

## Re: Wireless AP wants Radius Server, advice?

**Source:**

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2005-01/3236.html>

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**From:** Stuart Mackie [MCP, MSP] (*newsgroups\_at\_--REMOVE\_THIS--NO\_SPAM--stu.uk.com*)

**Date:** 01/12/05

Date: Wed, 12 Jan 2005 17:24:34 -0000

No problem. I'll watch this topic so if you have any problems or aren't sure of something please post back and I'll try and help.

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Stuart Mackie [MCP, MSP]

[www.stu.uk.com](http://www.stu.uk.com)

"Gary V." <GaryV@discussions.microsoft.com> wrote in message  
news:65D6CD13-91A6-4150-B7E1-754E4D487D2F@microsoft.com...

> Very Cool! Thanks for all your help and direction pointing. Now I got lots  
> to

> read on my lunch break.

>

> "Stuart Mackie [MCP, MSP]" wrote:

>

>> Hi Gary, no problem, if everyone knew everything it wouldn't be any fun

>> :)

>>

>> EAP-PEAP, EAP-TLS, EAP-TTLS all provide secure authentication between the  
>> client and server. PEAP and TTLS are the best two options of the three.

>> TLS transmits parts of the authentication in clear text making it

>> vulnerable. PEAP and TTLS were both developed to resolve this problem by

>> first creating an encrypted tunnel before any communications take place.

>> Radius accomodates the various authentication protocols.

>>

>> EAP-PEAP and EAP-TTLS require your server to have a Certificate which is

>> installed on each client. It is optional whether you install a

>> certificate

>> on each client. EAP-TLS required both the client and server to have

>> certificates. The links below (the O'Reilly link should have most of the

>> information you need) covers the various authentication types and

>> explains

>> their differences.

>>

>> Personally I would use EAP-PEAP or EAP-TTLS with a Server Certificate,

>> avoid

>> TLS. The second link on my last email

>> (<http://wireless.dweezle.org/Docs/IAS2003config.pdf>) includes configuring

>> PEAP as part of the test lab environment.

>>

>>

>> O'Reilly Explanation of the three above protocols :

>> <http://www.oreillynet.com/pub/a/wireless/2002/10/17/peap.html>

>>

>> iLabs Comparison (very similar to O'Reilly)

>> <http://www.ilabs.interop.net/WLANSec/TTLS-PEAP-lv03.pdf>

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>>
>> Microsoft Document explaining Authentication Protocols
>> http://www.microsoft.com/resources/documentation/Windows/XP/all/reskit/en-us/Default.asp?url=/
>>
>> Cisco Presentation (Very basic information)
>> http://www.cisco.com/application/pdf/en/us/guest/products/ps430/c1161/ccmigration\_09186a00800f
>>
>> --
>> Hth,
>> Stuart Mackie [MCP, MSP]
>> www.stu.uk.com
>>
>>
>> "Gary V." <GaryV@discussions.microsoft.com> wrote in message
>> news:870A398C-E304-495D-B279-A45B1B439C83@microsoft.com...
>> > You know that is a very good question, and brings to light that I have
>> > no
>> > idea! Now that is a bad thing for the admin to say. What would you
>> > suggest? I
>> > though that is what the IAS/Radius server did? or are you talking about
>> > the
>> > auth between the terminals and AP? But I honestly dont know, someone
>> > please
>> > help. Thanks for your help. I'll read both links. Thanks.
>> >
>> > "Stuart Mackie [MCP, MSP]" wrote:
>> >
>> >> Hi Gary. Yes you can use IAS for Radius, and as you've said it would
>> >> be
>> >> more efficient to use IAS since you wouldn't have to reproduce all you
>> >> users
>> >> accounts on the Dlink AP. The first link below has a basic run
>> >> through
>> >> of
>> >> configuring IAS as a Radius Server for Wireless clients. The second
>> >> link
>> >> is
>> >> an MS document which has a full explanation on creating a secure
>> >> wireless
>> >> environment using ISA on Win2k3 (test lab example) [second link is
>> >> best]
>> >>
>> >> http://www.microsoft.com/resources/documentation/WindowsServ/2003/standard/proddocs/en-us/D
>> >>
>> >> http://wireless.dweezle.org/Docs/IAS2003config.pdf
>> >>
>> >> What are you planning on using for authentication e.g. PEAP, EAP-TTLS
>> >> etc
>> >> ?
>> >>
>> >> --
>> >> Hth,
>> >> Stuart Mackie [MCP, MSP]
>> >> www.stu.uk.com
>> >>
>> >>
>> >> "Gary V." <GaryV@discussions.microsoft.com> wrote in message
>> >> news:90F32484-7E94-417B-A6DE-A35CDE50134D@microsoft.com...
>> >> > Got some questions. Our SBS 2003 server is in our warehouse. I'm
>> >> > putting
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microsoft.public.windows.server.sbs: Re: Wireless AP wants Radius Server, advice?

>> >> > some  
>> >> > wireless AP in the rafters to cover the warehouse and some mobile  
>> >> > terminals.  
>> >> > Reading through the AP's manual they recommend for the best  
>> >> > security,  
>> >> > WPA  
>> >> > with Radius CCMP (AES) and TKIP. The AP (Dlink DWL-2210AP) has an  
>> >> > onboard  
>> >> > Radius server but that would require me to add users to the AP, I  
>> >> > don't  
>> >> > want  
>> >> > to have to do that. However you can also specify the ip address of  
>> >> > your  
>> >> > Radius server. My question, does/is SBS 2003 Prem a Radius server?  
>> >> > Does  
>> >> > IAS  
>> >> > (Not ISA) count as a Radius server? There is also a WPA-PSK that is  
>> >> > the  
>> >> > 2nd  
>> >> > recommendation for security on the wireless network, but they  
>> >> > recommend  
>> >> > using  
>> >> > the built in Radius server over the PSK option. Thanks for any input  
>> >> > or  
>> >> > any  
>> >> > setups that you all have used for security on a wireless network.  
>> >> >  
>> >> > PS. I would rather have it all be wired but they do want the  
>> >> > mobility  
>> >> >  
>> >> > Thanks Gary V.  
>> >>  
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>>  
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