

# Re: Need help configuring Wireless Connection profile

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<http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.general/2006-10/msg03659.html>

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- *From:* Ryan <[Ryan@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:Ryan@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Tue, 10 Oct 2006 11:44:01 -0700
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Thanks for the response,

I probably should have made my configuration look a bit more obvious, but yes, I know of the WPA2 patch for XP and it is already applied. My configuration notes this.

Any other ideas?

"Newtechie" wrote:

Well there is an update on the microsoft site for WPA2 encryption but I can't remember if it also covers SBS 2003. Just go there and do a search for 'WPA2'. I think by default WinXP only uses WEP and you have to download updates for WPA and WPA2.

"Ryan" <[Ryan@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:Ryan@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)> wrote in message [news:AA8A95A0-B627-473C-8F3F-A328B9E10761@xxxxxxxxxxxxxxxxxxxx](mailto:news:AA8A95A0-B627-473C-8F3F-A328B9E10761@xxxxxxxxxxxxxxxxxxxx)

I have an SBS 2003 server and a Server 2003 member server set up using RADIUS authentication and WPA2 encryption. From my laptop, I can connect using the Intel PROSet Wireless Utility, but not the Windows Wireless Utility. Btw, my laptop is not joined to the domain so it's only using a user based certificate.

I have two questions:

- 1 What do I need to do to get the Windows Utility to connect?
- 2 If I get randomly disconnected, and quite often using the Intel software would I be right in suspecting the cause may be my access point not fully supporting the WPA2 + RADIUS configuration? My servers aren't logging

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anything regarding the disconnects.

I have included my complete Wireless Setup so hopefully this will help pinpoint the issue.

