THE LAW OF MOBILE HACKING

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MOBILE SECURITY AND LEGAL ISSUES

» Installing Code on the Phone
» Studying Malware Distribution
» SMS Trojans/SPAM
» Spoofing the Base Station
» Hacking Other Peripherals

» Hacking your Work Phone
» Listening to Calls, Reading SMSs
» Location Tracking
» Securing from Law Enforcement Access
INSTALLING CODE

LOCKED PHONES (e.g. iPhone) DON’T ALLOW CODE INSTALLATION

- SDK LICENCE
- EULA
- TECHNOLOGICAL RESTRICTIONS

ANTI-CIRCUMVENTION PROVISIONS

- ACTS OF CIRCUMVENTION
- TRAFFICKING IN CIRCUMVENTION DEVICES

COPYRIGHT OFFICE RULEMAKING:

- INTEROPERABILITY WITH COMPUTER PROGRAMS TO RUN ON THE HANDSET
STUDYING MALWARE

LIMITED DISTRIBUTORS APP STORE/MARKETPLACE: REVERSE ENGINEERING PROHIBITED

APP LICENSE MAY HAVE A NO REVERSE ENGINEERING TERM

TECHNIQUES FOR DOING THE RESEARCH

- AVOID AGREEING TO THE EULA
- USE A NON-INFRINGEMENT COPY
- DESTROY COPY WHEN RESEARCH DONE
- CLEAN ROOM
SMS TROJANS

CAN SPAM ACT OF 2003

THE COMPUTER FRAUD AND ABUSE ACT (18 U.S.C. 1030)

TELEMARKETING CONSUMER FRAUD AND ABUSE PREVENTION ACT
(15 U.S.C. 1601-1608)

TELEPHONE CONSUMER PROTECTION ACT (47 U.S.C. 227)

FEDERAL TRADE COMMISSION'S AMENDED TELEMARKETING SALES RULE
BASESTATION SPOOFING

(See, e.g. Chris Paget’s IMSI Catcher from 2010)

FCC Regulations re: Licensed frequencies
Call interception: Wiretap Act
Traffic interception: Pen Register/Trap and Trace
Network Impersonation
Hacking Peripherals

Security cameras, traffic control systems, home automation systems controllable over the phone network

Unauthorized access:

- Are they computers?
- Requisite damage, loss?
HACKING YOUR OWN PHONE

EMPLOYMENT AGREEMENT
NON-DISCLOSURE AGREEMENT
TRADE SECRET MISAPPROPRIATION
CFAA?
LISTENING TO CALLS
READING SMS

INTERCEPTION OF CONTENT
ACCESSING STORED CONTENT
WHAT IS STORED?
WHAT IS ELECTRONIC STORAGE?
SERVICE PROVIDER EXCEPTIONS
LOCATION TRACKING

NEWS OF THE WORLD-STYLE
SOMETIMES, TRANSACTIONAL DATA IS CONTENT
  - WIRETAPPING OR PEN/TRAP?

GPS TRACKING
STALKING

INTRUSION INTO SECLUSION
OTHER PRIVACY TORTS?
GOVERNMENT ACCESS

CELL TOWER TRIANGULATION AND ECPA
GPS TRACKING, FOURTH AMENDMENT, LEAHY BILL
ECPA STATUS OF SMS MESSAGES: QUON V. ARCH WIRELESS
SEARCH INCIDENT TO ARREST
BORDER SEARCHES
Please turn in your completed feedback form at the registration desk.