

# How to configure 802.1X authentication with a Windows XP or Vista supplicant



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#### 1. Introduction

This document describes how to configure an 802.1X supplicant for Windows XP SP2/SP3 or Vista. The switch used in this example is a ProCurve Switch 5400zl but most ProCurve switches can be configured in the same manner.

#### 2. Prerequisites

This procedure assumes you have an already configured PCM/IDM server and a ProCurve Switch 5400zl, both of them configured for 802.1X, and that the client PC is connected to a port authenticator.

## 3. Network diagram

Figure 1 details the configuration referenced in this section.



ProCurve Switch 5412zl

Figure 1. Setup for configuring 802.1X authentication on Windows XP or Vista

Using this topology, you will configure the client, running either Windows Vista or XP SP2, to use 802.1X authentication.

### 4. Configuring a Windows XP supplicant

This section explains how to configure 802.1X authentication on a PC running Windows XP.

#### 4.1 Configure authentication on the supplicant machine

- 1. On the PC, in Control Panel | Network Connections, right-click on the Local Area Connection and choose Properties.
- 2. In Local Area Connection Properties, go to the Authentication tab.

3. In the Authentication tab, check Enable IEEE 802.1x authentication for this network, and for EAP type choose Protected EAP (PEAP):

🕹 Local Area Connection Properties 🛛 🔹 🕄
General Authentication Advanced
Select this option to provide authenticated network access for Ethemet networks.
Enable IEEE 802.1x authentication for this network
EAP type: Protected EAP (PEAP)
Properties
Authenticate as <u>c</u> omputer when computer information is available
Authenticate as guest when user or computer information is unavailable
OK Cancel

- 4. Click on Properties to configure PEAP settings.
- 5. In the Protected EAP Properties window, de-select Validate server certificate; and under Select Authentication Method, choose Secure password (EAP-MSCHAP v2). Then click on Configure.



6. In the EAP MSCHAPv2 Properties window, de-select Automatically use my Windows logon name and password (and domain if any).



- 7. Click on OK in all the windows.
- 8. Connect the PC to a port where 802.1X has been enabled. After a few seconds, a dialog box appears asking you for credentials.

#### 4.2 Specifics for Windows XP SP3

Before being able to configure authentication on Windows XP service pack 3, ensure the Wired Autoconfig service is started. This will enable access to the Authentication tab of the network connection.

In the Authentication settings window, you can also check the box to Enable quarantine checks, which will ensure that these checks will be done before attempting to log onto the domain.

#### 5. Configuring a Windows Vista supplicant

To configure a 802.1X authentication on a PC running Windows Vista:

- 1. Select the LAN Connection from the Control Panel and open it.
- 2. If the authentication tab does not appear, open the Services window and start the Wired AutoConfig service:

Services (Local)	Services (Local)					
	Wired AutoConfig	Name	Description	Status	Startup Type	Log On As
		Q Windows Driver F	Manages us		Manual	Local Syste
	Stop the service	Windows Error Re	Allows error	Started	Automatic	Local Syste
	Exitant the service	Q Windows Event C	This service		Manual	Network S
		Q Windows Event Log	This service	Started	Automatic	Local Service
	Description:	Q Windows Firewall	Windows Fi	Started	Automatic	Local Service
	This service performs IEEE 802.1X	Q Windows Image A_	Provides im		Manual	Local Service
	authentication on othernet interfaces	Q Windows Installer	Adds, modi		Manual	Local Syste
		Q Windows Manage	Provides a c	Started	Automatic	Local Syste
		Q Windows Media P	Shares Win		Manual	Network S
		Q Windows Module	Enables inst	Started	Manual	Local Syste
		Windows Presenta	Optimizes p		Manual	Local Service
		Q Windows Remote	Windows R_		Manual	Network S
		Q Windows Search	Provides co	Started	Automatic	Local Syste
		Q Windows Time	Maintains d	Started	Automatic	Local Service
		Q Windows Update	Enables the	Started	Automatic (D	Local Syste
		Q WinHTTP Web Pr	WinHTTP	Started	Manual	Local Service
		Q Wired AutoConfig	This service	Started	Manual	Local Syste
		Q WLAN AutoConfig	This service		Manual	Local Syste
		Q WMI Performance	Provides pe_		Manual	Local Syste
		() Mindutation	Constan and	Sector	Automatic	Same Candes

3. Open the Authentication tab, check Enable IEEE 802.1X authentication for this network and choose EAP type Protected EAP (PEAP):

Networking	Authentication		
Select th	nis option to provide	authenticated	I network access for
Enab	met adapter.	ventication	
1. 0100	10 3666 006. IN UN		
Choose	a network authentic	ation method:	
Protecte	ed EAP (PEAP)		Settings
to th	is network	or subsequent	t connections
to th	is network	or subsequent	connections
r to th	is network	or subsequent	connections
to th	is network	or subsequent	connections

4. In the Protected PEAP Properties window de-select Validate server certificate and select EAP-MSCHAPv2 as the authentication method:

Protected EAP Properties	23
When connecting:	
Valdate server certificate	
Connect to these servers:	
Hasted Koot Gerbrickon Authorities:	
GTE CyberTrust Gobal Root	
Microsoft Root Authority	
Microsoft Root Certificate Authority	
Thawte Timestamping CA	
F Do not except over to a flooring new servers or to start.	
certification authorities.	
Select Authentication Method:	
Secured password (EAP MSCHAP v2) Con	fgure
Finable Fast Demonstr	
Enable Quarantine checks	
Disconnect if server does not present cryptobinding TLV	
OK	Cancel

5. In the EAP MSCHAPv2 Properties window, de-select Automatically use my Windows logon name and password (and domain if any):



6. Then connect the Vista PC to a port authenticator. When prompted, enter your username and password. (Domain information is not necessary.)

User name:	
Password:	
Logon domain:	
Save this user name and passw	ord for future use

#### 7. Reference documents

This concludes the procedure for configuring 802.1X authentication.

For further information about how to configure ProCurve switches to support security, please refer to the following links:

- For user manuals for ProCurve 3500yl-5400zl-8212zl switches: http://www.hp.com/rnd/support/manuals/3500-6200-5400-ChapterFiles.htm
- For ProCurve Switch 2610 series manuals: <u>http://www.hp.com/rnd/support/manuals/2610.htm</u>
- For PCM+ and IDM manuals: <u>http://www.hp.com/rnd/support/manuals/ProCurve-Manager.htm</u> <u>http://www.hp.com/rnd/support/manuals/IDM.htm</u>

For further information, please visit www.procurve.eu



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