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BizTalk 2006 R2 – WCF Course Outline

(WCF = Windows Communication Foundation)

Using Web Services with BizTalk 2006/R2

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The following videos are available via online learning management system at <http://BizTalk-Training.com>. Please check website for current pricing.
BizTalk2006R2_Intro_Course_Outline.PDF

	length min:sec
1. Writing and Testing Your First Simple WCF Webservice	
1. Introduction / Course Outline	0:01:39
2. Creating simple WCF Service in Visual Studio 2008	0:14:59
3. Testing Web Service with WCFTestClient.exe Utility	0:10:26
4. Testing Web Service with C# Console Test Program	0:23:26
5. Using RegEx to Parse HTML (C# programming example)	0:14:52
6. Debugging the RegEx Parsing Code (C# programming example)	0:14:52
Total time	1:20:14
2. Writing a Web Service that Uses Request/Response Class/Objects	
1. Creating a WCF Service that receive and returns complex data	0:02:53
2. Testing with WCFTestClient.exe	0:04:23
Total time	0:07:16
3. Phase 1 - One level of data, no aggregation, using TPE	
1. Building Orchestration and Schema	0:13:59
2. Adding WCF Calls into Orchestration - Part 1	0:21:58
3. Adding WCF Calls into Orchestration - Part 2	0:20:20
4. Testing the Orchestration	0:17:11
Total time	1:13:28
4. Error and Fault Handling	
1. Part 1 - Adding Exceptions to the WCF Service	0:22:23
2. Part 2 - Catching Exception in the Orchestration	0:18:18
3. Part 3 - Dealing with Regular .NET Exceptions	0:20:37
4. Part 4 - Dealing with Regular .NET Exceptions (continued)	0:18:54
Total time	1:20:12

5. Issues: Serialization and Nulls	
1. Introduction to Serialization and Nulls	0:05:05
Total time	0:05:05
6. Adding a Data Access Layer with LINQ	
1. Creating the LINQ-based WCF Service - Part 1	0:24:29
2. Creating the LINQ-based WCF Service - Part 2	0:09:38
3. Creating the Orchestration	0:25:48
4. Testing the Orchestration	0:09:19
Total time	1:09:14
7. Publishing Orchestration as WCF	
1. Creating the Orchestration to be Published as a WCF Service	0:22:43
2. Binding the Orchestration	0:16:02
3. Testing the Published Orchestration with WCFTestClient.exe	0:07:51
4. Creating a .NET Windows Form to test - Part 1	0:22:41
5. Creating a .NET Windows Form to test - Part 2	0:08:12
6. Schema Structure - WCF Publishing Oddity	0:16:16
Total time	1:33:45
8. Return to Serialization, Nulls, and IsNil="true"	
1. Introduction to Null Issues - Part 1	0:13:16
2. Introduction to Null Issues - Part 2	0:16:20
3. C# Code to Validate an Xml Message against a BizTalk Schema - Part 1	0:03:52
4. C# Code to Validate an Xml Message against a BizTalk Schema - Part 2	0:03:52
Total time	0:37:20
9. Dealing with Lists	
1. Adding List<class> as a return type to web service method	0:15:11
2. Adding List<class> as a request/parm to web service method	0:08:24
3. Creating orchestration	0:19:01
4. Testing orchestration	0:18:05
Total time	1:00:41
GRAND TOTAL - Hours:Minutes:Seconds	8:22:10

The above 8+ hours of videos will give you a solid foundation on using WCF with BizTalk – either by calling WCF web services from BizTalk orchestrations, or by publishing BizTalk orchestrations as WCF web services (and calling them from Windows or Web Forms). The course also gives a brief introduction to the concept of using LINQ as a data access layer (examples are for retrieval only).

Note: Microsoft course 2933A is taught on BizTalk 2006 (not R2) and therefore does not include any details on WCF, only ASM/WSE2 web services. Even then, it is only one short module out of 15, leaving only about 2-3 hours for the teacher to cover this important material in a class room environment.

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