

## 664-Web Services with ASP.NET v2.1.0

### **Examining an Existing Web Service**

- Example: Examining and Consuming a Simple Web Service
- Examining the Web Service Application Directly

### **What and Why of Web Services**

- Distributed Enterprise Computing Today
- What is a Web Service ?
- The Role Of Web Services
- Origin of Web Services
- Existing Methodologies
- Problems with Existing Standards
- The Promise of Web Services

### **Creating a Basic Web Service**

- Example: A Currency Converter Web Service
- SOAP - Messaging
- WSDL - Description
- Viewing the Service Description
- Generating WSDL documents
- Where does the WSDL tool get used?
- Discovering Web Services - DISCO
- Publishing Web Services – UDDI
- Consuming a Web Service from a Web Form
- What is a Web Reference?

### **Improving the Readability of your Web Service**

- Why do we add readability?
- NameSpace
- Description
- Name
- WebMethod Description Property
- Example: Adding Readability to the Currency Converter Test Harness

### **Web Service Caching Mechanisms for Performance Tuning**

- Caching Overview
- Output Caching
- Testing Cached Web Services
- Selecting Candidates for Output Caching

- Data Caching
- Cache Object
- Dependency Based Cache Expiration

## SOAP

- What is SOAP?
- SOAP Data Types
- Example: SOAP Data Types
- Shaping XML Output
- Handling Binary Data

## Refresher: Serializing To XML

- What is XML Serialization?
- Advantages and Disadvantages to XML Serialization
- Serialization of Complex and Derived Types
- Shaping the XML
- Example: An Adult MovieViewer, with a Collection
- XML Schema Definition Tool (xsd.exe)

## XML Documents for Data

- Web Service, or a Service on the Web?
- XML Serialization Drives .NET Web Services
- Example: Consume XML with and without SOAP

## Alternate Web Service Clients

- Considering Alternate Clients
- Windows Forms Clients
- Asynchronous Handling of Web Services
- Calling a Web Service from Another Web Service