

# Java SIM Card Administration

## Objectives:

At the end of this course you will:

- ✦ Understand JavaCard, 23.048 and Global Platform specifications,
- ✦ Understand the STK applet development process,
- ✦ Manage the JavaCard based SIM Cards and the associated security

## Key Topics:

- ✦ Applet
- ✦ Java Card Virtual Machine
- ✦ Over the Air security
- ✦ Remote File Management
- ✦ Remote Applet Management
- ✦ Secure Channel

## Who should attend:

- ✦ Project managers
- ✦ SIM manager
- ✦ Development staff

## Each training session consists of:

- ✦ A complete course manual
- ✦ Practical exercises



Creating new services has until now required long development cycles and proprietary implementation. Using Java Card based SIM cards and Gemalto SIM Administration & Simulation Tools, based on the latest GSM standards, you can now work in-house, and transform ideas into applications in a matter of days.

This training course will allow you to rapidly get to know the main features of these products and begin managing and testing your own applications

## Pre-requisites:

- ✦ This course requires participants to have a basic knowledge of the following technologies:
  - ✦ - a basic knowledge of the GSM standards 11.11, 11.14 (SIM Toolkit), 03.48.
  - ✦ - It is strongly recommended that you follow the “SIM, STK & OTA Basics” course before attending this course
- ✦ This course is held in English

**Duration:** 2 Days

## Course fee:

Please refer to regional schedules on [www.gemalto.com/training](http://www.gemalto.com/training) or contact us: <http://www.gemalto.com/training/contact.html>

## Location:

Gemalto Training Centers  
For on-site training, please contact us.



**Course Schedule:**

Day 1	Practice
<p>Trainees registration and training overview</p> <p>Introduction                      Gemalto offer</p> <ul style="list-style-type: none"> <li>✦ SIM card architecture</li> <li>✦ Applet development</li> <li>✦ Software development</li> </ul> <p>Javacard based smart card</p> <ul style="list-style-type: none"> <li>✦ Introduction</li> <li>✦ Architecture</li> <li>✦ Applet management</li> <li>✦ Security</li> <li>✦ JavaCard Based SIM Card</li> </ul>	<p>Follow applet process development, from a java file to an applet in the card</p>

Day 2	Practice
<p>STK and Javacard based SIM card</p> <ul style="list-style-type: none"> <li>✦ STK reminder</li> <li>✦ GSM application</li> <li>✦ Event management,</li> <li>✦ Proactive commands</li> </ul> <p>Remote Management</p> <ul style="list-style-type: none"> <li>✦ General Card Architecture</li> <li>✦ RAM, RFM, CM, Security Domain</li> </ul> <p>Management commands (23.048 &amp; GP)</p>	<p>Test a basic STK applet.                      Test applet with different STK Events</p> <p>Manage secure applet downloading: personalise the security of your OTA message /Java SIM Card.</p> <p>Simulate the OTA communication chain, from the Server to the card</p>

**Related Courses:**

<b>SIM, STK &amp; OTA                      Basic                      (T1001I)</b>	<b>Java SIM Card                      Administration                      (T1006A)</b>	<b>Java SIM Applet                      Dev (T1007D)</b>
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