KOENIG step forward

Microsoft Solutions Partner
Microsoft Cloud Training Services

KOENIG SOLUTIONS · COURSE OUTLINE

Application Integration Framework in Microsoft Dynamics AX 2012

Learn to install, configure and develop with the Application Integration Framework in Microsoft Dynamics AX 2012.

7	30	12
MODULES	TOPICS	HANDS-ON LABS

COURSE OVERVIEW

This course covers the Application Integration Framework in Microsoft Dynamics AX 2012, starting with its core concepts, integrations and architecture, including topology and support for data model changes. It then covers installation, upgrade and administration, including batch setup, integration ports and adapters. Development concepts are addressed, covering service types, document, custom and system services, how AIF exchanges data, pipeline customization, the Business Operations Framework and security. Finally, it covers working with services through various adapters and protocols, along with monitoring, troubleshooting and logging.

WHO THIS COURSE IS FOR

AX Developers | **System Administrators** | **Integration Specialists** | **Technical Consultants**

LEARNING OBJECTIVES

- Explain core concepts and integrations of AIF
- Describe AIF architecture, topology and usability
- Configure services to use IIS and MSMQ
- Set up batch, integration ports and adapters
- Develop document, custom and system services
- Customise the AIF pipeline and apply security
- Call services using NetTcp, file and MSMQ adapters
- Identify methods for monitoring and troubleshooting AIF

COURSE SYLLABUS

7 Modules, 30 Topics

01

Introduction to Services and Application Integration Framework

TOPICS

Introduction · Concepts · Integrations

02

Architecture

TOPICS

High Level Features and Concepts · Topology · Usability · Support for Data Model Changes

03

2 Labs

Installation and Upgrade

TOPICS

Installation · Upgrade

04

Lab

Administration

TOPICS

Set Up Batch · Integration Ports · Adapters

05

3 Labs

Development Concepts

TOPICS

Service Types · Document Services · Custom Services · System Services · How AIF Exchanges Data · Customizing the AIF Pipeline · Business Operations Framework · Security

06

5 Labs

Working With Services

TOPICS

- Call an External Service
- Create and Call a Custom Service by Using a Basic Port
- Call a Document Service by Using NetTcp
- Call a Document Service with the File Adapter
- Create a Synchronous Document Exchange between BizTalk and AIF
- Exchange Documents by Using the MSMQ Adapter
- Call the Metadata Service
- Create and Deploy Outbound Exchange

07

Lab

Troubleshooting and Logging

TOPICS

Monitoring Services and AIF · Troubleshooting

HANDS-ON LABS

Practise What You Learn

#	MODULE	ACTIVITY
03	**Installation and Upgrade**	■ Lab 3.1 - Configure Services to Use IIS ■ Lab 3.2 - Install MSMQ
04	**Administration**	Lab 4.1 - Set Up Batch
05	**Development Concepts**	■ Lab 5.1 - Add Validation and Defaulting to a Web Service ■ Lab 5.2 - AIF Document Service Wizard ■ Lab 5.3 - Business Operations Framework
06	**Working With Services**	■ Lab 6.1 - Create and Call a Custom Service by Using a Basic Port ■ Lab 6.2 - Call a Document Service by Using NetTcp ■ Lab 6.3 - Call a Document Service with the File Adapter ■ Lab 6.4 - Call the User Session Service ■ Lab 6.5 - Create and Deploy an Outbound Exchange
07	**Troubleshooting and Logging**	Lab 7.1 - Debugging Services

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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