Biometrics for Payments

Biometric technology has been used for years for identification, in sectors such as government and law enforcement agencies. It is considered as a highly efficient and reliable method of identity recognition and authentication.

With the evolution of payment industry, the adoption of biometrics is also growing; especially with the development of biometrics within smart cards and mobile devices that provide to consumers a secure and convenient alternative to traditional PIN verification.

The purpose of this training is to provide technical insights on how biometrics can be integrated to the payment world. It is based on Gemalto know-how and practical experience on card and mobile payment projects.

Objectives

At the end of the training, you will:

- Understand the fundamentals of biometrics
- Focus on fingerprint verification for card and mobile payments
- Understand the specificities of matching environments
- Learn about existing implementations
- Have a comprehensive overview of the main biometric standards
- Get business insights on market trends and biometric usages

Key topics

- Biometrics
- Fingerprint
- Cardholder verification
- Match on card
- Consumer device CVM
- Standards

Who should attend

Original Equipment Manufacturer (OEM), Banks or service providers willing to use biometrics for identification and authentication of their customers

- Marketing managers
- Product managers
- Project managers

Each session consists of

- A complete course manual including a dictionary of the most frequent acronyms used in the payment ecosystem involving biometrics

Pre-requisites

- Basic knowledge on banking processes and cards/mobile payments will be a plus.
- This course is held in English. On customer request sessions in French or Spanish can be organized.

Duration: 1 day

Location: Gemalto premises

Course fee: € 1049 per person

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

GEMALTO BANKING TRAINING CATALOGUE
Course schedule

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

AGENDA

Introduction to Biometrics
- Forms of Biometrics
- Why use Biometrics
- Biometric techniques
- Introduction to Identification and Authentication

Focus on fingerprint
- Fundamentals of fingerprint technology
- Extraction and matching processes
- Matching environments

Fingerprint for Card Payments
- Enrollment and verification processes
- Performances and Interoperability overview
- Overview of EMV flow and focus on Cardholder Verification Methods
- Adding biometrics as CVM
- Match-on-card implementations
  - Architecture of a Match-on-Card solution
  - Constraints and limitations
  - Case Studies

Fingerprint for mobile payments
- Overview of consumer device CVMs
- Adding biometrics as a shared consumer device CVM
- Consumer Device Cardholder Verification System
  - Architectures and components description
  - Constraints and limitations
  - Case Studies

Regulatory bodies & Technical Standards
- ISO/IEC; JTC1; NIST
- GP specifications
- FIDO initiative
- EMVCo Initiative
- Data protection implications

Market Trends and biometrics for other usages
- Availability of mobile devices with biometric sensors
- Customer acceptance figures
- Biometrics for other services

Related courses

- Introduction to Banking World (B1014I)
- Explore the New Dimensions of NFC Payment (B1015I)
- Design your NFC Mobile Payment Project (B1013W)
- Define your NFC Mobile Payment Card Profile (B1017W)
- Biometrics for Payment (B1033I)

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/