

# Creating a XML Web Service and Distributed Application

## Course Description

This advanced class focuses on building and consuming Web Services and other distributed application. You will learn to build and consume Web Services, and you'll get a fundamental understanding of SOAP and WSDL, XML-based standards at the core of this new technology. Also with remoting object, service component and message queue.

## Course Level

Intermediate

## Who should attend?

.NET Developer who want to create the XML Web Service Application using Visual Studio 2005

## Pre-requisites

Good understanding of Programming .NET Application , ASP.Net and XML

## Course Objectives

- Basic Programming for XML Web Service
- Configuring Web Service
- Message SOAP Header and Extension
- Calling Web Method using Asynchronous Mode
- Creating Remoting Object
- Creating a Service Component
- Pass data between application using MSMQ

## Course Durations

18 Hours

## Course Outline

### 1. Creating and Accessing XML Web Services

Overview XML Web Service  
Create XML Web service method.  
Attach the Web Method attribute.  
Configure a Web service method.

#### Hand-On Labs

*Create XML Web Service*

### 2. Configure SOAP messages.

Configure the formatting of SOAP  
Specify the basic information  
Specify the bindings of a Web service  
Configure a Web service application

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*Configuring SOAP Message*

### 3. Configure the communication protocol.

Select the formatting of SOAP messages.  
Specify the parameter formatting.  
Specify the parameter style.

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*Configuring Web Service communication*

### 4. Manage session state in Web services.

Implement Application object.  
Implement session state by using cookies.  
Implement Session object.

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*Use State in Web Service*

### 5. Implement SOAP headers.

Add a custom SOAP header class.  
Apply a SoapHeader attribute  
Access and process a SOAP header  
Handle unknown SOAP headers.

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*Implement SOAP Header*

### 6. Implement SOAP extensions.

Create a custom SOAP extension.  
Configure a SOAP extension.  
Process a SOAP header

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*Implement SOAP Extension*

### 7. Call Web methods asynchronously.

Call a Web method.  
Poll for the completion of a Web method.  
Get Web method results.  
Implement callback.  
Call a OneWay Web method.

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*Asynchronous Call on Web Method*

### 8. Create Remoting server application.

Create a server application domain.  
Configure a server application  
Compile and build a server application.

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*Create Remote Object*

### 9. Create a client application to access a remote object

Create a remote object.

Configure a client application  
Access the remoting service  
Call a remote method synchronously

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*Connect to remote object*

### 10. Debug and deploy remoting application.

Use performance counters to monitor a remoting application.  
Debug a remoting application.  
Host and deploy a remoting application.

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*Deploy remote application*

### 11. Create and serialize remoting types.

Create a remoting type.  
Create generic types.  
Configure a serialization formatter  
Configure a binary formatter.  
Configure a SOAP formatter.

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*Serialization remote object*

### 12. Manage the lifetime of remote objects.

Initialize the lifetime of a remote object.  
Renew the lifetime of a remote object.

#### Hands-On Labs

*Control remote object life time*

#### Day 2:

### 13. Create, configure, and access a serviced component.

Create a serviced component.  
Add attributes to a serviced component.  
Register a serviced component.  
Implement security.  
Create an instance a serviced component.

#### Hands-On Labs

*Create and use service component*

### 14. Create, delete, and set permissions on a message queue.

Create a message queue  
Delete a message queue.  
Set permissions for a message queue

#### Hands-On Labs

*Create and delete message queue*

### 15. Send messages to a message queue and delete messages from a message queue.

Create a message.  
Post a message.  
Receive a message synchronously.

#### Hands-On Labs

*Send data to message queue*

### 12. Receive messages.

Peek at messages.  
Enumerate messages.  
Receive a message asynchronously.

#### Hands-On Labs

*Get message from message queue*

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