

Domains for security in automotive systems

<https://www.wired.com/2015/07/hackers-remotely-kill-jeep-highway/>

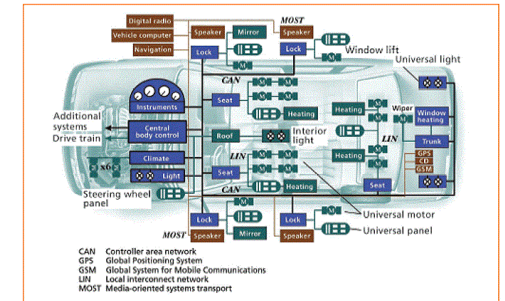


Protect individual ECU

ECU as secure part of the architecture

Protect in-vehicle network

vehicle as network of components
(e.g. CAN bus ...)



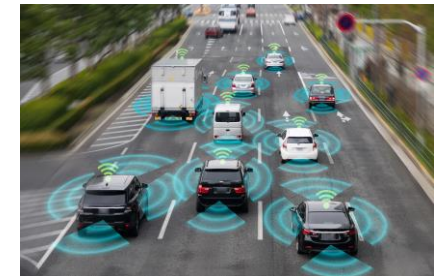
Examples:

- Jeep Cherokee del 2015
- Tesla Model S del 2016
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As new functionalities and technologies are introduced in automotive industry, a security-aware safety development process has become a crucial factor.

Protect connected vehicle

connected vehicle as node
in a larger scale network



Car2Car

Cloud service providers

(e.g., Hazard Light Alert service)

