

# RE: WSE 3.0 SOAP Router for load balancing

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- *From:* SoGMO <[AgentSmith@xxxxxxxxxxxxxx](mailto:AgentSmith@xxxxxxxxxxxxxx)>
  - *Date:* Fri, 31 Aug 2007 12:30:00 -0700
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Hi Steven,

Thanks for your reply, it answers my question.

It is not always possible for us to go the hardware or windows based load balancing way as it depends on customer infrastructure.

I had just understood that it was possible to do load balancing functionality based on configuration of the referralCache, but unfortunately this is not the case.

I was going to take a custom approach to "Route SOAP Messages Based Upon Their Content", which you also describes in #2. Then I could store the routing information in a database (or xml file), and maybe even do a mix of load balancing and content based routing in the custom routing functionality. It leaves an issue of a dynamic URI in the SoapActor attribute of the receiving services.

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```
[SoapActor("http://SoapRouterName/RoutedService.asmx")]  
public class StockTraderService : System.Web.Services.WebService  
{  
    //Web service implementation  
}
```

\*\*\*\*\*  
To make it all configurable, it would be great if this URI could be fetched from the database as well, but as far as I know this is not possible because this is compiled code – or is it?

Sincerely

Glenn M. Sørensen

"Steven Cheng[MSFT]" wrote:

Hi Glenn,

For the WSE 3 loading balance, I think you can consider the following

RE: WSE 3.0 SOAP Router for load balancing

approaches:

1. Is it possible that you use hardware or windows operating system's loading balance feature? Thus, you can simply let a single front server accept the requests and let the underlying loading balance framework to redirect requests to back end service server

2. WSE 3.0's rounter feature is mainly used for hidden the backend service server from front end client users. If you want to use it in a loading balance model, I think you may need to write the custom SoapRouter and do the loading balance redirect code logic in it:

#Routing SOAP Messages with WSE

<http://msdn2.microsoft.com/en-us/library/aa529328.aspx>

#How to: Route SOAP Messages Based Upon Their Content

<http://msdn2.microsoft.com/en-us/library/aa528755.aspx>

As in the "Route SOAP Messages Based Upon Their Content" example indicate, you can programmatically determine the target url you want to redirect a WSE request, and for your custom loading balance router, you may need to give the proper target servers(from all balance servers) url. How do you think?

Sincerely,

Steven Cheng

Microsoft MSDN Online Support Lead

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RE: WSE 3.0 SOAP Router for load balancing

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Hi,

I've read several places and in several books, that you can implement load balancing with WSE 3.0 and the httpHandler Microsoft.Web.Services3.Messaging.SoapHttpRouter component (WS-Referral). I have only been able to implement the chain and content.based routing models.

Does anyone know if and how you implement the load balancing routing model?

/Glenn

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