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Advanced Cryptography in
the Card Payment Sector
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Advanced Cryptography In The Card Payment Sector

Workshop 6

This technical module focuses on the different algorithms used, and their strengths and weaknesses. The workshop also covers fraud attacks, a detailed description of public and secret keys, and the functionalities of black boxes.



ADVANCED CRYPTOGRAPHY IN THE CARD PAYMENT SECTOR

AUDIENCE

For Electronic Banking Project Managers, Operations and IT Managers, employees in charge of security schemes for card issuing (personalisation centres ...). A good technical capacity is required to follow this module.

BENEFITS FOR YOU AND YOUR ORGANISATION

- To understand the use and programming of keys used in secure devices
- To understand keys uses and implementation with technical issues
- To learn about different forms of card fraud and how to protect against it
- To gain a thorough understanding of key management

AGENDA

Through a detailed review, a one-day programme covers:

Secret keys algorithms

- Programming
- Strengths and weaknesses
- Limits and constraints

Public keys algorithms

- Programming
- Strengths and weaknesses
- Limits and constraints

Fraud and attacks:

- Skimming, fake cards (magstripe and chip cards)
- Different levels of fraud resistance

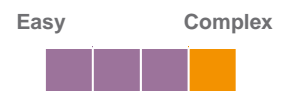
Keys management:

- Keys management and hierarchy of keys
- Keys status follow-up
- Different analysis methods
- Keys indexing

Black box management: French banks only (detailed review)

General information

- Duration: 1 day
- Maximum attendees: 15
- Pre-requisites: Basic cryptography knowledge (see Workshop 5)
- Technical Level: 4



- Deliverable: Workshop support (designed in English or in French on request)
- Location: Customer premises or FIME office on request.

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Version #2-2008
Ref. Code W6

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