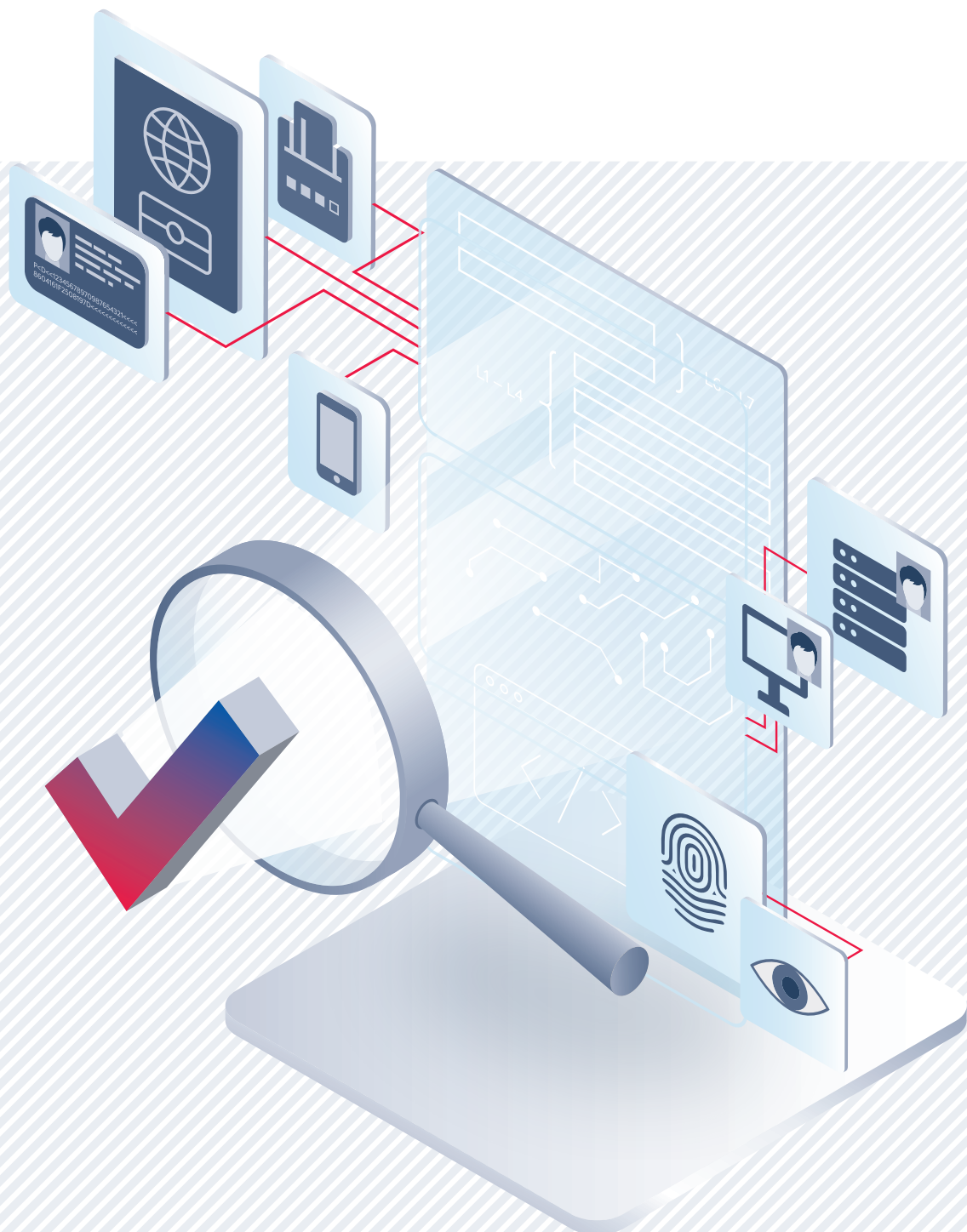# Evaluation Laboratory for IT Conformity

Certified Standard-Compliance
as an International Seal of Quality

International standards ensure that products function without restrictions in different countries and for different applications – standard compliance is thus an important success factor for modern IT products.

Tests are carried out in independent laboratories, such as the secunet evaluation laboratory. It has been accredited by the German Federal Office for Information Security (BSI) to perform independent conformity tests. The range of services includes multifaceted tests in the context of electronic identity documents. Thanks to its long-term experience in the introduction and development of eIDs, it has gained the trust of leading eID manufacturers as well as international government authorities.

