THE FUTURE IN AUTOMOTIVE SOFTWARE

WITH AUTOCRYPT

- IN-VEHICLE SYSTEMS SECURITY
- V2X SECURITY
- PLUG&CHARGE SECURITY
- PRODUCTION KEY MANAGEMENT
- AUTOMOTIVE SECURITY TESTING

AUTOCRYPT

ABOUT AUTOCRYPT

As a pioneer in automotive cybersecurity, AUTOCRYPT envisions a future where connected cars and roads operate seamlessly with software-driven systems and infrastructure. With decades of expertise in encryption, authentication, and threat detection technologies, AUTOCRYPT secures both internal communications within the vehicle, and external communication endpoints for vehicle-to-everything (V2X), Plug&Charge (PnC), and mobility services.

With UN Regulation No. 155 and 156 taking full effect in July 2024, automotive OEMs and suppliers are obligated to adopt standardized cybersecurity software and practices to stay compliant and receive Vehicle Type Approvals. AUTOCRYPT employs a holistic approach to help clients achieve this goal efficiently, implementing solutions optimized for their specific environments and needs.

100%
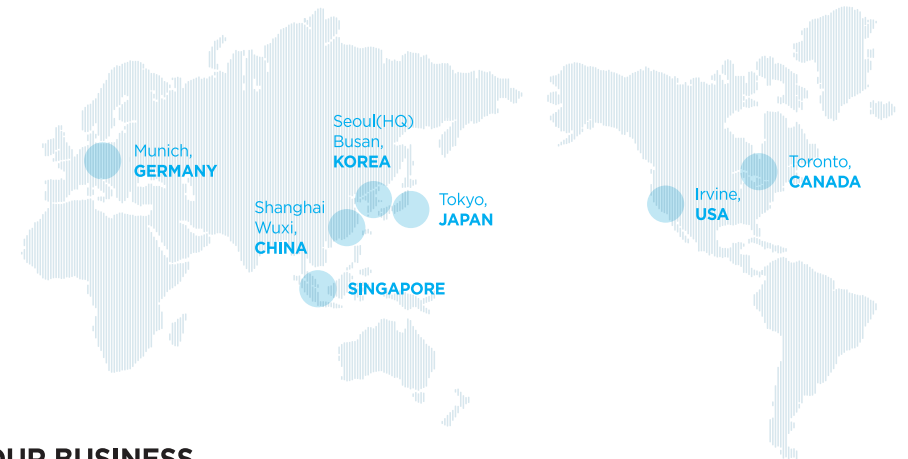V2X security stack for all Korean C-ITS projects

60+
patents filed globally

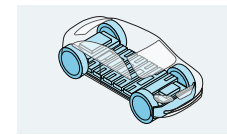**5,000km**
of smart roads secured by AutoCrypt® V2X

50 million
vehicles embedded with AutoCrypt® IVS by 2028

WHERE WE ARE

Munich, **GERMANY**

Seoul(HQ) Busan, **KOREA**

Shanghai Wuxi, **CHINA**

Tokyo, **JAPAN**

SINGAPORE

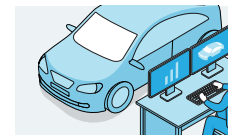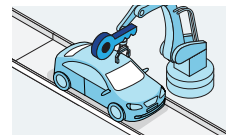Irvine, **USA**

Toronto, **CANADA**

OUR BUSINESS

In-Vehicle Systems Security
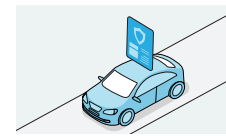
Automotive Cybersecurity Testing
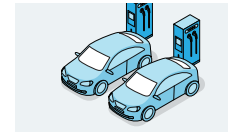
Automotive Cybersecurity Consulting

PKI for Vehicles

Vehicle to Everything Security

Security Credential Management System

Plug&Charge Security

Charging Station Management System

OUR HISTORY

2007-2014
• Developed Korea's first automotive safety diagnostic device
• Developed police car telematics system with encryption technology
• Developed secure V2X technology based on IEEE 1609.2:2013 - the introduction of AutoCrypt® V2X
• Implemented Korea's first V2X security technology in testbed

2015-2018
• Developed firewall for smart cars - the introduction of AutoCrypt® IVS
• Developed misbehavior detection function based on machine learning
• Landed contract as the sole V2X security provider for all Korea's C-ITS development projects

