JENS NEUHALFEN

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

3,141€

2,718 €

SLEEP BETTER WITH CONTENT ENCRYPTION

DATA INTEGRITY & ASSOCIATION

EVE GETS AN INSTANT PROMOTION

0X123456...

Problem: Protected data can be "replayed".

0x4711…

DATA INTEGRITY & ASSOCIATION

0X123456... ✓

Problem: Protected data can be "replayed".

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

EVE GETS AN INSTANT PROMOTION

DATA INTEGRITY & ASSOCIATION

`0X123456…` ✓

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

User	Salary	MAC*
Alice	3,141€	0xabcd…
Eve	2,718€	0x9876…
…	…	…

* including the username in the hash/hmac