

Re: Need help configuring Wireless Connection profile

Source:

<http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.general/2006-10/msg03742.html>

- *From:* Ryan <Ryan@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Tue, 10 Oct 2006 14:03:01 -0700
-

I think I fixed it. I'll have to give it some time to verify but I am now able to connect with the Windows Utility and I fixed the constant disconnects with the intel software.

I dug into the intel software and found a wireless event viewer that kept saying link down every so often. I sat and watched the connection for a bit and saw that the signal kept fluctuating. It would go from excellent, to poor, to out of reach in only a few seconds. Then it would disconnect. I figured I'd try changing the Dlink Wireless Channel from Auto to channel 10. Now life is good in the Windows wireless world. That was NOT as smooth as the Administrator's companion led me to believe.

Thanks you everyone and especially Microsoft Product Support Services. I now have a secure wireless setup within my small business server environment.

"Ryan" wrote:

"Yves Leclerc" wrote:

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.

The Access point is set up fine. It works with the intel utility, just not the built-in windows utility

I would also check to see if there is a firmware update to this wireless unit.

Both access points were updated with the latest firmware and my laptop is using the latest intel software and drivers with all the latest windows updates

Re: Need help configuring Wireless Connection profile

On 10/10/2006 Ryan <Ryan@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> 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@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

Re: Need help configuring Wireless Connection profile

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-Lir

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-Lir DI-524,25,311 1 192.168.17.111 10/10/2006 15:16:36 308,4132,Secured password (EAP-MSCHAP

Re: Need help configuring Wireless Connection profile

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,10/10/2006,13:18:55,IAS,PIRANHA,4128,D-Lir

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/SBUsers/Ryan
Vaillancourt,4136,1,4142,0
192.168.16.177,LRG\ryanv,10/10/2006,13:18:55,IAS,PIRANHA,4128,D-Lir
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-Lir

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

Re: Need help configuring Wireless Connection profile

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-Lir
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/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-Lir

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-Lir
DI-524,25,311 1
192.168.17.111 10/10/2006
15:16:36 327,4132,Secured

Re: Need help configuring Wireless Connection profile

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-Lin

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
Vaillancourt,4136,1,4142,0
192.168.16.177,LRG\ryanv,10/10/2006,13:21:50,IAS,PIRANHA,4128,D-Lin
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:

Re: Need help configuring Wireless Connection profile

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

Re: Need help configuring Wireless Connection profile

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

Re: Need help configuring Wireless Connection profile

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

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

Re: Need help configuring Wireless Connection profile

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)

Re: Need help configuring Wireless Connection profile

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:

Re: Need help configuring Wireless Connection profile

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