

Re: Need help configuring Wireless Connection profile

Source:

<http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.general/2006-10/msg03686.html>

- *From:* "Newtechie" <newtechie@xxxxxxxxxxx>
 - *Date:* Tue, 10 Oct 2006 13:52:20 -0500
-

Ok – let's see. I'm sure you know that you can't use both at the same time. Have you tried disabling the Intel utility? then, right clicking on the icon and select use Windows XP configuration. Also, the Wireless Zero Configuration service has to be running. Check your services and if it's not running, click on Start to enable it.

"Ryan" <Ryan@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:C521744A-1159-4246-8556-8BE8B9D48768@xxxxxxxxxxxxxxxxxxx

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@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:AA8A95A0-B627-473C-8F3F-A328B9E10761@xxxxxxxxxxxxxxxxxxx

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

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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
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/SBSUser
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
Windows authentication for all
```

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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/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
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
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

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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

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

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

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

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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

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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
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

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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>

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

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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?