

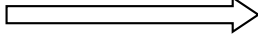
A (Alice)

is trusting CA 2

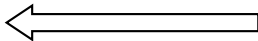
B (Bob)

CA 1

(1) Request for identity
and random number n



(2) Certificate of B and
number n crypted with
the private key of B



Certificate of B

Identity of B

Public Key of B

Identity of CA 1

Signatur of CA 1

The number n which was
crypted by B can be decrypted
with the public key of B.

Hence, the identity of B is
valid, if CA 1 can be trusted.

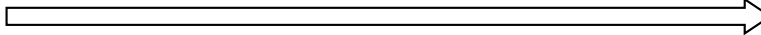
Problem: CA 1 is unknown
Solution: Check certificate
of CA 1

The number n which was
crypted by CA 1 can be decrypted
with the public key of CA 1

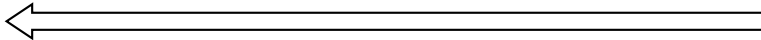
Hence, the identity of CA 1 is
valid, if CA 2 can be trusted.

CA 2 is pre-configured to be
trusted. From this it follows
that the identity of B is valid.

(3) Request for identity
and random number n



(4) Certificate of CA 1 and
number n crypted with
the private key of CA 1



Certificate of CA 1

Identity of CA 1

Public Key of CA 1

Identity of CA 2

Signatur of CA 2