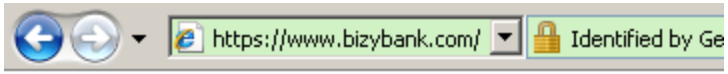
CA/Browser Forum Update

November 29, 2012

CAB Forum: A Brief History



- ✓ CABF starts as a loose association of CAs and browsers to draft guidelines for EV SSL Certificates
- ✓ Membership expands globally, currently 32 CAs and 5 browsers
- ✓ EV Guidelines generated and approved
- ✓ Baseline Requirements formulated and passed
- ✓ Network Security document created and finalized
- ➢ All publicly trusted CAs, whether members of CABF or not, must adhere to guidelines!

General Updates

- Baseline Requirements 1.0: Passed (1.1 added)
- EV Guidelines 1.4, including EV Code Signing: Passed
- Network Security Requirements: Passed
- IPR policy: Passed (but being revised)
- Various Errata: Passed
- Governance Reform: New proposal passed
- WebTrust audit criteria for BRs expect to be finalized in CY Q1 2013
- Baseline Requirements are included in Draft ETSI TS 102 042 V2.2.3 (2012-10) and referenced as “PTC-BR Publicly-Trusted Certificate-Baseline Requirements”

➢ **CAB Forum is moving forward to effect positive changes to improve Internet security**

Overall CA Security

- As good as the weakest player
- Compromise of one CA can lead to an overall Internet security incident:
- Examples:

  Diginotar → Negligent in maintaining proper security

  – Weak passwords

  – No A/V

  – Improper network segregation

  Comodo

  – Reseller compromised, allowing issuance of any type of certificate

  – SQL Injection vulnerabilities, insecure application/credential management

What about Audits?

- Two types of Audits trusted by browsers:
  - WebTrust: AICPA/CICA
  - ETSI: Country accredited auditors (European)
- Diginotar passed an ETSI audit performed by PwC
  - Audits are a snapshot at a point in time
  - How did Diginotar perform on the audit?
    - Attestation letter
  - How do we explain their security lapses?
  - Is PwC at fault? Who determines this and who punishes (if applicable)?
- CAB Forum → working with AICPA and ETSI to improve audit accountability

CA/Browser Forum Baseline Requirements

- Forum had been working on Baseline Requirements for 2+ years
- Version 1.0 released in Fall 2011 (after Diginotar/Comodo)
- 1.0 did not address physical/network security
- Separate document developed for network security which may become part of Baseline Requirements
- CABF released V1.1 to include updates and improvements to 1.0

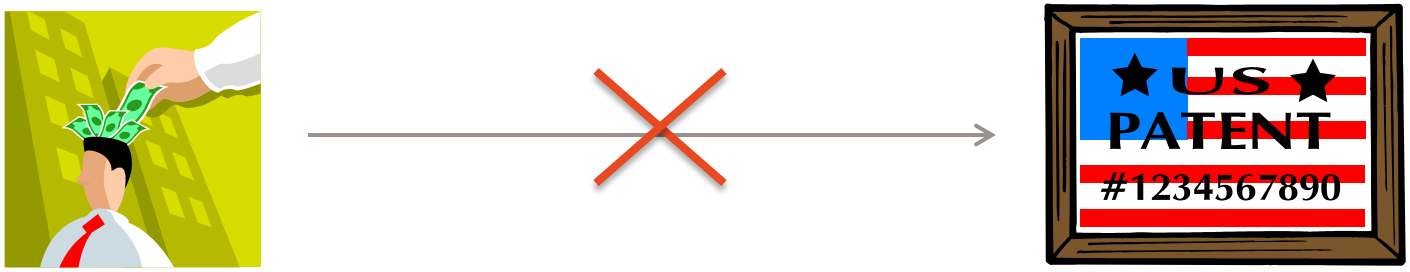
- Will be added to audit regime once auditors approve

CA/Browser Forum restructuring

- CAB Forum seen as closed group, not open to outside
- Governance working group formed to solicit proposals for reform
  - Transparency
  - Openness
  - Voting rights
  - Incorporation
- Multiple proposals received ranging from complete restructuring to minor changes to allow visibility in current process
- Goal is to better represent other stakeholders (relying parties, users) in CABF rulemaking
- Proposal from Trend Micro voted in. Reforms to start after ratification

Intellectual Property Rights (IPR)

- CABF needs an IPR policy
  - RF licensing, some members uncomfortable without one
- V1.0 passed August 2012→Several members did not sign
- IPR WG formulating compromise to satisfy all
- Exceptions proposed for standards bodies and govts



Symantec's Experience

- CAB Forum participation requires extensive coordination between internal groups
  - Policy, Engineering, Product management, Legal, Sales
- Consideration: Four brands, several systems, global auth teams, global revocation infrastructure, millions of certs
- Monthly meetings held to review status
- Forming the right balance between customer needs and security

➢ CABF membership is an important commitment for Symantec

Raising the bar for Physical, Network Security, Revocation infrastructure

Thank you!

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