

Trust – the root of evil?!

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About Me

- Studies in Business Administration and Computer Science
- Focus on IT Security
- Working as IT Specialist for Customer Care and Lifecycle Support



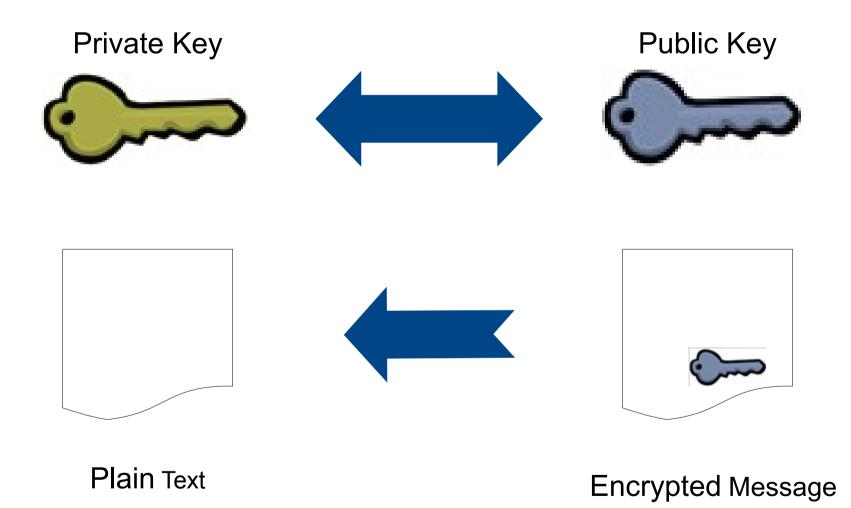


What We Talk About Today

PKI & CA Basics
The 2011 Cases
CAcert as Open Alternative

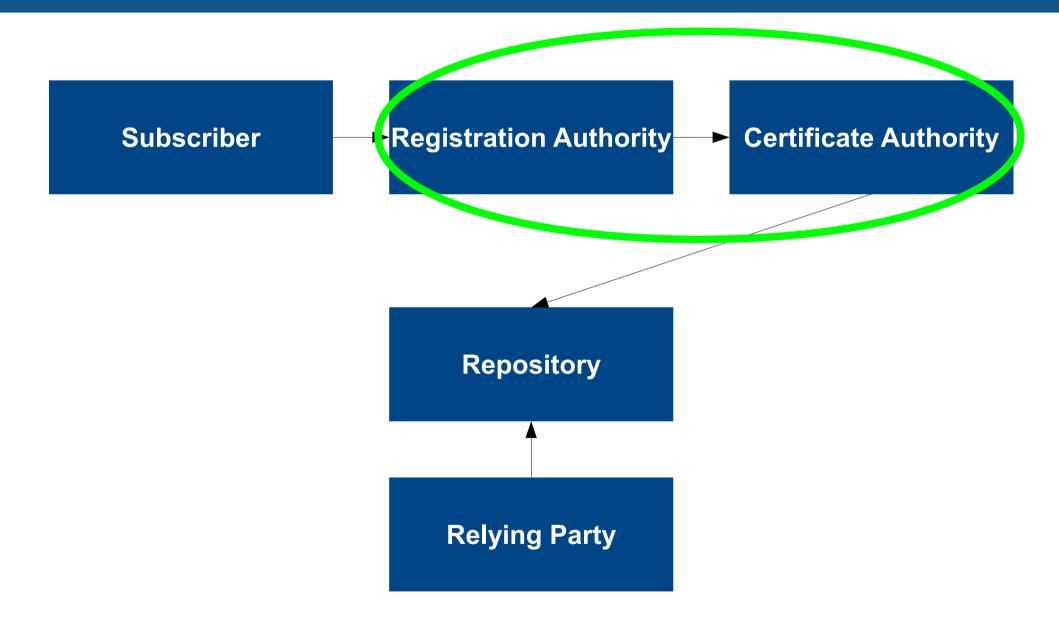


PKI Basics





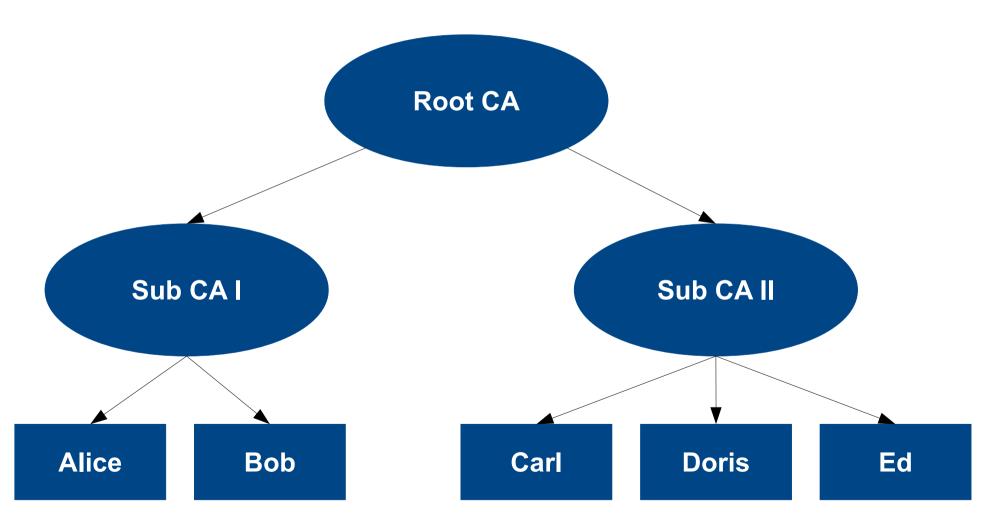
What Is A CA?





