Mobile App Security Issues in the Automotive Sector and Possible Improvements

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SHORT INTRODUCTION

- Tom Lysemose Hansen, CTO, Promon
- Norway Research Background from University of Oslo and SINTEF
- Promon – Provides Mobile App Hardening and Self Protection technologies
~ CONTENT OVERVIEW

- How a Tesla was stolen by hacking the app
- Why is App Security important?
- What can we learn from other industries?
WHY IS APP SECURITY IMPORTANT?

- Mobile Malware: is increasing
- Mobile Operating Systems: Can not be trusted
- Business: Brand damage, customer and end-user trust
- Hazard: IP, trade secret, and data theft
HOW A TESLA WAS STOLEN BY HACKING THE APP

Important note: Responsible Disclosure: Tesla was informed well ahead of going public. Promon did not, and will not, provide technical details which would help 'the bad guys' (time or knowledge)
Mobile Operating Systems - should not be trusted
WHAT CAN WE LEARN FROM OTHER INDUSTRIES?

The financial industry faces a number of mobile app security requirements (PSD2 directive)

- Strong Authentication
- Adopt security measures to mitigate risks resulting from the mobile device being compromised
- Security controls to **detect, prevent and respond** to the alteration of mobile apps

Source: Article 9, PSD2 (Payment Service Directive)
~ THANK YOU ~

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