

Signature Check Webservice

Usage & field of application

The AuthentiDate Signature Check Webservice allows any user with Internet access to verify qualified signatures of documents, invoices and all other electronically signed objects. The verification takes place in compliance with the legal requirements of the Signature Law, the current Sales Tax Law and EU Directive.

Each recipient of electronically signed documents requires easily usable tools in order to verify signatures and thus the authenticity of the data. In the case of electronic invoices, the recipient is even legally obliged to carry out signature verification (GDPdU - German Basic Regulations for Accessing Data and Auditing Digital Documents) if he is entitled to deduct input tax. The verification in this case must be documented and archived by means of an electronic report (verification log).



Functional description

The web-based Signature Check Webservice (signature verification service) can be used worldwide 24 hours a day, 365 days a year in a standard Internet browser via the invocation of a secure website. The service is accessible at the following addresses:

- www.signature-check.de
(German version)
- www.signature-check.com
(International version)

After invoking the aforementioned website, it is possible to specify a locally stored, signed document/file by selecting a file and, if available separately, to specify an associated signature file.

The document and integrated or separate signature are encrypted (HTTPS, 128 bit) and sent to the Signature Check Service in the AuthentiDate trust center via a protected connection where the hash value of the document is determined and the signature verification carried out. The verification includes, among other things, the online validation of the signature certificate for the time when the signature was generated.

As an alternative to transferring the document and signature via standard browser mechanisms, a Java Applet is available that exclusively transfers the hash value of the document and the signature file to AuthentiDate's trust center.

Afterwards, a corresponding verification report in HTML or PDF format is returned to the user via a secure HTTPS connection. This report can be saved from the Internet browser as a document for the signature verification that was carried out and also printed if required.

**Range of functions and services**

- ▶ Web-based verification of qualified signatures that were generated by AuthentiDate signature components (verifications of signatures of other providers on request)
- ▶ Generation of an electronically storable verification report in HTML or PDF formats (Portable Document Format)
- ▶ Confidential handling of the documents by means of encrypted transmission (SSL encryption HTTPS) as well as operation in protected environment
- ▶ Additional option is available for local hash value calculation by means of a Java Applet
- ▶ Secure authentication of the web service via SSL-certificate
- ▶ Easy, multilingual user guidance
- ▶ Online validation of the signature certificate
- ▶ Signature algorithm assessment based on the German Network Agency specification from 2009
- ▶ Operation of the central signature verification service in a secure environment (trust center of AuthentiDate International AG)
- ▶ Restriction of the file size to a maximum of 250 KB. Larger signed files can be verified by a Java Applet.
- ▶ Verification of
 - associated signatures (Common PKI)
 - integrated PDF signatures according to Adobe Reference Standard PDF version 1.6 and
 - integrated PDF/A signatures according to PDF/A Standard Version 1b
- ▶ Annual average availability: 96.8%

Standards and interfaces

- Common PKI V. 1.1, V. 2.0
- Certificate format X.509v3 (qualified)
- HTTPS protocol 128 bit

System requirements

- Internet connection
- Current Internet browsers, Microsoft Internet Explorer Version 6 or higher, Mozilla V1.6 or higher, Opera V7.23 or higher
- Support of HTTPS protocol (128 bit)
- If the PDF verification report is used: Adobe Reader Version 6 or higher, or comparable PDF Reader
- If the Java Applet is used: Java Runtime Environment Version 5, Update 10

Delivery content

- No delivery of software
- Activation takes place by means of certificate information

Related products

- eBilling Signature Server
- Signature Check Server
- Scan Signature Module