Salil Vadhan and Alon Rosen   Nov. 7, 2006

Lecture Notes 13:

Private-Key Encryption in Practice

Recommended Reading.

- Katz–Lindell, Chapter 5.

- FIPS publication describing DES (link on webpage).

- FIPS publication describing AES.

1   Stream Ciphers vs. Block Ciphers

- Unlike what we've seen, private-key (aka symmetric) encryption schemes used in practice generally
    - are not be based on nice computational problems
    - are not proven secure via reductions
    - are designed for a particular input length (so can only be treated with concrete security)
    - but are extremely efficient

- Stream Ciphers

    — Essentially meant to be pseudorandom generators, used for stateful encryption.

    — Examples: linear feedback shift registers (not secure, but used as component in better stream ciphers), RC4, SEAL, ...

    — Extremely simple and fast

    — Practical issues: can generate pseudorandom bits offline and decrypt very quickly without buffering, but requires synchronization

- Block ciphers

    — For every key $k \in \{0, 1\}^n$, $E_k : \{0, 1\}^\ell \to \{0, 1\}^\ell$ is a permutation, and both E_k and E_k^{-1} can be computed quickly given k. (n=key length, ℓ — block length)

    — Examples: DES, AES/Rijndael, IDEA, ...

    — Main tools for private-key encryption in practice.

    — Have both stateless modes and stateful/stream-like modes.

- How are they designed?

    — More of an art than science. Intuition/experience of designers, public critique important.

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