

# Java SIM Card Administration

Understand how interoperable VAS applications are securely managed in Java SIM



Today, the majority of SIM cards benefit from Java Card open operating systems, allowing **interoperability of VAS toolkit services**. Secure installation of these applications following the Global Platform model, can initially seem a complex process.

This training course will allow you to rapidly get to know the main features of these products, their specifications, and the **installation process**, to easily manage, test & **deploy your own VAS applications**



## At the end of the training you will

- > Understand JavaCard, 23.048 and Global Platform specifications
- > Understand the interoperable STK applet development process
- > Be able to manage JavaCard based SIM Cards and their associated security to deploy & test your own VAS applications

## Who should attend

- > SIM Manager
- > VAS Manager
- > Handset Validation Team
- > Project Manager
- > Developer Staff
- > ...

### Pre-requisites:

- > It is strongly recommended that you follow the "SIM, STK & OTA Basics" course before attending this course

This course is held in English

## Key topics

- > Applet
- > Java Card Virtual Machine
- > Over the Air security
- > Toolkit Installation parameters
- > Remote File Management
- > Remote Applet Management
- > Minimum Security Level
- > Secure Channel

# Course Schedule



Day 1	Practice
<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>&gt; Java Card architecture</li> <li>&gt; Java SIM card architecture</li> <li>&gt; Applet development process</li> </ul> <p><b>JavaCard based smart card</b></p> <ul style="list-style-type: none"> <li>&gt; Introduction</li> <li>&gt; Architecture</li> <li>&gt; Applet management</li> <li>&gt; INSTALL(LOAD), LOAD, INSTALL(INSTALL) Commands</li> </ul>	<p>Follow applet process development, from a java file to an applet in the card</p>

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

