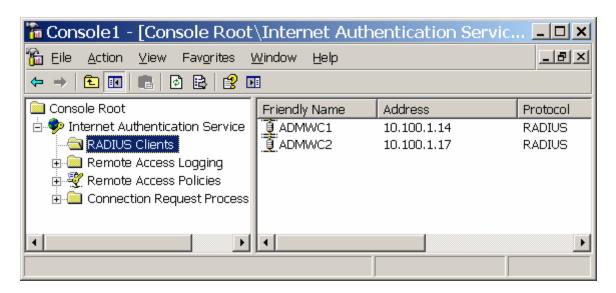
Windows IAS setting for Cisco WLC, Windows XP, Vista, 802.1x using PEAP

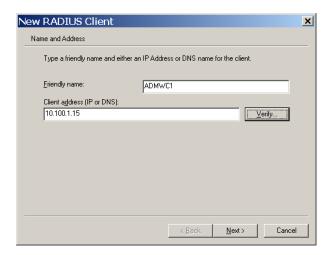
Adding a Radius Client

Right click on Radius Clients

New Radius Client

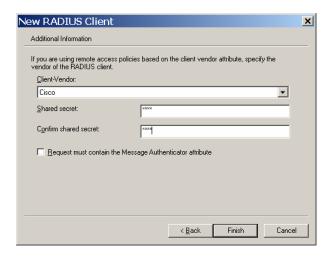


Type in a Friendly Name for WLC Type in the IP address of WLC Click Next



Client-Vendor: select CiscoType in Shared Secret

Click Finish



➤ Follow steps for additional Wireless Controllers

Adding a Remote Access Policy

Click on Remote Access Policies

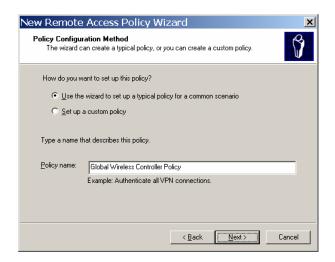
- Right Click on Remote Access Policies
 - Click on New Remote Access Policy



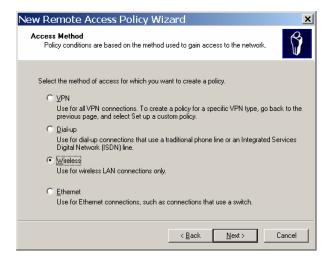
Click Next



Select: Use the wizard to set up a typical policy for a common scenario In the Policy name type: Global Wireless Controller Policy



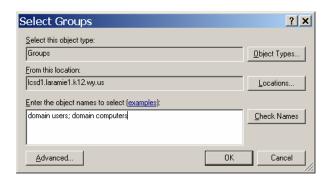
Select Wireless Next



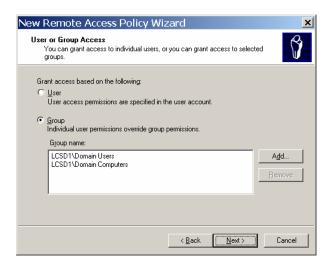
Select Group Click Add



Add Domain Users; domain computers Click OK



Next



Select Protected EAP (PEAP) Click Configure...

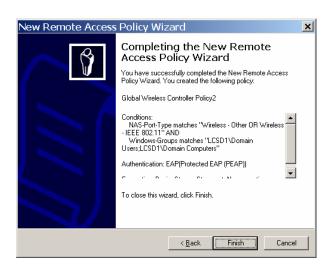


Make sure certificate issued to IAS server is selected.

- Uncheck Enable Fast Reconnect.
- Click OK
- Click Next



Review Settings Click Finish



• NOTE: Some of these steps have already completed by using the Wizard. Skip steps if already completed

Be sure the Global Wireless Controller Policy is on top of list order.

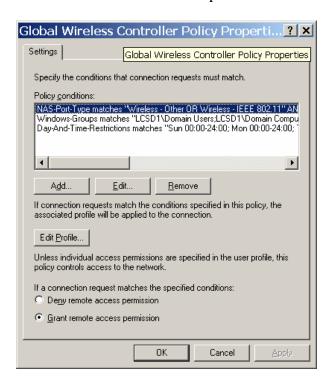
• If not at the top of the list, click on the Global Wireless Controller Policy and use the arrows on the task bar to move the policy up.

Right Click on Global Wireless Controller Policy

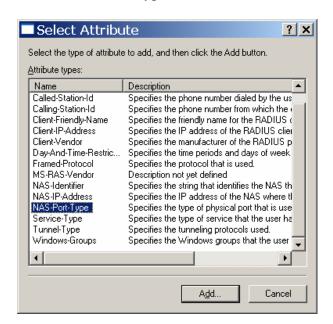
• Properties



Be sure "Grant remote access permissions" is selected.

