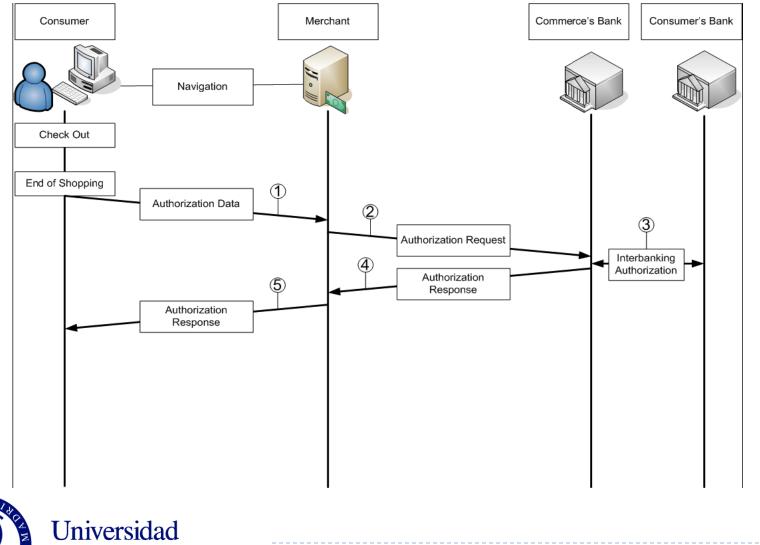


Secure e-commerce Module 2 - Discussion

J. M. de Fuentes, A.I. González-Tablas, A. Ribagorda

Module 1. Review of security issues



Universidad Carlos III de Madrid

Security discussion

Merchant's fraud

- Mechanisms to solve this:
 - "Data ciphering" (merchant is not able to decrypt them)
 - "Client confirmation". Pin-alike cards / passwords
 - ➤ Client Bank direct dialog

Improvement: Enhanced security service

Client authentication against its bank



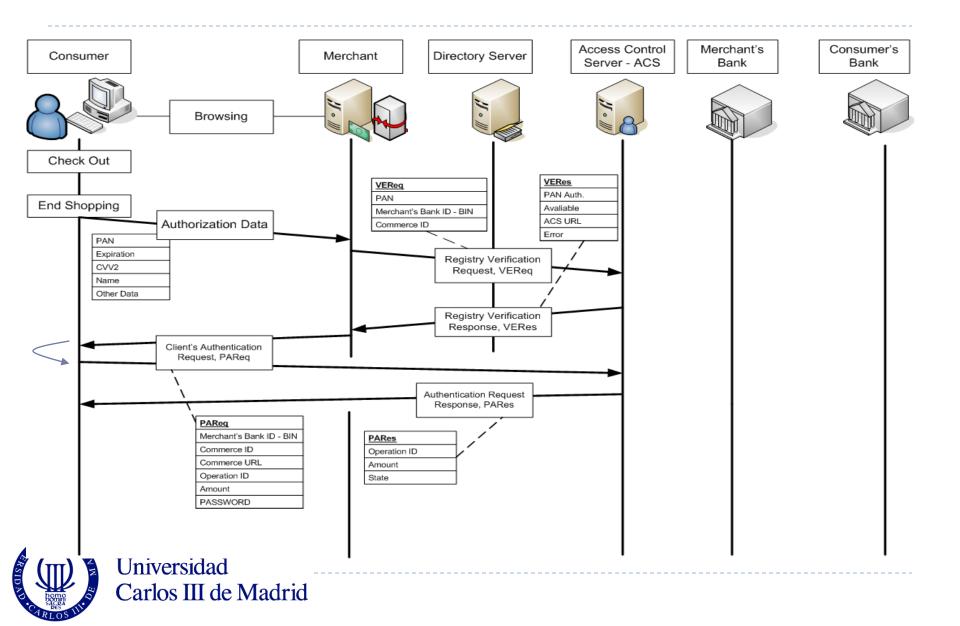
Enhanced security service?

