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## COGNOS 8 SDK FOR DEVELOPERS

**Cognos 8 SDK for Developers** is a three-day, instructor-led course designed to help accelerate development efforts, by introducing you to basic Web services concepts and technologies. This course will also help you learn how to customize and automate common Cognos 8 SDK tasks. These tasks include user authentication, single sign-on, report execution and maintenance, portal maintenance, and more. Hands-on workshops reinforce the concepts and features learned in each module and come complete with solution files. You will also see how to set up and test Cognos 8 sample custom authentication providers.

Workshops and solutions are provided in Java and C#.

### Web Services and Enabling Technologies

- Review XML Web services
- See how Cognos 8 makes use of Web services
- Examine Cognos 8's implementation of Simple Object Access Protocol (SOAP)
- Examine Cognos 8's implementation of Web Services Description Language (WSDL)

### Overview of the Cognos 8 SDK

- Examine the Cognos 8 SDK and its uses
- Examine design-time Web services consumption
- Examine the Cognos 8 object model
- Explore the online documentation

### Authenticate Using the SDK

- Examine authentication using the SDK
- Use the SOAP Trace Utility to troubleshoot errors
- Examine the use of CAMPassport IDs and single sign-on
- Examine CAMPassport ID retrieval from Cognos 8
- Set CAMPassport IDs using the SDK
- Examine the retrieval of available namespaces
- Use an XML DOM to traverse message content

### Retrieve Application Content

- Examine the use of search paths
- Examine the query() method
- Retrieve application content from Cognos 8
- Explore different object types
- Specify query options in your code

### Run Reports Using the SDK

- Examine the method signature required for Executing reports
- Examine the use of run options
- Examine the report execution conversation
- Run reports using the SDK and render them in various formats
- Run reports as XML specifications

### Update and Add Application Content

- Update objects
- Update multiple objects using a single method call
- Add new objects
- Specify multilingual properties on an object

### Pass Parameters to Reports

- Retrieve parameter names from a report
- Retrieve parameter values for a report
- Examine the creation of prompt controls
- Assemble parameter properties
- Pass parameter values to reports for execution

### End-to-End Workshop

- Batch update report specifications

## **Configure Cognos 8 Sample Custom Authentication Providers**

- Define the Cognos 8 Custom Authentication Provider application programming interface
- Locate the Cognos 8 Custom Authentication Provider documentation and samples
- Configure and test the Cognos 8 Custom Authentication Provider samples

## **INTENDED AUDIENCE**

This course is intended for developers who need to program using the Cognos 8 SDK for the purposes of customization and automation.

## **PREREQUISITES**

Practical experience with Object Oriented Programming (Java or C#) is required, and knowledge of XML and Web Services is highly recommended. This course also assumes a working knowledge of Cognos 8 BI - Framework Manager, Report Studio, Query Studio, Analysis Studio, and Cognos Connection. Knowledge on these topics can be found in the following courses:

- Cognos 8 BI - Metadata Modeling - Part 1 and Cognos 8 BI - Report Authoring - Part 1 and Cognos 8 BI - Ad Hoc Querying or Cognos 8 BI Authoring and Modeling FastTrack
- Cognos 8 BI Introduction to Analysis CBT

## **LET US HELP YOU**

We believe an effective training program reduces the time it takes for users to learn and adopt new technology and will lead to greater satisfaction overall. Whether you choose to attend public training, deliver your own training, or require customized training that reflects your business, let Cognos Training Services assist you in developing comprehensive and economical training plans to meet these needs. To learn more or find a Training Services contact near you, visit <http://support.cognos.com/training/>.



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