

Authentication. Security. Trust.





Mitigating the impact of security incidents in trust services providers

WORKSHOP ON SECURITY ASPECTS OF TRUST SERVICE PROVIDERS

Who am I?

- Steve Roylance, Business Development Director GlobalSign (from 2006)
- A decade of experience as a Certification Authority
- 23+ years in the IT industry
- Founder of the CA/Browser Forum
- Pleased to be able to speak today!

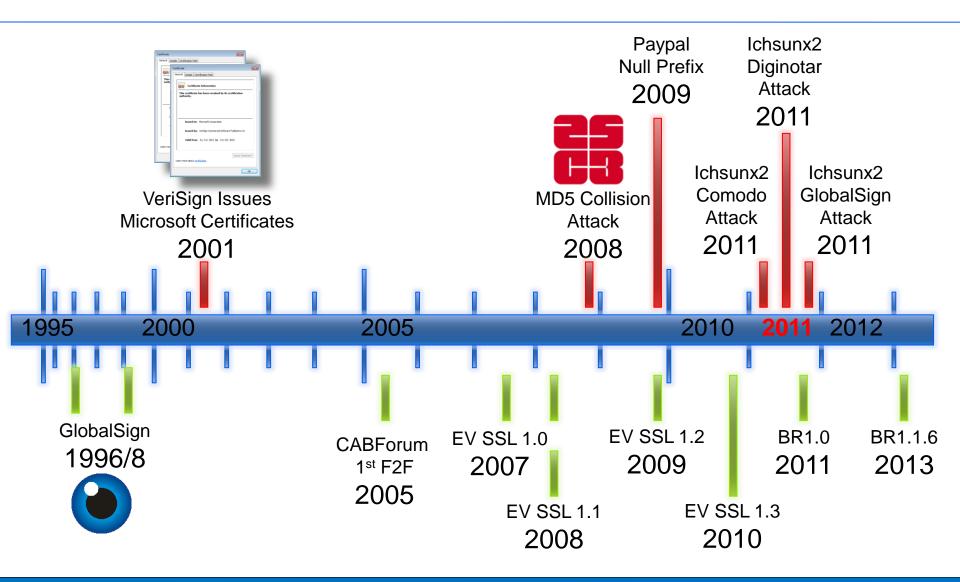


GlobalSign History

- Founded in 1996 by BE Chambers of Commerce, ING Bank & Vodafone.
- Founding Member of CA/Browser Forum/ CASC
- Acquired by GMO Internet Inc (ticker 9449 on the Tokyo Stock Exchange)
 & re-launched in 2006
- A 'Pure Play' CA.

EVOLUTION OF THE BRAND EVOLUTION OF THE BRAND GlobalSign GlobalSign GlobalSign

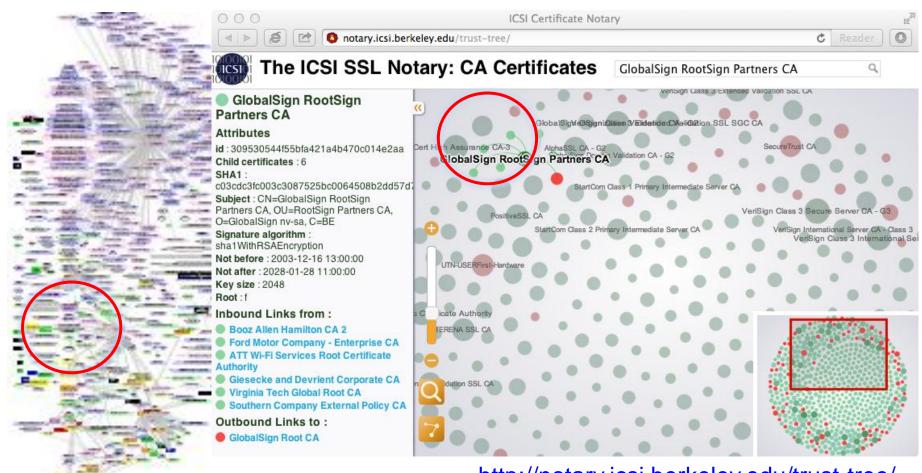
2011 - "Annus Horriblis"