2019-2023
• Founding of Autocrypt Co., Ltd., spinning off from Penta Security Inc.
• Established security infrastructure for charging electric vehicles - the introduction of AutoCrypt® PnC
• Landed first contract for V2P-based Android platform for Telco K
• Landed first contract for ECU security project for Company M
• Landed first contract for V2X certificate system for Company D
• Landed first contract for security testing project for new vehicle models for Company H
• Closed Series A with $15 million, closed Series B with $25.2 million
• Established regional subsidiaries in Europe and North America

2024
• Launched comprehensive automotive cybersecurity testing platform for UN R155/156 and GB compliance
• Joined Bavarian state-sponsored R&D project to improve EV charging infrastructure and security
• Designated as Technical Service (TS) by RDW Netherlands, becoming only cybersecurity TS in APAC region

MEMBER ASSOCIATIONS

AWARDS

2019
Best Auto Cybersecurity
Product / Service

2020
Automotive Tech Company
of the Year Finalist

2021
Automotive Cybersecurity Product
of the Year Finalist

2020-2021
Automotive Cybersecurity
Company of the Year

2022
Automotive Cybersecurity
Solution of the Year

2022
Ride Hailing Innovation of the Year

2024
SDV Experts Winner

2021
Forbes Asia 100 to Watch

AUTOCRYPT

SEOUL MUNICH IRVINE BUSAN TOKYO
SHANGHAI WUXI SINGAPORE TORONTO

autocrypt.io

AUTOMOTIVE CYBERSECURITY FOR REGULATORY COMPLIANCE

In-Vehicle Systems Security

AUTOCRYPT's in-vehicle systems security solution offers a full range of advanced security software, embedded components, and add-ons that are adaptable to both AUTOSAR and legacy environments.

- **AutoCrypt® IDS & vSOC**
  Intrusion detection system, policy management, and security operations center

- **AutoCrypt® HSM**
  Embedded security firmware for ECUs

- **AutoCrypt® TEE**
  Trusted execution environment for advanced applications

- **AutoCrypt® ASL**
  Adaptive security library for AUTOSAR

- **AutoCrypt® TLS**
  Advanced encryption algorithms for automotive communications

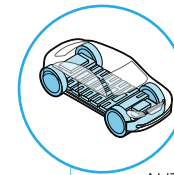## Automotive Security Testing

AUTOCRYPT provides a cybersecurity testing platform and tools based on the requirements of ISO/SAE 21434 and UN R155/156.

- **AutoCrypt® CSTP**
  Cybersecurity Testing Platform for fuzzing, pentesting, functional testing, and vulnerability testing, generates standardized reports for VTA

- **AutoCrypt® Security Fuzzer (for HIL)**
  Smart and automated fuzz testing software, deployable in hardware-in-the-loop (HIL) simulations

- **AutoCrypt® Security Analyzer**
  Software composition analysis for vulnerability detection and license management in open-source automotive software

- **Testing Service**
  Fuzz testing, penetration testing, and functional testing services provided by AUTOCRYPT's in-house engineers

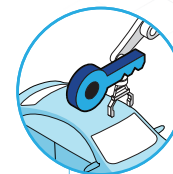## UN R155/156 Consulting and Training

With over a decade of experience in automotive cybersecurity, AUTOCRYPT provides professional consultation and training services for OEMs and Tier 1 suppliers to exceed regulatory compliance and meet requirements for Vehicle Type Approval. Such services include TARA (template available as a Siemens Polarion add-on), CSMS establishment for UN R155, and cybersecurity testing.

