CAR HACKING AT DEF CON 26

by: Mike Szczys

9 Comments

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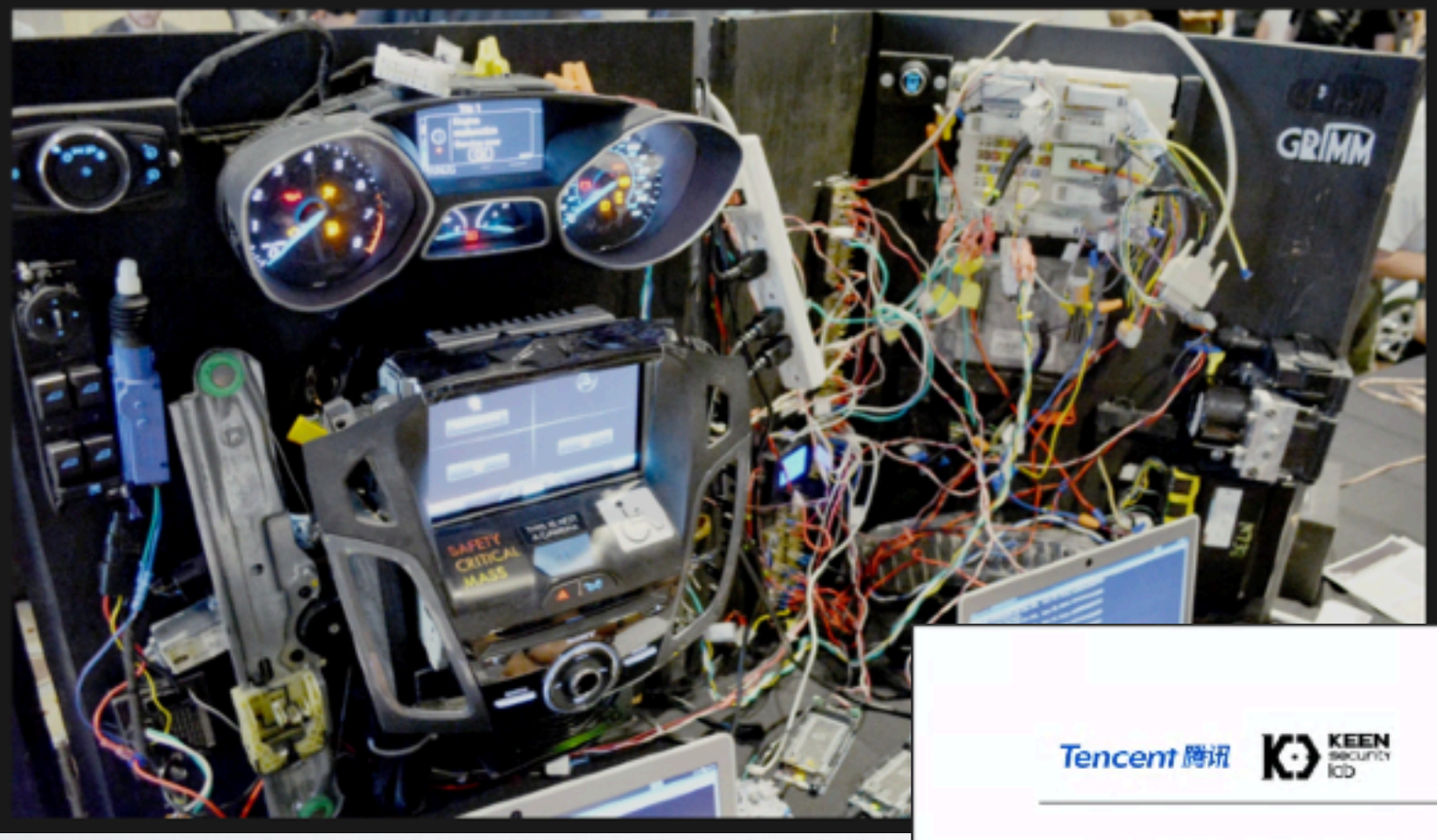

Hackaday

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FREE-FALL: HACKING TESLA FROM WIRELESS TO CAN BUS

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ABSTRACT

In today's world of connected cars, security is of vital importance. The security of these cars is not only a technological issue, but also an issue of human safety. In our research, we focused on perhaps the most famous connected car model: Tesla.

