THE LAW OF MOBILE HACKING

JENNIFER STISA GRANICK
ZWILLGEN PLLC
JENNIFER@ZWILLGEN.COM
WWW.ZWILLGENBLOG.COM
@GRANICK ON TWITTER

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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-INFRINGING 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 PERIPHIALS

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





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JENNIFER STISA GRANICK ZWILLGEN PLLC JENNIFER@ZWILLGEN.COM WWW.ZWILLGENBLOG.COM @GRANICK ON TWITTER





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EMBEDDING SECURITY