

## PRODUCT CHANGE NOTICE

### Symmetricom/TrueTime\* NTS-150, NTS-200 and TimeVault Network Time Servers

#### 1. Supplier Information

Symmetricom  
3750 Westwind Blvd.  
Santa Rosa, CA 95403  
1-888-367-7966 (1-888-FOR-SYMM) toll-free in the  
USA, Option 1, Option 3  
1-408-428-7907 Worldwide, Option 1, Option 3  
TechSupport.ttm@symmetricom.com

#### 2. Product Change Notice #

0402-01-TTM

#### 3. Issue Date

February 23, 2004

#### 4. Change Classification

N/A

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#### 5. Product Identity/Model

NTS-150  
NTS-150 w/Display  
NTS-200  
TimeVault

#### 6. Product Code/Assembly

NTS-150  
NTS-150d  
NTS-200  
6000-100

#### 7. Old Product Code

NTS-150  
NTS-150d  
NTS-200  
6000-100

#### 8. New CLEI Code

N/A

#### 9. Old CLEI Code

N/A

#### 10. Drawing #

N/A

#### 11. Associated Products or Changes Affected

N/A

#### 12. Classification Substantiation

N/A

#### 13. Reason for Change

Firmware version v8.2 is now available for all Symmetricom/TrueTime\* model NTS-150, NTS-200 and TimeVault network time servers.

#### 14. Description of Change

Firmware Changes:

Updated the ntp daemon to address a buffer overflow security vulnerability [Ntpd server readvar control message buffer overflow (CVE-2001-0414)]. Network Time Protocol Daemon (ntpd) versions 4.0.99k and earlier are vulnerable to a buffer overflow when ntpd attempts to respond to an NTP control message containing a large readvar argument. By default, the ntpd daemon runs with root privileges. A remote attacker could overflow the buffer and execute arbitrary code on the system with ntpd privileges. This security vulnerability has been closed in v8.2.

Added an F100 WG (Write GPS) command. This function controls the time base of the network time server. The default time base for the time server is UTC time. For those customers possessing a GPS based unit, it is possible to command the time server to run on the GPS time base, thereby ignoring the current time offset to UTC and any future leap events. This is not a recommended mode of operation but in certain circumstances some customers require this functionality.

**Do you need to upgrade?** Symmetricom recommends that all owners of the NTS-150, NTS-200 and TimeVault models who purchased their network time servers prior to February 2004, or have a network time server with a firmware version prior to v8.2, upgrade to v8.2 firmware. Customers with firmware versions prior to v007 will need to first upgrade to v007, then upgrade to v8.2. See Determining Your Firmware Version below.

#### Determining Your Network Time Server Firmware Version:

- NTS-200 & TimeVault via the Network Time Server web interface: From the home page in the server, press the [Network] button. Under the General heading you will see the following:

Bootloader: 182-9003vxxx  
Software Build: 182-9004vxxx  
File System Version: 182-9005vxxx

- NTS-150, NTS-200 & TimeVault: via the Telnet or Serial Interface: Use the Version Request, F100 VER command to obtain the software version numbers of the time server. An example command and response would be:

```
f100 VER <Enter>
Bootloader 182-9003Vxxx
Software 182-9004Vxxx
File System 182-9005Vxxx
```

**15. Effect of Change**

Enhanced software, new functionality.

**16. Material Affected**

N/A

**17. Documentation Affected**

N/A

**18. Supplier Implementation Date**

February 23, 2004

**19. Modification Expiration Date**

N/A

**20. Modification Location**

All NTS firmware can be downloaded from the Symmetricom web site at [www.symmetricom.com](http://www.symmetricom.com) or the dedicated network time server web site [www.ntp-systems.com](http://www.ntp-systems.com).

**21. Modification Cost**

There is no cost for this upgrade

**22. Location and Quantity of Equipment**

N/A

**23. Attachments**

N/A

**24. Comments**

\*On October 4, 2002 TrueTime merged with Symmetricom, Inc. Complete details and information can be found at [www.symmetricom.com](http://www.symmetricom.com).