

Re: Need help configuring Wireless Connection profile

Source:

<http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.general/2006-10/msg03699.html>

- *From:* Ryan <Ryan@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Tue, 10 Oct 2006 12:05:02 -0700
-

Thanks for the assistance

Here's a bit more clarification.... The wireless zero service is running, and I can only use the intel OR windows utility, not both at the same time. Anyway, I can connect to a another of our wireless networks using either client so that confirms the Windows Utility still works – just not for the WPA2 connection. The one it does work for is only using MAC filtering.

"Newtechie" wrote:

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@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:C521744A-1159-4246-8556-8BE8B9D48768@xxxxxxxxxxxxxxxxxxxxx

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

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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@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
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  
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
```

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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/
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
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users,4129,LRG\ryanv,4149,Wireless WPA2
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Vaillancourt,4155,1,4154,Use Windows
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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
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
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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
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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
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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/SBSUser
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
Windows authentication for all
users,4129,LRG\ryanv,4149,Wireless WPA2
PEAP
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15:16:36 331,4132,Secured
password
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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
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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 (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

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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

Management Console

STEP #3 Install and configure IAS

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

install

IAS

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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

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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

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

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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