

CA IDMS Web Services v19: Introduction 100

Course Summary

Description

Web Services are a critical part of modern applications allowing new business services to work with existing systems and data assets. The beauty of tiered Web applications and architectures is that they enable developers to use standard tools and techniques to leverage different kinds of data and business logic, regardless of the hardware platform. Through CA IDMS Web Services Consumer and Provider services, customers can directly call a Web service from an IDMS application (CA IDMS Web Services Consumer) or have an IDMS application respond to a request from an external Web service (CA IDMS Web Services Provider). CA's modernization efforts allow customers to leverage CA IDMS's high-performance navigation in new applications without the use of low-level TCP/IP socket programming or third-party products.

In this course, students will learn about CA IDMS Web Services Consumer and CA IDMS Web Services Provider and the new functionality they offer.

Objectives

By the end of this course, students will be able:

- To explain what Web Services are
- To identify the architecture of Web Services for IDMS
- To explain the Web Services Consumer service, including:
 - Architecture
 - Configuration
 - Extensibility
- To explain the Web Services Provider service, including:
 - Architecture
 - Configuration
 - Extensibility
- To perform basic troubleshooting

Topics

- Introduction
- CA IDMS Web Services API
- CA IDMS Web Services Consumer
- CA IDMS Web Services Provider
- CA IDMS Web Services Demonstration
- Troubleshooting

Audience

This course is designed for:

- Application Administrator
- App Architects
- App Developer
- System Administrator
- Security Administrator

Prerequisite

General knowledge of:

- IDMS functionality and configuration
- COBOL
- XML

Duration

One and a half hours.

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Course Outline

- I. Introduction**
 - A. Define a web service
 - B. Define the differences between the CA IDMS Web Services Consumer and Provider
 - C. Explain what WSDL is
 - D. Describe the COBOL tools included with CA IDMS Web Services
 - E. Identify the available security options
- II. CA IDMS Web Services API**
 - A. Identify the various CA IDMS Web Services API functions
 - B. Learn how each CA IDMS Web Services API function works with the associated record layouts
 - C. Execute a CA IDMS Web Service API function
- III. CA IDMS Web Services Consumer**
 - A. Explain what the CA IDMS Web Services Consumer is and what it does
 - B. Explain the data flow within the Consumer Interface
 - C. Write a Consumer Service Program
 - D. Write an 'SQL Procedure' type Consumer Service Program
- IV. CA IDMS Web Services Provider**
 - A. Explain what CA IDMS Web Services Provider is and what it does
 - B. Explain the flow of control for external requests to your Web Services Provider
 - C. Configure the IDMSPROT template program to create your first Web Services Implementation
- V. CA IDMS Web Services Demonstration**
 - A. Explain the CA IDMS Web Services Demonstration Architecture
 - B. Identify the Demonstration Components
 - C. Configure & run the CA IDMS Web Services Demonstration
- VI. Troubleshooting**
 - A. Turn on different levels of program logging
 - B. Read and interpret Web services messages on your log
 - C. Explain SOAP faults