

# SAP Commerce Cloud Backoffice Framework Developer Training

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**Course Number: C4H365**

**Duration: 3 days**

## Overview

## Course Description

## Skills Gained

- This course will prepare you to:
  - Customize the Backoffice Framework by creating new widgets in the Backoffice Framework and orchestrating them
  - Understand how the widgets communicate in the Backoffice Framework
  - Create functionality for a widget with controllers, actions and editors
  - Understand how to test your widgets in the Backoffice Framework
  - Identify some additional information about the Backoffice Framework

## Who Can Benefit

- Developer
- Developer Consultant
- Solution Architect
- Technology Consultant

## Prerequisites

- Essential:
  - Basic knowledge of the SAP Commerce Cloud Type System and Administration Console
- Recommended:
  - C4H36e SAP Commerce Backoffice Framework Fundamentals Online Training (available in Learning Hub)
  - C4H340 SAP Commerce Cloud Developer Training Part 1
  - C4H341 SAP Commerce Cloud Developer Training Part 2
  - Excellent knowledge in Java J2EE concepts and patterns
  - Excellent knowledge of Spring Framework

## Course Content

- Introduction
  - (Exercise) Class Setup
- Backoffice Fundamental Recap
  - Backoffice Framework Fundamentals
  - Backoffice Configuration
  - Widgets, Actions & Editors
  - Cockpits/Perspectives
  - Application Orchestrator
  - (Exercise) Create a new Cockpit
- Development Environment
  - Environment Setup
  - Development Support
  - Training Labs Tool
  - (Exercise) Set up the Development Environment
- Orchestrate a Cockpit
  - Orchestration Overview
  - Step 1: Create a new Cockpit
  - Step 2: Add Widget Instances
  - Step 3: Connect the Widget instances
  - Orchestration Essentials
  - (Exercise) Orchestrate a Cockpit
- Widget Fundamentals
  - Creating a Widget
  - Creating the View
  - Creating the Controller
  - Accessing the Settings
  - Changing Widget Model
  - Backoffice Application Context
  - (Exercise) Create a new Widget
- Widget Communication
  - Socket IO
  - Adding Input Sockets
  - Adding Output Sockets

- Connecting Sockets
- Mapping View Events
- Trapping Global Events
- (Exercise) Connect your Widgets
- Widget Context Configuration
  - Backoffice Context
  - Context Configuration “ Data Types
  - Context Reuse & Merging
  - Orchestrate the Context
  - (Exercise) Configure the Context
- Actions & Editors
  - Introduction
  - Available Editors Gallery
  - Editors in Widgets
  - Creating an Editor
  - Available Actions Gallery
  - Actions in Widgets
  - Creating an Action
  - Editors & Actions Communication
  - (Exercise) Create Custom Editors & Actions
- Backoffice Testing Framework
  - Introduction
  - Unit Testing Widgets
  - Annotations
  - Widget Behavior Testing
  - Action & Editor Testing
  - (Exercise) Test your Widget
- Good to Know
  - Saved Queries
  - Home Dashboard & ZK Charts
  - Switching Perspectives
  - Authority Groups
  - Dynamic Forms
  - Localization
  - Styling Components

## Notes

- The course contains a set of exercises corresponding to each introduced course content. All the exercises can only be performed in a pre-configured SAP Virtual Machine (aka. SAP VM). Details about how to connect to the SAP VMs will be introduced on the first day of the course.

## Course based on software release

- SAP Commerce Cloud 2211