

# MicroStrategy Education™

## 10.531 Advanced SDK for Enterprise Security

### Course description

Customize your applications to incorporate Usher's security features using Usher's API. Learn about Physical Access Control Systems (PACS) and leverage this type of system in common implementations. Explore beacons and how they can be deployed in your enterprise. Discover how PACS and beacons are combined for better integration with your applications and security structure. Learn to build a virtual dashboard that responds to your presence. Provides advanced customization techniques, including coding examples.

### Skills you gain

- QR authentication workflow
- OpenSSL to generate security certificates
- JavaScript, basic HTML, and CSS
- Implement a custom PACS adaptor and the Usher PACS API
- Use JSON file format
- Install and configure a basic MySQL setup
- Create basic databases using SQL scripts
- Use the MySQL database
- Configure beacons and associate with PACS

### MicroStrategy products covered

- MicroStrategy SDK
- MicroStrategy Usher

### Right for you if

You are an advanced SDK developer who wants to use Usher to its fullest potential

### Best class experience if you have

10.111 Overview of Enterprise Analytics

10.131 Overview of Enterprise Security

10.231 SDK for Customizing

Enterprise Security Java experience

Two mobile devices (phone and tablet, iOS or Android)

### Topics

1. Introduction and overview of Usher SDK
  - Overview of Usher SDK
  - Usher platform architecture overview
2. Usherizing custom applications
  - QR code authentication workflow
  - Customizing authentication using Usher
  - Application flow
3. Usherizing a Physical Access Control System (PACS)
  - Custom PACS adapter for Usher
  - Physical access key
  - Building a PACS adapter
  - Usher PACS API
  - Walk-through: Implementing a custom PACS
  - Walk-through: Using a more robust PACS: UsherPACS
  - Categorizing the resources that are integrated with Usher
4. Usherizing beacons
  - Beacons
  - Using beacons with PACS
5. Custom applications for beacons
  - The vision
  - Base project
  - Tweaking the base project
  - Challenges