



JENNER

User

Salary

MAC*

Alice

0x4711...

Eve

0xabcd...

...

...

...

10,000 €

2,718 €

DATA INTEGRITY & ASSOCIATION









THE CHECKSUMS DON'T MATCH, PROMOTION IS DECLINED

0X123456...



3,141€



*Checksum with a secret: HMAC, AEAAD, public key signatures



Problem: Sensitive data can be manipulated.

Solution: Use cryptographic checksums with a secret.

DATA INTEGRITY & ASSOCIATION

0X123456... ✓

Problem: Protected data can be “replayed”.



User	Salary	MAC*
 Alice	3,141€	0x4711...
 Eve	2,718 €	0xabcd...
...

DATA INTEGRITY & ASSOCIATION

0X123456... ✓

Problem: Sensitive data can be manipulated.

Solution: Use cryptographic checksums with a secret.

User		Salary	MAC*
	Alice	3,141€	0x4711...
	Eve	10,000 €	0xabcd...

THE CHECKSUMS DON'T MATCH, PROMOTION IS DECLINED

* Checksum with a secret: hmac, AEAD, public key signatures