Standard compliance for a competitive edge

Electronic identity documents (eIDs) must work everywhere in the world and ensure the security of the holder's personal data stored within. This is achieved via standards and guidelines: The international level is primarily managed by the International Civil Aviation Organization (ICAO) and the International Organization for Standardization (ISO). In Germany, the technical guidelines issued by the German Federal Office for Information Security (BSI) drive standardisation on the national level and beyond.

As a result, for instance in the border control process, special requirements apply to the chips used in eIDs and the inspection systems. Further the quality of the biometric features and the data format in which they are stored on the electronic travel document must comply with these national and international specifications. If eIDs are to be used for business processes over the Internet, their respective components must also meet additional requirements on authentication, e.g. eID clients and eID servers.

Manufacturers of software components, smart cards and document readers can obtain a significant competitive advantage by providing evidence of the standard compliance of their products. Especially public authorities often require a certificate of conformity when purchasing products.

secunet – independent, accredited evaluation laboratory

secunet operates an independent evaluation laboratory to perform conformity tests. The laboratory is built according to applicable regulations for evaluation laboratories and meets DIN EN ISO/IEC 17025 requirements. secunet's evaluation laboratory is officially accredited by the German BSI to perform conformity evaluations according to the technical guidelines for electronic travel documents, readers, biometric software components and eID clients or eID servers.

A highly qualified team of experts specialised in eIDs, the full range of IT security and conformity evaluations guarantees the reliability of the evaluation results.

secunet's evaluation laboratory services

In the field of electronic identity evaluation, secunet covers not only electronic identity documents but also document readers: secunet evaluates personalised documents and their subcomponents (e.g. inlays) for public authorities as well as manufacturers of chips, chip operating systems and electronic travel documents. The conformity tests of the logical layers are performed in secunet's own laboratory while the conformity tests of the physical layers (layer 1–4, RF communication) and durability tests are carried out in close

Benefits

- Accredited evaluation laboratory according to ISO/IEC 17025 and ISO/IEC 27001

- Comprehensive, long-term expertise in eIDs

- Coverage of all test domains

cooperation with accredited partner laboratories. For manufacturers of inspection systems or eID terminals, secunet evaluates the conformity of the readers (application, SDK).

Federal Office
for Information Security

Approved Laboratory

A P
C D

BSI Registration No:
BSI-APS-9033
valid 29 July 2022

For many years secunet has been supporting the establishment of secure and compliant components in the field of eID clients/eID servers through comprehensive consulting, ongoing cooperation in the creation of standards and continuous evaluation of the market-leading eID products, both nationally (in identity cards) and internationally within the framework of the European eIDAS Regulation.

References

Testing NXP e-passport chips

NXP Semiconductors Austria GmbH, a leading manufacturer of chip solutions for electronic passports has commissioned secunet's IT conformity evaluation laboratory to evaluate its conformity with the national and international requirements on electronic travel documents. Testing was conducted according to the Technical Guideline of the German Federal Office for Information Security BSI TR-03105 Part 3. These tests determine whether the data stored on the e-passport chip are interoperable thus readable across the globe and whether the data protection mechanisms are correctly implemented on the chip.

Conformity-tested solutions for confidential electronic communication

As an established IT service provider, Governikus KG offers solutions for the security, confidentiality and legal liability of electronic communication and documents.

Governikus has developed both eID client (e.g. Ausweis-App2) and eID server (e.g. Autent-Server) components for authentication by means of electronic identity documents, such as ID cards or residence permits. To ensure the functionality of the products in security-critical applications, the products are subjected to regular conformity evaluations according to BSI TR-03124 or TR-03130. Here, Governikus has been successfully collaborating with secunet's accredited testing laboratory since 2014.

In addition to formal evaluations, which are a prerequisite for BSI certification of the products, we offer simplified evaluations as well as analyses concerning standards conformity. The comprehensive experience gained in the evaluation laboratory is invested in the development of evaluation tools and services.

Conformity evaluation	secunet testing laboratory	Partner testing laboratory
Smart cards (ePassports, eID cards)	**Layer 6–7** ICAO Test Spec*, Part 3 BSI TR-03105 Part 3.x	**Layer 1–4** ISO 18745 Part 2 ICAO Test Spec, Part 2 BSI TR-03105 Part 2 **Durability** ISO 18745 Part 1
Readers (inspection systems, eID terminals)	**Layer 6–7** ICAO Test Spec*, Part 4 BSI TR-03105 Part 5.1 BSI TR-03105 Part 5.2	**Layer 1–4** BSI TR-03105 Part 4 ISO 18745 Part 2
eID clients	BSI TR-03124 BSI TR-03105 Part 5.3	– –
eID servers	BSI TR-03130	–

*ICAO RF Protocol and Application Test Standard

More information:
www.secunet.com/evaluationlab