

Re: Need help configuring Wireless Connection profile

Source:

<http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.general/2006-10/msg03693.html>

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 - *Date:* Tue, 10 Oct 2006 14:58:15 -0400
-

You may need to check your wireless access point/router. This needs to "point" the info of the Radius authentication to your current Radius server. I would also check to see if there is a firmware update to this wireless unit.

On 10/10/2006 Ryan <Ryan@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote:

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> wrote in message 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.

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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-524,12,1380,61,19,4108,192.168.16.177,4116,0,4155,1,4154,Use

Windows authentication for all users,4129,LRG\ryanv,4149,Wireless WPA2 PEAP Policy,25,311 1 192.168.17.111 10/10/2006 15:16:36 308,4132,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

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Policy,6,2,4294967207,2,4294967206,4,4136,2,4142,0
192.168.16.177,LRG\ryanv,10/10/2006,13:18:55,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,
12,1380,61,19,4108,192.168.16.177,4116,0,4155,1,4154,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
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
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/SB
SUsers/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,
12,1380,61,19,4108,192.168.16.177,4116,0,4155,1,4154,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
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(EAP-MSCHAP

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v2),4127,11,8100,1,4108,192.168.16.177,4116,0,4130,LRG.local/MyBusiness/Users/SB
SUsers/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,
12,1380,61,19,4108,192.168.16.177,4116,0,4155,1,4154,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/Ry
an

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,
12,1380,61,19,4108,192.168.16.177,4116,0,4155,1,4154,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

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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/SB
SUsers/Ryan

Vaillancourt,4155,1,4154,Use Windows authentication for
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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

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

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(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

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

Management Console

STEP #3 Install and configure IAS

On the RADIUS server, use the Windows add/remove

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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

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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>

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

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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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Y.

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