

TimeSource 3000

Software Release Document

Release 1.02.02

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General

This document provides information about Release 1.02.02 of the software for Symmetricom's TimeSource 3000.

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The TimeSource 3000 Shelf is shipped from the factory with software installed. The procedure in this document should be used only for reinstalling existing software, or for installing a software upgrade.

New Features

This release of the software includes the following new features:

- The Delete User Security command was added, to allow a system administrator to delete a user.
- The Edit Communication command was added, to change communication port parameters.
- The Enter User Security command was added, to allow a system administrator to enter a new user, including the user name, password, and access level.
- The Retrieve Communication command was added, to display communication port parameter settings.
- The Retrieve GPS Status command was added, to display the position of the GPS receiver, UTC time, and status information for each of the GPS satellites in view.
- The Retrieve User Security command was added, to allow a system administrator to retrieve security parameters for a single user or for all users.
- The Set Source Identifier command was added, to set the name of the equipment sending the message.

- Command parameters were modified to implement the following new features:
 - Time of Day output: NTP Type 4 or Cisco format
 - Software and hardware flow control
 - Alarm conditioning
 - Eight additional T1 outputs option
 - IRIG-B format Time of Day outputs option

Corrected Issues

This release of the software includes the following corrections:

- *Issue 0-04:* When downloading the DEV1.hex or GPS.hex file to the TimeSource 3000, there was no COMPL response to the CPY-MEM command.
 - *Correction:* When downloading the DEV.hex or GPS.hex file to the TimeSource 3000, there is a COMPL response to the CPY-MEM command.
- *Issue 0-10:* The <atag> parameter in autonomous messages showed "ct" instead of a number which increments with each message.
 - *Correction:* The <atag> parameter in autonomous messages shows a number which increments with each message.
- *Issue 0-25:* The alarm logic allowed a higher severity alarm to be overridden by a lower severity alarm.
 - *Correction:* The alarm logic does not allow a higher severity alarm to be overridden by a lower severity alarm.
- *Issue 0-28:* If a line of text was repeatedly sent to the TimeSource 3000 without waiting for a response between entries, the third or fourth deny message occasionally showed only a partial representation of the text string that was entered.
 - *Correction:* If a line of text is repeatedly sent to the TimeSource 3000 without waiting for a response between entries, all deny messages show the complete representation of the text string that was entered.

Known Issues

This release of the software includes the following issue:

• *Issue 4-51:* After installing this software release, the system performance may enter the degraded region of the PRS mask for up to 1 hr.

Workaround: None.

Estimated Down Time

Not applicable.

Estimated Installation Time

Installing this software release takes approximately 30 minutes.

Requirements

The hardware, software, and documentation required to operate this software release is listed below.

Hardware

A PC with the following minimum items is required.

- 90 MHz Pentium
- 8 MB RAM
- One available serial communications port
- CD-ROM drive

Software

The software listed below is required/recommended for the PC.

- Windows 95, Windows 98, or Windows NT 4.0 operating system (required)
- Terminal emulation software with Y-modem capability

Documentation

Use the manual/revision listed below. Higher revisions of the manual can also be used.

<u>Manual</u>	Part Number	<u>Revision</u>
TimeSource 3000	997-72000-01	E

Installation

To install this software release, follow the steps in Procedure A.

Procedure A. Software Installation

Step Procedure

Use this procedure to install the software in the TimeSource 3000. This procedure assumes that the TimeSource 3000 Shelf is installed and powered.

Caution: After installing this software release, the system performance may enter the degraded region of the PRS mask for up to 1 hr.

Note: In this procedure, ignore all responses and alarms not specifically mentioned.

Equipment:

- I. A computer that accepts a CD-ROM drive, has a hard drive with at least 2 megabytes of disk space available, and has an ASCII terminal emulation program capable of a Y-modem batch transfer of files. The computer must have an RS-232 connection to the shelf with the following settings: local echo off, 8 data bits, no parity, I stop bit, and 9600 baud.
- 2. The TimeSource 3000 CD-ROM labeled 092-72010-02 Version 1.02.02.

