

Uses of mobile WiFi Access Points: Entertainment and Fun

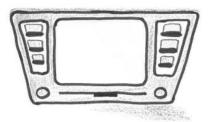
Increasing use of WiFi Access Points in Vehicles

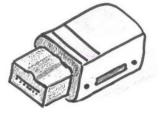
- Infotainment
- **Internet connectivity** (via cellular networks)
- Connecting Smartphones:
 - Android Auto
 - Apple CarPlay

Bluetooth has insufficient

bandwidth

Form factors:





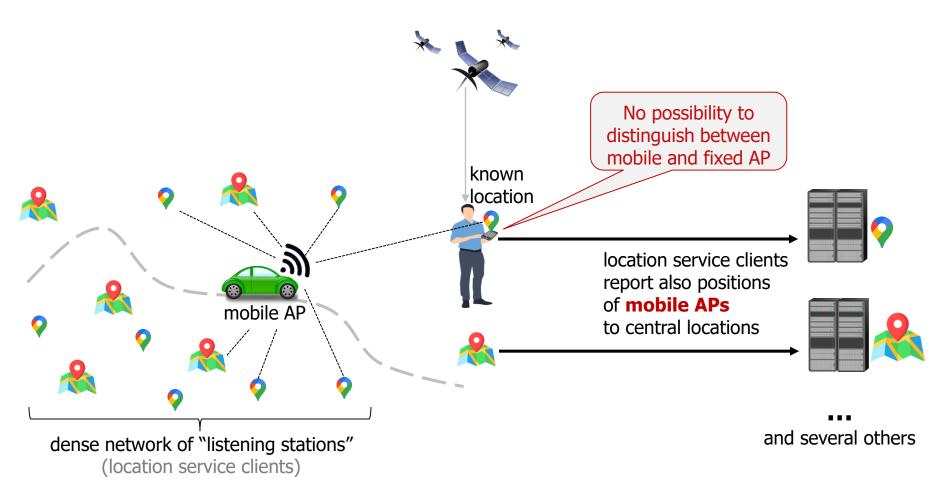


WiFi identifiers never change

Ullmann et al: "secondary vehicle identifiers"



Location services systematically track (mobile) access points





Recommendations Context: WiFi tracking

(mobile APs, location services)

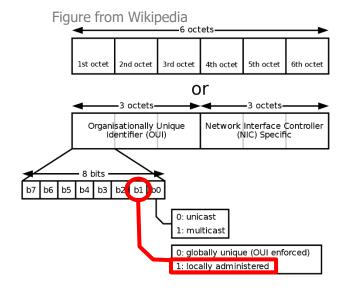
Who: IEEE P802E

Proposed Action:

Mandate to mark all mobile
Access Points with locally
administered MAC addresses

Benefits:

- Location service clients can then recognize and exclude mobile APs from processing
- Ongoing systematic, global tracking of mobile APs can be stopped



Structure of a 48-bit MAC address

(source: Wikipedia)



Contact, Details, Acknowledgements

Detailed Report:

https://uldsh.de/lstrack

Contacts:

- Marit Hansen
- Bud P. Bruegger <uld613@datenschutzzentrum.de>

Acknowledgements:



