



StampServer SA100

Trusted Time™ StampServer SA100

The Trusted Time StampServer™ (TSS) is a standalone network appliance that provides secure and auditable time stamp signing for any IT application, transaction, or log. The TSS is calibrated by a dedicated service via an authenticated, secure network connection. Once calibrated, a TSS is ready to provide time stamps to any PKIX compliant time stamp request.

The time stamp token includes the time, a hash of the digital information being time stamped, and a time certification/calibration pointer. The pointer provides the necessary information to confirm that the time stamp is accurate, valid and traceable back to an official time authority.

All time operations are performed in a secure operating environment that can withstand physical and logical attacks and the Sovereign Time™ StampServer certification service ensures time stamps are accurate and auditable.

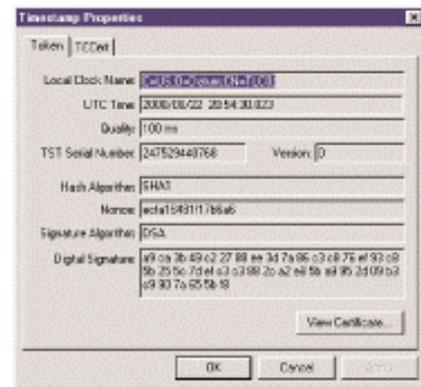
Datum Trusted Time StampServer SA100 sets a new standard in secure and auditable time stamp issuance.

Highlights

- Services time stamp requests from applications, transactions or computer logs
- Integrated IBM 4758 Cryptographic Coprocessor
 - Performs all crypto-functions
 - Secure storage of all permanent and temporary cryptographic material
 - Available in FIPS 140-1 Level 3 or 4 rating
- Regular time calibration periods
- Implements time stamping as specified by the IETF PKIX Time Stamp draft
- 75+ time stamps per second
- API/Software development kit for integrating into specific environments
- 1U, Rack-mounted network appliance



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Trusted Time - time stamp properties

Services **SOVEREIGN TIME**

Sovereign Time is an independent, authorized Trusted Time calibration and audit service for StampServer generated time stamps. The service is fully automated and is closely integrated with the StampServer SA100. It is a key part of the ongoing secure time management provided under the annual support and services agreement.

Sovereign Time ensures StampServers are updated with official UTC time according to your needs. As a secure and irrefutable time sourcing service linked to official time sources, Sovereign Time ensures the integrity of time stamps and provides validation and audit information should a time dispute arise.

Service includes:

- Calibration and Certification of StampServer SA100 time
- Validation and warranty of time stamps issued
- Verification of digital signatures and format conformance
- Validation of the audit trail and certificate chain
- Signed documentation of audit information



StampServer SA100

Configuration Information:

HARDWARE

- Intel Celeron 800 MHz CPU
- 128 MB 133 MHz, ECC SDRAM
- CD-ROM, Front Loading, 24X max-10Xmin
- 1.44m Floppy Drive (3.5)
- Two 20 GB IDE disk drives configured as RAID 1
- IBM 4758 cryptographic co-processor: FCC Class B, European Community CE
- Network: Integrated dual 10/100 Ethernet
- Expansion Slots: None Available
- Indicators/Controls: 4 LEDs – Power, Diskette, CD, System Error - Power & Reset buttons

SOFTWARE

- Datum Trusted Time secure StampServer Application
- Windows ® 2000 Operating System

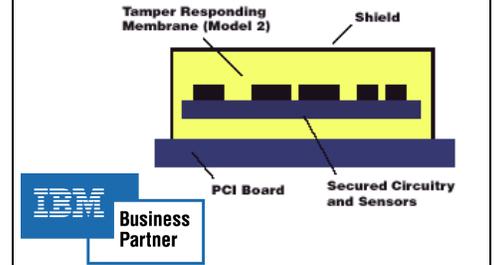
* The StampServer SA100 uses sophisticated security mechanisms to ensure physical and logical integrity. IT MUST BE SHIPPED, STORED, AND OPERATED WITHIN THE STATED ENVIRONMENTAL SPECIFICATIONS OR TAMPER SENSORS WILL BE ACTIVATED AND RENDER THE SYSTEM PERMANENTLY INOPERABLE.

PHYSICAL SPECIFICATIONS

- Form Factor: Height - 1U (1.75"); Depth - 25", Width 17.32"; 30 lbs
- Mounting Systems: 19" rack mount, adjustable rear support bracket included. Additional heavy-duty front support bracket supports relay rack mounting.
- Power Supply: 200W
- Input Voltage: 100-127 VAC (50/60 Hz)
- *Temperature/Humidity (operating):
 - 10° to 40° C
 - 8% - 80% RH, Non-condensing
- *Pressure - FIPS L4 only (operating/ship/storage)
 - min/max 768/1039 mbar
 - min/max 550/1039 mbar
 - min/max 700/1039 mbar
- Altitude (operating): -1,000 - 10,000 feet
- Shock - disk (operating): 20G, 2mS
- Vibration (operating): Linear 5-20Hz, 0.012" (double amplitude); 20-300Hz, 0.25G (0 to peak)
- Motherboard: FCC Class B, European Community CE
- Power Supply: UL / CSA / TUV / FCC Class B / CE
- Fans: CL / UL / CSA / VDE
- EMC Safety: FCC Part 15, CE Class B

Integrated cryptographic co-processor - IBM 4758

- The FIPS 140-1 certification declares that the IBM Coprocessor is uniquely qualified to detect attempted attacks, and to perform processing securely, including correct implementations of several commercially significant cryptographic algorithms.
- StampServer SA100 utilizes FIPS 140-1 Level 3 or Level 4 cryptographic co-processors
- All time, time stamp and clock operations are performed within the 4758 boundary providing the highest level of integrity available for secure time stamping



NOTE: The Datum Trusted Time StampServer SA100 is a secure, dedicated appliance. It is sealed and cannot be serviced or modified except by certified personnel.

Specifications are subject to change without notice.

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