



Technology Brief:

Clock Accuracy in Computer Networks

Benefits

Enhanced Network Security

We provide a GPS based solution behind your firewall. It does not have the Internet vulnerabilities of keeping port 123 open to an unreliable public NTP server, which is at high risk for NTP hacks, spoofing, and viruses. GPS based NTP servers provide accurate, reliable, and secure time.

Regulatory Compliance

NetClock® NTP servers support regulatory compliance by providing improved internal controls for time stamping, auditing, and file/data logs through accurate time synchronization.

Authentication Support

Authentication depends on accurate time stamps, such as in cryptography, kerberos, ticket granting, and network forensics.

Accurate Time

Spectracom NetClock systems are based on GPS technology with Legally Traceable Time®, tracking up to twelve satellites simultaneously and synchronizing to the satellites atomic clocks. This provides a direct traceability path to national and international standards.

Quality

We offer a standard, industry-leading 5 Year Warranty on our NetClock NTP Servers. Spectracom is an ISO 9001:2000 registered company.

Results

- Secure Time from Inside your Network
- Low Cost Investment Protection
- Legally Traceable Time®

Secure Network Time Synchronization:

Creating a Secure, Accurate and Reliable Time Source

The monitoring and operations of your network require an accurate and reliable time source. As a leading global provider of GPS enabled time servers, Spectracom provides a secure, accurate, and reliable time source that is behind your firewall. It protects you from the many vulnerabilities and legal liabilities that can occur by receiving your time through other sources, such as the Internet. Spectracom time servers improve internal controls for time stamping, auditing, authentication protocols, and file/data logs. With Spectracom, you know you're secure and that time is accurate across your entire network.

Improved Network Management

(High Performance– Scalable Solution)

Supports:

- Active directory®
- Time Stamping
- File Logs
- Access Security
- Remote Monitoring Logs
- Server Log Files
- Audit Trails
- Access Controls
- VPN
- Passwords
- Authentication
- Financial Reporting
- Record Keeping
- Time and Attendance
- Building Access Control
- Billing Systems
- EDI
- H/R Systems
- Digital IDs
- Business Transactions
- Enterprise Applications
- Internal Security Policies

Complies With:

- HIPAA
- ISO
- Sarbanes-Oxley
- OATS
- FERPA
- ECPA
- E-SIGN
- NENA
- Gramm-Leach-Bliley Act
- UETA
- FDA 21 CFR Part 11
- JCAHO
- ASTM E31
- HL7