

OUTLOOK – 5G Verticals: Security and Privacy in V2X, Digital Payment and E-Health

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Outline of the paper

- Introduction
- Security and Privacy
- 5G verticals
 - Vertical 1: V2X
 - Vertical 2: Digital Payments
 - Vertical 3: e-health



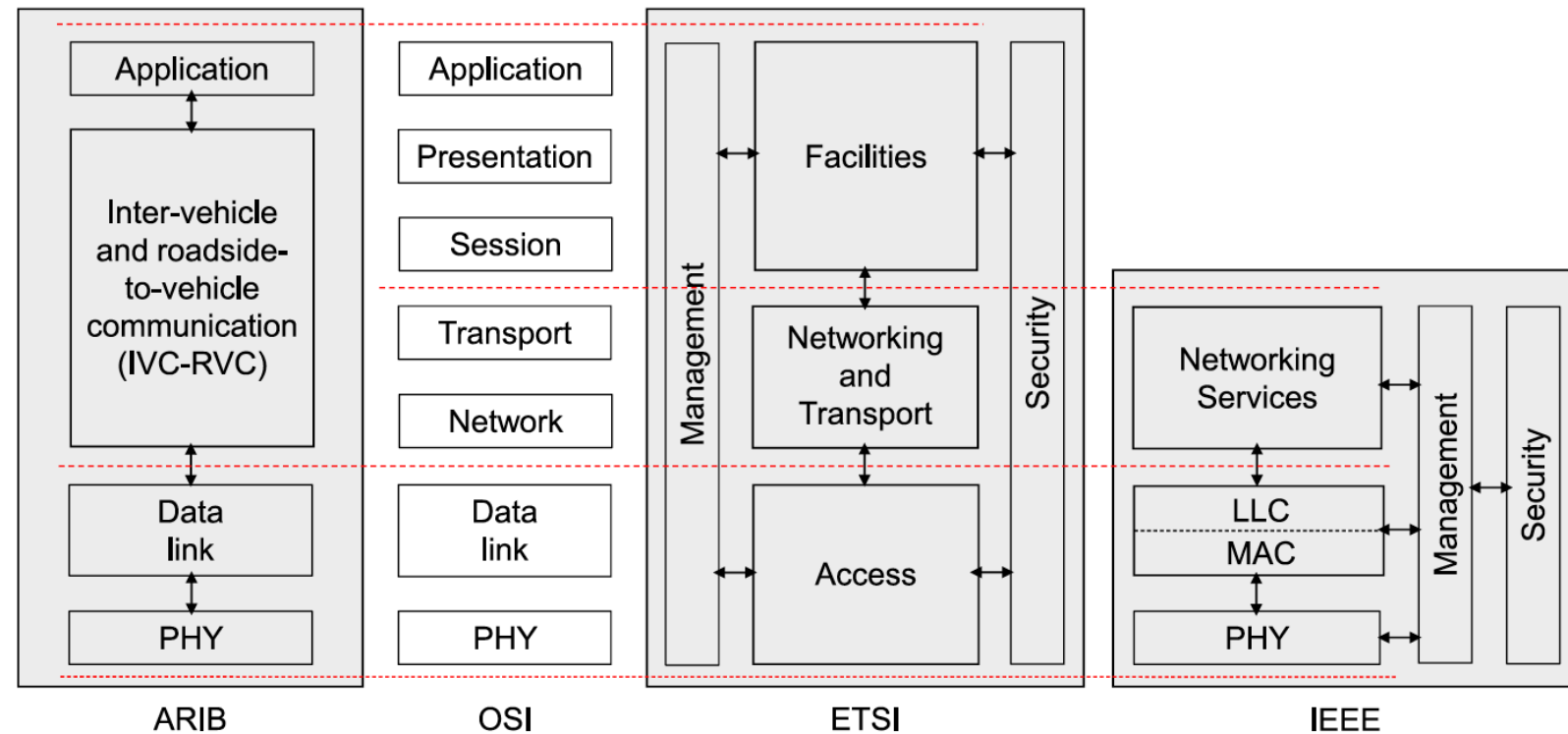
Security and Privacy

- Focus on the specific aspects of security and privacy
 - Security
 - Authentication, Authorization and Accounting (AAA)
 - Key Agreement Protocols
 - Fine Grained Authorization
 - Federated identities and Single Sign on (SSO)
 - Privacy
 - Identity Protection
 - Anonymization and Pseudonymization
 - Privacy by Design
 - Identity and Access Management Systems
 - Attribute Based Credentials (ABCs)
 - User Managed Access (UMA)
 - Also looking into the Regulation

