

Digital Certificate

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Symptom (öffentlich)

Problem (öffentlich)

Lösung (öffentlich)

An electronic "document" based on the International Telecommunications Union (ITU) X.509 (1988) standard consisting of a public/private key pair; their usage is governed by a Policy and a Practice Statement. They can be used for verification, encryption and digital signing. A digital certificate can also serve as an electronic notary seal (stamp). A certificate contains a digital signature, verified by another certificate - this creates a chain of certificates that ends with the 'root' certificate (which is self-signed); the owner of the root certificate is called the Root CA.

A Trust Policy can specify appropriate uses for a certificate: "should I trust this certificate for this action?". For example an S/MIME policy specifies that in order to be trusted to verify a digitally signed email, a certificate must contain an email address that matches the address of the sender of the email. This should also be part of an Assurance Framework.

The structure of a digital certificate is: Certificate

- ... a. Version . . b. Serial Number . . c. Algorithm ID

- ... d. Issuer
 ... e. Validity
 ... i. Not Before
 ... ii. Not After
 ... f. Subject
 ... g. Subject Public Key Info
 ... i. Public Key Algorithm
 ... ii. Subject Public Key
 ... h. Issuer Unique Identifier (Optional)
 i. Subject Unique Identifier (Optional)
- . . i. Subject Unique Identifier (Optional) ... j. Extensions (Optional) Certificate Signature Algorithm

Certificate Signature.

Source: "http://identityaccessman.blogspot.com/2006/08/identity-dictionary.html"