

Hardware Features - PIX 3000xN & PIX 3000xNT

- Maintain time within 4/10th of a second over a 24-hour period once synchronized
- Time imprint format includes seconds per OATS NASD/SEC Rule 6953 requirements
- · Prints through up to 6 multiple-part carbonless copies
- · Capable of printing dealer alphanumeric identification
- Full power reserve permits clock operation in the event of power outage
- Quick and easy ribbon cartridge replacement
- · Direct-connect or Ethernet time validation units

Benefits

- Assures financial institutions full OATS NASD/SEC Rule 6953 compliancy, NYSE Rule 132A, FDA 21 CFR Part 11.
- Amano time stamp will continue to function and maintain time as a stand-alone unit, even if it does not receive synchronization from the provided host software.
- The PIX 3000 Series is the highest quality OATS compliant time stamp available.
- Log files maintained automatically on hard drive where computer software is installed which could be e-mailed, saved or printed as desired.
- Convenient system support provided by visible alarms on time stamp imprint & LCD display should synchronization not occur.
- Provides a solution for industry sectors requiring strict adherence to accurate time keeping practices.

ATVS LIST OF CUSTOMERS

Fortune 500 Investment Company

Installation and support for the offices located in Los Angeles, San Francisco, Dallas, Philadelphia, Miami, Palm Beach, Chicago, Atlanta, Houston and Buenos Aires. The installation included 8 to 50 time stamps per site. Amano also configured, deployed and supported the host infrastructure for each site.

Fortune 500 Insurance Company

Installation of 1 to 16 time stamps per site over 39 offices across the United States. The time stamps were supported via a depot service. A central software deployment allowed control and monitoring of the time stamps across the network.

Fortune 500 Global Financial Company

Amano provided approximately 800 time stamps centrally managed over the client's network in offices across the United States.

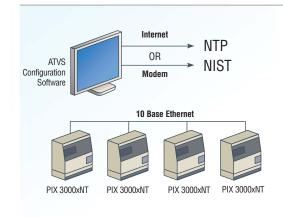
The project included the management, configuration and implementation assistance for the initial deployment.

TYPICAL USER/MARKET

- Bank
- Investment Broker
- NASDAO Trader
- Manufacturing
- Healthcare
- Emergency Call Centers



PIX 3000xNT Network Configuration



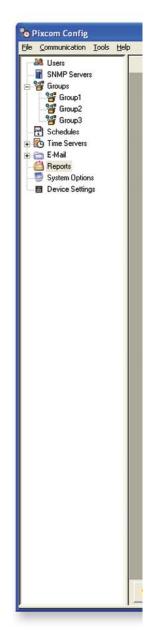
The TCP/IP solution is a "true" Ethernet time stamp solution. It does not simply attach to a network workstation, as with other so called TCP/IP solutions. Each PIX 3000xNT time stamp has an internal NIC and is given an IP address for synchronization over your network. The network software ATVS Configuration Software is installed on a server on your network. The PIX 3000xNT time stamps are then deployed anywhere on your network. Each time stamp requires an active available network port set to 10 half communication speed, with network connectivity back to the single software ATVS Configuration Software installation.

PIX 3000xN Serial Configuration



Software Features— ATVS Configuration Software

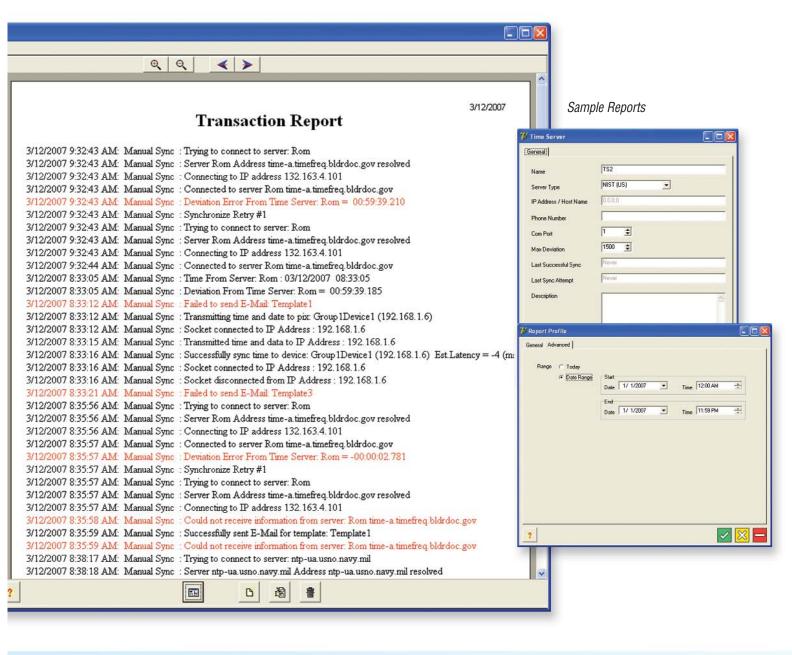
- Event notification through SNMP traps*
- · Automatic time synchronization to an official time source
- · Multiple communication options to time validation units
- NTP (Network Time Protocol) synchs clocks to a time reference over a data network
- · NIST (National Institute of Standards & Technology) synchronization workstation via modem
- · Direct synchronization to the time source rather than to a computer workstation
- · Login security with configurable rights to sections of application
- · Software supports two communication options and validation units:
 - -PIX 3000xN clocks via Serial RS485 direct connection
 - -PIX 3000xNT clocks via Ethernet TCP/IP network connection
- Full OATS compliance with stand-alone units not linked to a PC
- · Complete server-based solution, not on individual trader computers
- · Reports including status/error, transaction log, and configuration settings
- Unlimited synchs per day for improved accuracy
- E-mail notification of clock status and/or failure to synchronize time to chosen recipients*
- Synchronization logging data maintained per OATS Rule 6953 requirements
- Runs as a Windows® service to perform synchs*
- Compatible with Windows® NT / 98 / 2000(ME) / 2003 / XP / Vista



