



TRICIPHER

Strong Authentication for the Real World™

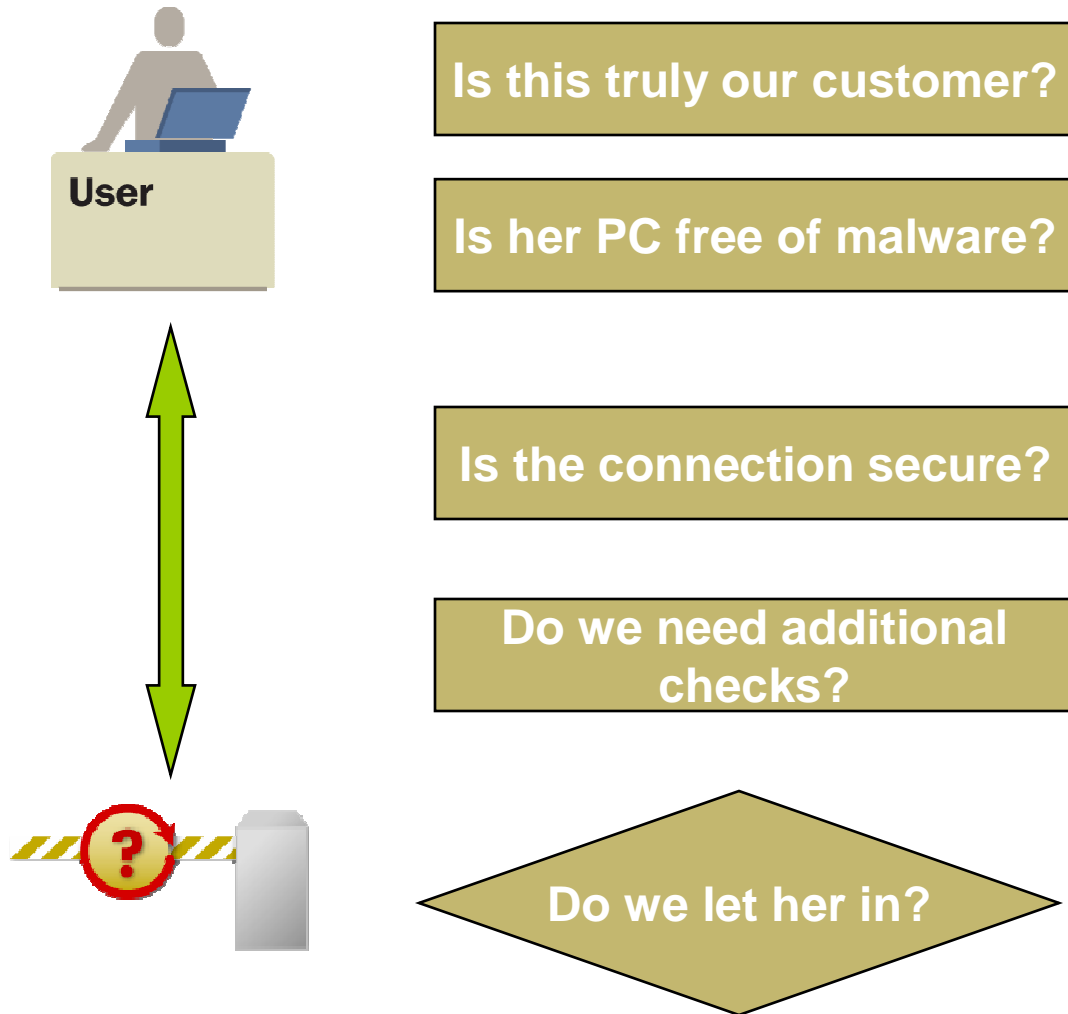
TriCipher Armored Credential System (TACS)

Slides provided by
Ravi Sandhu*
Co-Founder and Chief Scientist
TriCipher, Inc.
www.tricipher.com
sandhu@tricipher.com

•Also Professor of Information Security
and Assurance at George Mason Univ.



Pre-Access Online Fraud Prevention



- Which of these can we know?
- How *certain* are we?
- How much *should* we care?
- How much can we *afford* to care?
- Can we *prevent* criminals from getting access in the first place?

