



TSA Crusher Tool



The TSA Crusher Tool is a useful test tool for PKI administrators and support staff that need to test the performance and efficiency of one or more Time Stamp Authority (TSA) servers. It can be used to ensure that important TSA systems are operating effectively as measured from a TSA client perspective. TSA Crusher Tool can be used both during the installation and configuration of a TSA Server as well as during upgrade processes. It is also a useful tool for capacity planning purposes.

The TSA Crusher Tool enables stress testing of TSA servers with a selectable batch of TSA requests. This facility allows PKI operations managers to prove how their systems respond to varying loads. The product has been built as a batch tool that uses all the available resources of the client workstation to create multiple TSA requests. Because there is no graphical admin user interface a control file is used that:

- Identifies the TSA responder system and port to which the requests should be sent
- Defines the number of batches of tests to be run
- Defines the number of concurrent sessions to use (to increase the load)
- Defines if a nonce is to be used
- Identifies optional proxy settings, with user/password based plain and digest authentication data
- Defines the request timeout period

Since this is a full RFC 3161 TSA Client, the target TSA responder should create a signed timestamp reply for each request that TSA Crusher sends. TSA Crusher receives these TSA responses, analyses the time taken to respond and can then produce a report of the total time taken and the average time per TSA request.

The Ascertia TSA Crusher Tool is fully compliant with the TSA specifications as defined in IETF RFC 3161, and interoperates with any TSA servers meeting this standard.

The TSA Client Tool is written in Java and is supported on modern Windows Servers and Windows desktops.

OCSP Crusher Requirements and Standards Compliance:

Operating systems:	Windows 10, 8, 7, Windows Server 2016, 2012 R2, 2012, 2008 R2
Standards:	RFC 3161 TSA
Interfaces:	HTTP and HTTPS communications for TSA requests/ responses

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