www.oasis-open.org



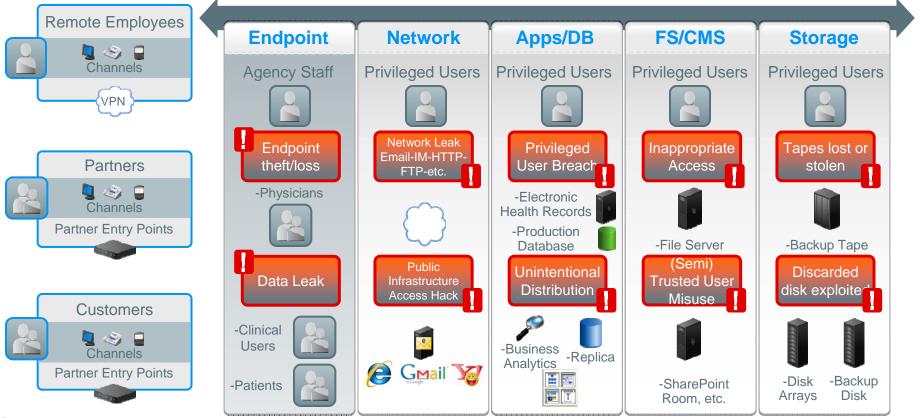
Ensuring Confidentiality (and trust)

Encryption, Data Retrieval, and Key Management Technologies

Jerry Smith, US Department of Defense Anthony Rutkowski, Yaana Technologies Bob Griffin, RSA, the Security Division of EMC

Ensuring confidentiality and trust ...

- ... is not easy
 - Information growth
 - Mobility, virtualization & cloud
- Evolving threat landscape
- Collaboration / Exchange





Ensuring Confidentiality (and trust):

the Extended Validation Certificate Platform

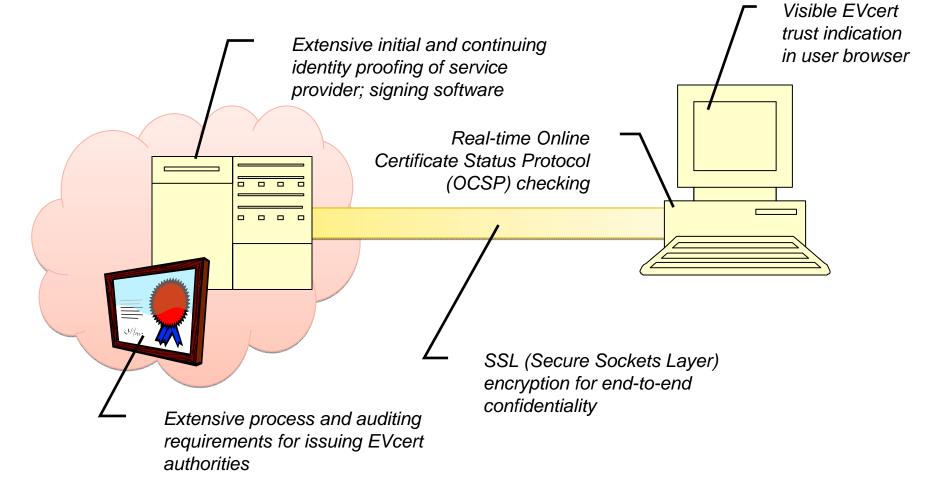
Tony Rutkowski

SVP for Regulatory Affairs and Standards, Yaana Technologies ITU-T Rapporteur for Cybersecurity Editor, Rec. ITU-T X.evcert Liaison, CA/Browser Forum

EVcerts: critical for IdM and cybersecurity

- Trust in network sites and providers is critical to achieving effective Identity Management and cybersecurity
 - adverse effects include harm to users, other providers, and the infrastructure; loss of assurance
- The Extended Validation Certificate platform bundles together a proven set of technologies and practices to
 - significantly enhance trust assurance in the site/provider
 - create an encrypted path with the site
 - sign software

Some of what the EVcert platform provides



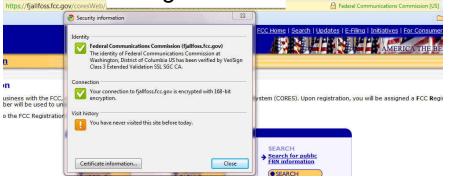
Additional value proposition

- CA/Browser Forum: developed and initially implemented by the most prominent software and digital certificate vendors worldwide over the past several years
- The platform has been included as a core capability in security standards by ETSI, Liberty Alliance, and ISO
- The platform is completely "open" and promotes a competitive environment
- ITU-T is importing and promulgating the platform for adoption in early 2011 as the X.evcert Framework to enhance global ubiquity and further its development
- Version 1.3 includes features to enhance use for cloud computing



