

Is Sacrifice of Privacy for Internet Mobility Really Necessary?

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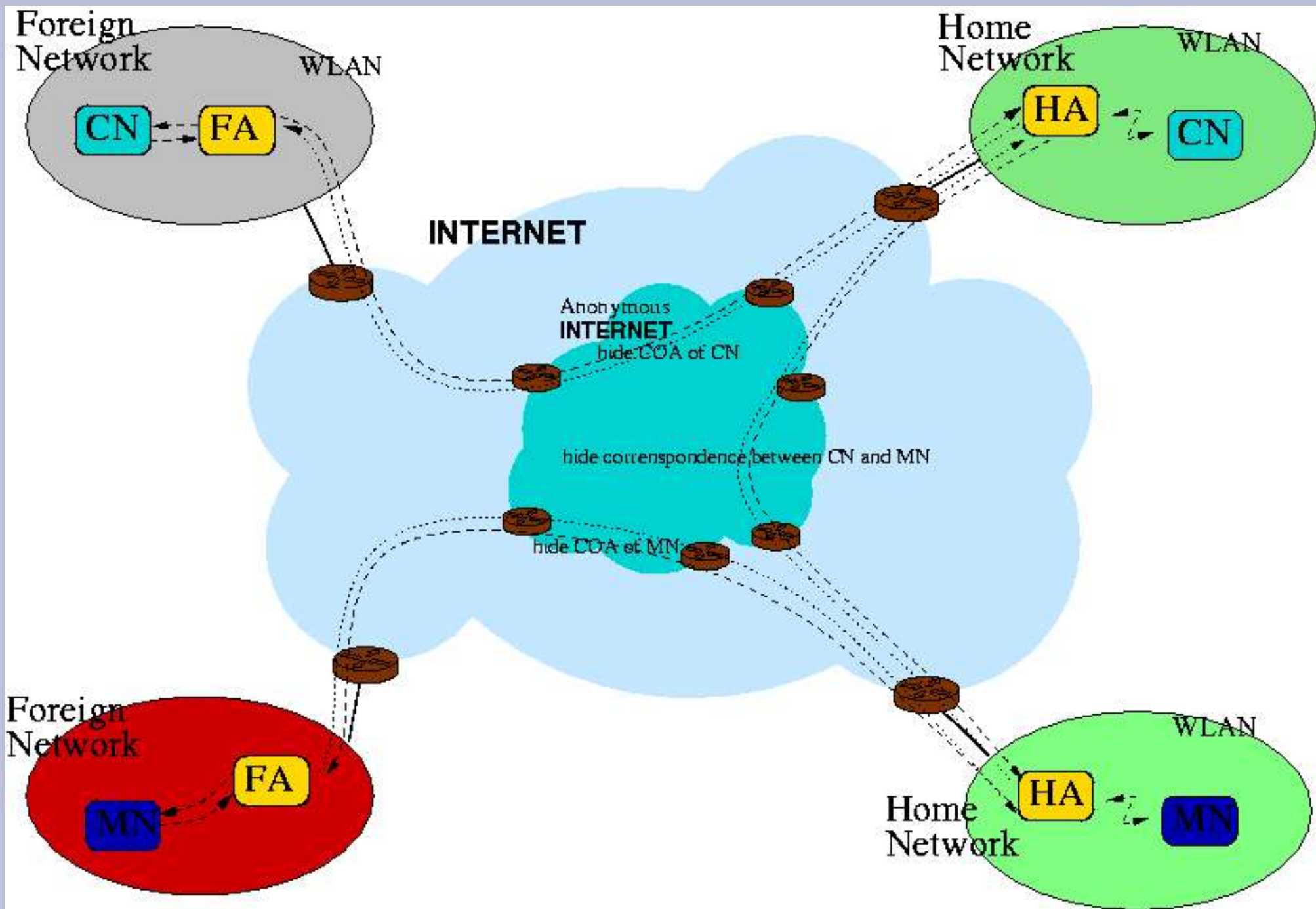
Location Security for Mobile IP