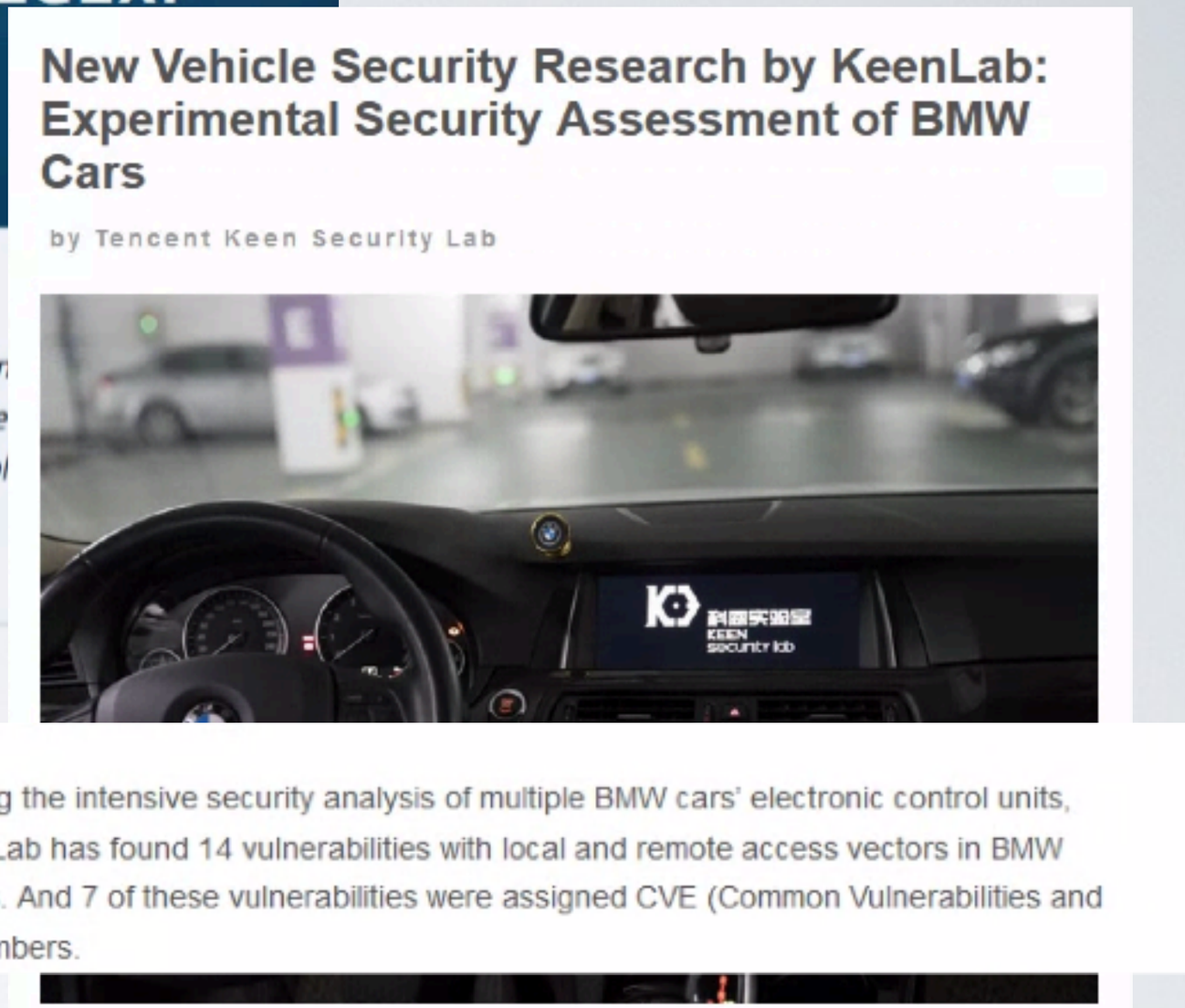
In September 2016, our team (Keen Security Lab of Tencent) successfully implemented a remote attack on the Tesla Model S in both Parking and Driving mode.[1-3] This remote attack utilized a complex chain of vulnerabilities. We have proved that we can gain entrance from wireless (Wi-Fi/Cellular), compromise many in-vehicle systems like IC, CID, and Gateway, and then inject malicious CAN messages into the CAN Bus. Just 10 days after we submitted our research to Tesla, Tesla responded with an update using their OTA mechanism and introduced the code signing protection into Tesla cars.

Keen Security Lab

August 2017

Zero Day Initiative

December 2019



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