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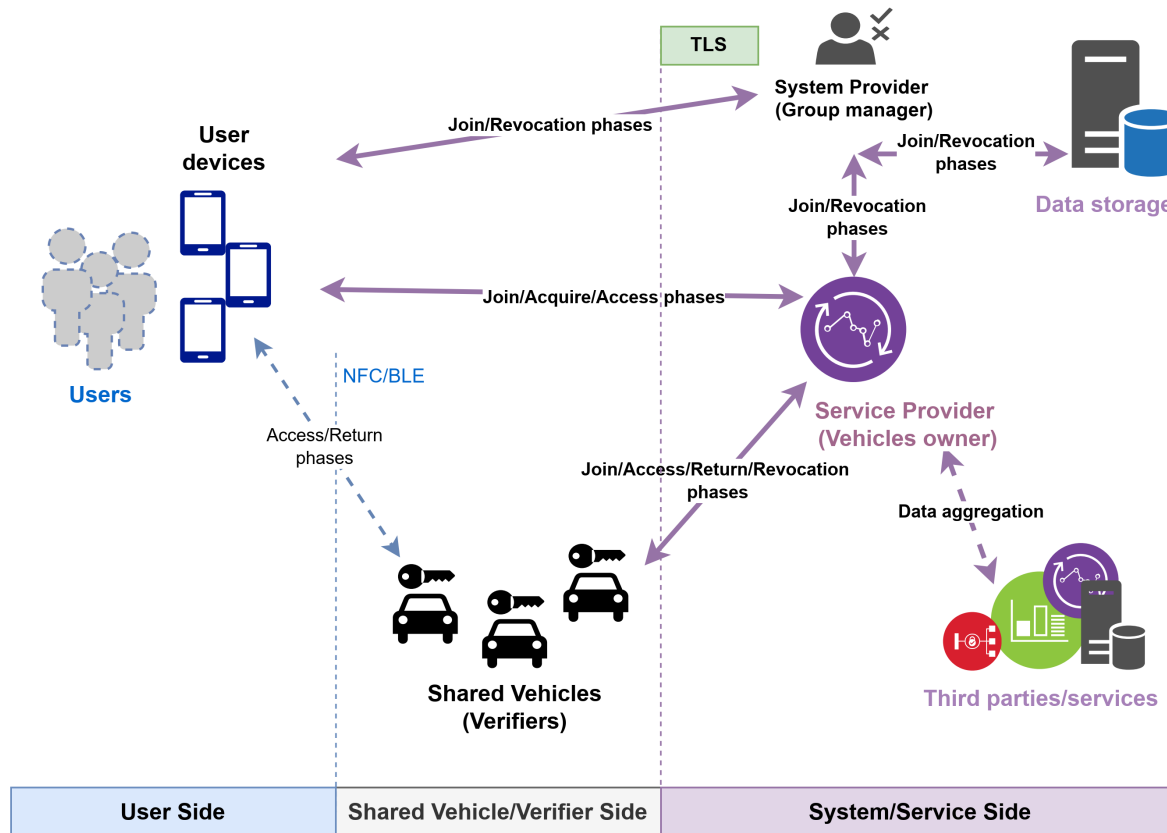
Cyber-security Excellence Hub in
Estonia and South Moravia

Towards Secure and Privacy-Preserving Car-Sharing Systems Based on Group Signatures

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Car-Sharing System



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Privacy Requirements

Hide real identities of users in all protocol phases

Prevent linking multiple reservations or authentications to one user

Prevent profiling or tracking by the Service Provider or observers

Allow deanonymization only under authorised and justified conditions



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Privacy Requirements

**Hide real identities of
users in all protocol phases**

**Prevent linking multiple
reservations or
connections to one user**

Group Signature-Based Scheme

**Prevent protocol
tracking by the Service
Provider or observers**

**Prevent de-anonymization
only under authorised and
justified conditions**



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