PET2004 Rump Session

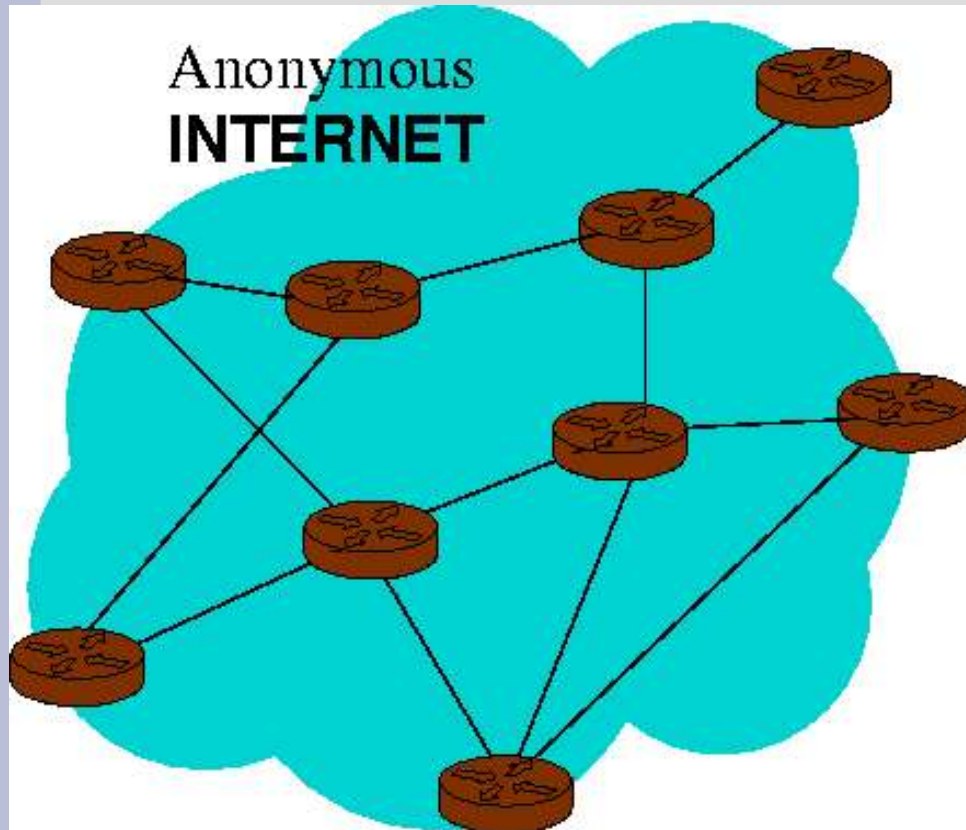
Long-Time Goals

In Mobile Computing location information useful as the messages themselves.

- Unobservable communication for Mobile Nodes.
- Full protection against powerful active and passive observers.
- Cannot afford delays
(No time for Mixing or Overlay network).
- Assumption: Cannot avoid triangular routing without the loosing.
- Implement on network-layer.



The Anonymous Internet



- Network of agents.
- Encrypt channels between agents on network layer (by using IPSec).
- Remove all kind of traffic patterns between sender and receiver.
- Hide messages in continuous flow of (dummy) traffic (back to line based connections).
- Need new routing protocols. (who helps?)

Some Notes about Privacy Issues in South Africa

Constitution of South Africa: “The Right to Privacy”

14. Everyone has the right to privacy, which includes the right not to have

1. their person or home searched;
2. their property searched;
3. their possessions seized; or
4. **the privacy of their communications infringed.**

But nobody cares ... (email/firewall examples)

The Speak Loud, Be Honest Argument

- Privacy is a recent invention of human history.
- In many African countries volume of speech (loud) means showing honesty.
- Privacy = luxury .../... Privacy = naturally?
- The student from rural area will have great difficulties to understand why powerful privacy-enhancing technologies are very important.
- We need more and better arguments to explain the necessity of strong multilayer privacy in information technology.

Your PC, Your Responsibility,

say banks

July 26, 2003

“Inadequate security on your personal computer, or PC, that you use for Internet banking is the equivalent of putting your money on the pavement outside your house and hoping that nobody takes it.”

This is the view of one computer expert commenting on the hacking into personal computers of Absa online accountholders who lost more than R500.000 this week.

<http://www.persfin.co.za/index.php?fSectionId=592&fArticleId=196530>

To Audience

- Other projects on Location Security / Unobservability on the network layer?
- What about anonymous routing protocols?
- Videostream or record the next PET-Workshop?

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