How browsers display EVcert information

Google Chrome



Microsoft Explorer 8.0

tee https fcc.gov A + FCC Registration System Website Identification es | E-Filing ederal ommunications VeriSign has identified this site as: ommission Federal Communications Commission Washington, District of Columbia gistration US This connection to the server is encrypted. Registration Should I trust this site? egistration View certificates h to conduct business with the FCC, you must first registe h System (CC

Mozilla Firefox 3.1 pre

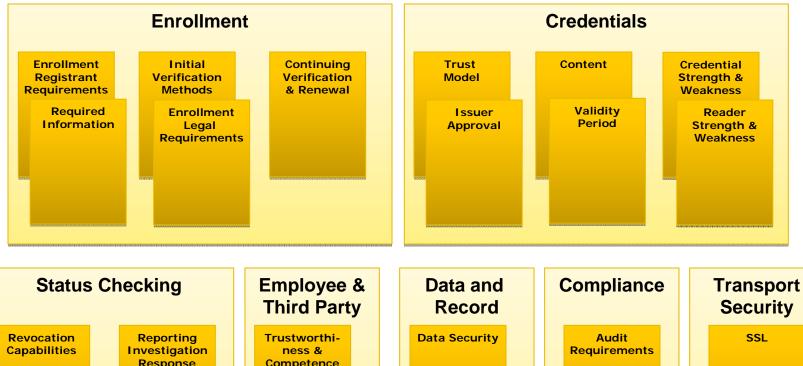
Opera 10.51

Apple Safari 4.0.5



FRN Heln Line: 877-480-3201 (Mon.-Fri. 8 a.m.-6 n.

Comprehensive specification and continuing examination/evolution



 Revocation Capabilities
 Reporting Investigation Response
 Trustworthiness & Competence
 Data Security
 Audit Requirements
 SSL

 Technical Ability to Check Status
 Trusted Delegation of Functions
 Audit Trail
 Audit Trail
 Image: Competence
 Support to the competence

Extensible roadmap

- New kinds of organizations
- New applications
- Expanded geographical coverage and assurance schemas
- Expanded Cloud IdM use
- Enhanced user visual indicators



Ensuring Confidentiality (and trust):

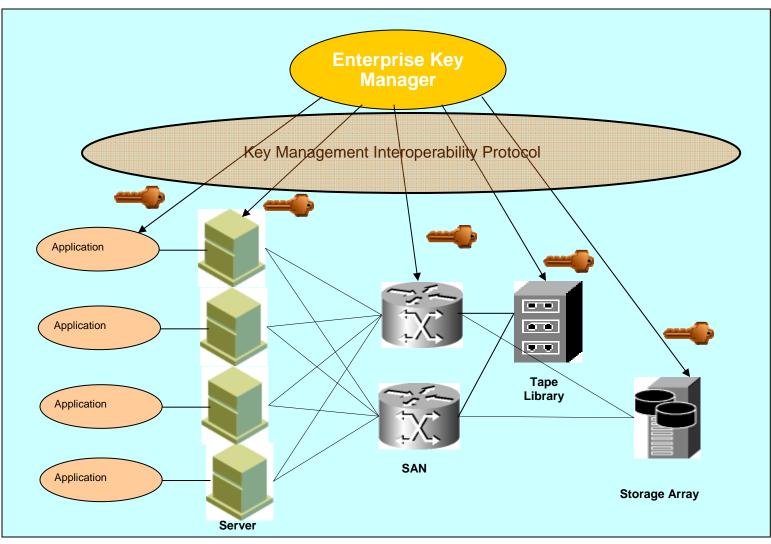
Extending Enterprise Key Management to Infrastructure Entity Authentication