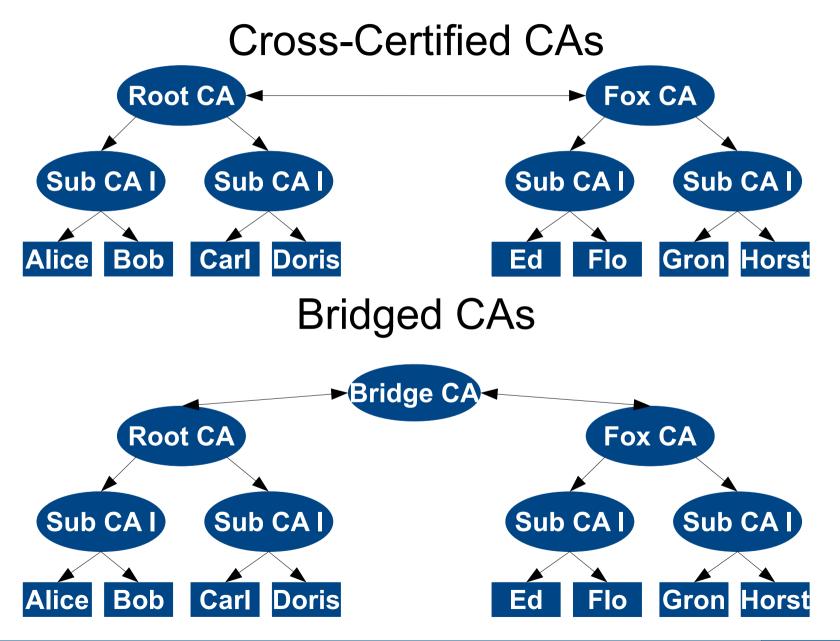
Trust Anchor 1/2

Hierarchical CA





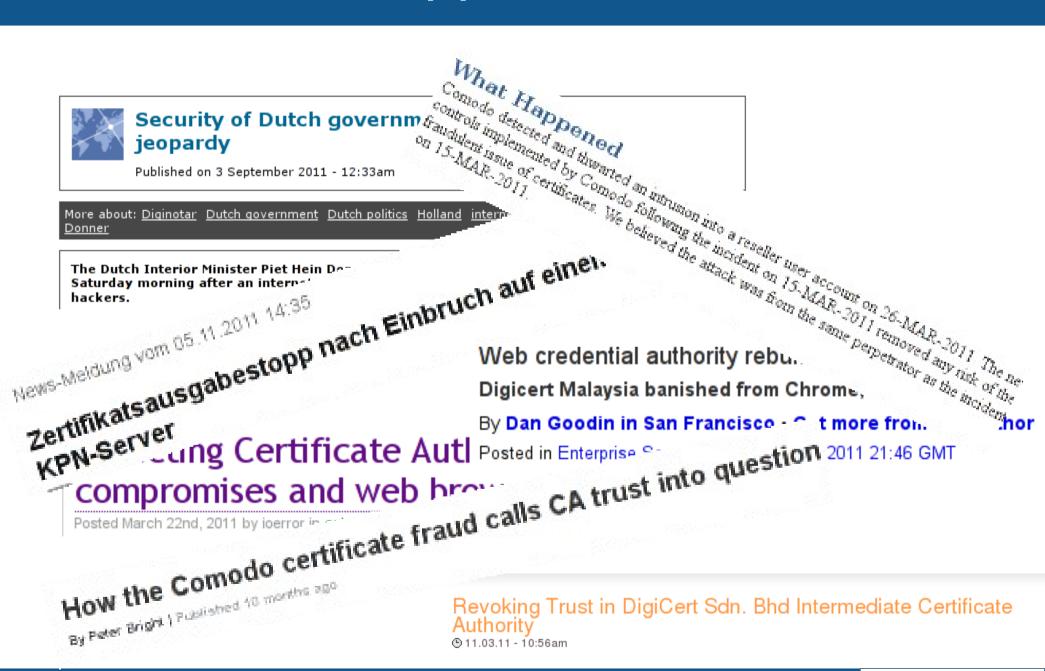
Trust Anchor 2/2





04.02.2012

What happened in 2011



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CAcert

Why do commercial CAs fail?

- Only basic verification of subscriber
- Certificates without any verification possible
- Reselling of CA-Services
 - Lack of control over the Intermediate CAs
 - Policies are not enforced over the trust chain
- Usage of weak keys is unknown to the public
- Server intrusion is not communicated





Lessons Learned?

What need to be done:

- Open Policies & Open Governance
- Transparent Processes
- IT Security and Data Protection
- Exact Identity Check

There is one open and free CA that lives this:





How about CAcert?

CAcert protects its RA by

Identification following policies

Registration Authority

- Identification checked by at least 2 assurers
- Arbitration
- CAcert protects its CA by
 - Two-Men rule
- Open Source with code reviews
- Audit log of certificate creation

Certificate Authority



The Main Question

?

When does CAcert gets into the browsers?





Questions & Answers

Your Questions, Please!





Thank You For Your Attention!

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