

# Flex 3 and LiveCycle Data Services: Integrating with ColdFusion 8

Course length: 2 days

## Course Description

In this course, you will learn about integrating with ColdFusion.

**Prerequisites:** To gain the most from this class, you should already have:

- Attended the Flex 2 or 3: Developing Rich Client Applications course or have equivalent knowledge of developing Flex applications
- Have experience creating web applications with ColdFusion

## Performance-Based Objectives

- Use Flex Builder 3 and other development tools to create ColdFusion-enabled Flex client applications
- Install ColdFusion 8 and LiveCycle Data Services to deploy ColdFusion-enabled Flex client applications

## Course Content

### Lesson 1: Introduction to Flex and ColdFusion

Topic 1A: Flex, ColdFusion, and the Adobe Engagement Platform  
Topic 1B: Reviewing the course prerequisites and objectives  
Topic 1C: Reviewing the course outline  
Topic 1D: Integrating Flex 2 applications with ColdFusion MX 7  
Topic 1E: Walkthrough 1: Verify the ColdFusion Installation  
Topic 1F: Understanding the Flex Services configuration file  
Topic 1G: Walkthrough 2: Explore the Flex services configuration file  
Topic 1H: Using the ColdFusion Extensions for Flex Builder  
Topic 1I: Walkthrough 3: Using RDS Dataview  
Topic 1J: Using CFEclipse  
Topic 1K: Walkthrough 4: Create a CFEclipse Project

### Lesson 2: Using ColdFusion Components as Remote Object Services

Topic 2A: Understanding remote object services  
Topic 2B: Walkthrough 1: Create a Flex project for use with ColdFusion  
Topic 2C: Calling methods of remote object services  
Topic 2D: Using RemoteObject Events  
Topic 2E: Walkthrough 3: Using RemoteObject Events  
Topic 2F: Complex Remote Method Calls  
Topic 2G: Walkthrough 4: Making Complex Method Calls  
Topic 2H: Remoting Service Runtime Configuration  
Topic 2I: Walkthrough 5: Configuring a Channel at Runtime

### Lesson 3: Using the ColdFusion Wizards for Flex Builder

Topic 3A: Understanding the ColdFusion Wizards for Flex Builder  
Topic 3B: Using the CFC Value Object Wizard  
Topic 3C: Walkthrough 1: Generate code with the CFC Value Object Wizard  
Topic 3D: Using code from the CFC Value Object Wizard



Topic 3E: Walkthrough 2: Retrieving data from ColdFusion with Gateway CFC methods  
Topic 3F: Modifying data with Wizard methods  
Topic 3G: Walkthrough 3: Creating, updating and deleting database records  
Topic 3H: Using the ColdFusion/Flex Application Wizard  
Topic 3I: Walkthrough 4: Create an application with the Application Wizard

### **Lesson 4: Managing Data on the Client**

Topic 4A: Understanding collection classes  
Topic 4B: Filtering Data on the Client  
Topic 4C: Walkthrough 1: Filtering Data on the Client  
Topic 4D: Sorting data on the client  
Topic 4E: Walkthrough 2: Creating a Sort function  
Topic 4F: Using the IViewCursor interface  
Topic 4G: Walkthrough 3: Locating Data with a Cursor

### **Lesson 5: Lab: Creating a Project that Uses ColdFusion**

Topic 5A: Retrieving a ColdFusion query object from a simple CFC  
Topic 5B: Using the ColdFusion CFC Wizard  
Topic 5C: Sorting and filtering data on the client

### **Lesson 6: Providing XML to Controls with E4X**

Topic 6A: Understanding XML structure  
Topic 6B: Working with XML data in ActionScript 3  
Topic 6C: Using E4X Expressions  
Topic 6D: Using the Tree control  
Topic 6E: Walkthrough 1: Retrieving XML data and populating a Tree  
Topic 6F: Using Tree Control Events and Properties  
Topic 6G: Walkthrough 2: Displaying the selected item in a form  
Topic 6H: Using E4X Expressions for Search  
Topic 6I: Walkthrough 3: Adding items to the shopping cart  
Topic 6J: Removing Items from XML  
Topic 6K: Walkthrough 4: Removing items from and clearing the cart

### **Lesson 7: Introduction to LiveCycle Data Services**

Topic 7A: Introducing LiveCycle Data Services  
Topic 7B: Walkthrough 1: Explore the LiveCycle Data Services Installation  
Topic 7C: Creating a Flex project for use with ColdFusion and LiveCycle Data Services  
Topic 7D: Walkthrough 2: Creating a Flex Project that uses LiveCycle Data Services and ColdFusion  
Topic 7E: LiveCycle Data Services Features  
Topic 7F: Using BlazeDS

### **Lesson 8: Using the Message Service**

Topic 8A: Introducing the Message Service  
Topic 8B: Walkthrough 1: Reviewing Message Destination Configuration  
Topic 8C: Sending Messages  
Topic 8D: Walkthrough 2: Sending Messages  
Topic 8E: Receiving and processing messages  
Topic 8F: Walkthrough 3: Receiving and processing a message  
Topic 8G: Sending and receiving complex data  
Topic 8H: Walkthrough 4: Sending and receiving complex data  
Topic 8I: Using the Message Service with ColdFusion Event Gateways  
Topic 8J: Walkthrough 5: Exchanging messages between Flex and ColdFusion



### **Lesson 9: Using the Data Management Service**

- Topic 9A: Data Management Service Overview
- Topic 9B: Walkthrough 1: Enable the LCDS configuration and create a Flex project
- Topic 9C: Creating a Data Management Service destination for use with ColdFusion
- Topic 9D: Walkthrough 2: Create a data management services destination
- Topic 9E: Using the Data Management Service in a Flex application
- Topic 9F: Walkthrough 3: Filling an ArrayCollection
- Topic 9G: Managing changes to data
- Topic 9H: Walkthrough 4: Editing Data
- Topic 9I: Managing changes to data
- Topic 9J: Walkthrough 5: Managing Data Changes
- Topic 9K: Using DataService Events
- Topic 9L: Advanced Data Management Service Features

### **Lesson 10: Uploading Files to ColdFusion**

- Topic 10A: Implementing file transfer basics
- Topic 10B: Walkthrough 1: Browsing for a file
- Topic 10C: Uploading a file
- Topic 10D: Walkthrough 2: Uploading a file

### **Lesson 11: Lab: Generate ColdFusion Components**

- Topic 11A: Retrieve data from the server
- Topic 11B: Explicitly control commits and rollbacks of data changes

### **Appendix A: Student Setup Guide**