Bob Griffin

Technical Director, RSA, the Security Division of EMC

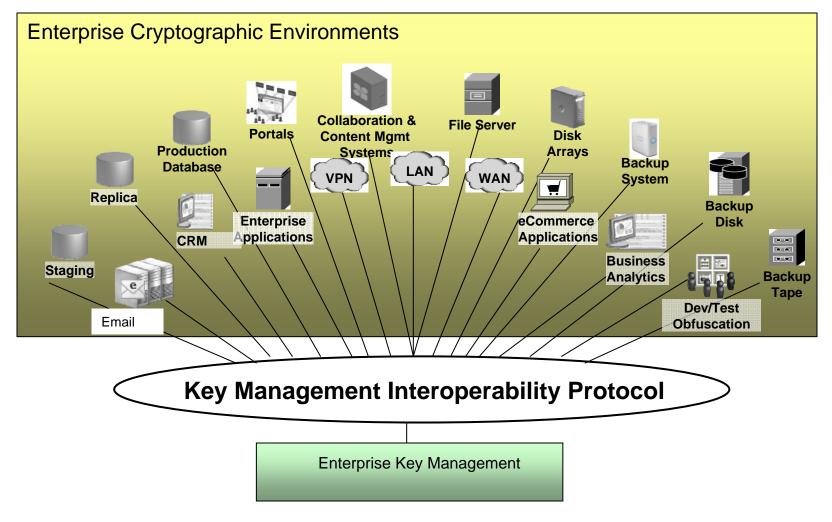
Co-chair, OASIS Key Management Interoperability Protocol TC

Data Encryption using Symmetric Keys

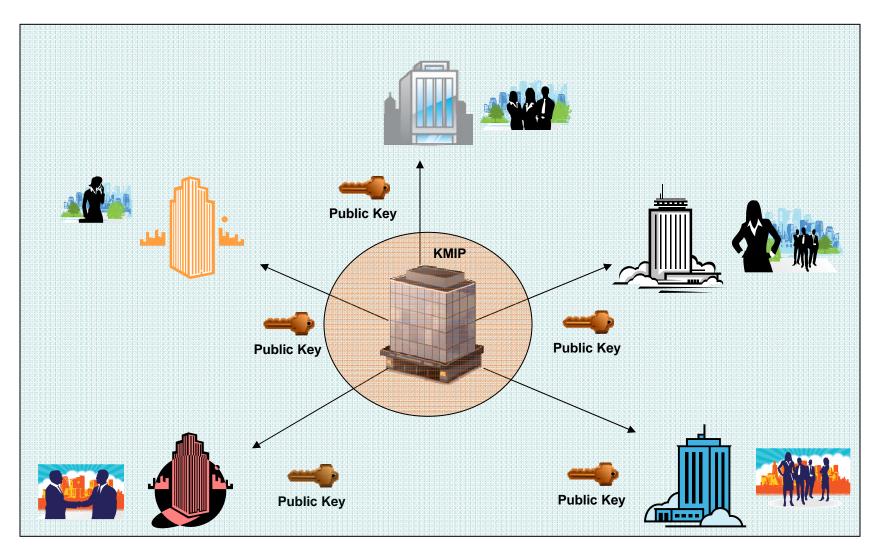


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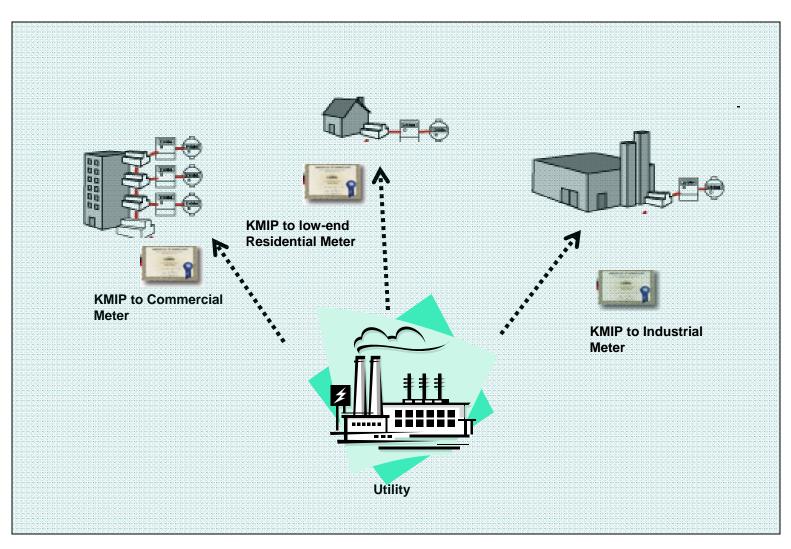
KMIP: Single Protocol Supporting Enterprise Cryptographic Environments



