Eurosmart/Japan Delegation Meeting

Workshop on Contactless Card Interoperability

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Description of contactless technology

- Communication
  - Radio Frequency: 125 KHZ, 4.915 MHZ, 13.56 MHZ, 443 MHZ, 2.45 GHZ, etc.
  - Vocal transmission

- Power supply
  - Battery
  - RF magnetic field
Description of contactless technology

- Tag
  - Read only memory (ROM)
  - OTP (PROM)
  - Memory (LOGIC + EEPROM)
  - Microprocessor

- Support
  - ID-1
  - Other supports (Tag, electronic ticketing, paper..)
Description of product technology

- **ID-1 Cards**
  - Read only
  - Memoryq
  - Hybrid cards
    - Hybrid without any link
    - Hybrid with I/O link
    - Hybrid sharing memory
  - Single micro processor
  - Dual Interface
Description of product technology

■ Other format
  ● Keys
  ● Passports
  ● Electronic ticketing
  ● Etc...

■ Proximity coupling devices (readers)
  ● Compatibility with the norms (multi-standards)
  ● Compatibility with the software (PC/SC, CT API, OCF etc...)
State of the art for standardisation

- ISO 10536 (close coupling)
- ISO 14443 (proximity) – type A to ...
- ISO 15693 (vicinity)
- Coherency, similarities, differences between the 3 norms
State of the art for industrialisation

- Different type of chip
  - ISO 14443 Type A to ...
  - ISO 15693
  - ISO 10536

- Inlet
  - Who provide what
  - How to resolve industrialisation problems

- Proximity reader device
  - Reader for production/ personalisation
  - System integrator
Market overview

- Main applications
  - Transport
  - Access control
  - Epurse
  - Multi-application

- Market analysis
  - Trends
  - Strength, weakness, opportunities and threats
Conclusion

- Compilation and identification of the problems
- Collaboration with NMDA