



Odyssey ClockTix FAQs

Odyssey
ClockTix

Odyssey Technologies Ltd

1. What is ClockTix?

Odyssey ClockTix

Odyssey ClockTix server is a fully scalable, standards compliant time stamping server, which allows organizations to set up a TTP (trusted third party) time stamping authority (TSA) that responds to RFC#3161 requests with time stamp tokens.

ClockTix server supports requests in multiple transport mechanisms including Email, HTTP, and TCP and could keep time accurately by relying on any of the established time sources such as GPS, NTP or atomic clocks.

2. What is the need for a time stamping server?

When the signing key of a CA certificate is revoked or compromised, the certificate signed and issued by that CA becomes dubious.

To avoid such circumstances, recording the signing time is very much needed to segregate the certificates or electronic documents issued before the revocation of the signing key or later. With the help of a time-stamping server the organizations dealing with electronic documents can attest time of creation and issuance of the certificate or document to minimize the certificate or electronic document validation pain and time.

Need

- The time stamping server is essential for keeping track of the creation and modification time of electronic document.
- The recorded time on the certificate can be very useful for verifying the authenticity of the CA's signature at the time of issuing digital certificates.

3. Why should I buy ClockTix?/ How does it benefit my business?

- ClockTix is compliant with RFC 3161 and allows organizations to create secure time stamps to record creation, filing and modification time of electronic documents.
- Organizations can verify the accuracy of digital certificates, records, documents, contracts, etc.
- Compliance for keeping proof of time for digital documents can be efficiently and easily met by ClockTix.

- Maintains excellent accuracy of time and auditability, by acquiring time from accurate time sources like GPS, NTP, Atomic clock etc.
- Offers web-based administration with client and server authenticated secure login.
- Supports three modes of protecting signing keys
 - PKCS#12.
 - HSM (Optional).
 - M of N secret sharing.

4. Explain the features of the product?

- Extremely robust and fully scalable server compliant with standard RFC 3161.
- Time stamping request includes only the digest of the message and not the original message.
- Support for issuing time-stamping token for the request received as per RFC 3161 format.
- Acquire time from accurate time sources like GPS, NTP, Atomic Clock etc.
- Signing certificate can be CA issued or self- signed.
- Protects signing key by supporting signing key storage formats including PKCS# 12 and M of N.
- Supports transport mechanism formats like Mail, HTTP and TCP.
- Supports a default SQLite engine for storing time stamping requests.

5. Explain the working of ClockTix (time stamping server)?

The requests made to the ClockTix is always in RFC 3161 format that contains hashed data with policy id and details about the hashing algorithm.

ClockTix server receives the request and response according to the policy id mentioned in the request. The time-stamp response made by the ClockTix will have the status of the request and time stamp token. In case of rejection of the request, the reason for the rejection will be sent along with the response.

The various status of the request are :

- Granted
- Granted with Modification (Policy ID changes)
- Rejection
- Waiting
- Revocation Warning
- Revocation Notification

If the response sent by ClockTix is “failed”, then there can be varied reasons for the failure:

- Unrecognized or Unsupported Algorithm Identifier
- Bad Request / Data format
- TSA's time source not available
- Requested Policy is not supported by TSA
- System Failure

6. Supported platform for ClockTix?

- Processor- Intel/AMD.
- Operating System- Linux 64 bit systems.
- Database Supported- SQLite engine.



7. How long does it take to deploy ClockTix?

ClockTix can be deployed in a matter of few weeks.

ODYSSEY TECHNOLOGIES LTD.

5th Floor, Dowlath Towers, 63, Taylors Road, Kilpauk, Chennai - 600 010, India.
Telephone : +91 44 26450082, 26450083, 43084070, 43084080
e-mail : info@odysseytec.com