

w3c IVI Exploitation Discussion

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How a Hacker Examines a System

- Remove the target component
- Build a test bench
- Target Upload/Update Capabilities
- Access for JTAG/Disks
- Goal is to get to the OS

Low Hanging Fruit

- Right now exploitation is easy.
 - Poor update systems
 - Outdated versions with known CVEs
 - Misconfiguration with security “assumed”
 - Lack of encryption
 - Lack of segregation
 - No OS hardening

Goals

- Code Execution of course!
 - Vehicle Control
 - Vehicle Theft
 - Privacy and Spying

Stunt Hacking

- Currently my biggest headache



Exploitation Hurdles

- Possible VM
- Not connected to target bus
- Telematics are seperated
 - Really depends on the goal

Recent Published Hacks

ANDY GREENBERG SECURITY 07.21.15 6:00 AM

HACKERS REMOTELY KILL A JEEP ON THE HIGHWAY—WITH ME IN IT

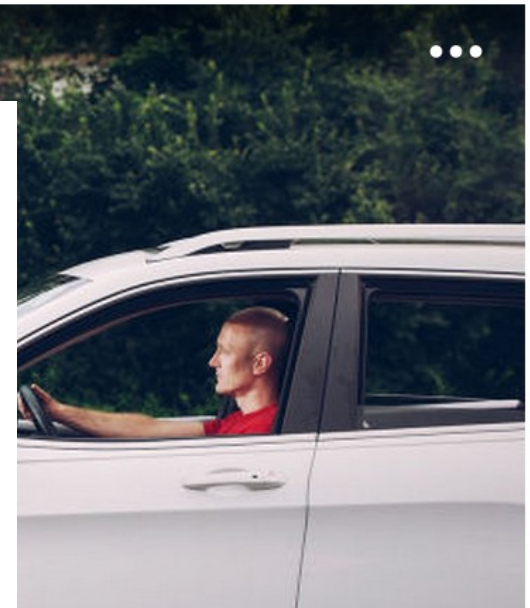
Hackers Remotely Kill a Jeep on the Highway—With Me in It

Technology

Car hack uses digital-radio broadcasts to seize control

By Chris Vallance
BBC Radio 4

🕒 22 July 2015 | Technology



Q&A on Detail Exploitation

