

Need help configuring Wireless Connection profile

Source:

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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 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-524,12,1380,61,19,4108,192.16
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-524,12,1380,61,19,4108,192.16
Windows authentication for all users,4129,LRG\ryanv,4149,Wireless WPA2 PEAP
Policy,25,311 1 192.168.17.111 10/10/2006 15:16:36 312,4132,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,10/10/2006,13:18:55,IAS,PIRANHA,4128,D-Link
```

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DI-524,25,311 1 192.168.17.111 10/10/2006 15:16:36 312,4132,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,10/10/2006,13:20:30,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-524,12,1380,61,19,4108,192.168.16.177,4116,0,4130,LRG.local/MyBusiness/Users/SBSUsers/Ryan Vaillancourt,4155,1,4154,Use Windows authentication for all users,4129,LRG\ryanv,4149,Wireless WPA2 PEAP Policy,25,311 1 192.168.17.111 10/10/2006 15:16:36 316,4132,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,10/10/2006,13:20:30,IAS,PIRANHA,4128,D-Link DI-524,25,311 1 192.168.17.111 10/10/2006 15:16:36 316,4132,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,10/10/2006,13:20:45,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-524,12,1380,61,19,4108,192.168.16.177,4116,0,4130,LRG.local/MyBusiness/Users/SBSUsers/Ryan Vaillancourt,4155,1,4154,Use Windows authentication for all users,4129,LRG\ryanv,4149,Wireless WPA2 PEAP Policy,25,311 1 192.168.17.111 10/10/2006 15:16:36 327,4132,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,10/10/2006,13:20:45,IAS,PIRANHA,4128,D-Link DI-524,25,311 1 192.168.17.111 10/10/2006 15:16:36 327,4132,Secured password (EAP-MSCHAP 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-524,12,1380,61,19,4108,192.168.16.177,4116,0,4130,LRG.local/MyBusiness/Users/SBSUsers/Ryan Vaillancourt,4155,1,4154,Use Windows authentication for all users,4129,LRG\ryanv,4149,Wireless WPA2 PEAP Policy,25,311 1 192.168.17.111 10/10/2006 15:16:36 331,4132,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,10/10/2006,13:21:50,IAS,PIRANHA,4128,D-Link DI-524,25,311 1 192.168.17.111 10/10/2006 15:16:36 331,4132,Secured 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

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

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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
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

STEP #2

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

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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

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>

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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)

So... any ideas?

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