

KPSA Cartridge Developer Workshop

BENEFITS

The Kabira KPSA product has been designed to be a configurable solution for provisioning and service activation problems and is supplied with a pre-built set of cartridges for communication with many network elements. Cartridges can be configured where the communication layer is of a known type. However in some cases, where the protocol for a network device is obscure and not covered by our product, an implementation team may need to develop their own.

This course is an advanced developer workshop which covers all aspects of Cartridge development and will enable students to create their own Cartridge Session Layers

Course Goals

- To give detailed technical instruction on how to develop custom cartridges based on Cart 3.0.
- To enable students to develop their own Cartridges in KPSA implementations.
- To test developed cartridges to ensure correct functionality
- To enable students to identify when each type of cartridge is most appropriate to an implementation

A Clear Path to Technical Excellence

KABIRA COURSE 330

Audience

- KPSA developers
- Professional Services consultants

Prerequisites

- KIS Developer program (ID 210) and Interfacing with Kabira (ID 215) or equivalent knowledge

Course Duration 2 days

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Course Objectives

On completion delegates will be able to:

- State the overall architecture of a Cartridge
- Detail the many configuration points of the Cartridge Framework, and explain what level of configuration is possible
- When confronted with a new cartridge request, decide which specific cartridge developments are required (if any)
- Develop a specific synchronous cartridge
- Explain what is an asynchronous cartridge and develop a simple example
- Develop a simple API based cartridge
- Explain the strategy and use of Cartridge framework test tools

Course Modules

Cartridge Architecture Review

- Explain what a Cartridge is
- State what are the architecture principles implemented by Cartridge
- Describe the 3 layers of the Cartridge architecture
- Describe what are the 4 objects in Cartridge Hierarchy
- Describe CartPool and what it offers
- Describe CartDyn and its use cases
- Draw the work flow of a Cartridge executing a Synchronous WO
- Draw the work flow of a Cartridge executing a Asynchronous WO
- Draw the work flow of a Failed Cartridge execution
- Find documentation to answer specific question on Cartridge

Cartridge Configuration

- State the specific parts of Cartridges that have been developed to allow configuration
- Give examples of configuration
- Define tst files to configure a CartPool and CartDyn based cartridge

Course Modules

Cartridge Test Framework

- Write TST files for testing a Cartridge
- Create CartSim WO files
- Configure a CartSim cartridge that tests data layer implementations
- Explain Kabira's recommendations on how to conduct Performance tests

API Based Cartridges

- Describe what a Session Layer is
- Explain what an API based cartridge is
- Write an API based session layer Serial Cartridge Session Layer
- List all available session layers available from Kabira
- Write a specific serial session layer

Asynchronous Cartridges

- Explain what an asynchronous cartridge is
- Draw the work flow of an asynchronous Cartridge execution
- Write an asynchronous handling in a session layer

Cartridge Requirements analysis

- Cartridge categories reviewed
- Cartridge Category utilisation
- Case study

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