

On Trust Establishment in Mobile Ad-Hoc Networks

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Trust

– reliance on the integrity, strength, ability, surety, etc., of a person or thing.

Real Life

- Trusting a Colleague
- Trusting a Colleague's Trust about another Colleague

Computer Network

- Trusting a Node
- Trusting a Node's Trust about another Node

Transitivity

$A \rightarrow B \rightarrow Y$

How Things work in Internet

Internet

- Certification Authority certifies someone.
- That Certificate is stored in a Directory Server
- People contact the Directory Server to fetch that Certificate in order to establish "Trust" on "Someone"

Real Life

- Your Trusted Friend trusts someone
- "Someone" contacts you with Reference to your "Trusted Friend"
- You call your "Trusted Friend" to confirm his Trust