Scheduled Reports

| Every | 0 | ± | day(s |
|-------------|------|----------|-------|
| Start Date | 10/2 | 4/2006 | |
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^{*} Enterprise version only









Weekly Report

Monthly Report

ATVS Feature and Capability Comparison



SOFTWARE

Full Order Audit Trail System (OATS) compliance

Automatic time synchronization to official source

Complete client/server based solution

Central host computer synchronizes time

Stand-alone time stamps not linked to workstation

Each individual workstation requires time software

Time stamp/printer connected to workstations

Dedicated Master Clock required for synch

Serial communication RS485/dedicated wiring

Multiple communication options to validation units

Ethernet communication TCP/IP/existing network

Time source via modem NIST

Time source via internet NTP

Log-in security with configurable application rights

Clock lock security against unauthorized users

Selectable number of synchs per day (2 min. required)

Clock synch runs as Windows® Service

Status, transaction, and configuration reports

Synchronization log data maintained

Email notification of clock status/failure

Event notification through SNMP traps

Full SQL database ODBC for extracting data

Easy software setup Wizard®

Professional installation required

End-user installation possible



HARDWARE

Selectable imprint format including seconds

Failure to receive time signal notification

Prints alphanumeric custom comments

Easy ribbon cartridge replacement

Automatic and/or manual print activation

Prints through up to 6 carbonless copies

Full power reserve in power outage event

Maintains time within 4/10th seconds per day

| DocuClock | Simplex | Widmer | Amano |
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| DocuClock | Simplex | Widmer | Amano |
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- 1 Widmer WAN solution requires MasterClock; software on each client PC, Time stamp connected to PC
- **2** Virtually unlimited synchronization through multiple time servers/sources with Enterprise edition
- **3** Standard version (non enterprise) may be user installable based on size of the system
- **E** Feature included in Enterprise edition only

S P E C I F I C A T I O N S

POWER REQUIREMENTS

100/120/230 VAC +/- 10% 50/60 Hz

POWER CONSUMPTION

Normal 3W, maximum 6W

TEMPERATURE

14°F ~ 113°F (-10°C ~ 45°C)

HUMIDITY

10-90% (non-condensing)

DIMENSIONS

6.9" H x 5.9" W x 6" D (176mm x 150mm x 153mm)

WEIGHT

5 lbs. (2.3 Kg)

ENVIRONMENT

Indoor use only, dust free, no direct sunlight

| REQUIREMENT | OATS COMPLIANCE | ATVS SOLUTION |
|----------------------|---------------------------------------|--|
| Imprint format | Y2K compliance and prints seconds | 1998/02/2016:51 21s |
| | YYYY/MM/DD HH:MM SS | YYYY/MM/DD HH:MM SS |
| Time synchronization | Time synchronization with Atomic time | 1998/02/2016:48 338 - |
| | from NIST at least one per day | Self-validation mark |
| | | Self-validation Time Synchronization |
| Time deviation | Within 3 seconds deviation per day | Less than 4/10th seconds deviation per day |

The PIX 3000xN has the following additional features not found on the standard PIX 3000X:

- Factory set fixed style print format that will print year/month/date/hour:minute seconds, with the year printed as a four digit number.
- On a daily basis, the PIX 3000xN can self-check and validate if a time/date synchronization signal has been received.
- Dual Auto-Print feature. This feature allows the automatic printing of a second programmed print style, without having to push the auxiliary Symbol Print Bar.

The PIX 3000xNT is a PIX 3000xN equipped with an Ethernet Board, which is to be used with TCP/IP based applications. All other functions are the same.

Manufactured by Amano Cincinnati, Inc.'s Ohio factory, an ISO 9001:2000 registered facility. Specifications are approximate and are subject to change without notice. UL approval does not apply to 220/240V AC, 50/60 Hz







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