

Establishing a security policy : Solo young hackers



- What is the **system** under attack?
 - Who are the **principals**?
 - What are their **assets**?
 - What are the **security properties** to maintain?
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- What is the **threat model**?
 - What would be your **security policy**?

Establishing a security policy : State-level adversary

SUSPECTED SPYING

NSA accused of tapping Swisscom phone lines

By swissinfo.ch and agencies

IN DEPTH: NSA SPYING

MAY 27, 2015 - 17:42

The Swiss Federal Prosecutor's Office is investigating whether America's National Security Agency (NSA) tapped Swisscom phone lines. The accusation comes from Austrian parliamentarian and whistleblower Peter Pilz.

According to Pilz, Germany's foreign intelligence service gathered data from several countries on behalf of the NSA. Pilz presented a number of relevant documents in Bern on Wednesday, including a list of key transmission lines. A list from 2005 showed nine Swisscom lines ending in Switzerland: seven in Zurich, two in Geneva.



Swisscom phone lines have allegedly been tapped by the NSA

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The app of your dreams



Based on a recommendation from a friend, you have recently installed a new app on your phone that allows you to pre-order drinks at Satellite to avoid long queues on busy nights. The app is connected to your CAMIPRO account so that, once you have ordered the drinks through the app, your order is directly paid for from your account. Access to the app is PIN-restricted and each user can choose their own PIN when they first register.

Describe a **security threat** to this system, a **potential vulnerability** of the system in relation to this threat, and the **harm** that could result from a successful attack within this threat model. Propose an additional **security mechanism** that the developers should implement to minimise this threat.