

## Security level

As with any IT system, a number of tests are required to set up eTicket systems based on the VDV Kernapplikation. This is why eTicket Deutschland's architecture comprises three different security levels. Levels 1 and 2 can be used during component and integration testing. Level 3, on the other hand, is provided exclusively for live operations.

When testing during the development phase of system components, we recommend that you begin by working at security level 1 in order to guarantee optimal security while creating real operating conditions for testing.

## Level 1 SAMs

There are three different kinds of secure application module (SAMs) used in eTicket Deutschland in line with the three different security levels, depending on the kind and the scope of the keys they contain.

VDV eTicket Service GmbH & Co. Kg (VDV ETS) provides special level 1 SAMs for testing, which are functionally identical to the level 3 SAMs required later on for live operations in line with SAM specifications.

All level 1 SAMs contain the same data, i.e. they have generically configured clones of one another. In contrast to level 2 and level 3 SAMs, the data on level 1 SAMs can be loaded outside of the highly secure environment of the Trust Centre using the VDV CA test suite. This means that the values of the keys in level 1 SAMs are not confidential, so that e.g. cryptographic calculations can also be reviewed outside the SAMs

This is why level 1 SAMs are so well suited for component testing during the general development of user media or terminals.

## Key set

The generic, predetermined set of keys that level 1 SAMs are equipped with by default, which can be used in different testing scenarios in the VDV KA test suite, are as follows:

Key purpose	KID	Org.-ID	Key version
Authentication key (recording)	30	34858	01, 81
		34858	02, 82
		35072	01,81
PV master keys	40	34858	01, 81
		34958	01, 81
		34959	01, 81
KVP master keys	50	35059	01, 81
Transaction verification key (TR master key)	60	35059	01
Transaction security key (TR key (derivative))	70	35059	01
Block list security key (encryption key)	91	35258	01

Level 1 SAMs are available from VDV ETS for € 45.00 each plus VAT and shipping costs\*. It is only possible to order them online via the ASM Tool [www.eticket-deutschland.de/en/](http://www.eticket-deutschland.de/en/).

\* The flat-rate delivery charge for deliveries outside of Germany is € 10.00.