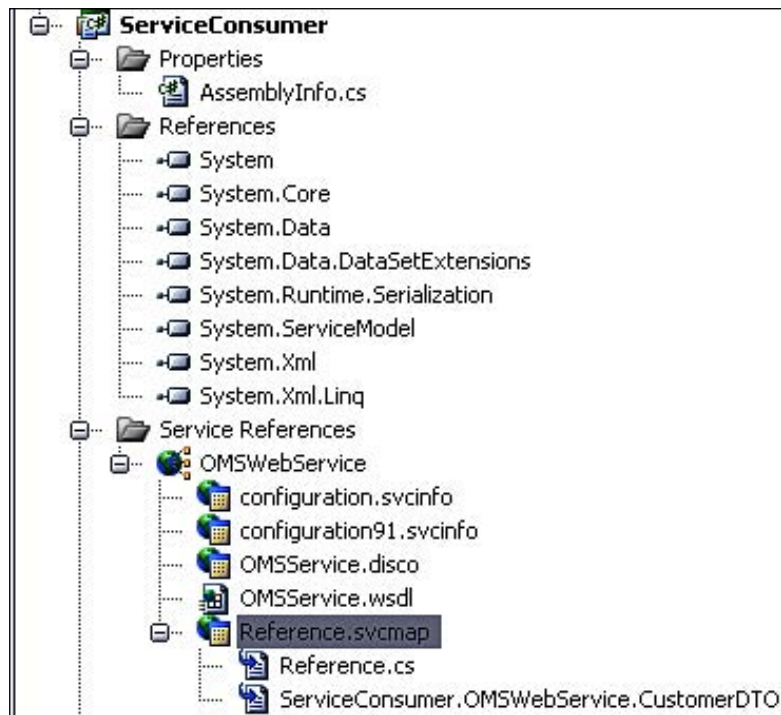


7. In the **Namespace** field, type **OMSWebService** and click the **OK** button.
8. The service reference will be added to the console application project and VS will auto-generate the files shown below (you need to select the **Show hidden Files** option at the top of the **Solution Explorer** in VS to see these files):



9. Now, open the `Program.cs` file, and include the following lines to show a list of customers by consuming the `OMSservice`:

```
static void Main(string[] args)
{
    OMSWebService.OMSServiceSoapClient client =
        new ServiceConsumer.OMSWebService.
            OMSServiceSoapClient();
    CustomerDTO[] customers = client.GetAllCustomers();
    foreach (CustomerDTO customer in customers)
    {
        Console.WriteLine(customer.Name);
    }
}
```

Here we are calling the `GetAllCustomers` method and showing the names of all of the customers.

The above two simple examples show us how the web service interface is managing fine-grained object orientation in a web method and exposing simple coarse-grained methods. Therefore, a service method is a complete independent entity in itself, performing complete end-to-end operations without depending on other service methods.

Windows Communication Foundation

Windows Communication Foundation, known as WCF for short, is a wrapper around the .NET 2.0 framework, and is designed to facilitate the use of SOA for .NET applications in a simple and flexible way.

But why is WCF needed? The ASMX web services we used in the previous sections were the best way to implement a cross-platform SOA-based architecture. But when we need to implement ASMX services to interact with other platforms such as J2EE (Java Enterprise Edition, a platform for developing applications using the Java language), we will most probably need to use a mixture of technologies, such as ASMX web services along with **Web Service Enhancements (WSE)**.

WSE is an implementation of the web services architecture for developers creating web services using ASP.NET and Microsoft .NET Framework client applications. WSE was introduced to help create scalable web services, with a special focus on security. Dealing with cross-platform security, as in, say, a .NET service interacting with a J2EE based client, is quite complex, requiring the consideration of two completely separate security domains. To solve such issues, WSE was released by Microsoft. WSE with ASMX web services solved the integration issues with .NET and J2EE.

With WCF, Microsoft bundled everything together by implementing interoperable web services complete with cross-platform security, reliability, transactions, and other services. Now, there is no need to use remoting; WCF is the way to go. WCF can work with SOAP, RSS, or any other custom message format, simply by extending it. Also, WCF carries considerable performance gains when compared to standard ASMX web services.