ONISSG

Overview of Network Information Security
Standards and Guidelines

Banks, smart cards, home user applications, cryptography, biometrics

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History

Basis of our current work is the existing report:

Response from CEN and ETSI to the

"Communication from the Commission to the Council, the European Parliament, the European Economic and Social Committee and the Committee of the Regions: Network and Information Security: Proposal for a European Policy Approach"

Issue 1, 13 October 2003

My expertise

- Each member of the team has some specific expertise. In my case, this is:

  - Banks

  - Smart cards

  - Home user applications

  - Cryptography

  - Biometrics

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Banks

Banks are important users of information security, for many different applications.

Due to the high security requirements, it is hard for banks to keep up with modern solutions:

- Many new security methods are not mature enough

- Users need time to learn to trust a system

- Risks are higher due to high volumes (SEPA)

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Smart Cards

- Smart Cards are a basic part of the security infrastructure.

- Standardisation has moved from low level (e.g. ISO 7816) to high level (e.g. EMV)

- Security requiements of smart cards are higher than ever due to high volumes and slow replacement

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Home User Applications

- The home user has a hard time protecting his computer against the ubiquitous threats.

- It is very much needed to protect her, since all parties depend on the user's trust of the Internet!

  - This requires not only standardisation, but also initiatives from businesses.

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Cryptography

- Cryptography is becoming an "under the hood" item.

- The real security comes from the protocols: this is were standardisation counts.

- Example: PAKE (password authenticated key exchange) allows users to choose and keep simple passwords.

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Biometrics

Standardisation: ISO-IEC JTC1-SC37

Biometry is not (yet?) widely used in the above mentioned areas:

- Lack of standardisation

- Privacy issues

- Accuracy is too low

- Secondary risks (mutilation)

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Thanks!

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