

# USIM in 3G Networks

You passport to 3G



The **3G network** features a wider range of services and advances network capacity over the previous 2G network.

The **USIM** (Universal Subscriber Identity Module) implemented on the Gemalto 3G cards can therefore be your passport to 3G

For a complete understanding of the USIM card, this training can be completed by the 2 days 'Java 3G Card Administration' training.



## At the end of the training 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 content of the card, and discover the new file structure & security
- > Simulate a 3G card network authentication and design advanced phonebooks

## Who should attend

- > SIM managers
- > Project Managers
- > IT Managers
- > System Implementers
- > Development Staff

### Pre-requisites:

- > GSM SIM cards
- > GSM 11.11 & 11.14 standards

This course is held in English

## Key topics

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| <ul style="list-style-type: none"> <li>&gt; USIM</li> <li>&gt; UICC</li> <li>&gt; USAT</li> <li>&gt; CAT</li> </ul> | <ul style="list-style-type: none"> <li>&gt; OTA</li> <li>&gt; Mutual Authentication, Milenage Algorithm</li> <li>&gt; GSM/3G interworking</li> <li>&gt; 3GPP &amp; ETSI-SCP</li> </ul> |
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# Course Schedule



Day 1	Practice
<p><b>Trainees registration and training overview</b></p> <p><b>Introduction to 3G</b></p> <ul style="list-style-type: none"> <li>&gt; Evolution of mobile communication systems</li> <li>&gt; Key points of 3G cellular System</li> </ul> <p><b>3G Standards</b></p> <ul style="list-style-type: none"> <li>&gt; 3G Standards Organisations</li> <li>&gt; 3G Standards Documents</li> <li>&gt; Architecture of the USIM card</li> </ul> <p><b>The UICC (Universal integrated Circuit Card)</b></p> <ul style="list-style-type: none"> <li>&gt; UICC the 3G Card platform</li> <li>&gt; Physical, Elec. &amp; trans. protocols Char.</li> <li>&gt; File System</li> <li>&gt; Commands</li> <li>&gt; New Access conditions (ARR files)</li> </ul>	<p>ADMIN &amp; SIMu 3G Software</p> <p>GSM/3G file browsing</p> <p>Access conditions assignment</p> <p>File Creation</p>

Day 2	Practice
<p><b>The USIM</b></p> <ul style="list-style-type: none"> <li>&gt; USIM the 3G Application</li> <li>&gt; Security Features</li> <li>&gt; Authentication &amp; Key Agreement (AKA)</li> <li>&gt; The 3G phonebook</li> <li>&gt; USAT (basics)</li> <li>&gt; OTA (basics)</li> <li>&gt; 3G/GSM interworking</li> </ul> <p><b>Introduction to migration path to 3G</b></p>	<p>3G milenage / AKA Simulation</p> <p>3G phonebook design with e-mail, groups, etc.</p>

