



Secure transactions - STIP training

Understanding the GPD/STIP environment

The GPD/STIP standard (Global Platform Device) has become a must for the development of secure services (financial transactions, DRM, electronic signature, ...) on mobile and professional devices such as mobile phones, EFTPOS and intelligent card readers.

Trusted Logic is the recognized leader in GPD/STIP and a proven security expert. Trusted Logic is the best company to provide STIP training.

The course is supported by Trusted Labs, a Trusted Logic subsidiary dedicated to services and security certification.

Course objectives

The STIP training helps you get familiar with the GPD/STIP standard and understand its benefits. The second part of the training is a good starting point for the development of secure applications using the GPD/STIP standard.

Agenda

1. Introduction to secure terminals and embedded development
Definitions, uses of embedded systems & terminals, the need for security (use cases).
Specific issues & constraints: performance, memory, size, cost ...
2. Main standards of the embedded world
Presentation, history, role and comparison of GP, GPD/STIP, MIDP, PKCS#11
(what they are meant for, main differences & interactions ...).
3. GPD/STIP Architecture: API's, design and development model
How STIP works, the different API layers, what security it provides.
Detailing GPD/STIP profiles: EFT-POS, Mobile, small secure transaction devices, ...
DASM (STIP application management)
4. Design, write and test a STIPlet
Detailed presentation of the APIs.
Asynchronous programming & tricks: state machines, listeners, ...
STIP enhancements:
Communication between client and STIPlet: the BEF API.
STIPlet management API: installing / removing a STIPlet.
Tools to develop a STIPlet: setting up the environment (Trusted Logic's simulator, JEFFC compiler, verification tools, ...).
5. Lab:
Write a STIPlet, generate the JEFF, run it on TL's simulator.

Attendee profile and duration

Day 1: parts 1, 2, and 3 have been designed for a general audience: Developers, Business Managers, Marketing Managers.
Day 2 & 3: parts 4 and 5 are more technical and provide the basic knowledge for developers to start generating STIPlets.

Training agenda can be adapted to customer specific needs, especially regarding the three main GPD/STIP profiles.

The course can be organized either at Trusted Labs' premises (Versailles or Sophia Antipolis, France), or in customer's premises.

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Trusted Labs
Thinking up your security

