

An introduction to the 3rd epoch of IDTrust

Ian Glazer

Research Director, Gartner

@iglazer - ian.glazer@gartner.com

Well, how did we get
here?

3 Epochs

Epoch 1: PKI
2002 - 2007

Annual
PKI Research
Workshop

overview

hierarchical

provide

example

akenti

carl

usually

geneva

better

many

department

appropriate

research

top-level

existing
convention

noted work

questions

sufficiently

collaboratory

organizations

readers

emphasized

lines

one

ensure
social

tends

practitioners

management

collaboratory

card

central

x.509

pointed

user

order

variety

internet2

described

awareness
distributed

need

boneh

used

included

keys

taking

needs

much

report

follow

public

makes

bridge

server

alterman

hallam-baker

encryption

discussion

addition

annual

discussed

key

issues

possible

session

rather

users

names
green

provided

set

experts

built

system

PKI

relationships

use

real-world

trust

also

assumption

military

cryptography

spki

get

experience

wide

validation

technical

two

certificates

mobility

area

sandhu

levy

aka

names

provided

set

principal

base

observed

tokens

main

wide

workshop

text

private

authority

deployment

approaches

non-hierarchical

validity

area

sandhu

levy

aka

names

provided

bridge

current

server

alterman

directory

agreement

presentations

pkis

policy

strong

want

collaborative

workshop's

certificate

naming

time

credit

dealing

ellison

hallam-baker

encryption

discussion

addition

sufficient

smartcard

developed

sense

starting

conventional

dohrmann

strong

want

collaborative

workshop's

certificate

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time

credit

dealing

ellison



2007

Epoch 2: Identity

2008 - 2011

Symposium of
Identity and Trust on
the Internet

Epoch 3: Enabling the Identity Ecosystem

2012 - ?

2012

WE WERE WARNED



a ROLAND EMMERICH FILM

2012

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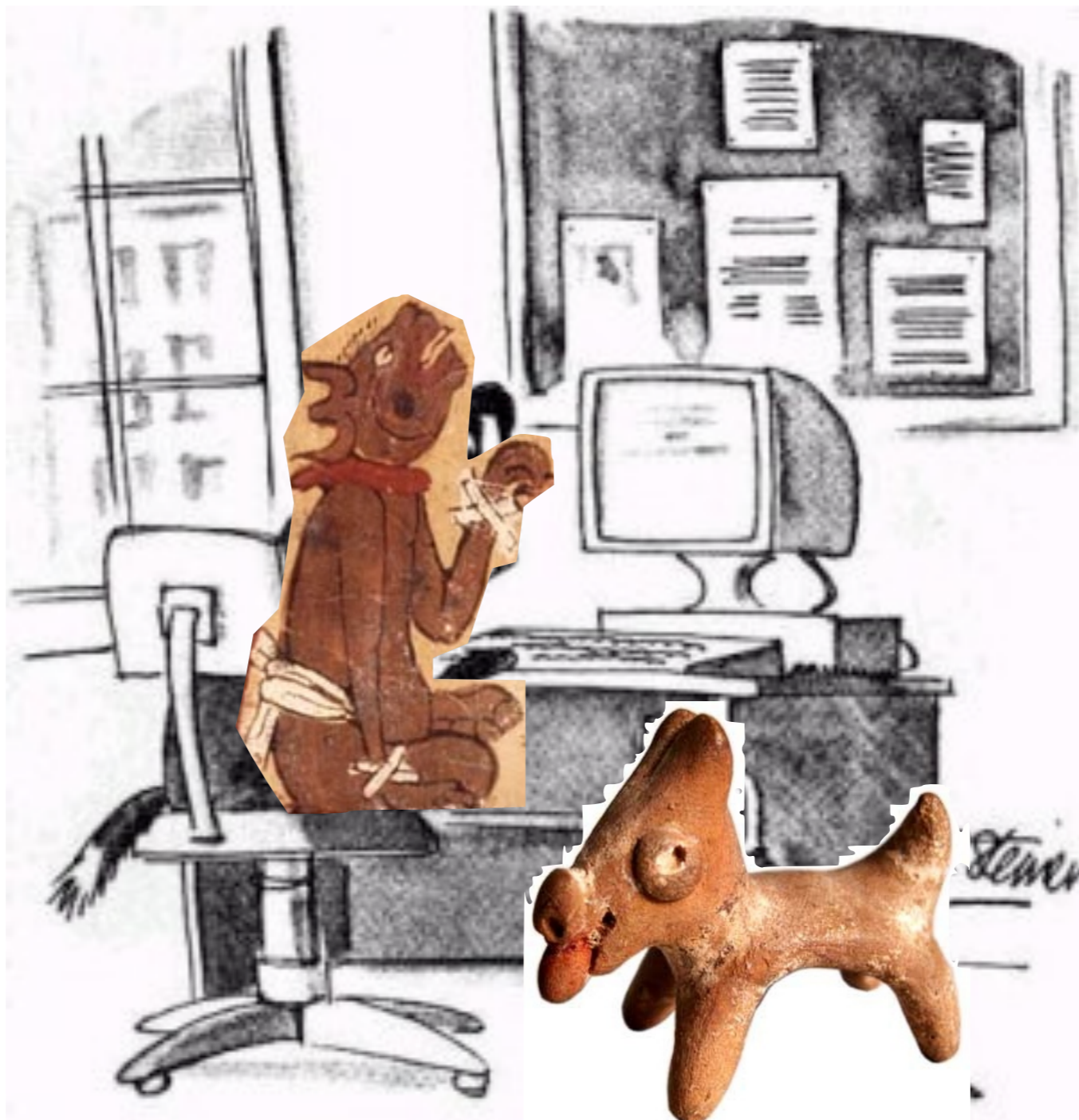
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We better get to work







