

Re: Need help configuring Wireless Connection profile

Source:

<http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.general/2006-10/msg03696.html>

- *From:* Ryan <Ryan@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Tue, 10 Oct 2006 12:09:01 -0700
-

"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

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:

Re: Need help configuring Wireless Connection profile

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. 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

Re: Need help configuring Wireless Connection profile

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
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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,10/10/2006,13:18:55,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,
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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 password (EAP-MSCHAP

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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

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

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192.168.16.177,LRG\ryanv,10/10/2006,13:21:50,IAS,PIRANHA,4128,D-Link
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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

Re: Need help configuring Wireless Connection profile

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
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

Re: Need help configuring Wireless Connection profile

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

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

Re: Need help configuring Wireless Connection profile

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

Re: Need help configuring Wireless Connection profile

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 unavailable is
unchecked
Validate Server Certificate is unchecked

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