



JENS NEUHALFEN

User	Salary	Checksum*
Alice		0xabcd
Eve		0x9876
• • •	• • •	• • •

2,718€

3,141<u>€</u>

SLEEP BETTER WITH CONTENT ENCRYPTION

DATA INTEGRITY & ASSOCIATION





THE CHECKSUMS DON'T MATCH, PROMOTION IS DECLINED



Problem: Protected data can be "replayed". Solution: Cryptographically bind data to context.

* including the username in the hash/hmac

0xabcd...





DATA INTEGRITY & ASSOCIATION

User

OX123456.

Problem: Protected data can be "replayed".

Solution: Cryptographically bind data to context.

0X123456... Alice OXABCDEF... Eve

Password Hash *

* including the username in the hash/hmac

DATA INTEGRITY & ASSOCIATION

0X123456.

Problem: Protected data can be "replayed".

Solution: Cryptographically bind data to context.

Checksum* User Salary 3.141€ 0xabcd... Alice 3.141€ 0xabcd... Eve THE CHECKSUMS DON'T MATCH, PROMOTION IS DECLINED

* including the username in the hash/hmac