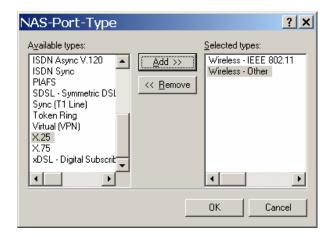


Click Add, Select Attribute NAS-Port-Type

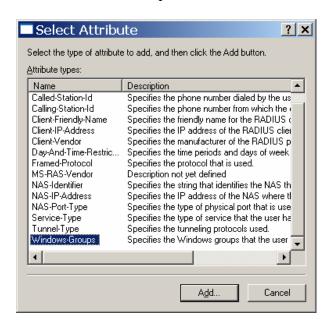


Add: Wireless – IEEE 802.1 Add: Wireless – Other

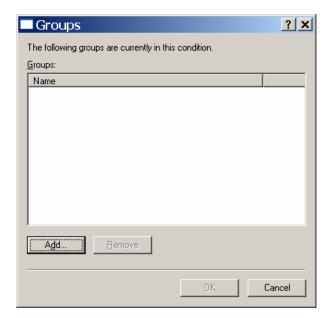
Click OK



Click Add, Select Windows-Groups



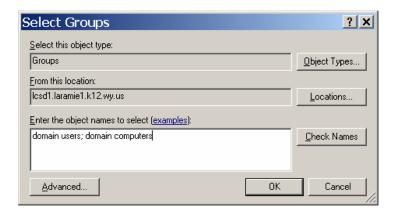
Click Add



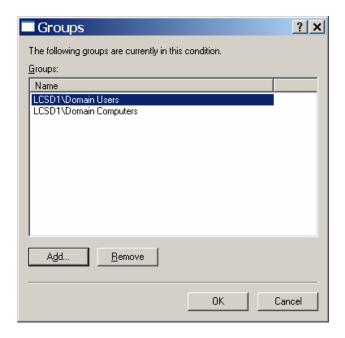
Click Add,

Add: domain users; domain computers

- > If users and computer in a sub domain need to be authenticated
 - Select Location
 - Browse to domain
 - Add domain users and domain computers for that domain

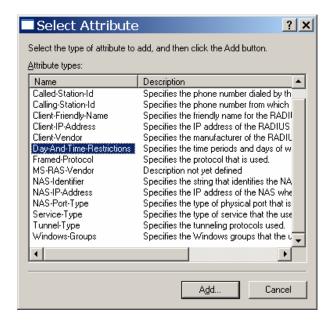


Click OK



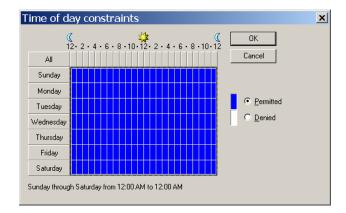
Click OK

Click Add Select Day-And-Time-Restrictions

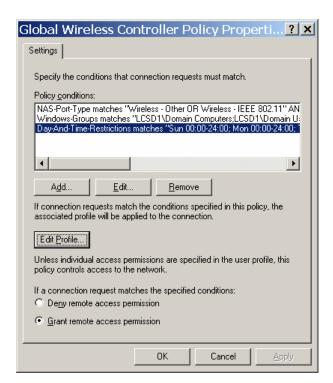


Click Add

Click on ALL Click Permitted Click OK

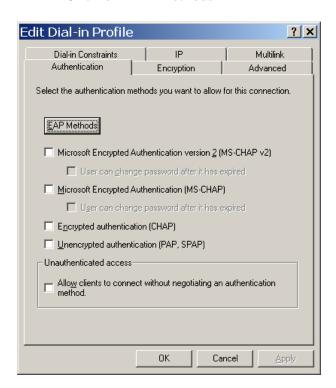


Click Edit Profile...

