

2nd SIP-adus Workshop on Connected and Automated Driving Systems 2015

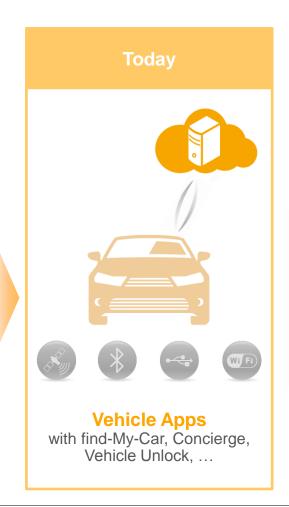
Automotive Security for V2X and ITS
Tokyo International Exchange Center, October 27th 2015

Stefan Roemmele, Head of Security and Privacy Competence Center

Past – today – tomorrow

Changes in automotive business



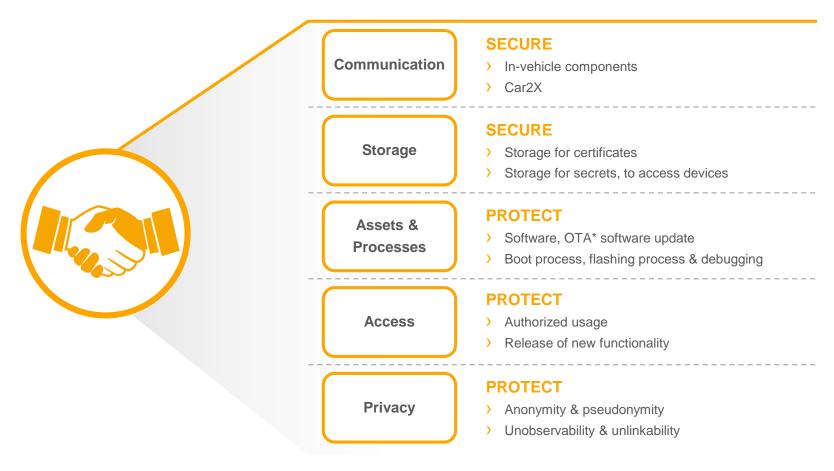






Digital Certificates ...