User Identity with Asymmetric Keys

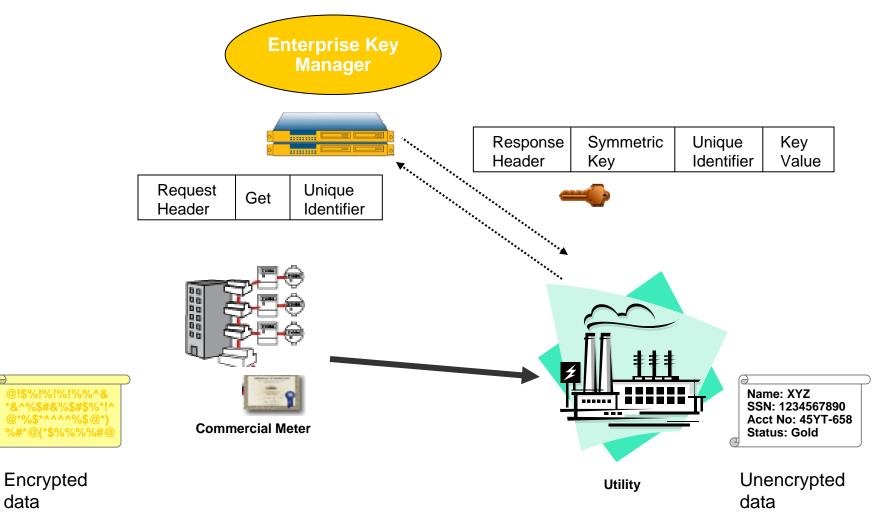


Infrastructure Entity Identification



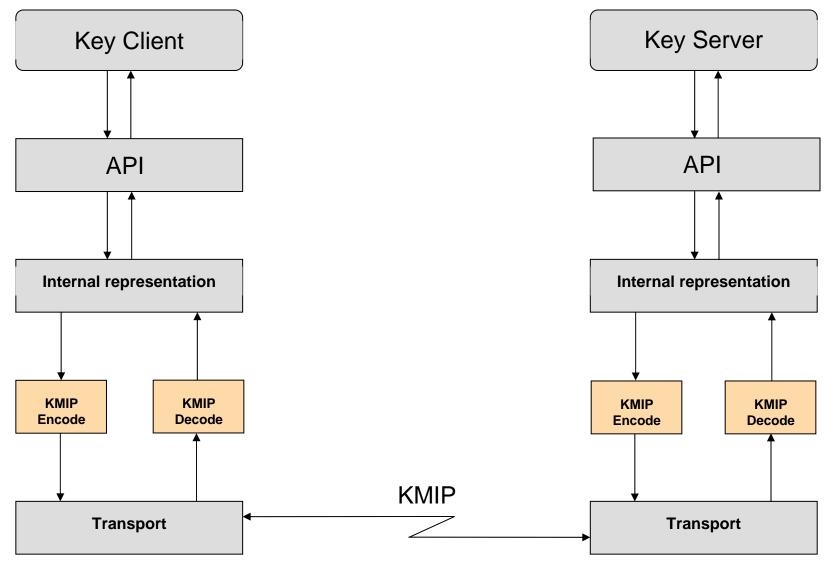


KMIP Request / Response Model

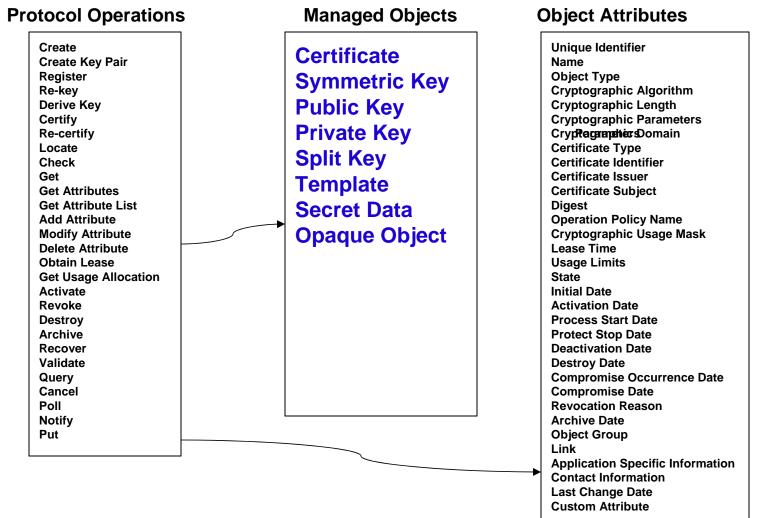




Transport-Level Encoding



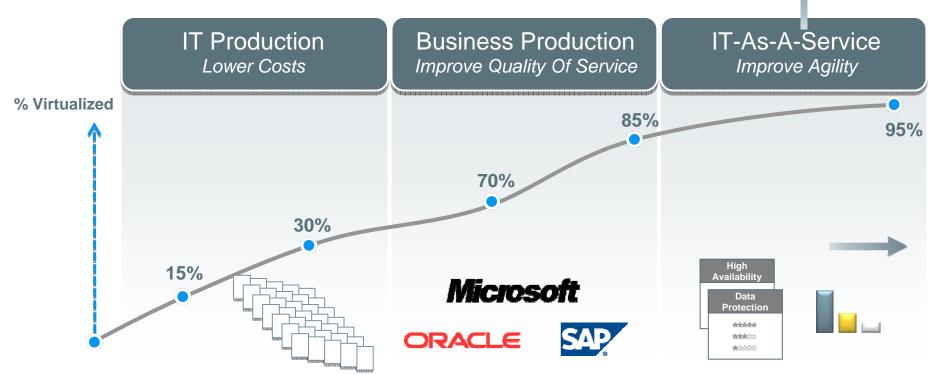
Objects, Operations and Attributes





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IT Transformation



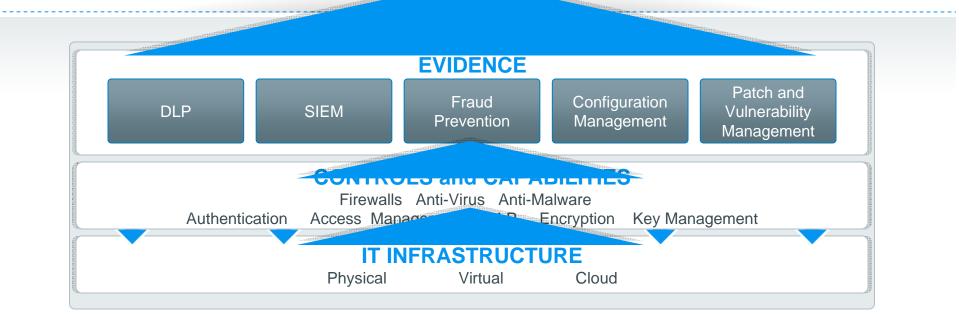
