THALES
Building a future we can all trust

EMV Card Personalization Specification (CPS)

Banking & Payment Services

ADVANCED COURSES
Course Reference: B1007S

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 thepersonalization 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 actors of the EMV migration: card vendor, issuer, perso bureau, perso solution provider

Key topics

▌ Data Grouping

▌ INITIALIZE, 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:

▌ On-site at customer premises, or at one of the Thales training centers. Please contact us for more details.

Course fee:

▌ € 499 per attendee, Price does not include taxes nor travel expenses

Course schedule

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

AGENDA

Welcome and training overview

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: bps_training@thalesgroup.com or visit our web site: https://www.thalesgroup.com/en/markets/digital-identity-and-security/banking-payment/consulting

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