... are he foundation for trust

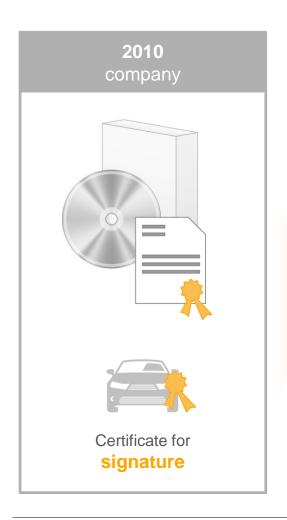


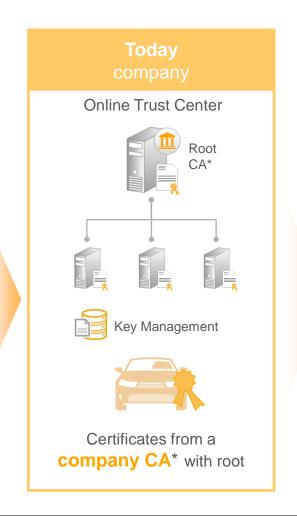


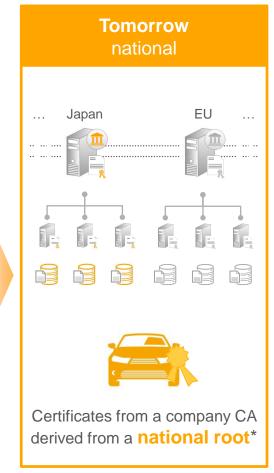


2010 - 2020 - 2030

Changes in the next decades and the overall state of the art





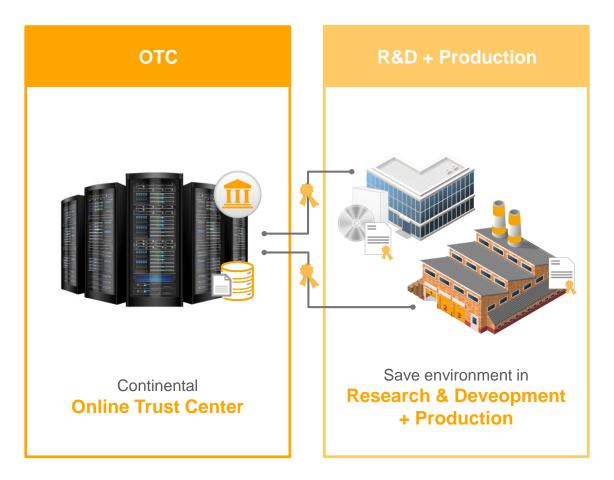


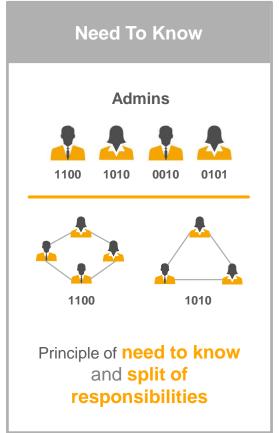
* Certification Authority



Today: Continental insights

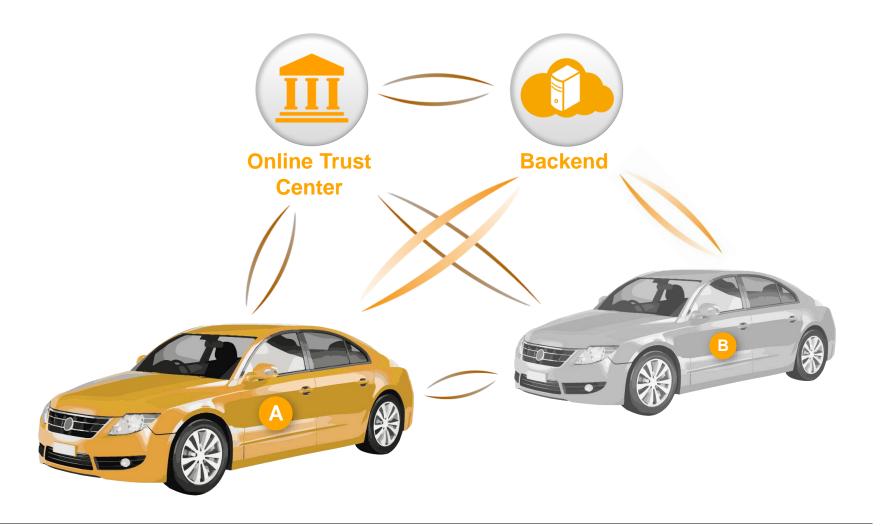
Continental has know-how and experience







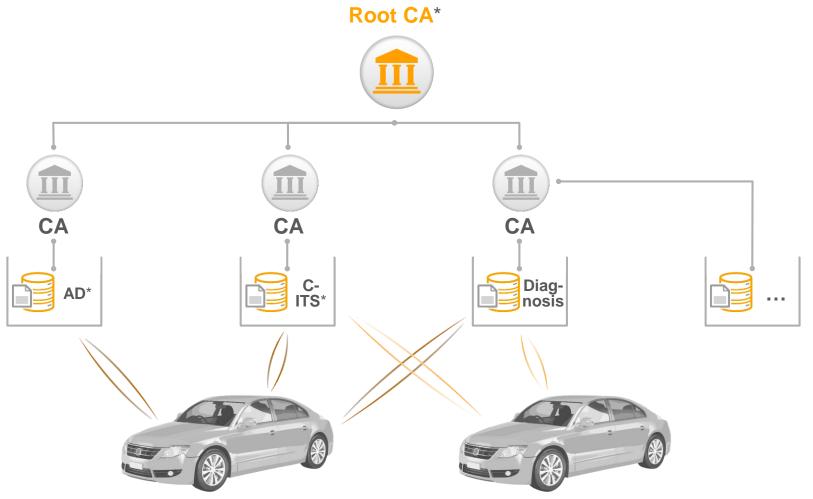
Near Future: Trust is very important for the automotive branch Automated Drive and Cooperative-ITS demand trust