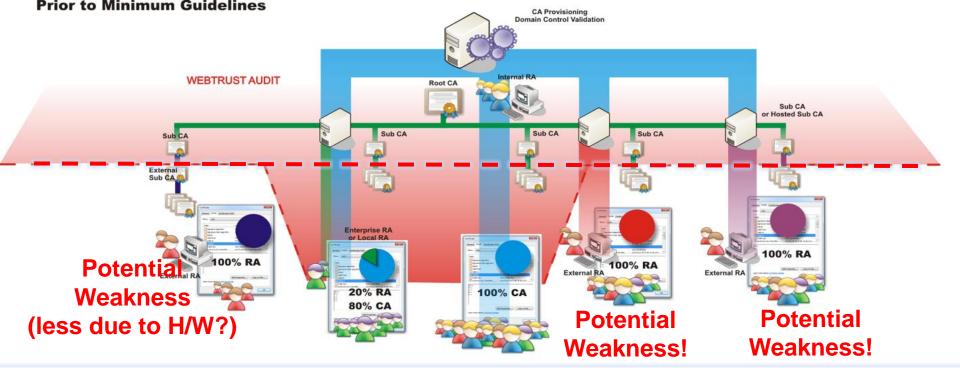


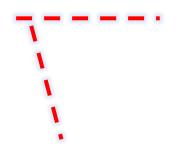
EFF and ICSI list attack targets!

http://www.eff.org/files/colour_map_of_CAs.pdf



http://notary.icsi.berkeley.edu/trust-tree/





Name Constraints – Baseline Requirements

Document History

| Ver. | Ballot | Description | Adopted | Effective* |
|-------|--------|--|--------------|--------------|
| 1.0.0 | 62 | Version 1.0 of the Baseline Requirements Adopted | 22-Nov-11 | 01-Jul-12 |
| 1.0.1 | 71 | Revised Auditor Qualifications | 08-May-12 | 01-Jan-13 |
| 1.0.2 | 75 | Non-critical Name Constraints allowed as exception to RFC 5280 | 08-Jun-12 | 08-Jun-12 |
| 1.0.3 | 78 | Revised Domain/IP Address Validation, High Risk Requests, and | 22-Jun-12 | 22-Jun-12 |
| | | Data Sources | | |
| 1.0.4 | 80 | OCSP responses for non-issued certificates | 02-Aug-12 | 01-Feb-13 |
| | | | | 01-Aug-13 |
| | 83 | Network and Certificate System Security Requirements adopted | 03-Aug-13 | 01-Jan-13 |
| 1.0.5 | 88 | User-assigned country code of XX allowed | 12-Sep-12 | 12-Sep-12 |
| 1.1.0 | | Published as Version 1.1 with no changes from 1.0.5 | 14-Sep-12 | 14-Sep-12 |
| 1.1.1 | 93 | Reasons for Revocation and Public Key Parameter checking | 07-Nov-12 | 07-Nov-12 |
| | | | | 01-Jan-13 |
| 1.1.2 | 96 | Wildcard certificates and new gTLDs | 20-Feb-13 | 20-Feb-13 |
| | | | | 01-Sep-13 |
| 1.1.3 | 97 | Prevention of Unknown Certificate Contents | 21-Feb-13 | 21-Feb-13 |
| 1.1.4 | 99 | Add DSA Keys (BR v.1.1.4) | 3-May-2013 | 3-May-2013 |
| 1.1.5 | 102 | Revision to subject domainComponent language in section 9.2.3 | 31-May-2013 | 31-May-2013 |
| 1.1.6 | 105 | Technical Constraints for Subordinate Certificate Authorities | 29-July-2013 | 29-July-2013 |

^{*} Effective Date and Additionally Relevant Compliance Date(s)



Open tasks (For GlobalSign)

- Move customers to Name Constraints
- Ask EFF and ICSI to distinguish constrained CAs
- Work with Apple to support Name Constraints!
- After XX years force Name Constraints to be mandatory.
- Perform outreach highlighting best practice techniques.