Magenta Security Secure Elements & Services

Secure storage and security anchors on (mobile) devices for digital identities

Secure Identity with Hardware Security

Digital identities are the key to digital service worlds be it in the online shop, when applying for services digitally or at the workplace.

However, the difficulty in the online realm is that the identity of the other person is difficult to verify:

· Criminals pretend to be someone else in order to gain information/benefits, harm them or manipulate processes.
· The criticality of data and passwords is increasing, but so are the possible attacks on them.
· One-step identification via knowledge does not meet all (legal) security requirements.

This makes it all the more important to have secure digital identities that not only uniquely authenticate people but are also protected against theft and misuse and can be flexibly adapted to different use cases.

Key Features

· Secure Elements as a secure storage and security anchor for digital identities of people and devices
· Smart card-based ID systems for electr. Passports and ID cards (e.g. German identity card)
· Individual all-in-one services and project solutions from conception to specification, production and rollout (e.g. for eEnergy, POS systems, IoT, Industry 4.0, tolls, automotive, government radio)

Deutsche Telekom relies on hardware security with Secure Elements & Services:

Hardware-based security elements on (mobile) devices are user-friendly and protect the confidentiality, integrity and authenticity of data with the help of special mechanisms to the same extent as smart cards and enable secure two-factor authentication.

With the expertise from its own card production, its own smart card operating system TCOS (TeleSec Chipcard Operating System) and numerous projects, Deutsche Telekom is a competent partner for individual all-in-one services and solutions for e.g. eHealth, tolls, IoT, Industry 4.0, automotive and in the public sector. We take care of everything from conception to specification, development to rollout and lifecycle management of hardware security products.

Benefits

· Advantages of hardware security to protect against attacks, tampering, etc.
· Unambiguous identification of persons and IT components as well as their copy and plagiarism protection
· Two-factor authentication through the use of mobile devices
· Combination of usability with the same security as smart cards
· Implementation of secure solutions for the implementation of legal requirements such as EU requirements

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Solution offering for Magenta Secure Elements & Services

When to use?

If identities and systems are to be secured with highly secure hardware, e.g. critical infrastructure

What support is offered?

Individual support agreement available on request

What is included?

Depending on the assignment, everything from conception and development to rollout and lifecycle management

What does it cost?

Price on request

Expand the Secure Elements & Services with additional modules as required.

Smart card-based badge systems:
High secure badge systems with TCOS

· Secure storage for electronic passports and national ID cards (e.g. German identity card nPa, passport, residence permit)

Magenta Security Smartcards:
Smart card based standard products

· Tokens & services in different form factors (e.g. ID1, µSD, embedded)
· Can be used, among other things, as a secure signature creation device (SSEE) according to the requirements of the eIDAS regulation or for government applications

Hardware Security with Secure Elements & Services? The best solution for the highest and most comprehensive protection!

Secure Elements based on the TCOS operating system developed by Deutsche Telekom in Germany offer a wide range of services for a wide variety of applications.

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