

#C-ITS

#DataPrivacy

#Automotive

#CyberSecurity



TESKALABS

#IoT

#C-V2X

Cybersecurity for C-ITS and C-V2X

What we do

Cyber security products for

C-ITS and C-V2X



What we offer

Products & Test Environments

- Central C-ITS PKI (as a service, on-premise)
- Onboard unit (OBU) security software
- Open C-ITS & C-V2X Test PKI
- Test and verification environments

Services & Delegated assistance

- C-ITS Security consultations, trainings
- Management of relation with EU ECTL
- Delegated assistance to OBU vendors
- Delegated ETSI Plugtest participations

C-ITS & C-V2X security

Applus⁺
IDIADA



ZENZIC⁺



Statens vegvesen
Norwegian Public Roads
Administration

C-ROADS SLOVENIA
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SLOVENIA

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CZECH REPUBLIC
MEMBER OF  C-ROADS PLATFORM



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ŠKODA

T-Mobile



Ministerstvo dopravy



FAKULTA
DOPRAVNÍ
ČVUT V PRAZE

O₂



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Connecting Europe Facility



C-ROADS SLOVENIA



DARS

TESKALABS



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Expertise

TeskaLabs is a member of

- Subgroup on C-ITS of the European Commission expert group on intelligent transport system
- We cooperate on the C-ITS security standards development



ETSI PlugTest Participation

1. C-ITS: The seventh ITS CMS Plugtest, 4-8 November 2019
2. C-V2X: The first C-V2X Plugtest, 2-6 December 2019
3. C-V2X: The second C-V2X Plugtest, 20-24 July 2020



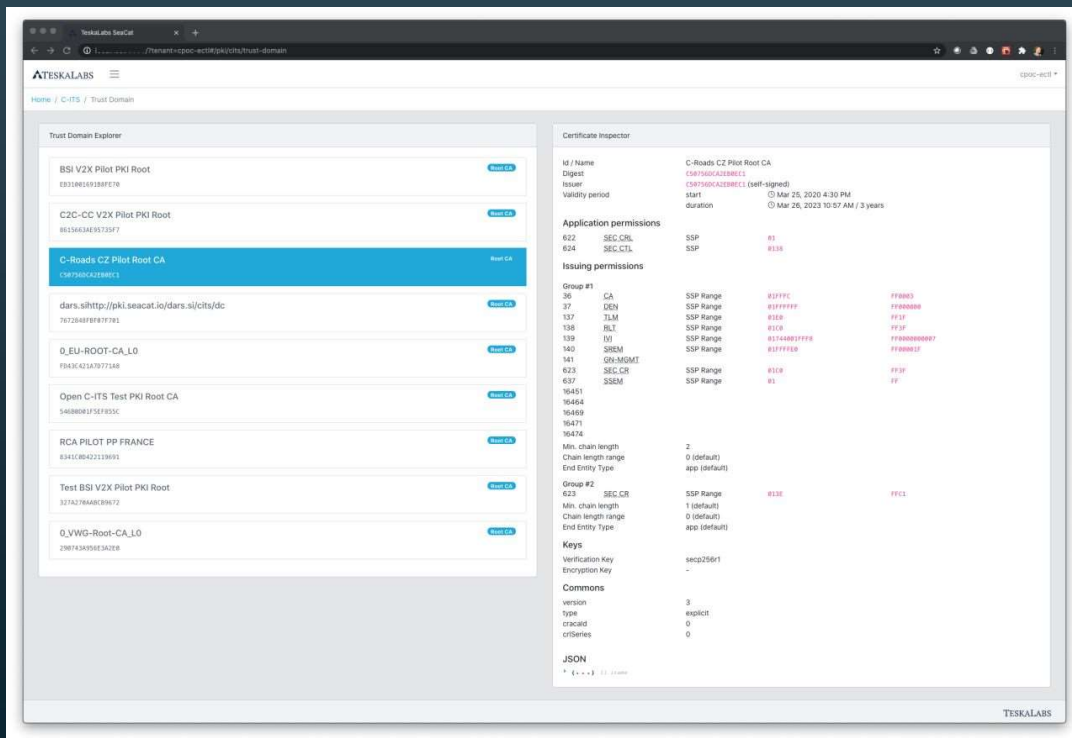
European Telecommunications Standards Institute

Compliance

- ETSI standards
ETSI TS 103 097 v1.3.1;
ETSI TS 102 941 v1.3.1 / v 1.2.1
- European Commission C-ITS Certificate Policy
 - C-ITS Security Policy

will be mandatory for EU by Delegated Act

European Trust List Manager



European Commission released the first European Trust List Manager - L1 ECTL for Cooperative Intelligent Transport systems

