

PRODUCT DATA SHEET

Securing long-term data integrity

Qualified time stamps



Advantages at a glance

01

Standardized
Easy integration into office and archive applications

02

Legally secure
Highest level of acceptance before German and European courts

03

eIDAS-compliant
Tested by TÜViT and following confirmation by the Federal Network Agency listed in the EU Trusted List

04

Compliant with data protection legislation
No transmission of document content

Electronic time stamps preserve long-term evidential value

With eIDAS-compliant qualified electronic time stamps, you can prove the integrity of documents at a particular point in time and reliably prevent manipulation.

D-Trust's time stamps meet particularly strict security and liability requirements. D-Trust, a Bundesdruckerei Group company, has been accredited as a qualified trust service provider by the Federal Network Agency (Bundesnetzagentur) in accordance with the eIDAS Regulation and the German Trusted Services Act (VDG, *Vertrauensdienstegesetz*). D-Trust's time stamp service is redundant and therefore ensures high availability.

Its compliance with the eIDAS Regulation has been confirmed by TÜViT. The trusted list of the Federal Network Agency (Bundesnetzagentur) ensures secure, long-term validation of qualified electronic time stamps.

With a time stamp according to eIDAS, documents and data objects can be easily protected, safe from manipulation while safeguarding evidential value.

How qualified time stamps work

In practice

A qualified time stamp service is placed exclusively in the hands of a trust service provider who operates a server that issues signed time stamps for application programs. The software application sends the checksum of the document to the time stamp server, which determines the current time using a radio clock and an additional internal time source. The time information and the document checksum are signed with the trust service provider's secret key. The data is then sent back to the application with the certificate of the time stamp server.

D-Trust's time stamp service is accessed with a dedicated access certificate via a suitable application component. Data is exchanged according to the international RFC 3161 specification.

Products with an integrated D-Trust time stamp service

The time stamp is integrated into the remote signature solution sign-me and forms the basis for long-term validation of the qualified electronic signature. What's more, the service can be used standalone or in D-Trust's SecCommerce and secrypt signature solutions. Other time stamp projects have been successfully implemented with Adobe, OpenLimit, intarsys and with Governikus.

eIDAS-compliant qualified time stamps protect documents and data objects from manipulation while safeguarding evidential value



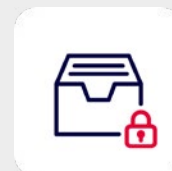
... in e-mail correspondence for presentation of evidence in court



... for transactions with critical deadlines, such as share trading, banking, travel bookings, lotteries and auctions



... for sensitive information, such as electronic test certificates, test reports, laboratory findings, patents and defect protocols



... for archived business documents, such as offers, contracts and delivery notes

The data remains with the user. Only hash values are signed.

D-Trust's certificate is used for this purpose, so that it is not necessary to identify the user.