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## Encrypted Cloud Storage for Modern Business



# GOAL POSTS



- Application of select data protection concepts in practice → IMPACT ON USERS

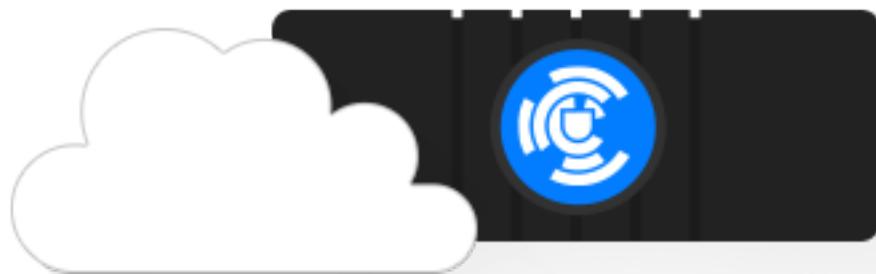
3 levels of data threats that are protected

- Cryptographic concept (by Vlastimil Klíma)
- Its implementation
- Human factor



# CRYPTELO DRIVE

- Encrypted virtual drive
- AES-256 & Elliptic curve P-384
- Top-secret level of security
- On premise and cloud options
  - + Physical security when protecting virtual data





# MULTIPLATFORM ACCESS

- Redefinition of borders in the virtual world
- BYOD trend

## SHORTER DISTANCES AND THE INTERNATIONALIZATION OF TRADE

Co-management of company branches

Business travel of managers and traders

Replacement and rotation of staff between branches

Long-distance cooperation

## EMPLOYEE RELATIONSHIP CHANGES

Home office

Part-time jobs for workers

External consultancy

Virtual office



# THAT'S WHY CRYPTELO FOCUSES ON...

- Direct protection of data rather than individual devices
- Cryptelo Drive web application
  - Client-side encryption
  - Unique key for each file
  - Unique password for each login
  - Keychain in external token



# THE HUMAN FACTOR AND EASE-OF-USE



Files

- Storage
- Transfer
- Working with data / collaboration

Efficient use

- Repeatable transfers
- User-friendliness

Elimination of unintended mistakes

No need to use other alternatives



# WHAT DOES CRYPTELO SATISFY?



The requirement to work dynamically with data in modern companies

- Uses only one up-to-date file version
- Two or more users working collaboratively
- File versioning
- Scalability of user rights



# BUILDING OUR OWN ORIGINAL SYSTEM



- The exact purpose – corporate needs
- Complex systems of secure corporate communication
  - Data and information = competitive advantage
  - Cryptelo Mail and Cryptelo Chat
- Optimal combination rate  
User-friendliness vs. (?) Maximum security





# EVERYDAY USAGE

- Intuitive UI
- Remote registration
- No need for user training
- BYOD support
- No installation necessary – web browser
- No complicated password management





SubFolder

Upload or Create

Fa

Fantomas



Name ▾

Last modified ▾

Creator

Actions

Folder\_1

15.04.2014 | 20:00

Fa



File.pdf

15.04.2014 | 20:00

MG



ImageFile.ai

15.04.2014 | 20:00

MBA



## Folder Owner



Can read



Can edit



Permissions ▾

A USER-FRIENDLY  
INTERFACE  
RUNNING COMPLICATED  
ENCRYPTION



# A RISK – TRUSTING DATA TO A THIRD PARTY



- Various legal environments
- Data ownership
- Obligation to hand-over data to security force organizations



# WHAT CRYPTELO OFFERS

- An anonymous space for each user
- Elimination of the administrator's power



**Inability to determine:**

- data content
- data creator
- data recipient(s)
- the very existence  
of communication





# THE USER ASSUMES LIABILITY FOR DATA CONTENT



# Thank you for your attention



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## Let's keep in touch

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Have a look at our poster in the foyer