My IAS log looks like this:

```
192.168.16.177,LRG\ryanv,10/10/2006,13:18:29,IAS,PIRANHA,4128,D-Link
DI-524,4,192.168.16.177,5,0,30,00-11-95-75-ac-02,31,00-12-f0-4b-ff-22,32,DI-524,12,1380,6
Windows authentication for all users,4129,LRG\ryanv,4149,Wireless WPA2
PEAP
Policy,25,311 1 192.168.17.111 10/10/2006 15:16:36 308,4132,Secured
password
(EAP-MSCHAP
v2),4127,11,4130,LRG.local/MyBusiness/Users/SBSUsers/Ryan
Vaillancourt,4136,1,4142,0
192.168.16.177,LRG\ryanv,10/10/2006,13:18:29,IAS,PIRANHA,4128,D-Link
DI-524,25,311 1 192.168.17.111 10/10/2006 15:16:36 308,4132,Secured
password
(EAP-MSCHAP
v2),4127,11,8100,1,4108,192.168.16.177,4116,0,4130,LRG.local/MyBusiness/Users/SBSUsers/Ryan
Vaillancourt,4155,1,4154,Use Windows authentication for all
users,4129,LRG\ryanv,4149,Wireless WPA2 PEAP
Policy,6,2,4294967207,2,4294967206,4,4136,2,4142,0
192.168.16.177,LRG\ryanv,10/10/2006,13:18:55,IAS,PIRANHA,4128,D-Link
DI-524,4,192.168.16.177,5,0,30,00-11-95-75-ac-02,31,00-12-f0-4b-ff-22,32,DI-524,12,1380,6
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Policy,6,2,4294967207,2,4294967206,4,4136,2,4142,0
192.168.16.177,LRG\ryanv,10/10/2006,13:20:30,IAS,PIRANHA,4128,D-Link
DI-524,4,192.168.16.177,5,0,30,00-11-95-75-ac-02,31,00-12-f0-4b-ff-22,32,DI-524,12,1380,6
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Policy,25,311 1 192.168.17.111 10/10/2006 15:16:36 316,4132,Secured
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v2),4127,11,4130,LRG.local/MyBusiness/Users/SBSUsers/Ryan
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Policy,6,2,4294967207,2,4294967206,4,4136,2,4142,0  
192.168.16.177,LRG\ryanv,10/10/2006,13:20:45,IAS,PIRANHA,4128,D-Link  
DI-524,4,192.168.16.177,5,0,30,00-11-95-75-ac-02,31,00-12-f0-4b-ff-22,32,DI-524,12,1380,6  
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192.168.16.177,LRG\ryanv,10/10/2006,13:20:45,IAS,PIRANHA,4128,D-Link  
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v2),4127,11,8100,0,4108,192.168.16.177,4116,0,4155,1,4154,Use  
Windows authentication for all users,4129,LRG\ryanv,4149,Wireless WPA2  
PEAP  
Policy,6,2,4294967207,2,4294967206,4,4130,LRG.local/MyBusiness/Users/SBSUsers/Ryan  
Vaillancourt,4120,0x014C52,4136,2,4142,0  
192.168.16.177,LRG\ryanv,10/10/2006,13:21:50,IAS,PIRANHA,4128,D-Link  
DI-524,4,192.168.16.177,5,0,30,00-11-95-75-ac-02,31,00-12-f0-4b-ff-22,32,DI-524,12,1380,6  
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Vaillancourt,4136,1,4142,0  
192.168.16.177,LRG\ryanv,10/10/2006,13:21:50,IAS,PIRANHA,4128,D-Link  
DI-524,25,311 1 192.168.17.111 10/10/2006 15:16:36 331,4132,Secured  
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v2),4127,11,8100,1,4108,192.168.16.177,4116,0,4130,LRG.local/MyBusiness/Users/SBSUsers/Ryan  
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users,4129,LRG\ryanv,4149,Wireless WPA2 PEAP  
Policy,6,2,4294967207,2,4294967206,4,4136,2,4142,0

My setup is as follows:

**SMALL BUSINESS SERVER:**

**STEP #1 Install Certificate Services**

On the SBS server, use the Windows add/remove components tool to install  
Certificate Services

On the CA Type page, select Enterprise Root CA and then click next

On the CA Identifying Information page, type Lloyd Research Group  
Enterprise Root CA

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Accept the default storage location for the Root CA

### STEP #2 Install Domain Controller Certificate

On the SBS server, go to Start > Run, then type mmc

In the management console, go to File > Add/Remove Snap-in

Add Certificates and select Computer Account

In the Certificates console, expand Local Computer, then right-click

Personal and select Request New Certificate

On the Certificate Types page, select Domain Controller and click next

On the Certificate Friendly Name and Description Page, type the name of the

server and finish installing the certificate

### STEP #3 Create Temporary ISA Access Rule

In the ISA Management Console, right-click SBS Protected Networks Access

Rule and select Configure RPC Protocol

Uncheck Enforce strict RPC compliance and then click OK

Right-click Firewall Policy and select New Access Rule (ISA blocks certificate requests to a temporary rule is needed to let the traffic through)

Configure a new rule as follows:

Name: Temporary Allow All Traffic Rule (for troubleshooting)

Action: Allow

Protocols: All Outbound Traffic

From: All Networks (and Local Host)

To: All Networks (and Local Host)

Users: All Users

Schedule: Always

Content Types: All Content Types

Now apply the changes so the rule is enabled

## RADIUS SERVER

### STEP #1 Install Certificates to the RADIUS Server

IAS must be installed on a separate server if VPN access is needed on the SBS server. Otherwise, RADIUS requests will fail.

On the IAS/RADIUS server, go to Start > Run, then type mmc

In the management console, go to File > Add/Remove Snap-in

Add Certificates and select Computer Account.

Add the Certificates snap-in again but this time for My User Account

In the Certificates console, expand Local Computer, then right-click

Personal and select Request New Certificate

On the Certificate Friendly Name and Description Page, type the name of the

server and finish installing the certificate

Expand Current User, then right-click Personal and select Request New Certificate

On the Certificate Friendly Name and Description Page, type the name of the

user and finish installing the certificate

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### STEP #2

Go back to the SBS server and disable the Allow all traffic rule in the ISA Management Console

### STEP #3 Install and configure IAS

On the RADIUS server, use the Windows add/remove components tool to install IAS

### STEP #4 Configure RADIUS Client

Once IAS is installed open the Internet Authentication Service console from the Administrative Tools menu  
Right-click the Internet Authentication Service and select Register Server in Active Directory  
Follow the steps to register the RADIUS server  
Right-click RADIUS Clients and select New RADIUS Client  
Configure the Client as follows:  
Friendly Name: D-Link DI-524  
Address: 192.168.16.177  
Client-Vendor: RADIUS Standard  
Check Request must contain the Message Authenticator attribute  
Shared Secret: <Enter a complex password>

### STEP #5 Configure Wireless Policy

In the Internet Authentication Service console, right-click Remote Access Policies and select New Remote Access Policy  
Name the policy Wireless WPA2 PEAP Policy  
On the Access Method page, select Wireless  
Add Domain Admin, Domain Users, and Mobile Users to the Policy  
On the Authentication Methods page, select Protected EAP (PEAP) and click configure  
The certificate issues should be <servername>.LRG.local  
Check off Enable Fast Reconnect and finish creating the policy  
Double-Click on the new policy and click Edit Profile  
On the Authentication tab, click EAP Methods  
Click Add and select Smart Card or other certificate and move it to the top of the EAP types list. Then click OK. (This is created in for use with domain computers with both user and computer certificates)  
On the Encryption Tab, Only leave Strongest Encryption (MPPE 128 bit) checked  
Click OK twice to apply the policy

### ACCESS POINT

Setup the D-Link router as follows:  
SSID: Lloyd Research Group  
Channel: Auto Select  
Mode Setting: G Mode

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SSID Broadcast: Enabled  
Security: WPA2  
PSK/EAP: EAP  
RADIUS Server 1: <IP of IAS server>  
Port: 1812  
Shared Secret: <same secret as in IAS RADIUS Client configuration>

WIRELESS CLIENT

STEP #1 Install User Certificate  
Request user cert by navigating to <http://lrgi-marlin/certsrv> in Internet Explorer  
Click Request a certificate  
Click User Certificate  
Click Submit and install the User Certificate to the client computer

STEP #2 Configure Wireless Connection Profile  
Settings in Intel PROSet connection Profile:  
Mode: Enterprise Security  
Network Authentication: WPA2-Enterprise  
Data Encryption: AES-COMP  
Authentication Type: PEAP  
Authentication Protocol: MS-CHAP-V2  
Domain: lrg  
Roaming Identity: LRG\username  
Check Validate Server Credentials under PEAP Server section  
Certificate Issuer: Lloyd Research Group Enterprise Root CA

The Windows Wireless Utility Profile I am testing is configured as follows:  
Network Name: Lloyd Research Group  
Network Authentication: WPA2  
Data Encryption: AES  
EAP Type: Protected EAP (PEAP)  
Authenticate as computer when computer information is available is unchecked  
Authenticate as guest when user or computer information is unavailable is unchecked  
Validate Server Certificate is unchecked  
Authentication Method: Secured password (EAP-MSCHAP v2)  
Enable Fast Reconnect is checked  
Automatically use my Windows logon name and password is unchecked  
(Since my laptop isn't joined to the domain, I want to be prompted for a username and password)

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So... any ideas?