

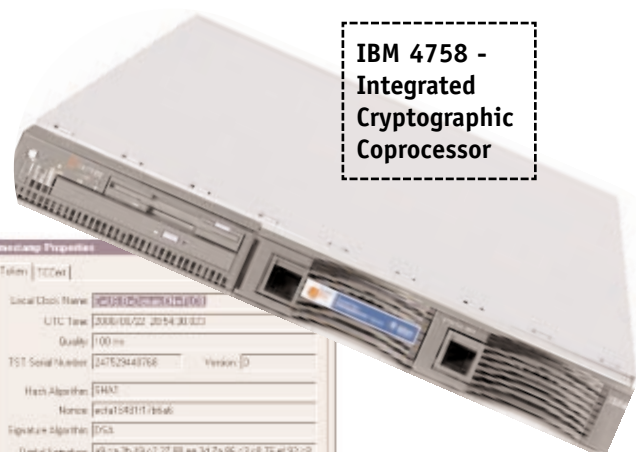
Trusted Time™ StampServer™ SA100

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

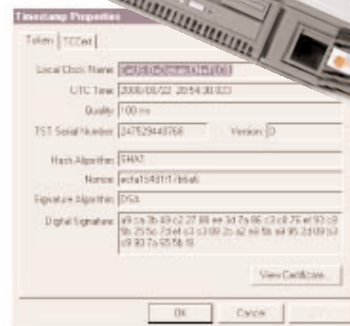
A time stamp token includes the time, a hash of the digital information being time stamped, and a time certification/calibration pointer. The pointer provides the necessary information confirming that the time stamp is accurate, valid and traceable back to an official time authority.

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.

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



**IBM 4758 -
Integrated
Cryptographic
Coproprocessor**



Time Stamp Properties

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 Protocol (RFC 3161)
- 70 time stamps per second, 1024-bit DSA signatures
- 50 time stamps per second, 1024-bit RSA signatures
- API/Software development kit for integrating into specific environments
- 1U, Rack-mounted network appliance
- VeriSign™ time stamp certificate compatible
- Secure web-based management
- Automatic error notification

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 component of the ongoing secure time management provided under the annual support and services agreement.

Sovereign Time ensures that the StampServers are consistently updated and traceable to an official UTC time source. As a secure and irrefutable time calibration service, Sovereign Time verifies 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



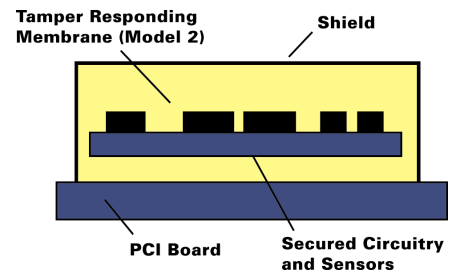
Trusted Time™ StampServer™ SA100 Specifications



IBM 4758 – Integrated Cryptographic Coprorocessor



- 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 coprocessors.
- All time, time stamp and clock operations are performed within the 4758 boundary providing the highest level of integrity available for secure time stamping.



Front Panel

- Power: On/Off
- CD-ROM: Front loading
- Reset: Button
- LED Indicators: Power, CD, Diskette, HDD Activity, System Error

Rear Panel

- Power Connector: Standard US
- Network: Dual 10/100 Base-T Ethernet
- Serial Port: RS-232/DB9
- Video: Standard
- Keyboard connector: Standard
- Mouse Connector: Standard
- LED Indicators: Power, System Error, Ethernet Activity
- USB: Dual USB Ports

Software

- Trusted Time secure time stamping application
- IBM: Common cryptographic architecture
- Host: Microsoft Windows

Technical Specifications

- Form Factor: 1U (1.75" H) x 17.3" W x 25" D (4.37cm x 44cm x 63.5cm); 30lbs. (13.6kg)
- Mounting Systems: 19" rack mount, adjustable rear support bracket included. Additional heavy-duty front support bracket supports relay rack mounting.
- Input Voltage: 100-127/200-240 VAC (50/60 Hz)
- *Temperature/Humidity (operating):
 - 10° to 35° 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): to 7000 ft (2134m) maximum
- Safety: UL 1950, CSA, CE
- EMC: FCC Part 15 (Class A), CE (Class A)



Specifications are subject to change without notice.

* 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.

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

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