

UICC Training for CDMA Operators

Ready for LTE Migration



This course focuses on technical aspects of **UICC cards** and how they work in **LTE environment**. It describes what a UICC card is, what **type of services** it can bring to network operators & their subscribers. It will **provide the necessary knowledge** to people from Services development, infrastructure, product marketing and R&D teams, who need technical initiation on UICC-related technology to assist them with their projects



At the end of the training you will

- > Understand what UICC smart card brings to wireless network operator & subscriber
- > Understand UICC standards organization & documentation
- > Have an overview on the role of the different applications in the UICC architecture
- > Understand security related mechanism for data & network access
- > Have an overview of the toolkit "CAT" concepts for Value-Added-Services (VAS)
- > Be able to proficient to use Gemalto's Card Admin to manage UICC cards

Who should attend

- > Anyone from service development, infrastructure, product marketing, R&D teams who needs technical initiation on UICC related technology

Pre-requisites:

- > No specific pre-requisites for this course

This course is held in English

Key topics

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| <ul style="list-style-type: none"> > LTE > UICC > STK/CAT/USAT/CCA > 3GPP Release 8 and ETSI standards | <ul style="list-style-type: none"> > SIM/USIM/CSIM/ISIM > Security > OTA > Authentication |
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Course Schedule



Day 1

Practice

<p>What is a UICC?</p> <ul style="list-style-type: none"> > Under the “hood” > A proven technology <p>What is it for?</p> <ul style="list-style-type: none"> > Identity – Security - Services <p>Understanding 3GPP Standards</p> <ul style="list-style-type: none"> > 3G Standards Organizations > 3G Standards Release 8 Documents <p>UICC Card Basics</p> <ul style="list-style-type: none"> > Role of UICC card & Standards UICC architecture & Manufacturing process > UICC Files and Access Conditions > PIN codes > UICC command summary > The 3G Phonebook 	<p>GSM/3G file browsing</p> <p>Access conditions assignment</p> <p>File Creation</p>
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Day 2

Practice

<p>USIM/CSIM/ISIM Basics</p> <ul style="list-style-type: none"> > USIM functionalities > CSIM functionalities > ISIM functionalities <p>Network Authentication</p> <ul style="list-style-type: none"> > Milenage Algorithm > 2G/3G interworking > LTE Authentication <p>RUIM/CSIM</p> <ul style="list-style-type: none"> > File structure <p>UICC CAT & Value Added Services Overview</p> <ul style="list-style-type: none"> > Introduction to UICC Application Toolkit & standards > Toolkit “CAT” concepts > Proactive & Event Commands > CAT Protocol > CCAT for CSIM 	<p>3G milenage AKA Simulation</p> <p>ADMIN & SIMulation Software STK application loading & testing with ADMIN & SIM software</p>
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Day 3

Practice

<p>OTA Introduction</p> <ul style="list-style-type: none"> > “Enhanced Short Messages” – GSM 23.048 > “Enhanced SMS journey” for SIM cards > Security features <p>OTA over HTTP</p> <ul style="list-style-type: none"> > TLS key usage > RFM > RAM <p>Questions & Answers session</p>	<p>Mobile & network acknowledgement</p> <p>OTA testing using SIMu tools: Downloading securely GSM data Over-The-Air</p>
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