

Re: MemberwiseClone() doesn't like arrays?

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.languages.csharp/2008-01/msg01138.html>

- *From:* "Marc Gravell" <marc.gravell@xxxxxxxxx>
 - *Date:* Thu, 10 Jan 2008 13:50:04 -0000
-

Easy – it has done a *shallow* clone, probably by a blit; this means that it has, as promised, copied the member variable exactly; the clone *also* contains a field that is a reference to the managed heap – i.e. the same object. This is a common problem with using shallow clone on an object whose fields are references.

You could try serialization? This is the simplest approach to get a deep-clone (assuming your data is serializable).

Or simply implement Clone() yourself, and manually clone the array (giving the new instance the cloned array). Of course, if the array is an array of reference-types (Customer, perhaps), then note that now you have 2 arrays pointing to the same Customer objects, so original.Data[0].Name = "Fred" will also update newClone.Data[0].Name...

Do you see the problem?

Marc

.