Production Key

AUTOCRYPT utilizes its proprietary PKI technology to securely control access to each vehicle component during manufacturing.
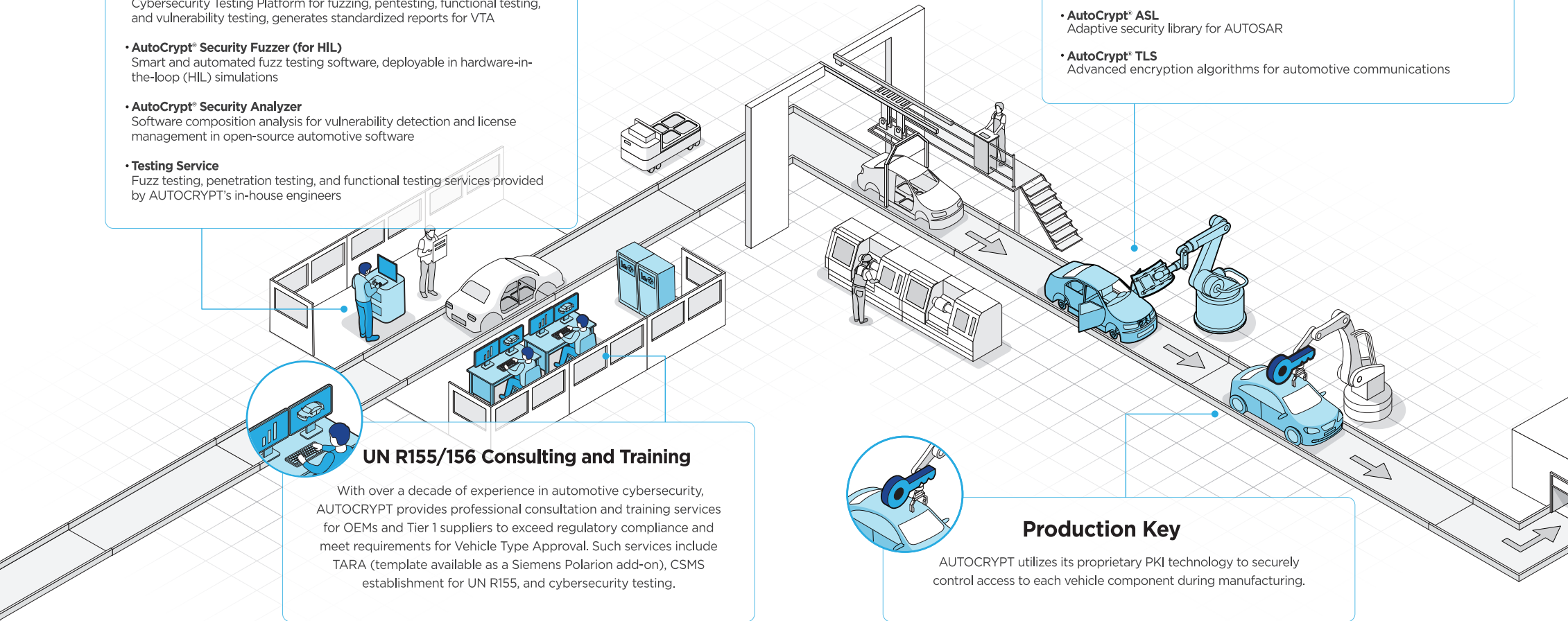
SECURE COMMUNICATIONS
FOR SOFTWARE-DEFINED MOBILITY

V2X Security & C-ITS for CAVs

By utilizing its proprietary encryption and authentication technologies, AUTOCRYPT provides a comprehensive V2X security solution.

- **AutoCrypt® V2X-EE**
  Security module and local certificate manager, embedded into V2X end entities to enable them to join in the V2X PKI ecosystem

- **AutoCrypt® V2X-PKI**
  The V2X PKI system, adaptable to all three major SCMS standards (US SCMS, EU CCMS, China C-SCMS)

- **AutoCrypt® MBD**
  Misbehavior detection and monitoring integrated into V2X PKI operations

- **AutoCrypt® IMS for SCMS**
  Integrated management system for V2X PKI certificates and operations

- **AutoCrypt® CLS**
  Smart edge server connected to RSUs and roadside sensors, enabling sensor data analysis and direct V2I communication
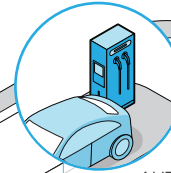
Charging Station Management

AUTOCRYPT establishes PKI and real-time management systems to secure and simplify the electric vehicle charging process for both end users and charge point operators.

- **AutoCrypt® CSMS**
  Provides a convenient way to manage charging infrastructure and operations through a secure GUI platform, fully compliant with OCPP 2.0.1

- **AutoCrypt® PnC**
  Secures the Plug&Charge process during electric vehicle charging, allowing secure authentication and billing based on ISO 15118-20

Mobility Platforms

AUTOCRYPT provides a comprehensive and secure mobility platform, AutoCrypt® MOVE, that can be customized and branded for MaaS providers and operators. The solution covers service planning, application development, security integration, and maintenance and optimization.

Digital Key

AUTOCRYPT builts Digital Key in compliance with CCC standards, enabling secure and seamless entry while protecting vehicles from unauthorized access and car thefts.

Teledriving

- **AutoCrypt® RODAS**
  A teledriving solution that provides a failsafe for autonomous vehicles, allowing an authorized operator to take remote control over the vehicle when an unexpected situation arises