easel solutions

Flex 3 - Data and Communications

Flex 3 - 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 3: 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.
- Understand the XML structure as well as use the Tree Control and XML objects.
- Upload files to a server as well as send real-time messages between applications.

Flex 3 - Data and Communications

Introducing Flex 3
Understanding Rich Internet Applications
Introducing the Adobe Flex 3 Product Line
The Foundation of RIA
Understanding the Flex Application Process Flow

Accessing Web Services
Using Web Services
Invoking Web Service Methods and Using the Results
Consuming a Web Service
Handling Faults
Calling Multiple Methods from the Same WebService Object

Introduction to Flex Data Services
Introducing Flex Data Services
Installing Flex Data Service
Creating a Flex Application for use with Flex Data Services
Navigating the Flex Project Structure
Flex Data Services Features
The Flex Proxy Service

Using ColdFusion Components as Remote Object Services
Understanding Remote Object Services
Configuring ColdFusion, Flex Builder and Calling a Remote Object Service Method
Exchanging Data between ActionScript and ColdFusion

Using Java Classes as Remote Object Services
Understanding Remote Object Services
Calling a Remote Object Service Method
Handling PRC Events
Exchanging Data between ActionScript and Java

Validating and Formatting Data
Triggering Validation with Events
Triggering Validation with ActionScript
Using Regular Expressions
Formatting Data

Manipulation Complex Data
Understanding Collection Classes
Filtering Data
Creating a Data Sort
Using the IViewCursor Interface

Using the Flex Message Service
Introducing the Flex Message Service
Understanding Publish-Subscribe Messaging
Publishing Messages
Receiving and Processing Messages

Using the Flex Data Management Service
What is the Flex Data Management Service?
Data Management Service Architecture
Managing Pending Changes
Using Events
Advanced Data Management Service Features

Providing XML to Controls with E4X
Understanding XML Structure
Working with XML Data in ActionScript 3
Using the Tree Control
Using XML Objects

Uploading Files to a Server
Implementing File Transfer Basics
Enhancing the User Experience with FileReference Events
Understanding the FileReferenceList Class
Using the Data Management Service to Retrieve Photo Data
Send Real-time Messages between Applications