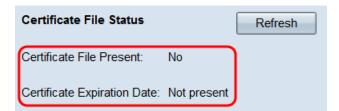
Supplicant Configuration		
Administrative Mode:	Enable	
EAP Method:	MD5 💌	
Username:	username1	(Range: 1 - 64 Characters)
Password:		(Range: 1 - 64 Characters)

Step 5. Click Save.

Supplicant Configuration	L		
Administrative Mode:	Enable		
EAP Method:	MD5 💌		
Username:	username1	(Range: 1 - 64 Characters)	
Password:	•••••	(Range: 1 - 64 Characters)	
Certificate File Status	Refresh		
Certificate File Present:	No		
Certificate Expiration Date:	Not present		
Browse to the location where your certificate file is stored and click the "Upload" button. To upload from a TFTP server, click the TFTP radio button and enter the TFTP server information.			
Certificate File Upload			
Transfer Method:	<ul><li>HTTP</li><li>TFTP</li></ul>		
Filename:	Browse No file selected.		
Upload			
Save			

#### **Certificate File Status**

Step 1. Navigate to the *Certificate File Status* area. This area shows whether an HTTP SSL certificate file exists on the WAP device. The *Certificate File Present* field will show "Yes" if a certificate is present; the default is "No". If a certificate is present, the *Certificate Expiration Date* will show when it expires; otherwise, the default is "Not present".



Step 2. To display the latest information, click the **Refresh** button to get the most current certificate information.

Certificate File Status		Refresh
Certificate File Present:	Yes	
Certificate Expiration Date:	Aug 22 16:41:51 2018 GMT	

### **Certificate File Upload**

Step 1. Navigate to the *Certificate File Upload* area to upload an HTTP SSL certificate to the WAP device. In the *Transfer Method* field, select either the **HTTP** or **TFTP** radio buttons to choose which protocol you want to use to upload the certificate.

Browse to the location where your certificate file is stored and click the "Upload" button. To upload from a TFTP server, click the TFTP radio button and enter the TFTP server information.		
Certificate File Upload		
Transfer Method:	<ul><li>● HTTP</li><li>● TFTP</li></ul>	
Filename:	Browse No file selected.	
Upload		

Step 2. If you selected **TFTP**, continue to Step 3. If you selected **HTTP**, click the **Browse...** button to find the certificate file on your PC. Skip to <u>Step 5</u>.

Browse to the location where your certificate file is stored and click the "Upload" button. To upload from a TFTP server, click the TFTP radio button and enter the TFTP server information.			
Certificate File Upload			
Transfer Method:	<ul><li>HTTP</li><li>TFTP</li></ul>		
Filename:	Browse No file selected.		
Upload			

Step 3. If you selected **TFTP** in the *Transfer Method* field, enter in the filename of the certificate in the *Filename* field.

Browse to the location where your certificate file is stored and click the "Upload" button.
To upload from a TFTP server, click the TFTP radio button and enter the TFTP server information

Certificate File Upload		
Transfer Method:	<ul><li>HTTP</li><li>TFTP</li></ul>	
Filename:	certificate.pem	(Range: 1 - 256 Characters)
TFTP Server IPv4 Address:		(XXX.XXX.XXX.XXX)
Upload		

Note: The file must end in .pem.

Step 4. Enter the IP address of the TFTP server in the *TFTP Server IPv4 Address* field.

Browse to the location where your certificate file is stored and click the "Upload" button. To upload from a TFTP server, click the TFTP radio button and enter the TFTP server information.			
Certificate File Upload			
Transfer Method:	<ul><li>HTTP</li><li>TFTP</li></ul>		
Filename:	certificate.pem	(Range: 1 - 256 Characters)	
TFTP Server IPv4 Address:	192.168.1.100	(xxx.xxx.xxx.xxx)	
Upload			

#### Step 5. Click Upload.

Browse to the location where your certificate file is stored and click the "Upload" button. To upload from a TFTP server, click the TFTP radio button and enter the TFTP server information.

Certificate File Upload		
Transfer Method:	<ul><li>HTTP</li><li>TFTP</li></ul>	
Filename:	certificate.pem	(Range: 1 - 256 Characters)
TFTP Server IPv4 Address:	192.168.1.100	(XXX.XXX.XXX.XXX)
Upload		

Step 6. A confirmation window appears. Click **OK** to begin the upload.

Confirm		
	Device is uploading the certificate file now.	
	OK Cancel	

Step 7. Click Save.