- Two new entities:
 - Access control server (ACS)
 - Part of the client's bank!
 - Directory server
 - Payment network, payment scheme, interoperability domain
 - Global agreement between all stakeholders
 - Client
 - Merchant
 - Merchant's bank
 - Client's bank
 - Subscription → Reliability

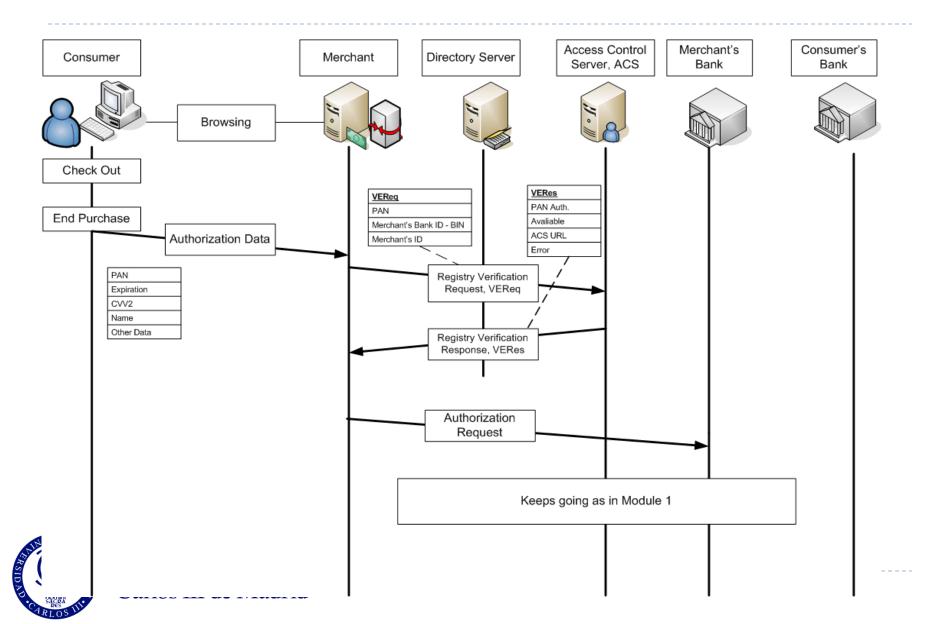


Universidad Carlos III de Madrid

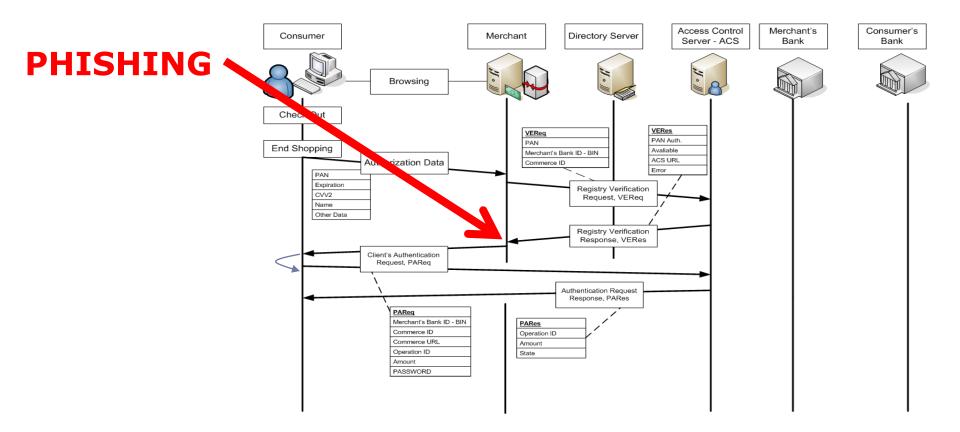
Module 2: Process if checks are correct



Module 2: Process if checks are **not** correct



Security discussion of module 2 (Result: ⊗ ⊗ ⊗)







Universidad

Carlos III de Madrid

Implementation issues

- Enrollment process has been previously done
- Merchant → Client message should be implemented with TWO messages
 - Redirect header
 - The rest of the message





Secure e-commerce Module 2 - Discussion

J. M. de Fuentes, A.I. González-Tablas, A. Ribagorda