User	Salary	Checksum*
Alice		0x4711...
Eve		0xabcd...
...	...	...

2,718 €

DATA INTEGRITY & ASSOCIATION

SLEEP BETTER WITH CONTENT ENCRYPTION

THE CHECKSUMS DON'T MATCH, PROMOTION IS DECLINED

0X123456...

3,141€

* Checksum with a secret: hmac, AEAD, 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	Checksum*
🟢	Alice	3,141€	0x4711…
🟠	Eve	2,718 €	0xabcd…
	…	…	…

DATA INTEGRITY & ASSOCIATION

OX123456… ✓

Problem: Sensitive data can be manipulated.
Solution: Use cryptographic checksums with a secret.

User	Salary	Checksum*
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