

Data Stay Put - Android Privacy Protection

Motivation

Smart phones enable us to manage our contacts, plan our schedule, read our emails or simply surf the Internet everywhere, 24/7. For these services to work our phones need comprehensive access to a multitude of personal information. Personal information has become a valuable commodity in today's world, and not everyone is so nice as to ask for access to our data before using it for (possibly) nefarious purposes. In this project we look at how to track personal data on a smart phone to prevent leakage of privacy sensitive information.

Project description

To prevent information leakage it is first necessary to know where the information is going. We want you to develop a static code analysis tool to help analysing the information flows in the Android operating system and library functions. An accurate, method level transfer function model is essential for a meaningful runtime privacy protection, even in the face of malicious software.



Deliverables

- Static code analysis tool source code
- Documentation
- Presentation (15-20 min)

Scope and Credits

Studies: INF SEW TEL MATH

The scope, effort, and credits of this project are scalable.

Advisor / contact

Daniel.Hein@iaik.tugraz.at