CELTIC-NEXT Event
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Secure Shared Connected Car

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Proposing Secure Car Sharing Management for Connected Cars

- **Secure Broadband IoT Gateway**
  Connected vehicles produce large volumes of data like Telemetry data, location tracking, consumer devices plugged, video,…. So, we need secure Broadband gateways.
  For broadband connection we will use Bonding based Mobile Gateways using different GSM operators together include CanBus.

- **Cloud Based Secure Key & Authentication Management**
  Using cryptographic keys for business applications is becoming more challenging, manual and decentralized processes are costly,
  - Target → vehicle technology for CarSharing, CarRental and pool-vehicles.
  - Benefits:
    - Centrally manages the cryptographic keys at large scale
    - Automates key management activities and on-line key distribution for car sharing users

- **Why Should I participate?** The connected car market is valued at USD 52.62 Billion in 2016 and is projected to reach USD 219.21 Billion by 2025. → Enough reason for participation.
Established by private venture in 2005, CTech has emerged as an innovation and technology power house, primarily for Secure and Broadband Data Connectivity, with more than 150 engineers in Istanbul and Ankara, Turkey.

CTech is growing steadily over the past 15 years by producing and marketing technology and main objective is to create value added technologies and services by growing the markets with partners.

CTech is a high-tech company that has brought together specialists with profound experience in the areas of

• Communications & Satellite Technology
• Information Security & Management
• Modeling & Simulation
For Secure car sharing we are proposing cloud based authentication management. We are planning to use Encryption mechanism based on PKI / Key Management for ECU certification changing.
Solution Benefits:
- Ensures the security of connected cars
- Ensures the share security for cars
- Ensures PKI integrity, performance and manageability
- Provides opportunities for car sharing service to companies
- Protects against unauthorized and erroneous access

Project Schedule: 36 month

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Partners

Current Consortium:

• Comodif (owned by Farplas) in Turkey

Partner Search:

• Automotive industry companies in any country
• ECU manufacturers
• Automotive OEM
For more information and for interest to participate please contact:

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