



eSIM and USIM Course

Explore the fundamental role of SIM cards (Subscriber Identity Module) within 2G, 3G, 4G, and 5G systems through this concise course. Delve into the physical attributes of SIM cards and gain a comprehensive understanding of their associated file structures, with a particular emphasis on USIM files. The course also delves into the incorporation of new parameters in 4G and 5G systems. Additionally, it examines the functionalities of USAT (USIM Application Toolkit) and CAT (Card Application Toolkit). Concluding the exploration, the course shifts focus to eSIMs (Embedded SIMs) and delves into the GSMA M2M (Machine to Machine) and Consumer models, particularly in the context of Remote SIM Provisioning.

Audience

Knowledge on Mobile Technology

Content of the Training:

1) Evolution of SIM Cards:

- SIMs in Mobile Networks.
- UICC Standards and Card Evolution.
- Dual SIM Cards.

2) UICC / USIM Structure:

- UICC Logical Structure.
- UICC Physical Contacts.
- Communication with the UICC Card.

3) SIM / USIM File Structure and Application:

- UICC File Types and Application Structure.
- Elementary File Types.

4) USIM and ISIM:

- 3GPP Dedicated File Applications.
- USIM Application.
- ISIM Application.

5) USIM Security:

- SIM PIN.
- SIM Lock.
- 3GPP Security.
- Security Aspects of File Types.

6) USIM Application Toolkits:

- Application Toolkits.
- USAT Features.

7) eSIM:

- What is an eSIM?
- eSIM Solutions.
- eSIM Remote Provisioning.
- eSIM M2M Solution Architecture