

USIM in 3G Networks

Objectives:

At the end of this course you will:

- ✦ Understand the basic technologies, features and standards for 3G systems.
- ✦ Understand the functionality of the USIM and difference with 2G cards.
- ✦ Manage the contents of the card, simulate 3G authentication and design advanced phonebooks

Key Topics:

- ✦ USIM
- ✦ UICC
- ✦ USAT
- ✦ CAT
- ✦ OTA
- ✦ Authentication, Milenage Algorithm
- ✦ GSM/3G INTERWORKING
- ✦ 3GPP & ETSI-SCP

Who should attend:

- ✦ Project Managers
- ✦ IT Managers
- ✦ System Implementers
- ✦ Development Staff



Since 3G is expected to become the dominant mode of communication system within the next couple of years, the USIM (Universal Subscriber Identity Module) implemented on the Gemalto 3G cards can be your passport to 3G networks.

This training allows you to understand and begin working on the USIM smart card application.

Each training session consists of:

- ✦ A complete course manual
- ✦ Practical exercises

Pre-requisites:

- ✦ This course requires participants to have a basic knowledge of the following technologies:
 - GSM SIM cards
 - GSM 11.11 & 11.14 standards
- ✦ This course is held in English

Duration: 2 Days

Course fee:

Please refer to regional schedules on 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
Trainees registration and training overview Introduction to 3G <ul style="list-style-type: none"> + Evolution of mobile communication systems + Key points of 3G cellular System 3G Standards <ul style="list-style-type: none"> + 3G Standards Organisations + 3G Standards Documents Understanding 3G Cards (Part 1) <ul style="list-style-type: none"> + UICC the 3G Card platform + Physical, Elec. & trans. protocols Char. + File System + Commands + Access conditions 	ADMIN & SIMu 3G Software Getting started GSM/3G file browsing Access conditions assignment File Creation

Day 2	Practice
Understanding 3G Cards (Part 2) <ul style="list-style-type: none"> + USIM the 3G Application + Security Features + Authentication & Key Agreement (AKA) + The 3G phonebook + USAT (basics) + OTA (basics) + 3G/GSM interworking Introduction to migration path to 3G Questions & Answers session	3G milenage AKA Simulation 3G phonebook design with e-mail, groups, etc.

Related Courses:

SIM, STK & OTA Basics (T1001I)	USIM in 3G networks (T1002I)	JAVA 3G Card Administration (T1007A)	JAVA SIM Applet Development (T1007D)
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