



Regulated seal for authorities in Switzerland

What is a regulated electronic seal?

A seal for public authorities is a specific type of electronic signature that public authorities issue to sign and authenticate digital documents. Unlike the personal qualified electronic signature, it cannot automatically be substituted with the handwritten signature but is nevertheless anchored in some laws and regulations. The authority seal is precisely defined by the Technical Administrative Regulations (TAV) to the Signature Act (VZertES).

Signing Service by Swisscom Trust Services - legally recognized

Swisscom Trust Services with its product Signing Service is the leading European trust service provider for recognized, regulated/qualified, and advanced e-seals in both the Swiss legal area (ZertES Act) and the European legal area (eIDAS Regulation).

Validator und Adobe - grüner Haken

The regulated seals for authorities can be checked for validity in the [validator of the Swiss Federal Administration](#) and are marked with a green checkmark in Adobe Reader ([AATL standard](#)).

Typical use cases

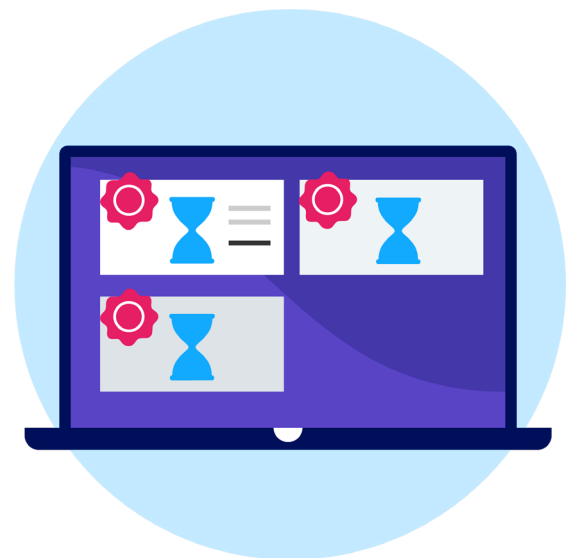
Authority e-seals are suitable for automated batch operation because they do not depend on individual approval. For example, they can be used in the mass output and archiving of official documents, or even give contracts with scanned signatures at least integrity protection.

Sealing application - a partner solution

Swisscom Trust Services offers sealing options for public authorities together with audited partner solutions. They provide an encrypted connection (mTLS). A responsible person of the authority approves the mTLS connection so that the e-sealing process is only applied to documents intended for this purpose. Only a hash value is transmitted to the Swisscom trust service resp. certification service; the document contents remain hidden from Swisscom.

Qualified time stamp

Each seal is linked to a qualified time stamp for long-term evidence.





Facts and figures



Simple integration

OASIS Rest oder SOAP API

To integrate the partner sealing applications



Secure

Authentication

mTLS authentication with specially protected private key to TLS certificate:

- Advanced e-seal: 1 factor (ownership)
- Qualified or regulated e-seal: 2 factors (ownership and knowledge, e.g. specially secured access to the private key in the database or HSM)



Durable

Signature certificate

Fiduciary generation of three year organization certificates for e-seals, each regulated

Qualified time stamps

Free additional signature with qualified time stamp according to Swiss Federal Signature Act ZertES or EU regulation eIDAS

Long-term validation

All signatures are long-term validated according to the ETSI standard (LTV standard)



Qualified

Application

- Authority must be listed in the Swiss UID registry, and the code of the legal form must start with «02» or must be equal to «0117»
- Verification of the organization and sub-organization based on [OFCOM's Technical and Administrative Regulations](#)
- Personal identification of the applicants (authorized representatives of the organization) and qualified e-signature of the seal certificate application
- Authorized partner solution with 2FA access for the private key of the TLS authentication certificate (regulated).



Sealing application

Sealing application

Regulated: only already authorized partner application of Swisscom Trust Services can be used for the service with regulated e-seals



Legally compliant

Data protection - transmission of document hash values (compressions)

No knowledge about document's content by Swisscom Trust Services

Qualified recognized

Swisscom (Switzerland) Ltd is recognized as an approved certificate service provider in Switzerland for the Swiss Signature Act (ZertES).

Validator of the Swiss Confederation

Der [Validator of the Swiss Federal Administration checks regulated seals for validity](#)

The green checkmark by Adobe

All e-seals are recognized by Adobe ([AATL standard](#))

Are you interested in enriching your solution with regulated e-seals?

Contact us! You can find additional information on our website:

www.trustservices.swisscom.com