"On the Internet, nobody knows you're a dog."

Mayan



"On the Internet, nobody knows you're a dog."





2016

We better get to work

Epoch 3: Enabling the Identity Ecosystem

- Identity solutions will be privacy-enhancing and voluntary
- Identity solutions will be secure and resilient
- Identity solutions will be interoperable
- Identity solutions will be cost-effective and easy to use

Gaps and Challenges for Advancing the Global Identity Ecosystem

- Tom Smedinghoff
- John Bradley
- Ken Klingenstein
- Leif Johansson

Lucy Lynch
ISOC

Are Privacy Challenges Manageable?

If carried out close to its ultimate vision, the Identity Ecosystem will be composed of a huge, interlocked network of identity and attribute providers, relying parties, individual consumers and citizens, an unimaginable number of interdependent applications, services and devices, standards, and competing regulatory and audit requirements. In such an environment, **is it possible to have any assurance of privacy?** Are privacy risks understood and manageable?



John Sabo

Usability

The usability panel discussions by leading identity management and standards experts addressing usability and the user experience in online banking, social media and ecommerce that surround identifying and implementing the four NSTIC Guiding Principles in the Identity Ecosystem:

- Identity Solutions will be Privacy-Enhancing and Voluntary
- Identity Solutions will be Secure and Resilient
- Identity Solutions will be Interoperable
- Identity Solutions will be Cost-Effective and Easy To Use



Don Thibeau

Where Trust Frameworks meet... or don't

- Mission
- Values
- Interoperability
- Governance



Peter Alterman

Searching for viable business models

- Tyler Moore
- Kaliya Hamlin
- Dave Coxe
- Peter M. Graham

Jeff Friedberg
Microsoft

Attributes & Attribute Providers

NSTIC departs from most earlier identity systems by identifying an ecosystem of attribute providers that is logically, if not operationally, separate from other identity providers. This raises a number of new issues, including the **standardization of attribute representations (schemata), business models for attribute providers, mechanisms for establishing trust in an attribute provider, and privacy issues**. This panel will examine the nature of these future attributes and attribute providers.



Jim Fenton



2016

Let's get to work