Vertical: V2X

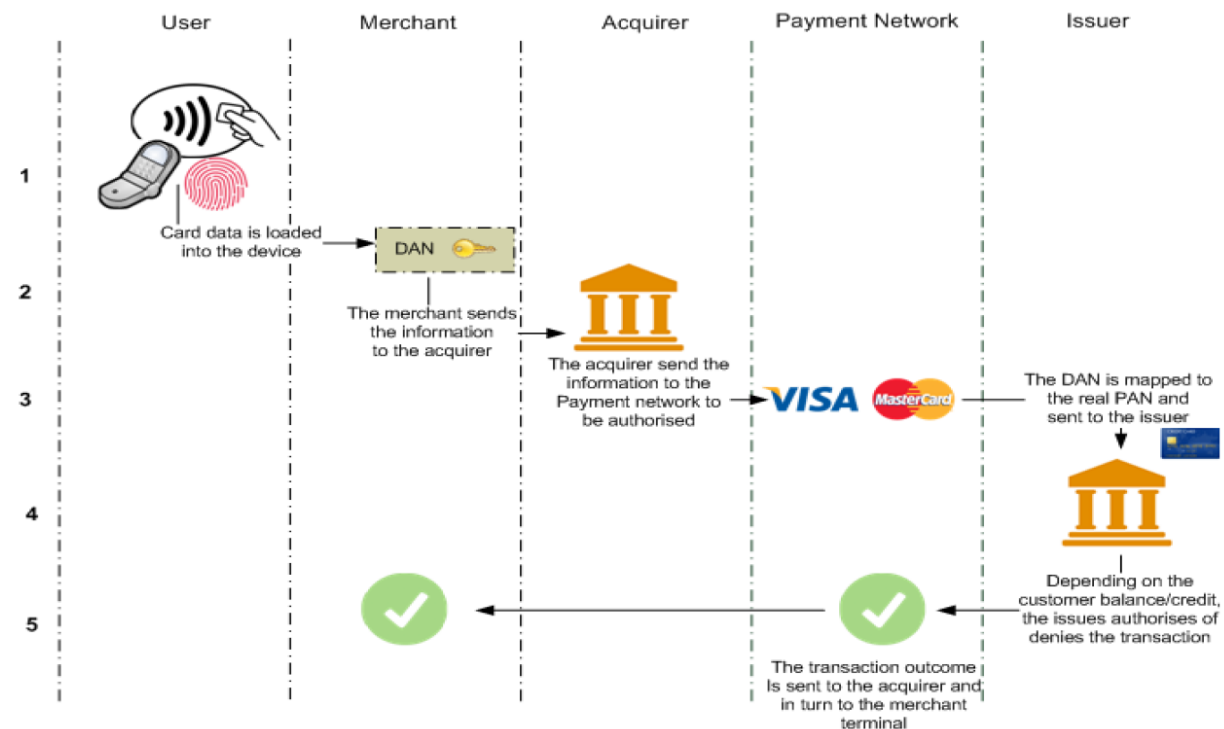
- V2x Security Overview

- Security in ETSI ITS & IEEE DSRC
- Harmonization of ETSI ITS and DSRC WAVE
- 3GPP V2X Security
- Privacy in V2X



Vertical: Digital Payment

- Digital Currencies
 - Payment Solutions
 - Apple and Android payments
 - Crypto currencies & Use of block chains
 - Mobile payments and Digital Wallets
 - Threat Model
 - Payment Service Directive 2 (PSD2)





Vertical: E-health

- Security and Privacy in
 - Healthcare applications and areas of interest by 5G PPP
 - Assets and interventions management in Hospitals
 - Asset Tracking and Management
 - Remote Monitoring of health and wellness data
 - Ageing Well
 - Life style and Prevention
 - Assisted living
 - Smarter Medication
 - Smart Pharmaceuticals



Related Areas

- Overall Architecture
 - Security and Privacy
- Regulation
 - GDPR, HIPAA, PSD2



Conclusion

- Timeline of the paper -

Call for contributions:

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