# OTPme - Feature #45

# add backend encryption for all sensitive data

05 April 2015 18:52 - The 2nd

Status: In Bearbeitung Start date: 19 October 2015

**Priority:** Normal Due date:

Assignee: The 2nd % Done: 80%

Category:

**Estimated time:** 0:00 hour Target version: OTPme 0.3

### Description

we should not save password (hashes), PINs etc. in plaintext.

#### Subtasks:

Feature # 59: Add header to encrypted attributes

In Bearbeitung

### History

### #1 - 05 April 2015 18:53 - The 2nd

- Subject changed from Add backend encryption for all sensitive data to add backend encryption for all sensitive data

## #2 - 04 July 2015 02:30 - The 2nd

- Status changed from Neu to In Bearbeitung
- % Done changed from 0 to 90

current implementation uses AES encryption in CFB mode.

from Crypto.Cipher import AES from Crypto import Random

def encrypt(aeskey, data):

""" encrypt string with given aes key """ iv = Random.new().read(AES.block\_size) cipher = AES.new(aeskey.decode("hex"), AES.MODE\_CFB, iv) encrypted data = iv + cipher.encrypt(data) return encrypted\_data.encode("hex")

still needs some investigation if this is the way to go. but replacing the encrypt/decryption functions should be easy.

#### #3 - 19 October 2015 20:25 - The 2nd

Maybe we should use AES in GCM mode in the future:

- https://bugs.launchpad.net/pycrypto/+bug/899817
- https://github.com/dlitz/pycrypto/pull/33

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