TeskaLabs SeaCat PKI is a part of this EU Trust Zone



Contacts

Kristina Osipova
Sales and Partner Executive
kristina.osipova@teskalabs.com

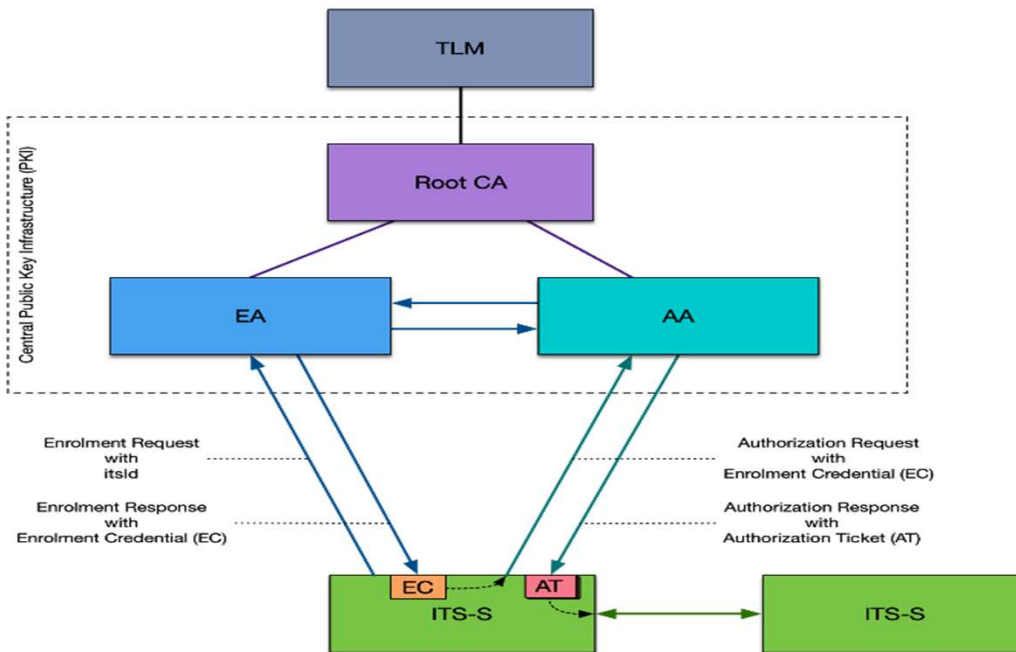




London, United Kingdom
Prague, Czech Republic

info@teskalabs.com | www.teskalabs.com

Central C-ITS PKI as a Service



PKI operates dedicated:

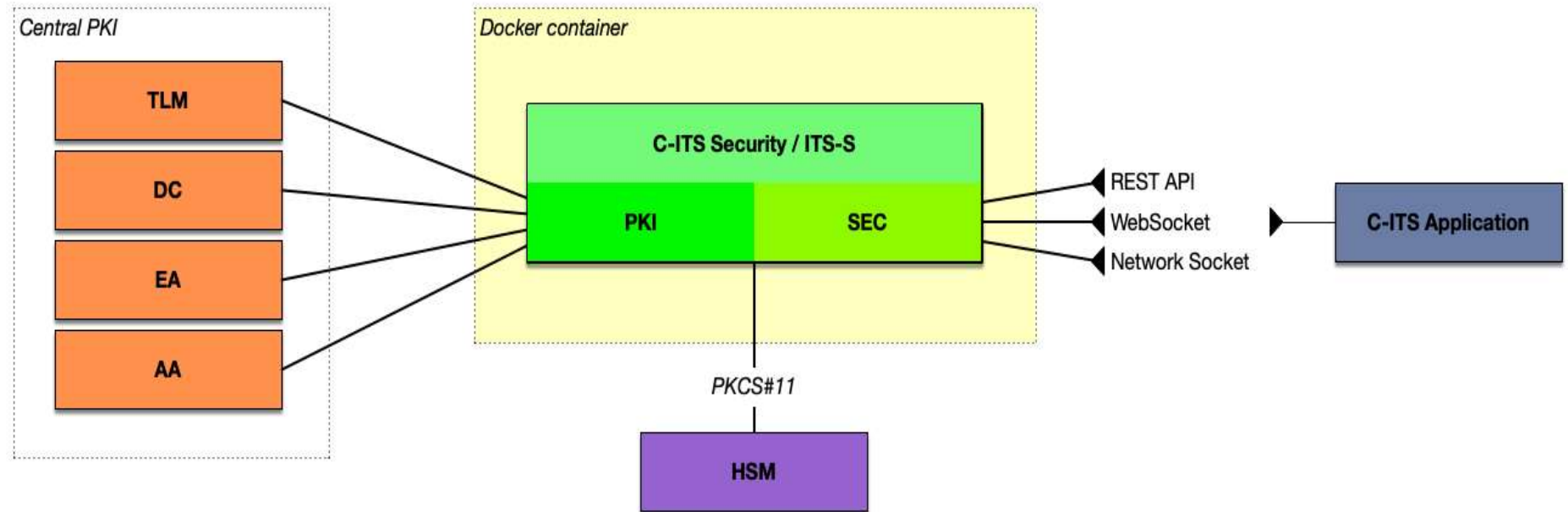
- Root Certificate Authority
- Enrolment Authority
- Authorization Authority

for each subscriber

The PKI is operated from the data center in Prague, Czech Republic.

ECTL / CPOC relation management is provided

Units Security Architecture



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Ales Teska, 2020

C-ITS Security for ITS-S as a microservice

High-level architecture