

Certification

To ensure seamless interoperability of all components within eTicket Deutschland's system interfaces, the VDV eTicket Service (VDV-ETS) collaborates with cetecom advanced, a test laboratory, to provide certification. This certification guarantees technical compatibility.

In this process, the hardware and software to be used by the transport companies (above all terminals, chip cards, background systems) are checked in an intensive test procedure for their suitability for error-free use of the VDV core application.

The certification procedure is intended to ensure that the components for which a "KA-compliant" certificate has been issued implement the functionalities intended for them in all ((eTicket systems in the elementary processes and use cases specified for them without restriction.

Advantages for all

The use of certified system components is contractually required for all transport companies and associations participating in ((eTicket Deutschland.

With this certificate, the component manufacturers prove that they implement the required functions according to the specification. This obligation and the certification are intended to guarantee for all participants in ((eTicket Deutschland:

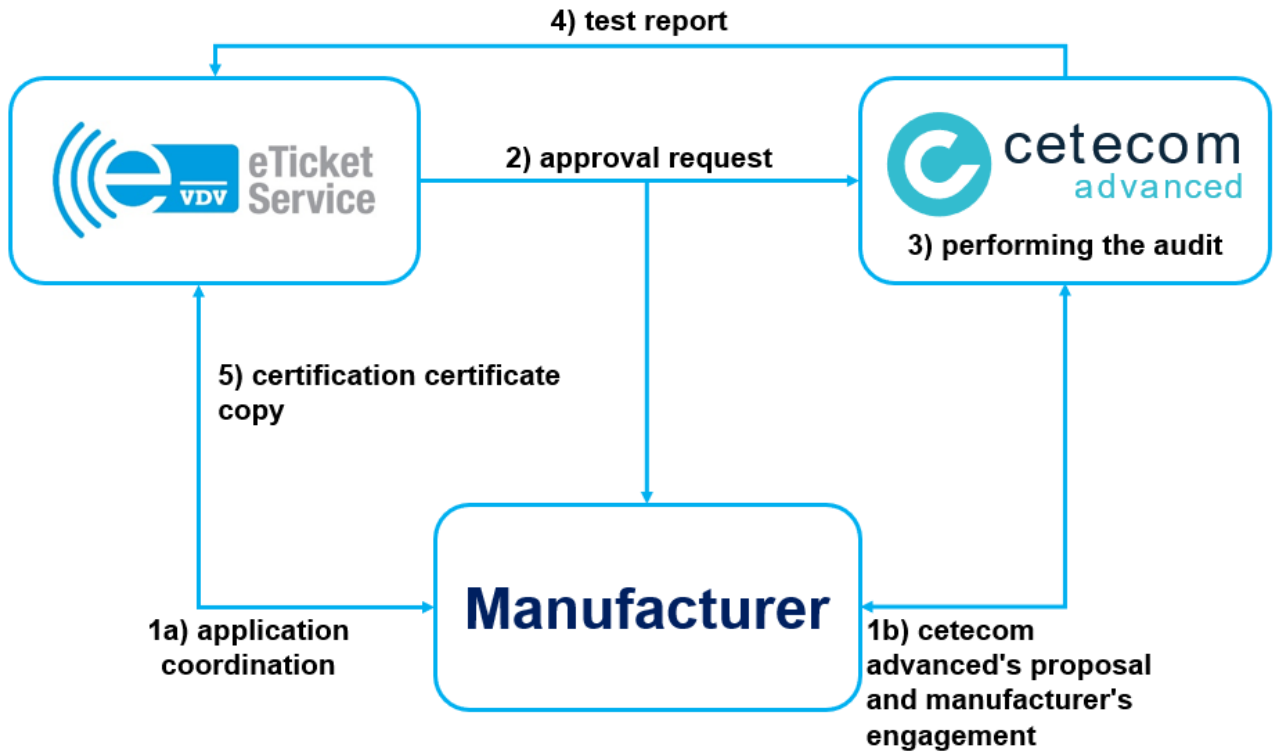
- Functional and investment security
- Reduction of implementation times
- Provision of a wide range of interchangeable components
- Guarantee of function even after product changes to other manufacturers
- cost reduction

What is certified?

The following components are tested by the test laboratory for certification:

- **eTicket user media**
User media (e.g. smart cards) represent the customer/user interfaces to the system and must be reliably readable and writable at each acceptance terminal and comply with the security procedures (authentication/access security).
- **User media applets**
The applets, in conjunction with the operating system, provide the application-specific software required on the user medium to implement the VDV core application specification. They ensure the functionality of the user medium
- **Security modules (SAMs)**
A SAM is an integral part of each KA acceptance terminal and cryptographically secures the communication between terminal and user medium or between terminal and background system
- **Acceptance terminals**
Acceptance terminals are used for issuing, managing and controlling user media and for supporting customer-specific service functions in accordance with the VDV core application specification.
- **TX interfaces of background systems (HGS)**
The interfaces between the background systems ensure the correct interaction within the specified elementary processes and use cases.

Parties involved in the certification process and the certification procedure



Certification guide

Applications for certification can be obtained directly from VDV-ETS:

<https://www.eticket-deutschland.de/en/for-industry-and-manufacturers/certification/>

Contact VDV-ETS:

Bernd Pieper

Tel: +49 221 716174 129

Mail: pieper@vdv.de

The test runs at cetecom advanced after assignment by the manufacturer. There is also the possibility of a debug test to be sure that the "official" tests go through.

Contact cetecom advanced:

Mail: e-ticket@ctcadvanced.com

An overview of the certified system components including test reports and certification certificates is available at any time in the Application and Security Management Tool (ASM Tool) of the VDV eTicket Service:

<https://asmtool.eticket-deutschland.de/asm-tool-extern/zertifizierung/zertifizierungView.seam>

The Customer must ensure that its obligations to cooperate (e.g. fault rectification) within the scope of the test are fulfilled in good time. The check must be completed within 90 calendar days of the successful check of the approval application by VDV-ETS.

Otherwise, cetecom advanced will invoice for the services incurred on a time and material basis without issuing the certificate by VDV ETS! For a certificate to be granted, the application must be submitted again.

Already certified products require a new certification if one of the following product characteristics changes:

- the product designation
- the NM reader (if present)
- change of the installation position of the NM reader
- the SAM interface (if any)
- the operating system
- the firmware (KA use case related)
- the KA version and function extensions (use cases)

On the other hand, a re-test of already certified products is possible if it is only a matter of corrections due to previously detected errors.

Costs for the evaluation of KA functionality in the test laboratory (valid from March 1, 2023)

Test item	Examination*	Re-examination**
User medium	6.150,00 €	4.930,00 €
Security module (SAM)	8.200,00 €	7.020,00 €
Acceptance terminal (personnel- or customer-operated); KVPT or DLT	5.825,00 €	5.180,00 €
Acceptance terminal (staff- and/or customer-operated); KVPT and DLT	6.925,00 €	6.280,00 €
Background system interfaces up to 99 use cases**	5.495,00 €	5.495,00 €
Background system interfaces from 100 use cases**	9.895,00 €	9.895,00 €
* All prices are net prices of the company cetecom advanced GmbH for the tests carried out there and do not include the legal sales tax.		
** The number of use cases is determined on the basis of the packages selected in the application. Any individual use cases excluded in the application are not taken into account.		