

## **Time Stamp Authority (TSA)**

EKENG TSA service is the process of securely keeping track of the creation and modification time of a document. Security here means that no one — not even the owner of the document — can change it once it has been recorded provided that the timestamper's integrity is never compromised. A timestamp is an encoded information. It identifies a certain event, giving date and time to the document. Trusted timestamping means that you can say with a high level of certainty that the date on the timestamp is accurate and hasn't been tampered with.

[RFC 3161](#) outlines the requirements must meet in order to operate as a Timestamping Authority (TSA).

When the resulting timestamped data or file is opened in the future, the client application will use the TSA's public key to authenticate the TSA (i.e. validate that the timestamp came from a trusted TSA) and re-calculate a hash of the original data. This new hash is compared to the originally created hash (step 1 above). If any changes have been made to the data since the timestamp was applied, this hash check will fail and warning messages will be shown saying that the data has been altered and it should not be trusted.

### **Example:**

<https://ocsp.pki.am/tsa>

Access to service will be available only after validation and signing of contract with EKENG CJSC.