



# WCF Training Course Content

## Web Services

- What is Distributed Application
- High Level Architecture on how RMI/CORBA/DCOM works
- Introduction to Web Service and SOAP
- To build an Web Service application and client
- Pass by value and reference behavior
- Working with Soap Header Attribute
- Asynchronous Call to the Web Method
- Security in Web Service

## Introduction to WCF

- Evolution of WCF
- Evolution of Service Oriented Architecture (SOA)
- Four Tenets of SOA
- What is WCF
- Where does WCF Services fit in?

## Developing WCF Service Application and Client

- Hosting WCF Service in IIS/ASP.NET Development Server
- Using a Service in the client application
- Understand Contracts in the service
- Understand Instancing behavior in the service
- Building WCF Library based Host and Client application.

## Endpoints in configuration file

- End points in Configuration File.
- ABC - Address, Binding and Contract of the service in Configuration File.
- Understanding importance of base address.
- Importance of IMetadataExchange Contract / Endpoint.
- Configuring service behavior in configuration file
- WCF Service Configuration Editor
- Creating Endpoints through Code

## **Channel Stacks and Bindings in WCF**

- Understanding Channel Stack
- Introduction to Binding
- Types of Bindings
- Binding Comparison
- Thumb rules in choosing endpoint binding
- Configuring a Service and Client for Multiple Bindings
- Binding Class Properties.

## **Understanding Service and Data Contracts**

- About Service Contract
- Data Contract and Data Member
- Versioning using Interface IExtensibleDataObject
- Version Tolerance
- Implications of Modifying Service Operations
- Implications of Modifying Data Contracts
- Working with Known Types

## **Handling WCF Exceptions/Faults**

- Overview
- Producing Faults
- SOAP fault with FaultCode and FaultReason
- Culture specific SOAP fault
- Strongly Typed SOAP fault
- Consuming Faults
- Proxy State for Managed Exceptions Vs SOAP Fault

## **Message Exchange Patterns**

- Request – Reply Pattern
- One way Operations
- Duplex Pattern
- Duplex Publisher Subscriber Example

## **Transactions**

- What is Transaction and ACID
- How to enable Transaction in WCF Service
- TransactionScope in to begin a transaction.
- Transaction Isolation
- Transactions and Sessions

## MSMQ

- Introduction
- Advantages of using MSMQ
- Transactional Queues
- Steps to follow to Build a MSMQ application

## WCF Security

- Concepts.
- Security Mechanisms.
- Default Security Settings.
- Demonstrate how Messages are encrypted.
- Authentication
- Authorization

GREENS TECHNOLOGYS



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