

Kabira Provisioning and Service Activation Workshop

BENEFITS

This workshop gives detailed information and skills to those developers who are responsible for the implementation or modification of provisioning systems created using the Kabira Provisioning and Service Activation product (KPSA). Attending this workshop enables students to become useful, contributing members of an implementation team in as short a time as possible.

A short review of the underlying technologies studied in the 210 KIS Developers program and 215 Interfacing with Kabira is conducted and an investigation into the Kabira Streams technology is carried out.

The KPSA Architecture is introduced and the course investigates each individual area of the solution framework. Lab exercises are conducted on each area including Parsing, Flow Control, Enrichment through profiles and rules, Provisioning Logic Flow and Network Element Cartridges configuration.

A final complete system is reviewed to introduce students to the complexities of a real implementation.

Course Goals

- To enable students to create new or maintain existing KPSA implementations

A Clear Path to Technical Excellence

KABIRA COURSE 315

Audience

- Provisioning and Service activation developers
- Kabira Infrastructure Switch Developers
- Kabira Infrastructure Switch Architects

Prerequisites

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

Course Duration 5 days

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Course Objectives

On completion students will be able to:

- Describe the typical types of problem KPSA was designed to resolve
- Describe the typical types of problem KPSA was designed to resolve
- Explain the architecture of the KPSA system
- Configure, deploy and maintain KPSA applications
- Create, configure, deploy and maintain KPSA Client Adapters including parsers
- Carry out configuration of CPS/CPR through web based screens and text files
- Create new Routing services
- Create new data mapping services
- Create, configure, deploy and maintain KPSA Cartridges
- Configure and use administrative tools to monitor and maintain a KPSA application

MAJOR TOPICS

Architecture

- Describe the characteristics of provisioning and service activation software
- Describe the general features of KPSA
- State and explain the purpose of the 5 general areas of KPSA
- Describe the internal architecture of KPSA and the meaning of each TLA
- State the structure of a Service Order and explain its lifecycle through KPSA
- State the points where KPSA may be configured for a specific implementation
- Describe the purpose of a cartridge and how one may be configured
- Describe the structure of the standard "provadmin" command line tool for managing KPSA.

Streams

- State the areas of KPSA where Kabira Streams are used
- State and describe the four main Streams elements and how they are used
- Describe an example Streams pattern for KPSA
- Describe how to model Streams for KPSA
- Describe how to configure Streams for KPSA
- Describe how to deploy Streams for KPSA

Describe how to configure Streams for KPSA

- Describe how to deploy Streams for KPSA

MAJOR TOPICS

Custom Modules

- Create new custom message types
- Create custom modules including
 - Custom driver modules
 - Custom parser modules
 - High performance modules

Create a new KPSA Parser

- Create Service Order structures

Client Side Adapters

- State and describe the functions of a client side flow
- Configure the standard modules of a client side flow
- Describe how a client side flow manages communication with service management applications
- State and describe the functions of a pre-processor flow
- Configure the standard modules of a pre-processor flow

KPSA Modules

- Describe standard modules used in a provisioning flow including:
 - Checkpoints
 - Queues

GuardEval and CommandEval Scripting

At the end of this module you will be able to:

- Use GuardEval in POF, WOF guards, KOP
- Use CommandEval in TRN scripts
- Use CommandEval in configurable datamapper

SOP/KOP

- Explain the structural components of Service Order Provisioning
- Describe the Data structures implemented in CPS/CPR to support product order enrichment.
- Use the Web interface to make configuration changes to the CPS/CPR.

MAJOR TOPICS

Service Framework and Routing

- Understand the benefits of using KPSA services
- Describe the configuration and usage of KPSA services
- Event services
- Pool service
- Name service
- Config service
- File writer service

POP

- State the purpose of the Product Order Processor module
- Describe actions executed by POP
- Integrate POP into a provisioning flow

Event Dictionary

- Describe the Event Dictionary purpose
- Find the events that may be published by a component
- Define an event dictionary for a custom component
- Publish and subscribe events from custom code
- Write enrichment files
- Configure filter mechanism

Cartridge Administration

- Describe the purpose of Cartridges
- Describe components of a Cartridge
- Describe the structure of a Cartridge hierarchy
- Configure and deploy each component of a Cartridge
- Monitor and manage a Cartridge

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