

## Re: Can't disable "Trusted" for Certificates Issued by MS Certificate Server

*Source:* <http://www.derkeiler.com/Newsgroups/microsoft.public.platformsdk.security/2003-10/0492.html>

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What usages does the root certificate of your MS Certificate Server have (from the Enhanced Key Usage extension)? Are there any intermediate certs and, if so, what are their usages?

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"Ohaya" <[ohaya@NO\\_SPAM.cox.net](mailto:ohaya@NO_SPAM.cox.net)> wrote in message news:3F9D3A7F.7294A454@NO\_SPAM.cox.net...

> Hi,

>

> I think that I have encountered a somewhat serious "bug" somewhere. I  
> can't tell if it's a CryptoAPI bug, an IIS bug, or whatever, so I'm  
> cross-posting this to several newsgroups. This seems like (to me) a  
> rather serious problem, and I'll try to describe what's happening as  
> best I can, and also provide a somewhat kludgy workaround.

>

>

> Background:

> =====

> Server: Win2K Advanced Server SP4, updated on Friday (10/24/03)  
> Server is the DC (i.e., ActiveDirectory is installed)  
> MS Certificate Server is installed  
> IIS5

>

> Client: Win2K Pro SP4, updated same date as server  
> IE 6.0.2800.1106

>

>

> I have been preparing to configure the above server for SSL with server  
> and client authentication for awhile.

>

> Before I did that, in order to do some pre-testing, I issued a server  
> cert for IIS with MS Certificate Server, and several client certs.

>

> I got all of this (SSL with client and server authentication) working,  
> including IE would display the client certs that were issued by MS  
> Certificate Server whenever I tried to connect from IE to IIS.

>

>

> Then, using the IIS server certificate wizard, I deleted the original MS  
> Certificate Server-issued server cert, then created a new server  
> certificate request, which I then sent to my commercial CA one night.

## microsoft.public.platformsdk.security: Re: Can't disable "Trusted" for Certificates Issued by MS Certificate Server

> The next morning, I received the new server cert from my commercial CA,  
> along with a set of test client certificates.  
>  
> I then installed the root cert from my commercial CA on the server, and  
> then using IIS, used the IIS server certificate wizard to install the  
> new server cert that I had just received from my commercial CA.  
>  
> I also installed one of the test client certificates from my commercial  
> CA, and installed it on my client machine, and began testing.  
>  
>  
> Problem:  
> =====  
> From some previous testing with an earlier similar (SSL client and  
> server authentication) setup, I found that I could control which client  
> certificates that IE would display, when connecting to the server, by  
> enabling or disabling the "Client Authentication" Purpose in the root CA  
> certificate Purposes for specific root CAs.  
>  
> In other words, if I disabled/unchecked the "Client Authentication"  
> purpose for the root CA cert for "Whatever CA", then client certificates  
> issued by "Whatever CA" would display in the IE popup when I tried to  
> connect to the server. If I enabled/checked the "Client Authentication"  
> purpose for the root CA cert for "Whatever CA", then client certificates  
> issued by "Whatever CA" would NOT display in the IE popup when I tried  
> to connect to the server.  
>  
>  
> However, it appears that with the setup that I ended up with above  
> (install MS Cert Server server cert, uninstall server cert, install new  
> commercial CA server cert), which I described above under "Background",  
> this (enabling/disabling "Client Authentication" purpose for the root CA  
> cert) does not appear to work for the client certs created with MS  
> Certificate Server.  
>  
> Specifically, the client certificates that I created using MS  
> Certificate Server still get displayed by IE when connecting to the  
> server, regardless of how the "Client Authentication" purpose is set in  
> the root CA certificate on the server-side, and there does not appear to  
> be any reasonable way to prevent these client certificates from being  
> displayed by IE during a connection attempt.  
>  
>  
> I'm guessing (I would HOPE) that deleting the root certificate for my MS  
> Certificate Server on the SERVER might work, but then that would kill my  
> MS Certificate Server installation, so that doesn't seem like a  
> reasonable solution, and really, I'm kind of puzzled about why the  
> "Client Authentication" purpose is "obeyed" for all client certificates  
> except for the ones created by MS Certificate Server.  
>  
>  
> Bottom line: It appears that if you install MS Certificate Server,  
> issue a server cert and some client certs, then install a server cert  
> from another CA, that there is no way way get IE browsers that had  
> client certs from MS Certificate Server not to display those previously  
> issued client certs.  
>  
>  
>  
> Possible workaround:  
> =====  
> I haven't found a way, from the server-end, to cause IE not to display

microsoft.public.platformsdk.security: Re: Can't disable "Trusted" for Certificates Issued by MS Certificate Server

> those MS Certificate Server-issued client certs, but thankfully, with  
> IIS at least, the CTL functionality still works properly.  
>  
> In other words, if I set up a CTL with only the root cert from my  
> commercial CA, IE will STILL DISPLAY both the client certs from my  
> commercial CA and the client certs that were issued by MS Certificate  
> Server, but at least the authentication/connection will fail if someone  
> tries to connect using one of the client certs issued by MS Certificate  
> Server.