



JENNER

User

Salary

Checksum*

Alice

0x4711...

Eve

0xabcd...

...

...

...

3,141€

2,718 €



SLEEPER WITH CRYPTION

DATA INTEGRITY & ASSOCIATION







EVER GETS AN INSTANT PROMOTION

0X123456...



Problem: Protected data can be “replayed”.

0x4711...





DATA INTEGRITY & ASSOCIATION

0X123456...



Problem: Protected data can be “replayed”.

Solution: Cryptographically bind data to context.



User	Salary	Checksum*
 Alice	3,141€	0xabcd...
 Eve	2,718€	0x9876...
...

* including the username in the hash/hmac

DATA INTEGRITY & ASSOCIATION

0X123456... ✓

Problem: Protected data can be “replayed”.

User		Salary	Checksum*
	Alice	3,141€	0x4711...
	Eve	3,141€	0x4711...
...		EVE GETS AN INSTANT PROMOTION	
...			...