Post-Access Online Fraud Prevention



Are 'her' actions suspicious?

- What % do we catch?
- What % do we 'catch' in error?

Do we need additional checks?

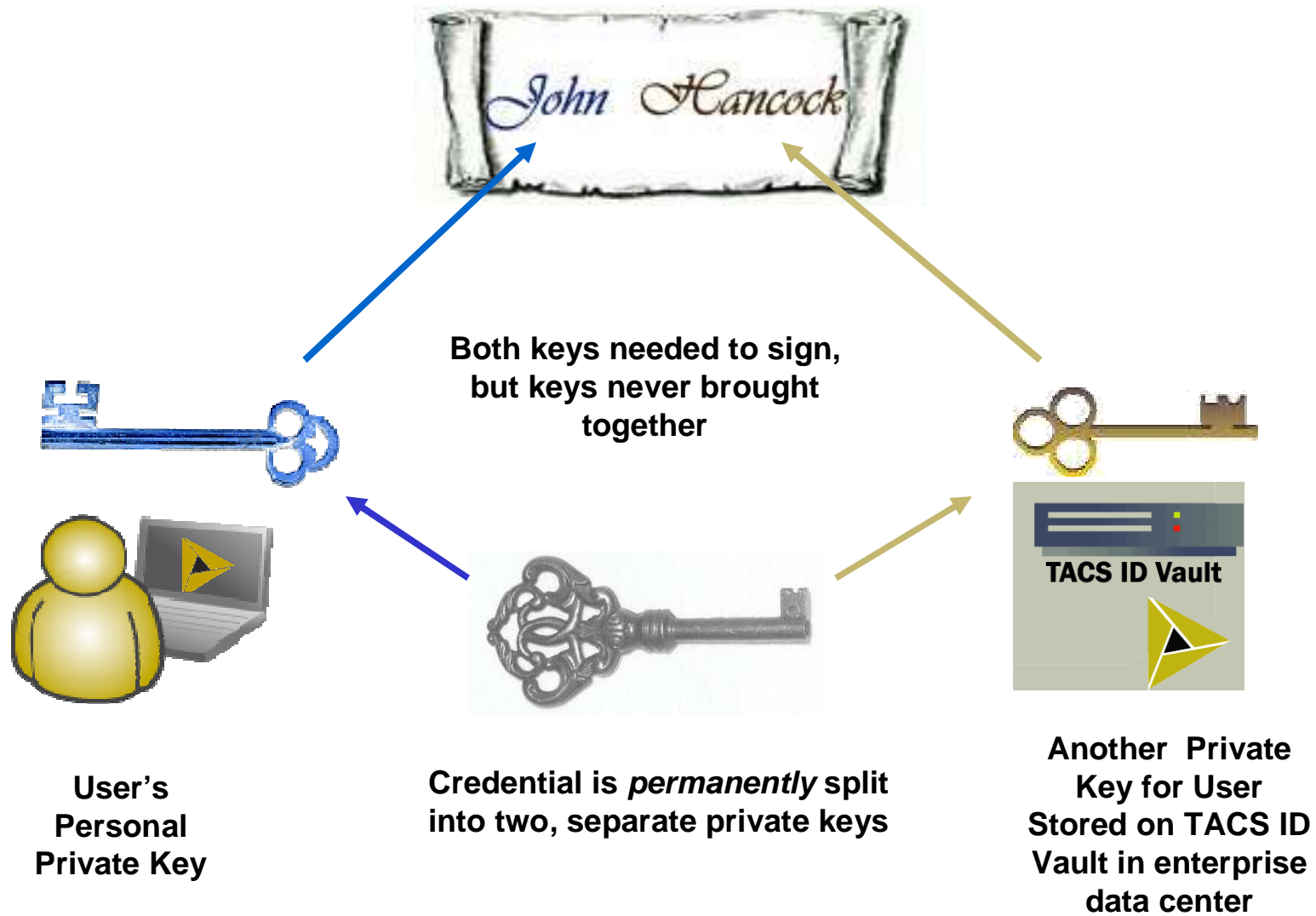
- How suspicious are we?
- What methods can we use to double check the authentication?



