



The Supply Chain Company™

Summary

Solution Type:	PLAT
Industry:	General
Product(s):	i2 Infrastructure Services, i2 Supply Chain Planner; i2 Factory Planner; i2 SCM WebUI, Informatica PowerCenter
Target Audience:	Solution Architects / Technical Implementers (Super User / Application Engineer) Integration (Integration Specialist) Maintenance (Systems Expert /Customer Support)
Delivery Method:	Instructor-Led Training
Training Approach:	Lecture & Hands-on
Duration:	4 days
Version:	6.2

Description

This course will provide the student with a functional overview of the integration components and typical configuration for i2 Supply Chain Management (SCM) applications. You will be introduced to i2's Infrastructure Services (CIS) architecture and its various component parts, and you will explore the process of configuring, implementing and using i2 SCM applications under various deployment scenarios. Two of the most common i2 Solutions, Supply Chain Planner (SCP) and Factory Planner (FP), will be used to explain the process of deployment and configuration, with demonstrations and hands-on exercises. The i2 SCM WebUI configuration and functionality will also be covered. Finally, the student will be introduced to the i2 ETL tool, Informatica PowerCenter, which will be used to move bulk data into and out of the SCM environment. The PowerCenter tool will be used to create source and target schema definitions, and then define mappings from source to target, and finally to create workflows for execution of ETL data flows between the SCM environment and legacy systems. Students will have the opportunity to explore Informatica ETL functionality via a series of hands-on exercises that demonstrate the range of capability of the tool.

Content

This course is composed of the following modules:

Module 1: Overview of Integration Solution functionality and technical architecture

Module 2: Operational Data Store and the TmAPI Data Model

Module 3: Common Infrastructure Services components

Module 4: Integration Extract-Transform-Load (ETL) using Informatica PowerCenter

Prerequisites

- Basic PC knowledge and skills, including MS Windows™
- Practical understanding of Relational Databases
- Basic understanding of technical integration and business applications

Course Objectives

Upon the completion of this course, you will be able to:

- Understand the fundamentals of i2's Integration Solution functionality and technical architecture.
- Articulate the benefits of the Architecture in context of SCM application deployment.
- Describe the Infrastructure components and their functionality (CISAgent, Task Scheduler, Front Bus, Application Adapters, ODS, and Web UI) within the Integration environment.
- Describe the Common Infrastructure Services framework.
- Understand the touch-points for configuration of the environment for i2 SCM applications.
- Use the Task Scheduler to create and execute typical scheduled workflow tasks such as importing and exporting Data, bringing up applications, and executing planning functions.
- Understand the technology used in the i2 Common UI .
- Define the purpose and usage of ODS as a persistent data store within a planning cycle.
- Understand how to load ODS using various tools.
- Describe usage of i2 Front Bus Messaging to initiate workflow tasks.
- Understand the relationship between upstream and downstream applications in a typical project.
- Understand the components of Informatica PowerCenter and how it is used as the preferred ETL tool for mapping data from your ERP/Legacy systems to i2 ODS TMAPI format and vice versa.
- Develop hands-on skills in creating and maintaining PowerCenter source and target schema designs, the creation and maintenance of mappings, and the design of workflows to execute ETL processes which will move bulk data to and from the i2 SCM environment.

Day by day break-up

Day 1

- Understanding the SCM environment using a SCM workflow paper walk-through and exercise.
- Overview of i2 SCM Integration components and functionality.
- Describe the Common Infrastructure Services framework at a high level
- Define at a Functional level the components and tools within the Integration environment.
- Describe the changes and benefits of the new Architecture as compared to i2's earlier Architecture
- Define the i2UI Architecture i.e. the components usage and technology behind the i2UI.
- Understand the usage of ODS Services with hands-on exercises on Loader Service, Instance Filter Service, and User Area Service

Day 2

- Understand the usage of ODS Services with hands-on exercises on Loader Service, Instance Filter Service, and User Area Service (continued)

- Describe the Common Infrastructure Services framework in detail, focusing on the most commonly used features in an SCM implementation.
- Identify the critical touch-points for configuration of an SCM implementation including properties and XML configuration files which control system behavior and deployment locations.
- Explore the use of the Launcher tool and Python scripts to configure components and execute tasks.
- Define how to use Task Scheduler to schedule tasks like importing and exporting Data to applications and executing planning functions. Hands-on exercises on the same.
- Understand the purpose and functionality of the Infrastructure Services Manager tool.

Day 3 and Day 4

- Introduction to Informatica PowerCenter 7.1.2 as the preferred tool for i2 ETL.
- Understanding the components of the Informatica PowerCenter application, including the ETL Server, Repository Server, and Client tools. The configuration of these tools will be reviewed.
- Practice the creation and maintenance of source and target schema designs, including flat file, Excel, and relational database objects
- Practice the development of mappings between various sources and targets, including the use of complex transformations and business logic in the mapping designs.
- Understanding how to create and maintain workflows for executing the Extract-Transform-Load process to move data from legacy sources into ODS and back.
- Hands-on Exercises to provide experience in configuring and using the i2 ETL functionality, including the design and development of ETL processes as well as both the interactive and batch processing methods for execution.