



*Learn how to
develop OCAP
applications from
Vidiom's OCAP
experts.*

The OpenCable Application Platform (OCAP™) defines a unified, Java-based, application platform for interactive content, services and games that can be deployed across multiple networks and devices. As cable operators begin their OCAP deployments, they will need compelling applications to demonstrate the power of the platform. OCAP provides exciting opportunities for MSOs, content providers and advertisers who are looking for new ways to increase their revenues and differentiate themselves in the market. Now is the time for Java developers to enhance their skills and learn how to develop OCAP applications.

OCAP Application Developers Workshop

Vidiom's OCAP Developer's Workshop is the cable industry's only comprehensive, lab-based course designed for experienced Java developers who are focused on building and optimizing OCAP applications for resource-constrained devices and displays. This course teaches you the principles of OCAP application development and shows you how to implement solutions to common OCAP application development problems including graphics rendering, application delivery and client/server communications. The OCAP Developers Workshop provides the OCAP programming skills and best practices you will need to develop compelling interactive applications.

Attendee Requirements

Due to the pace of this course, Vidiom requires that you have 2+ years of Java programming experience. It is also helpful if you are familiar with cable systems and iTV applications. Knowledge of OCAP is helpful but not required.

Where

All training courses are held at Vidiom's state-of-the-art Training Center in Broomfield, Colorado.

Registration

Please visit www.vidiom.com to view the latest course schedule and to register for the course. If you have questions, you can contact Vidiom Training at training@vidiom.com.

Course Format and Materials

The workshop combines classroom-style lectures with a series of hands-on lab exercises to teach you how to develop OCAP applications. Vidiom will provide you with a workbook that includes the course slides and your own workstation for use during the course to complete the lab exercises. Each lab station includes a PC with the latest developer tools, a set-top box and connectivity to our OCAP headends. During this workshop, you will learn about the following:

- OCAP application design and best practices
- How to develop applications using the OCAP and supported APIs
- How OCAP applications interact with a cable network
- How to use the latest OCAP developer tools, simulators, and developer set-top boxes
- How to troubleshoot OCAP applications

Cost

This 5-day course is \$5,000 per person. Refreshments and lunch are provided.

The Vidiom Advantage

Vidiom Systems, Inc. is a leading provider of standards-based iTV solutions and services to the cable, consumer electronics and content industries. Our expertise includes software engineering, platform porting, application development, integration and deployment, testing, technical writing and training. We have years of experience with tru2way, ETV, OCAP and IPTV and can design, build and deploy your solution for interactive television. Founded in 1997, Vidiom Systems is headquartered in Broomfield, Colorado, and has additional engineering offices in Portland, Oregon, and Des Moines, Iowa. Vidiom Systems is a member of the ADB Group of companies (www.adbholdings.com).

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Course Topics



OCAP Applications

Discusses OCAP Applications and their lifecycles, including:

- Virtual machine and classloading
- The Xlet interface and lifecycle
- Application security and authentication
- Using the XletContext
- Design and Optimization strategies
- Lab: Creating an Xlet

Application Deployment & Delivery

Discusses Deployment and Delivery of OCAP Applications, including:

- Bound and unbound applications
- Native and resident applications
- Application signaling and delivery
- Security
- Lab: Loading applications on a set-top box

Graphics, Fonts and Components

Discusses graphical elements and UI components of applications as well as design and display strategies, including:

- Developing graphics for television
- Graphics models and planes
- Colors and alpha blending
- Font management
- Animation
- Supported AWT and HAVi APIs
- Lightweight and Heavyweight Components
- Trade-offs and Considerations
- Lab: HAVi & Custom Components

Events

Discusses event models and event delivery within an OCAP system, including:

- AWT and DVB event models
- OCAP-defined Events
- Monitor application event filtering
- OCAP keycodes
- Event delivery and prioritization
- Lab: AWT and DVB event models

Services

Discusses Service-related APIs, including:

- JavaTV and OCAP Service APIs
- Locators and Service selection
- Service contexts
- Service components
- Abstract services
- Lab: Selecting services

Media

Introduces JMF and DVB-MHP/OCAP Media Extensions, including:

- JMF and MHP/OCAP Media APIs
- Content formats
- Media locators
- Transforming and positioning media
- Lab: Resizing and positioning media

Monitor Application

Discusses the roles and features of the Monitor Application, including:

- Monitor application permissions
- Monitor application functionality
- Resource contention management
- Lab: Resource contention

Files and Persistent Storage

Introduces the java.io package, Object Carousel access and persistent storage, including:

- Application storage
- Using object carousels
- The java.io package
- Optimizing resource delivery
- Persistent storage and permissions
- Lab: Writing to persistent storage

Application Communication & Control

Introduces IXC and Application Control, including:

- The walled garden approach
- RMI and IXC
- Security and Permissions for IXC
- Application lifecycle control
- Lab: Launching applications

Networking

Introduces the java.net package and its use in OCAP, including:

- The java.net package
- Differences from MHP
- Establishing an HTTP connection
- Lab: Building an interactive poll application

Testing and Certification

Discusses Testing and Certification, including:

- CableLabs Certification Overview
- Emerging application test strategies



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