



Flex 4 - Data and Communications

Flex 4 - Data and Communications is a two-day course that provides experienced application developers with practical experience connecting their Flex front ends to remote dynamic data using Flex Data Services. This course instructs developers on how to connect with remote data using web services and Flex Data Services' features allowing communication with a Java backend. Developers will also learn how to manipulate and format the returned data.

Target Student: Application developers who want to connect their Flex front ends to dynamic data.

Prerequisites: Flex 4: Developing Rich Client Applications or equivalent knowledge.

Delivery Method: Instructor-led, classroom-delivery learning model with structured hands-on activities.

Benefits: This course provides you with hands-on, practical experience connecting your Flex front ends to remote, dynamic data using Flex Data Services. Additionally you will learn how to manipulate and format the return data.

What's Next:

Flash Rich Content Creation Add animation and user interaction to your website with graphics, text and sound effects.

Fast Track to ColdFusion Build and maintain dynamic and interactive web applications.

Performance-Based Objectives

Upon successful completion of this course, you will be able to:

- Access and use Web Services.
- Understand how to install and navigate in Flex Data Services as well as how to fully use its features and the Flex Proxy Service.
- Use Remote Object Services, focusing on ColdFusion components and Java classes.
- Validate data with Events and ActionScript, as well as format data.
- Work within the Flex Message Service, including publishing and receiving messages.
- Explore the use of Model Driven Development and LiveCycle Data Services 3.
- Leverage debugging tools in Flash Builder 4.





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Accessing Web Services

- Using web services
- Invoking web service methods and using the results
- Handling results using an event handler
- Handling faults
- Calling multiple methods from the same WebService object
- Passing parameters to web services
- Passing parameters to a web service explicitly
- Passing parameters to a web service using parameter binding

Using Remote Object Connections

- Introducing LCDS / BlazeDS
- Understanding the Remoting Service
- Handling RPC events
- Complex remote method calls
- Type conversion during data transfer between ActionScript and Java
- Managing RemoteObject events using AsyncToken
- Remoting Service Runtime Configuration

Managing Data on the Client

- Understanding collection classes
- Filtering data on the client
- Sorting data on the client
- Using the IViewCursor interface

Using the Message Service

- Introducing the message service
- Sending messages
- Receiving and processing messages
- Sending and receiving complex data

Using Flash Builder Development Tools

- Using logging
- Running the debugger
- Introducing the profiler
- Monitoring Flex RPC network traffic

Developing Applications using Model Driven Development

- Introducing model driven development using LCDS 3
- Creating and using the data model
- Adding properties to the model
- Using styles in a form
- Filtering returned data

Implementing Advanced Model Driven Development Techniques

- Creating conditional properties with variants
- Using resource bundles for localization
- Altering the form generator template
- Generating the server side Java