

Flex 3 and LiveCycle Data Services: Integrating with Data and Messaging

Course length: 2 days

Course Description

In this course, you will learn how to integrate with data and messaging using Flex 3 and LiveCycle data services.

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

- Have attended Flex 3: Developing Rich Client Applications, or
- Have equivalent experience building Flex applications

Performance-Based Objectives

- Use Java classes with the remoting service
- Provide XML to controls with E4X
- Upload files to a server
- Manage data on a client

Course Content

Lesson 1: Accessing Web Services

- Topic 1A: Using web services
- Topic 1B: Invoking web service methods and using the results
- Topic 1C: Walkthrough 1: Consuming a web service
- Topic 1D: Handling results using an event handler
- Topic 1E: Walkthrough 2: Using a result event
- Topic 1F: Handling faults
- Topic 1G: Walkthrough 3: Using a fault event
- Topic 1H: Calling multiple methods from the same WebService object
- Topic 1I: Walkthrough 4: Using <mx:operation> compiler tags
- Topic 1J: Passing Parameters to Web Services
- Topic 1K: Walkthrough 5: Passing values to a web service
- Topic 1L: Importing Web Services in Flex Builder
- Topic 1M: Walkthrough 6: Importing a web service

Lesson 2: Introduction to LiveCycle Data Services ES

- Topic 2A: Introducing LiveCycle Data Services ES
- Topic 2B: Installing LiveCycle Data Services
- Topic 2C: Walkthrough 1: Explore the LiveCycle Data Services Installation
- Topic 2D: Creating a Flex application for use with LiveCycle Data Services
- Topic 2E: Walkthrough 2: Creating a Flex Project
- Topic 2F: Understanding the Server Compilation Process
- Topic 2G: LiveCycle Data Services Features
- Topic 2H: The Proxy Service
- Topic 2I: The Proxy Service Default Destination
- Topic 2J: Walkthrough 3: Using the Proxy Service Default Destination
- Topic 2K: Named Proxy Service Destinations
- Topic 2L: Walkthrough 4: Using a Named Proxy Service Destination
- Topic 2M: Using BlazeDS



Lesson 3: Using Java Classes with the Remoting Service

- Topic 3A: Understanding the Remoting Service
- Topic 3B: Walkthrough 1: Calling a Remote Object Service method
- Topic 3C: Handling RPC Events
- Topic 3D: Walkthrough 2: Handling Remote Object Events
- Topic 3E: Complex Remote Method Calls
- Topic 3F: Walkthrough 3: Making Complex Method Calls
- Topic 3G: Exchanging Data between ActionScript and Java
- Topic 3H: Walkthrough 4: Sending a Value Object with a Remote Method Call
- Topic 3I: Handling Server-Side Exceptions
- Topic 3J: Walkthrough 5: Handling Server-Side Exceptions
- Topic 3K: Remoting Service Runtime Configuration
- Topic 3L: Walkthrough 6: Configuring a Channel at Runtime

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: Sorting data
- Topic 4F: Using the IViewCursor interface
- Topic 4G: Walkthrough 3: Locating Data with a Cursor

Lesson 5: Lab: Creating a Flex project for use with LiveCycle Data Services

- Topic 5A: Creating a Flex project for use with LiveCycle Data Services
- Topic 5B: Retrieving custom objects with RemoteObject
- Topic 5C: Retrieving photo data with RemoteObject
- Topic 5D: Filtering photos on categories using client-side filtering
- Topic 5E: Complete a photo order with a RemoteObject service

Lesson 6: Using the Message Service

- Topic 6A: Introducing the Message Service
- Topic 6B: Walkthrough 1: Reviewing Message Destination Configuration
- Topic 6C: Sending Messages
- Topic 6D: Walkthrough 2: Sending Messages
- Topic 6E: Receiving and Processing Messages
- Topic 6F: Walkthrough 3: Receiving and processing a message
- Topic 6G: Sending and Receiving Complex Data
- Topic 6H: Walkthrough 4: Sending and Receiving Complex Data

Lesson 7: Using the Data Management Service

- Topic 7A: What is the Flex Data Management Service?
- Topic 7B: Walkthrough 1: Exploring a Data Management Services Destination
- Topic 7C: Data Management Service Architecture
- Topic 7D: Walkthrough 2: Filling an ArrayCollection
- Topic 7E: Changing Data
- Topic 7F: Walkthrough 3: Editing Data
- Topic 7G: Managing Pending Changes
- Topic 7H: Walkthrough 4: Managing Pending Changes
- Topic 7I: Using Data Management Service Events
- Topic 7J: Walkthrough 5: Using AsyncToken
- Topic 7K: Advanced Data Management Service Features



Lesson 8: Providing XML to Controls with E4X

- Topic 8A: Understanding XML structure
- Topic 8B: Working with XML data in ActionScript 3
- Topic 8C: Using E4X Expressions
- Topic 8D: Using the Tree control
- Topic 8E: Walkthrough 1: Retrieving XML data and populating a Tree
- Topic 8F: Using Tree Control Events and Properties
- Topic 8G: Walkthrough 2: Displaying the selected item in a form
- Topic 8H: Using E4X Expressions for Search
- Topic 8I: Walkthrough 3: Adding items to the shopping cart
- Topic 8J: Removing Items from XML
- Topic 8K: Walkthrough 4: Removing items from and clearing the cart

Lesson 9: Uploading Files to a Server

- Topic 9A: Implementing file transfer basics
- Topic 9B: Walkthrough 1: Browsing for a file
- Topic 9C: Uploading a file
- Topic 9D: Walkthrough 2: Uploading a file

Lesson 10: Lab: Upload a file and add it to the Gallery

- Topic 10A: Upload a file and add it to the Gallery
- Topic 10B: Send real-time messages between applications

Appendix A: Student Setup Guide