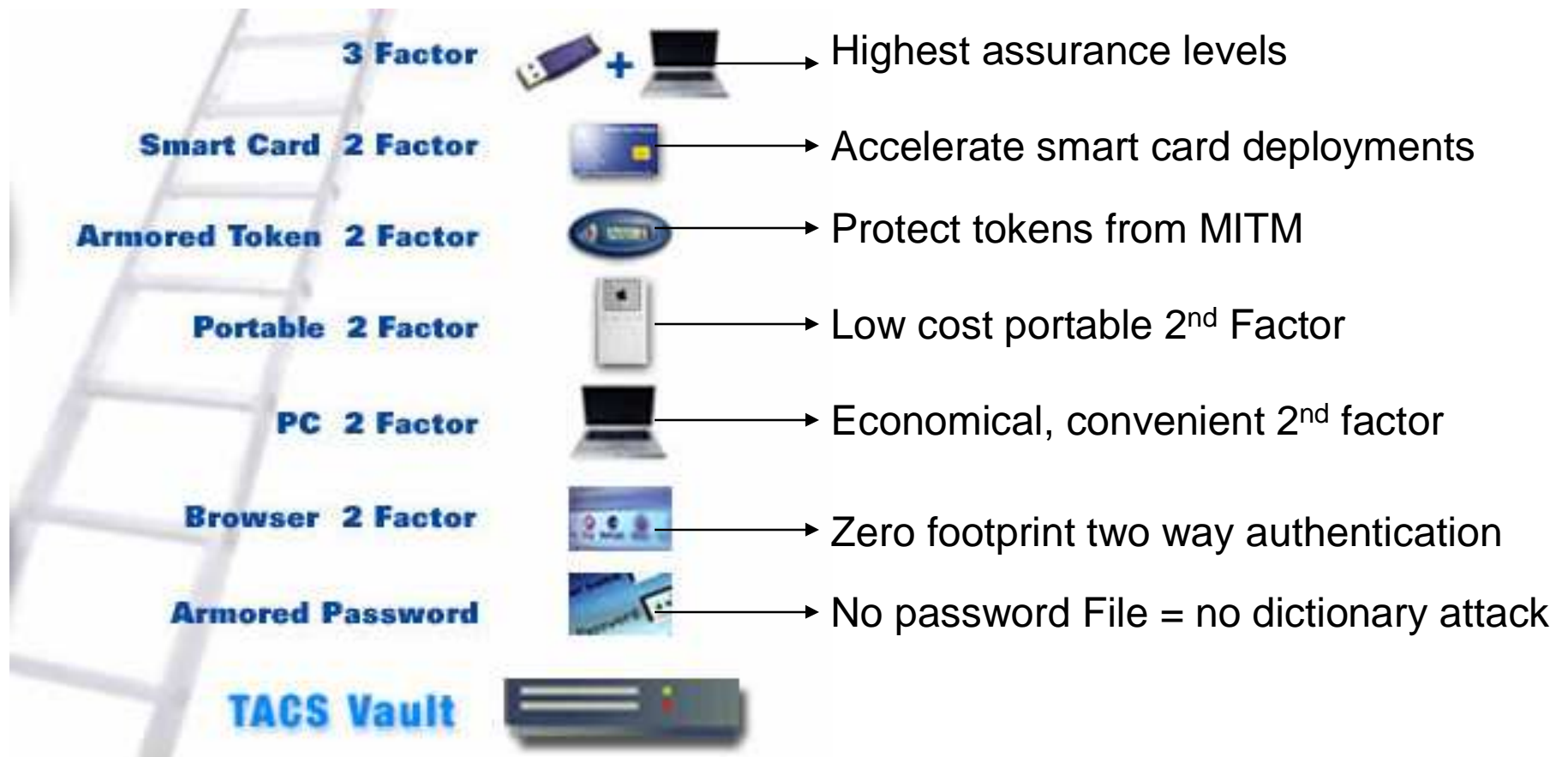
Are we adequately protecting the credential in our data center?

