



Advanced Java USIM Applet Development

Learn how to design, develop, optimize & validate real VAS Toolkit applications

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

This training course will allow you to benefit from Gemalto's wide experience in designing and deploying applications on the field, and rapidly begin developing and validating your own services.

At the end of the training you will:

- > Be able to design, write & validate 'interoperable' STK applets.
- > Understand the constraints of designing applications in Java for a smart card
- > Be able to optimize your source code to gain in time and speed and robustness
- > Understand Integration & Test Plans process before large scale deployment.

Who should attend?

- > Development Staff

Pre-requisites:

- > GSM standards 11.11, 11.14 (SIM Toolkit), 23.048.
- > A working knowledge of object-oriented programming.
- > It is strongly recommended that you follow the "Java SIM Card Administration" course before attending this course

This course is held in English



PROGRAM

Development guidelines

- > Constraints of smart card environment
- > Optimisation of code in size and speed
- > Advanced Debugging techniques
- > Practicals:
 - o Optimize your applet code.

Dummy project

- > The scope of this dummy project is to focus on the 43.019 API (java framework and SIM toolkit commands)
- > Starting from a Functional Requirement Specifications
- > Development of the application
- > Debugging using Developer Suite tool
- > Practicals:
 - o Development of the application
 - o Debugging using Developer Suite tool & advanced techniques (Also Universal Tracer tool)

Introduction to validation method for SIM card

- > How to build a Test Policy Plan

Integration Test Method for SIM Toolkit application

- > How to build an Integration Test Plan
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