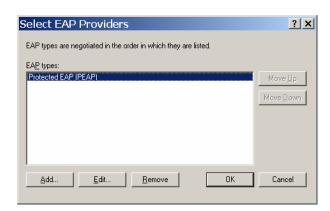


Click on the Authentication Tab

- Uncheck all
- Click on EAP Methods



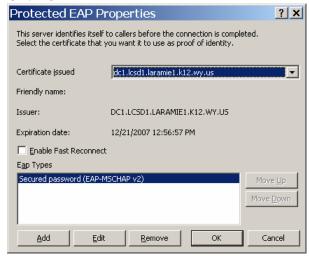
Select PEAP Click Edit



Certificate issued: Server name (dc1.lcsd1.laramie1.k12.wy.us) has been selected

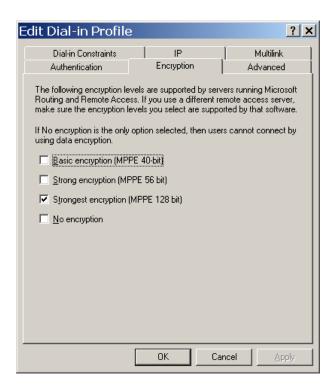
Uncheck Enable Fast Reconnect

Click OK

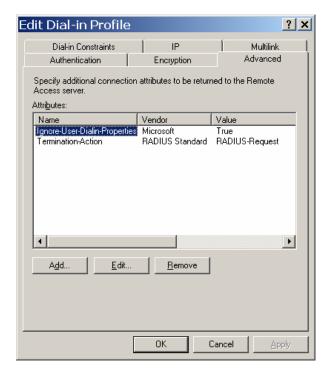


Click the Encryption Tab

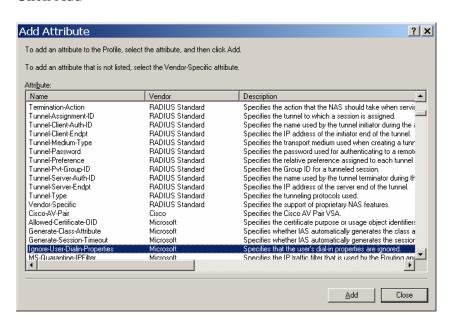
Uncheck all except "Strongest encryption (MPPE 128 bit)" Click the Advanced Tab



Remove all attributes by selecting the attribute and click remove



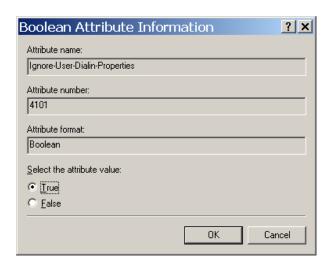
Click Add



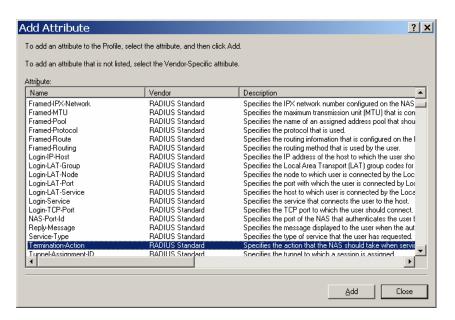
Select Ignore-User-Dialin-Properties Click Add

Set attribute value: True

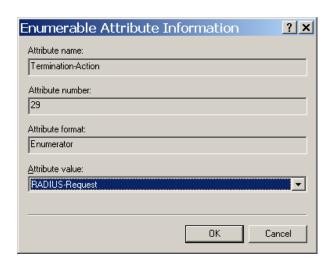
Click OK



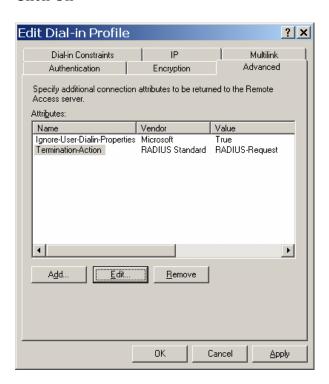
Click Add to add another Attribute



Select Termination-Action Click Add



Set Attribute value: RADIUS-Request Click Ok



Click on the Dial-in Constraints
Check "Minutes clients can been connected (Session-Timeout)

• Set to 60

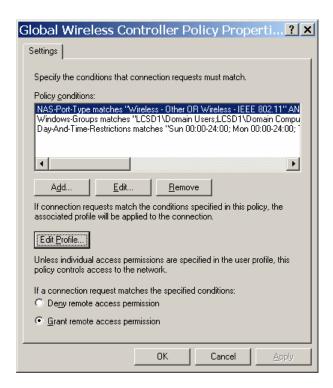
Click OK



Important: Using a session timeout of 10 minutes may be too short for many scenarios. Short timeouts place a high load on the IAS servers. Short timeouts also increase the possibility of making your IAS server temporarily unavailable, which will result in disconnecting clients from the WLAN. For these reasons, you can use a longer timeout of 60 minutes without significantly compromising the WLAN security.

http://www.microsoft.com/technet/security/prodtech/windowsserver2003/pkiwire/PGCH 06.mspx?mfr=true

Click OK



References:

Designing the Wireless LAN Security Using 802.1X

http://www.microsoft.com/technet/security/prodtech/windowsserver2003/pkiwire/PGCH06.mspx?mfr=true

IAS Operations Guide

http://www.microsoft.com/downloads/details.aspx?familyid=27C432BF-5ED0-4763-8909-36E7C310AE3C&displaylang=en

Step-by-Step Guide for Securing Wireless Deployments for Small Office/Home Office or Small Organization Networks

 $\frac{http://www.microsoft.com/downloads/details.aspx?FamilyID=269902E8-FC41-4EB1-9374-4612E64F0FB\&displaylang=en}{2}$

IEEE 802.11 Wireless LAN Security with Microsoft Windows

 $\frac{http://www.microsoft.com/downloads/details.aspx?familyid=67FDEB48-74EC-4EE8-A650-334BB8EC38A9\&displaylang=en}{2}$

Internet Authentication Service

http://technet.microsoft.com/en-us/network/bb643123.aspx

Wireless Networking

http://technet.microsoft.com/en-us/network/bb530679.aspx