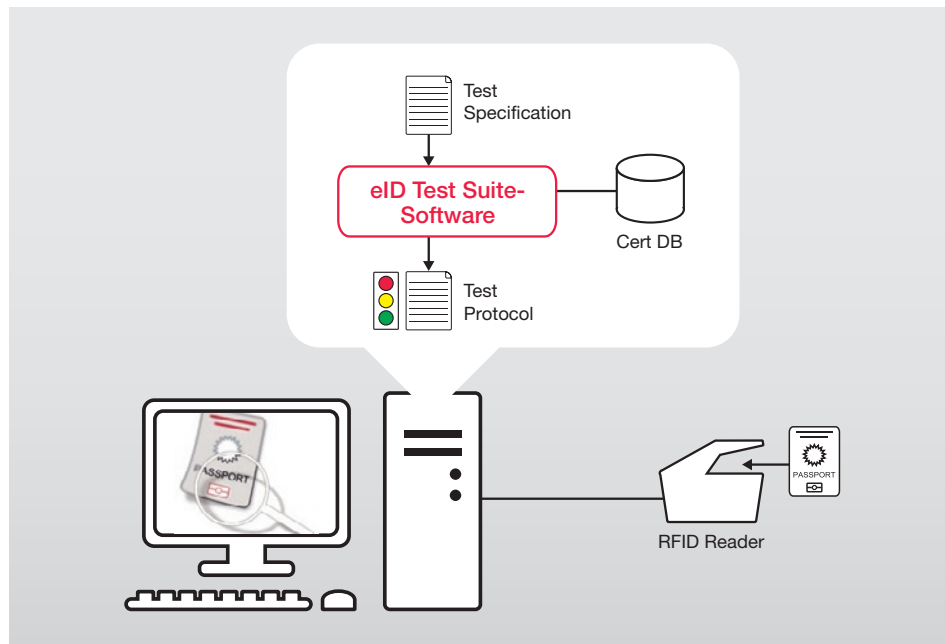


The Easy and Reliable Way to Test Compliance of ePassports



Benefits:

- » Compliance tests for all relevant ICAO and EU standards
- » Self-explanatory user interface
- » Test specification file is flexible for future needs

secunet's eID Test Suite comprises a verification suite to check the compliance of ePassports with the requirements of the EU and the International Civil Aviation Organisation (ICAO). It covers all tests on the application level of an ePassport – layer 6 and 7 – and gives maximum reliability for interoperability of the tested ePassports with current passport reader solutions.

The need for compliance tests

Electronic travel documents must comply with approved international agreed standards to ensure both, seamless worldwide use and data security. To check if an ePassport fulfils the relevant requirements, compliance tests are processed. There are two strong arguments for compliance testing with secunet:

1. In case of non-compliance the vendor is able to determine in detail which part of the ePassport solution has to be corrected, for example coding of data, file structure, chip operating system, etc. Compliance tests are relevant for the final ePassport solution but are also valuable for each of the various ePassport components, like chips or inlays.
2. secunet supports vendors already at the development stage – especially since compliance testing during the developing phase of the product makes good sense: Through profound analyses and resulting recommendations possible flaws or errors can be avoided at an early stage.

Relevant Standards and Regulations

ICAO defines requirements for ePassports in Document 9303, part 1. This refers to several ISO standards for more detailed specifications. In addition, the EU established advanced security mechanisms to protect fingerprints stored in the ePassport. On the physical level the RFID standard ISO/IEC 14443 has to be fulfilled. On the application level there are three relevant standards:

- ISO/IEC 7816-4 (smartcard commands for security and data interchange)
- ICAO Doc 9303, part 1, volume 2 (Logical Data Structure and MRTD-PKI)
- BSI TR 03110 (Extended Access Control – EAC)

For compliance testing ICAO and the German Federal Office for Information Security (BSI) developed conformity test specifications which are all implemented in the eID Test Suite from secunet. That means: the eID Test Suite supports the test cases for the basic security mechanisms defined by ICAO and also EAC conformity as specified by the EU.

How does it work

To users the conformity test suite appears as a simple Microsoft Windows application with an exceeding user-friendly interface. Based on an internal test specification file the eID Test Suite performs the tests on application level for any ePassport placed on the reader attached to the system. Many RFID readers are supported, in particular all PC/SC compliant devices.

The eID Test Suite uses internal databases to store Country Signing certificates. These can be updated easily with data in .cer- and .crl-format. During the test, the eID Test Suite generates a profound and comprehensive test protocol.

Ready for future needs

The test specification file contains an XML definition of all test cases. Updates of the relevant standards and the corresponding test cases respectively can easily be implemented into the XML file. What's that supposed to mean? New compliance tests for ePassports can be handled just by updating the XML file – the software itself remains unchanged. That means highest possible investment security for you.

Additional services

secunet offers software maintenance and support for the eID Test Suite. Additionally we provide dedicated services for the analysis of non-compliance issues. Whenever the eID Test Suite has found a non-compliance, customers can rely on secunet's experience: If you like us to analyse the situation, we will identify the reason and give good advice for improvement.

Besides the eID Test Suite software secunet also offers conformity test services: We operate a laboratory according to ISO/IEC 17025 which is accredited by BSI for the processing of ePassport conformity tests.

Substantial experience

secunet has gained experiences from several year's work in the field of ePassport interoperability testing:

We are a founding member of the "Essen Group". This is a working group taking care of industrial and governmental requirements for the interoperability of ePassports and which was founded in January 2004. The Golden Reader Tool, a reference implementation for reading ePassports, was developed by secunet.

Our experts participated in several international test events with hundreds of participants each. At these events all relevant compliance tests on ePassport application level were performed with software developed by secunet.

At the same time, secunet operates an official evaluation laboratory for ePassport conformity tests. Many international customers – industrial vendors as well as public authorities – rely on our know-how and trustworthiness.

The eID Test Suite is used by several customers for in-house tests, independent test houses use it, too. The Austrian State Printing House (Österreichische Staatsdruckerei, OeSD), for example, is operating the software to verify the conformity of their electronic identification documents.

More information:
www.secunet.com/en/eID