	Insert the TimeSource 3000 CD-ROM labeled 092-72010-02 Version 1.02.02 into the computer.
2	Create a new directory on the hard drive of the computer.
3	Copy the TS3000.hex, GPS.hex, and DEV.hex files from the TimeSource 3000 CD-ROM to the directory created in the previous step. For 990-72010-01 systems (two T1 outputs), copy the DEV1.hex file; for 990-72010-05 systems (two T1 and eight composite clock outputs), copy the DEV3.hex file; for 990-72010-02 systems (two T1 and IRIG-B outputs), copy the DEV5.hex file.
4	Remove the TimeSource 3000 CD-ROM from the computer.
5	At the computer, from the terminal emulation program, press the semicolon (;) key.
	Requirement: The computer shows one of the following:
	"C"
	or
	a TL1 deny message

Step	Procedure			
6	If "C" was the response in the previous step, continue with the next step. If "C" was not the response in the previous step, skip to Step 9.			
7	Activate a Y-modem transfer of the TS3000. hex file from the directory created in Step 2 to the Time-Source 3000. The download may take up to 20 minutes.			
8	After the terminal emulation software indicates that the transfer has been completed, wait 90 seconds, then enter ";".			
	If the result is "C", the transfer was incomplete; repeat Step 7. If the result is a deny response, the transfer has been completed; continue with the next step.			
9	Enter the following command:			
	ACT-USER:: <uid>:<ctag>::<pid>;</pid></ctag></uid>			
	Note: If you do not know the <uid> parameter (user identifier or user name) or <pid> parameter (private identifier or password), ask your system administrator.</pid></uid>			
	Requirement: When completed, the following is displayed:			
	TS3000 <date> <time> M</time></date>			
	;			
10	Determine the version of software currently installed by entering the following command:			
	<pre>RTRV-INVENTORY:[<tid>]:TS3000:<ctag>;</ctag></tid></pre>			
	Requirement: The following is displayed:			
	TS3000 <date> <time> M</time></date>			
	The software version of the operating system (SOFTVER_TS3000=x), the GPS receiver (SOFTVER_GPS=x), and the hardware (SOFTVER_DEV=x) are shown near the bottom of the response.			

Step	Procedure					
	Determine if the latest software versions are installed by comparing the results of the previous step with the software versions in this software release. This software release includes the following:					
	Software Operating System software (SOFT GPS Receiver software (SOFTVEF Plus one of the following:	*	Version in this release 1.02.02 1.01.01			
	Hardware (SOFTVER_DEV=1) Hardware (SOFTVER_DEV=3) Hardware (SOFTVER_DEV=5)	for 090-72010-05	1.02.01 1.02.01-1.01.01 1.02.01-1.01.01			
12	If no further downloading is required, skip to Step 19. To download files, continue with the next step.					
	Note: If any alarms are present, clear them.					
13	Based on the results of Step 11, determine which software files are to be downloaded, then the <aid>associated with that software, and the file name for that software from the following:</aid>					
	Software Operating System software GPS Receiver software Plus one of the following: Hardware (for 990-72010-01) Hardware (for 990-72010-02)	≤aid≥ TS3000 GPS DEV1 DEV3 DEV5	File Name TS3000.hex GPS.hex DEV1.hex DEV3.hex DEV5.hex			
	Notes: 1. The <aid> and file name will be a Downloading any of the DEV file.</aid>		o steps. m out of service for up to 20 minutes.			
14	Enter the following command with	the appropriate <aic< td=""><td>I> (determined in the previous step):</td></aic<>	I> (determined in the previous step):			
	<pre>CPY-MEM::<aid>:ctag::AUX,,WKG:PGM;</aid></pre>					
		· ·	started within 60 seconds of entering the CPY- id the CPY-MEM command will have to be re-			
15	Activate a Y-modem transfer of the appropriate file (from Step 13) from the directory created in Step 2 to the TimeSource 3000. The download may take up to 20 minutes.					
16	After the terminal emulation softw	are indicates that the	transfer has been completed, wait 90 seconds.			
	deny message is displayed.					
	Note: If the TS3000.hex or DE file was downloaded, the user rem		nloaded, the user is logged off. If the GPS.hex			

Procedure A. Software Installation (cont'd)

Step	Procedure	
17	If a deny message was displayed in the previous step, repeat Steps 14 through 16. If a completed message was displayed in the previous step, continue with the next step.	
18	 If additional files require downloading: If the TS3000. hex or DEV. hex file was downloaded and another file requires downloading, repeat Steps 9 through 17. If the GPS. hex file was downloaded and another file requires downloading, repeat Steps 10 through 17. If no additional files require downloading, continue with the next step. 	
19	Delete all files in the directory created in Step 2.	
20	Delete the directory created in Step 2.	
	End of Procedure	

10 TimeSource 3000 End