

Software Security Aspects of Java-Based Mobile Phones *

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ABSTRACT

More and more functionality is provided by mobile phones today. This trend will continue over the next years. However, with the increasing functionality new risks go along. This not only applies to security-critical mobile applications such as e-mailing or e-commerce applications. The end user's privacy may also be in danger as the operator may be the target of an attack. In this paper, we discuss security risks introduced by mobile phones considering the perspectives of the different parties involved in telecommunication systems. Specifically, we demonstrate these risks by means of a security hole discovered in a large number of mobile phones. The security hole can be exploited to obtain manufacturer or even operator permissions. In particular, we implemented a Java-based Trojan horse. This way, the compromised mobile phone can be used as an eavesdropping device for an attacker. All in all, this demonstrates that the risks are not only theoretical, but also real. We also sketch a methodology for the security analysis of mobile phone software.

Categories and Subject Descriptors

D.4.6 [Security and Protection]: Invasive Software

General Terms

Security

Keywords

Mobile Phone, Java Security, Static Security Analysis

1. INTRODUCTION

More and more functionality is incorporated into mobile phones. Current mobile phones not only provide the possibility to initiate and accept phone calls (SMS, MMS, and

other multimedia) can be sent or received. In particular, new applications such as Java MIDlets [10], small Java programs for mobile phones, can be downloaded or installed via Internet or Bluetooth. Furthermore, a broad number of Java Specification Requests (JSRs) are made available for mobile phones, again introducing new functionality which can be conveniently used, such as the MobileMedia API [11]. Given the fact that most of the people in developed countries possess a mobile phone and use these phones either for private or for business purposes, security and privacy-related data are stored on mobile phones such as lists with addresses of customers, bank data and lists of phone numbers.

As a consequence, one might assume that security and privacy seem to be at least important as in the PC world. Up to now, however, real users do not seem to be prepared for attacks on mobile phones, although some reports on hacking mobile phones already exist, e.g., [12, 25, 26]. In the future, it can be expected that the rate of security incidents will rise because of the increasing attractiveness of the attack target "mobile phone" [20].

In this paper, we show by means of a concrete security hole occurring in a large number of current mobile phones from Sony Ericsson which security risks can arise in the context of mobile applications. The security hole can be exploited by using simple Java API calls, and we have implemented a Trojan horse based upon this security hole. We also show that the end user can act as an attacker obtaining access rights originally not intended for him. For example, a user might circumvent digital rights management (DRM) mechanisms or obtain operator permissions. In the end, the security hole can be seen as a case study demonstrating security risks related to mobile phone platforms. This specifically applies to high-end mobile phone platforms such as BlackBerry and Android, which provide their own rich Java-based software.

We also briefly discuss a methodology for a static security analysis of the source code which Sony Ericsson could have employed for improving the security mechanisms of the Java Virtual Machine (JVM). The proposed analysis technique is based upon the Java Modeling Language (JML) [2], a specification language for Java, and employs related static analysis tools such as ESC/Java2 [3] as well as a custom engineering tool under the name DevSecur [28]. The DevSecur tool allows one to carry out an analysis on the software architecture, i.e., at a higher abstraction level. Therefore, a more focused security analysis at the source-code level can be performed with the help of JML tools.

The rest of the paper is structured as follows. In Section 2,

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