



Understanding Trusted Execution Environment (TEE)

Everything you need to know about TEE for deploying secure mobile services

Convenient & user-friendly mobile device services & applications are hugely deployed. Thanks to the enhanced **security offered by the Trusted Execution Environment** many additional opportunities are open to service providers.

This course will allow you to easily understand the **main standards, technologies, features & security** around this ecosystem

At the end of the training you will:

- > Understand the main concepts, use-cases & standards for Trusted Execution Environment (TEE)
- > Be able to describe the main security features of TEE
- > Understand TEE's functional architecture & APIs for interfacing
- > Have a clear overview on TEE implementation based on a real example, including a demo
- > Understand how TEE solutions can be combined with Secure Elements
- > Be able to describe how TEE life cycle may be remotely managed with Trusted Service Management (TSM) solution

Who should attend?

All people involved in Mobile Services project:

- > Marketing Managers
- > Project Managers
- > Technical team
- > VAS Manager
- > Operational Team
- > Security Managers
- > ...

Pre-requisites:

- > No specific pre-requisites for this course
This course is held in English



PROGRAM

Introduction to Trusted Execution Environment (TEE) & Standards

- > TEE overview
 - Concepts & History
 - Ecosystem
 - Solutions & Use Cases
- > GlobalPlatform (GP) standards

Security Essentials of TEE

- > Global TEE Architecture
 - HW/SW separation of REE/TEE
 - Secure boot
- > Intrinsic TEE security features
 - ARM TrustZone
 - Monitor mode
 - Memory/process isolation
- > Security evaluation and certification
 - GlobalPlatform, Common Criteria

Functional Architecture & Interfaces

- > System Architecture overview
- > Services and APIs
- > Client API
- > Internal Core API
- > Trusted User Interface
- > Remote Administration

- > SE Access API Socket API
- > Debug API

Actors and competing technologies

- > TEE products
- > Intel SGX
- > Secure Elements

TSM for TEE Ecosystem

- > Architecture
- > Service Provider Agent
- > Administration of services

TEE Use Case Demonstration

- > Use Case overview
 - Features and Design
 - Workflow
- > Live demo

