Card personalization is one of the major components in the production of the EMV cards. Numerous methods of personalization with proprietary commands exist for each card or application. EMVCo developed a new standard for EMV personalization aimed to reduce the cost of issuing and to facilitate the migration to chip.

Objectives

At the end of the training, you will:

- Be familiar with the scope of the standardization: standard security, standard command, standard record format
- Be able to understand the data preparation interface and the personalization device interface
- Have a clear view of the implementation: secure channel protocol
- Be able to understand the advantages and the drawbacks of the standardization for each actor of the EMV migration: card vendor, issuer, perso bureau, perso solution provider

Key topics

- Data Grouping
- INITIALIZATE, UPDATE & EXTERNAL AUTHENTICATE
- STORE DATA
- Cryptographic scheme and impacts (SCP 02)

Who should attend

Technical people who are involved in the EMV migration such as:

- Security managers
- Personalization project managers (logical & physical)
- Operations & IT managers
- Banking Product managers

Each session consists of

- A complete course manual

Pre-requisites

- Knowledge of EMV. It is recommended to have followed the “Mastering EMV Implementation” seminar or equivalent.
- Technical knowledge on smart cards and on smart card personalization process
- This course is held in English. On customer request a session in French can be organized.

Duration: 1/2 day

Location: Gemalto premises

Course fee: € 499 per person

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1 All training courses can be held on-site at customer premises, or at one of the Gemalto training centers. Please contact us for more details.
2 Price does not include any taxes


Course schedule
When performed at customer premises, the agenda is tailored to customer attendance profile. The standard agenda is provided below:

<table>
<thead>
<tr>
<th>AGENDA</th>
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<tbody>
<tr>
<td><strong>Welcome and training overview</strong></td>
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</table>

**Introduction**
- EMV Personalization Situation
- CPS Objectives
- CPS Scope
- Standardization
- Specification Evolution

**Data Preparation Interface**
- Process
- DGI
- Processing Steps and instructions
- Log Data

**Personalization Device Interface**
- Processing Flow message
- INITIALIZE UPDATE
- Key Management
- Cryptographic Scheme and Impacts

**Implementation**
- Belief – Remarks
- Implementation of EMV CPS
- Focus on SCP 01 & 02
- SCP 02 implementation : 2 examples
- Pseudo Random

**Impacts of CPS on Issuer, Service Bureau and Card Manufacturer**

**Related courses**
- EMV Business Impacts (B1001l)
- Mastering EMV Implementation (B1002l)
- EMV Migration for Issuers (B1003S)
- EMV Migration for Personalization Bureau (B1005S)
- EMV Card Personalization Specification (B1007S)

For further information about registration, course schedule: please contact us via email to: banking.training@gemalto.com or visit our web site: http://www.gemalto.com/

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THALES