Digital Certificates

Creating trust

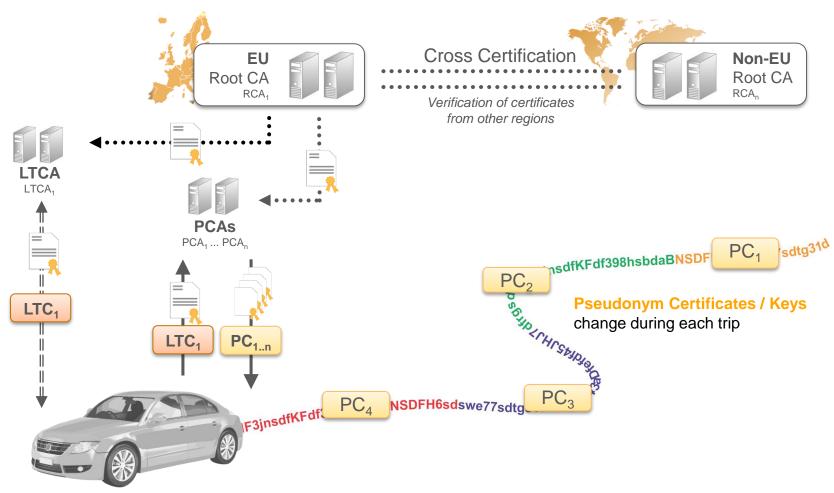






Trust Center Strategy (example EU V2X)

Key Initiative: One root regarding Certification

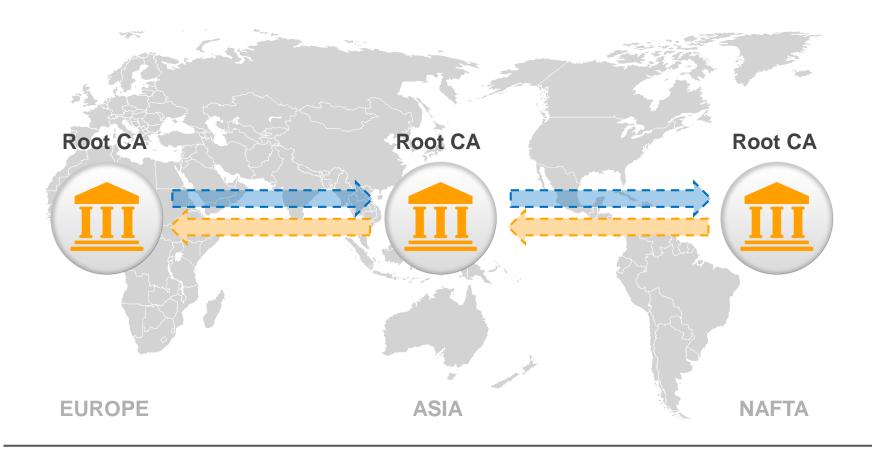


LTC: Long Term Certificate | PC: Pseudonym Certificate | LTCA: Long Term Certification Authority | PCA: Pseudonym Certification Authority



Approach / recommendation

Establish regional roots with a worldwide cross-certification



Create trust for technologies and services worldwide



Outlook and next steps

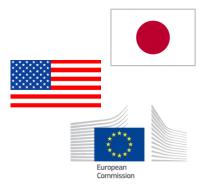
Enabling cross-certification worldwide

Workshop



Detailing in workshop tomorrow

Japan/EC/USA



Pro-Active
Cooperation with
European
Commission

Know-how



Align about technologies and processes for standardization

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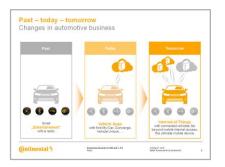


 $x_1 \in \mathcal{A}$

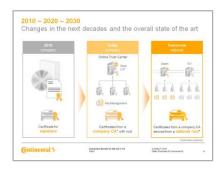


Outlook and next steps for Automotive Security

Enabling cross-certification worldwide











National root CA demand cross certification to generate interoperability











ありがとう Thank you!