- Are her credentials safe with us?
- Is her identity data safe with us?

TACS Core Innovation: Multi-part Credentials

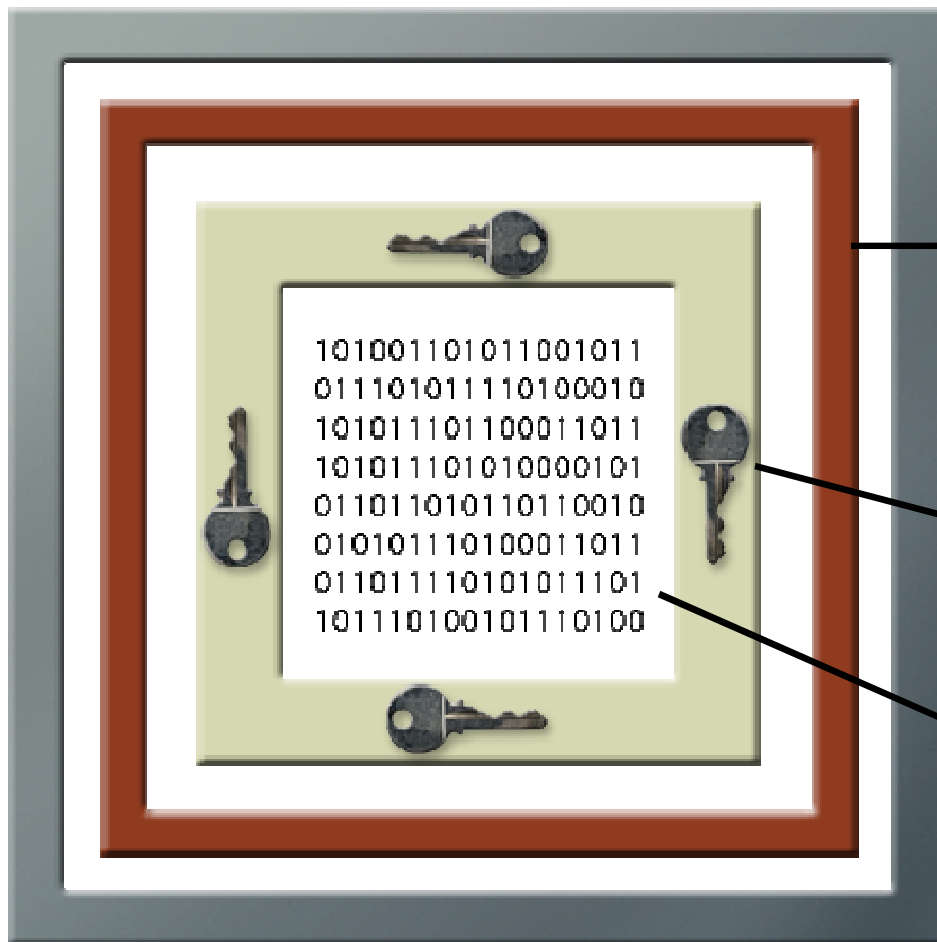


TACS Authentication Ladder



All supported by a single infrastructure under a perpetual licensing agreement!

Protecting credentials/identity data



Appliance Architecture

- Locked down, dedicated hardened OS
- US Govt. FIPS 140-1 Level 2 rating

Compartmentalization layer

- All system and user administration strictly compartmentalized on least privilege, need to know, basis
- *Fortressed from insider attacks*

Strong Authentication layer

- Uses Multi-part credential technology
- Flexible authentication options

Result: An ID Data Vault

- Store encryption keys (or ID data)
- Only revealed to authorized party
- After strong authentication
- Support for group encryption, key escrow, etc.

Summary



- Pre- and Post-Access Online Fraud Protection
 - Prevent access *before* fraud occurs
 - Secondary authentication when back-end fraud detection systems get suspicious
- Secure storage of identity data to prevent insider or mass theft
- Flexible deployment to balance security, cost and usability across a wide range of user needs

Contact Information



Ravi Sandhu

sandhu@tricipher.com

703 283 3484

www.tricipher.com