

Re: Returning interfaces from web-services and remoting servers?

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework/2005-06/msg00889.html>

- *From:* "Ryan Kinderman" <RyanKinderman@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Mon, 20 Jun 2005 13:06:04 -0700
-

Hey Ben,

You could certainly make it appear like the web service and remoting server use the same, well-defined interface. Just define the interface that represents the service functionality you need, then create your client-side proxy for connecting to either a web service or remoting server, and make the proxy satisfy the interface contract.

This is a good rule of thumb to use anyways -- clearly separating concerns at each layer in your architecture. The web service/remoting server, and the underlying infrastructure that they represent, can usually be thought of as part of the data layer, and they have a separate set of needs from the interface that clients in higher layers might want to interact with.

For example, let's say that your CM system works with various documents that you've defined an IDocument interface for. In order to get IDocument instances, you've defined an IDocumentFinder that has method FindDocument(int id). Your UI or UI process code could simply obtain an instance of IDocumentFinder, call the simple FindDocument method, and obtain the IDocument instance it's after. You could have IDocumentFinder implementations that connect to a web server, remote server, or access some other data store directly -- it doesn't matter :). The key is to think of web services in the proper context, then everything falls into place.

--

Ryan Kinderman

"Ben Fidge" wrote:

- > Thanks for the advice. I'd already decided on using a client-side proxy that
- > deals with the brokering of the data, and I also see the remoting server and
- > web-service as purely "pass-through" layers.
- >
- > I was rather hoping that the web-service, remoting server etc would all
- > support the same interface as this will be well defined.
- >
- > Thanks for the info anyhow. I'll definitely read up on SOA as you suggest.

Re: Returning interfaces from web-services and remoting servers?

>
> Ben
>
> "Ryan Kinderman" <RyanKinderman@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
> news:A36F1EE1-247C-43BA-8AA2-D4BF6BFC6597@xxxxxxxxxxxxxxxxxxxx
>> Your best bet is probably to have local assemblies that define your
>> interfaces and interface implementations. The implementations would be
>> responsible for connecting to the web service to meet the contract for the
>> interface(s) they implement. The web service is just a way to pass data
>> around.
>>
>> You might want to read up on service-oriented architectures before you
>> start
>> development. There is lots of good info on the subject on the web. Also,
>> you could check out Rockford Lhotka's CSLA framework for his ideas on how
>> to
>> properly-wrap data logic. Some links follow:
>>
>> <http://www.lhotka.net/>
>> <http://www.teriski.com/blog/#aec62f263-9e18-4c9b-817a-199ce369a4d9>
>> --
>> Ryan Kinderman
>>
>>
>> "Ben Fidge" wrote:
>>
>>> Hi
>>>
>>> I'm just about to start the design and development of a large in-house
>>> Content Management System. The system will be ASP.NET based with a Sql
>>> Server
>>> back-end and will be developed be using VS.NET 2003 Ent. architect.
>>>
>>> Due to high demand (~10,000 users), and varying network setups across
>>> sites
>>> using the system, I want to deliver an n-tier solution where the data
>>> layer
>>> can be implemented as either a web-service, remoting server or a simple
>>> dll
>>> assembly. Each particular installation will specify in web.config which
>>> method to employ according ot its own specifics.
>>>
>>> In order to provide the desired level of abstraction, and "flatten" the
>>> three technologies, I'd like to be able to return the data-access classes
>>> as
>>> interfaces to the client. This will simplify client-side development as
>>> the
>>> client code will only need to be aware of the interfaces and not the
>>> implementations. I plan to have a client-side proxy that is responsible
>>> for
>>> brokering instances of the data access classes.

Re: Returning interfaces from web-services and remoting servers?

>>>

>>> My questions are:

>>>

>>> – Can web-services and remoting servers implement interfaces?

>>> – Can WebMethods etc return/receive interfaces instead of classes?

>>> – Is there a better way of doing this?

>>>

>>> Any enlightenment most gratefully received,

>>>

>>> Ben

>

>

>

.

• **References:**

◆ **[Returning interfaces from web-services and remoting servers?](#)**

◇ *From:* Ben Fidge

◆ **[RE: Returning interfaces from web-services and remoting servers?](#)**

◇ *From:* Ryan Kinderman

◆ **[Re: Returning interfaces from web-services and remoting servers?](#)**

◇ *From:* Ben Fidge

• Prev by Date: **[Re: hosting the runtime](#)**

• Next by Date: **[RE: Strange behaviour of Process](#)**

• Previous by thread: **[Re: Returning interfaces from web-services and remoting servers?](#)**

• Next by thread: **[Windows XP/2000: What you have draw ? :-\)](#)**

• Index(es):

◆ **[Date](#)**

◆ **[Thread](#)**