Introduction to Modern Cryptography



5th lecture:

Message Authentication Codes (MACs) and CCA security

Motivation

- company order
- email, SMS, etc.
- banking transaction
- contracts
- software patches

• ...

integrity and authenticity are often more basic needs than secrecy

Mihir Bellare









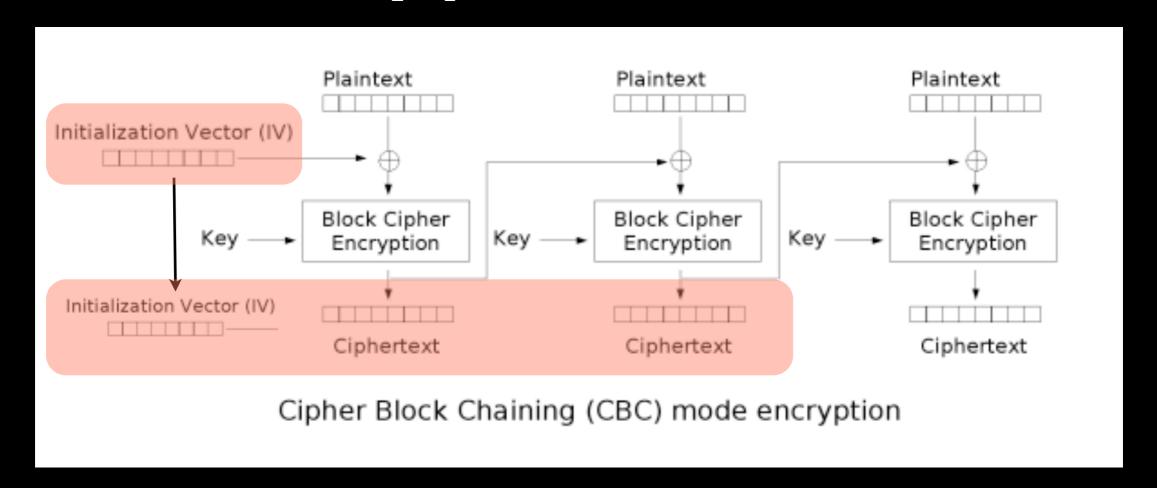


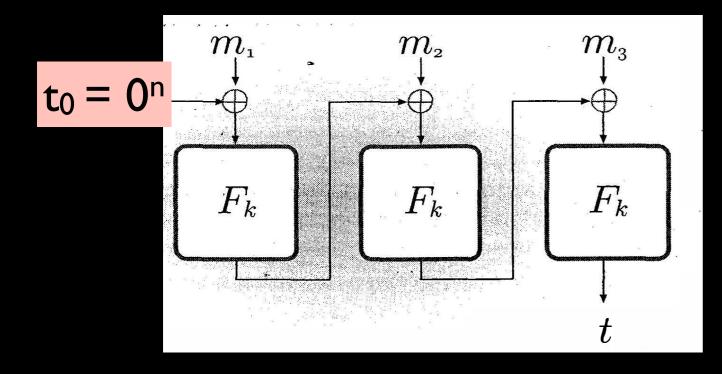
2000:

- security definition of MACs
- security of CBC MAC

UC Davis, San Diego

CBC encrypt vs CBC-MAC





tricky details!

see exercises

Chosen Ciphertext Attacks (CCA)