- Secure multi-tenancy, verifiable chain fo trust.
- Information-centric security, risk-driven policies, IT and security operations in alignment, information compliance
- Visibility into virtualization infrastructure, privileged user monitoring, access management, network security, infrastructure compliance



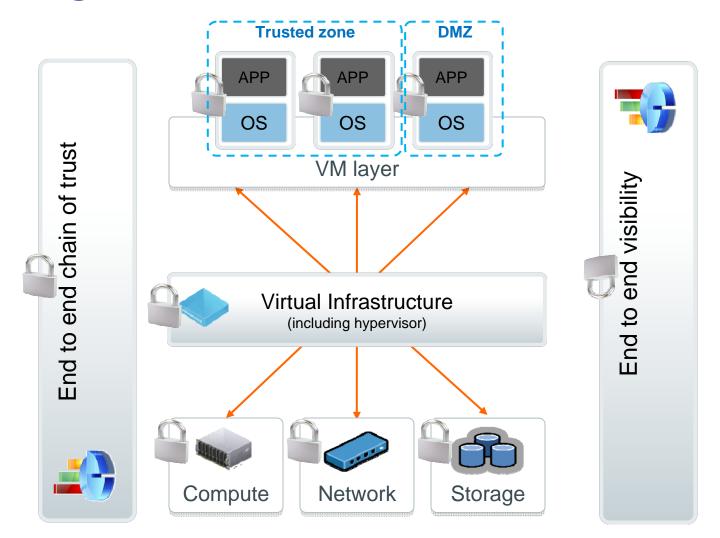
Security as a System

Business Strategy and Risk





The Need to Extend Enterprise Key Management



Establishing the Web of Trust

