

## Re: Can I store a C# Class Instance to the Server Cache?

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<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.webservices/2007-02/msg00084.htm>

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- *From:* "Joseph Geretz" <jgeretz@xxxxxxxxxxx>
  - *Date:* Wed, 14 Feb 2007 19:00:34 -0500
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Thanks John,

Clearly, the ASP.NET Cache object doesn't need anything more than your class provides

I know this works, but will I run into any threading problems? In other words, let's say the user logs in with an instance of the ASMX page executing on thread 345. The SessionCache class instance will be created on thread 345 and a reference to that class instance will be stuffed into the Server Cache. Let's say the next transaction for this user's session is served up by an ASMX page executing on thread 987. Will access to the SessionCache class instance involve a thread context switch from 987 to 345? This is the sort of trap which looks like it's working initially, but as usage scales up, this sort of problem will start to manifest itself in a big way. (Forgive me for stressing the point, but a lot VB6 developers were burned badly by saving class instances on the Server and I want to make sure that .NET class instances aren't susceptible to the same type of thread affinity problems.)

Thanks!

– Joseph Geretz –

"John Saunders" <john.saunders at trizetto.com> wrote in message <news:OO34RjIUHHA.4404@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

"Joseph Geretz" <jgeretz@xxxxxxxxxxx> wrote in message <news:%23Rre6xHUHHA.528@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

Hi John,

Thanks for your response. I'm not sure what you mean by serializable. Do you mean that I need to serialize this explicitly into the Cache, or that the Framework will take care of the serialization for me if the class is serializable?

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Here is that class which I am caching.

```
internal class SessionCache
{
    public string SID;
    public string UID;
    public string PWD;
    public DataTable Profile;
}
```

I know this is 'working' since I'm able to retrieve this from the cache on successive Web Method requests. Is this actually being serialized into the cache for me 'under the hood'? Does it need to be? Do I need to do anything explicitly to serialize this into the cache?

Joseph, I'm sorry, I wasn't thinking clearly. I was thinking about ViewState, which does require instances to be serializable. Clearly, the ASP.NET Cache object doesn't need anything more than your class provides.

John