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1. PRODUCTS AFFECTED

5601MSC SPG/MASTER CLOCK SYSTEM
TRIMBLE-GG GPS ANTENNA

2. OVERVIEW

Evertz has released firmware updates for the 5601MSC and Trimble-GG GPS receiver to address a condition that may result in the unit reports time to be 1 second ahead of GMT.

As this can lead to an on-air event, Evertz **STRONGLY** recommend affected customers contact Evertz customer Service to schedule upgrades.

The Antenna upgrade will take approximately 15-20 minutes per unit. The upgrade is performed serially.

A 5601MSC upgrade, if required, will take approximately 35-50 minutes per unit of performed serially or 5 minutes if utilizing FTP to upgrade.

3. REASON FOR THE UPGRADE

This firmware will resolve a potential issue that may arise when using a GPS signal as the frequency and timing reference.

Certain older versions of firmware for the Trimble-GG GPS receiver will mishandle the leap second flag. Instead of flagging the next pending leap second it will instead register the leap second as having occurred. This results in the 5601MSC changing it's time to one (1) second ahead of GMT prior to the actual leap second scheduled time. This happens whenever GPS messages containing a warning flag about impending leap second increments are received.

This newer firmware addressed that condition by correctly flagging pending leap seconds and taking no further action until the appropriate time of the scheduled leap second change.

Since there is potential to experience an on-air event, Evertz **STRONGLY** recommends that an upgrade is scheduled in a suitable maintenance window.

4. VERIFYING YOUR 5601MSC AND GG RECEIVER IS AFFECTED

On the front panel of the 5601MSC you can determine the current firmware. Press STATUS and use the UP/DOWN arrows until *STATUS-Options Firmware* appears. If it shows *Ver 2.7 B 5*, you do not need to upgrade the 5601MSC.

If the display shows firmware other than *Ver 2.7 B 5*, a 5601MSC upgrade will need to be scheduled prior to proceeding to the next step.



Do not proceed with Acutime GG upgrade until the 5601MSC is running Ver 2.7 B 5 firmware.

The COM connector is a 9-pin female “D” connector for RS-232 using 115200 baud, 8 data bits, no parity, 2 stop bits located at the rear of the 5601MSC.

Connect COM to your configured serial port and press *Enter* to see the command prompt. Type **GPS_VER** and press *Enter*, the 5601MSC will output version information similar to what is shown in the example below:

```
Software version CPU 1.9 date = Aug. 1, 2016, DSP 1.6 date = Aug. 1, 2016  
Software version CPU 1.9 build 0. date = Aug. 1, 7. Acutime GG  
Hardware sn 11960946. date = Aug. 20, 7 hour 1. Code = 11  
Dev = Acutime GG
```

If the Software version is below 1.9 AND Dev=Acutime GG the Antenna needs to be updated.

5. UPGRADING FIRMWARE



Please contact Evertz Customer Service for upgrading instructions

6. EVERTZ CUSTOMER SERVICE CONTACT INFORMATION

If you have any questions or concerns, please contact Evertz Customer Service at:

Normal business hours: 905-335-7570

Emergency After-hours support: 905-407-7570

Email: service@evertz.com