

FIELD SERVICE BULLETIN

FSB# 140110-02d

January 10, 2014

(Revised 1/24/2014)

Affected Products:

All products listed below.

Part Number:	Description:
3014-00xx-00x	Tempus LX CDMA Network Time Server
3015-00xx-00x	Tempus LX GPS Network Time Server
3016-00xx-00x	Unison CDMA Network Time Server
3017-00xx-00x	Unison GPS Network Time Server
3018-00xx-00x	Tempus LX CDMA Network Time Server (Japan)
3019-xxxx-00x	Meridian Precision GPS TimeBase
3025-xxxx-00x	Meridian CDMA Frequency Reference

Note: "x" is variable.

Problem:

NTP vulnerability CVE-2013-5211

Vulnerability detected in the `monlist` feature in `ntpd` before version 4.2.7p26. It allows remote attackers to cause a denial of service (traffic amplification). Details are here:

<http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2013-5211&cid=1>.

Background Information:

The `monlist` vulnerability has to do with NTP remote query tools - `ntpq` and `ntpd`. There have been known vulnerabilities in remote query for years. The best fix is to restrict the use of `ntpq` and `ntpd` to local operation only. By restricting access, the vulnerabilities their operation might present are not exposed to outside hosts coming in over the network. If someone is executing either `ntpq` or `ntpd` while logged into the Time Server, that's fine. They are already logged in and the idea is that such a person is not a malicious user. Even if they are, they're already in anyway.

Required Action:

Even though the products listed above have a version of NTP prior to 4.2.7p26, there is an easy way to protect them. No firmware upgrade is required.

The specific action to take depends on which Linux Subsystem version your unit is running. At the command prompt type this command: `cntpversion` (if a CDMA unit) or `gntpversion` (if a GPS unit). You will see something similar to this:

```
Tempus LX CDMA 6010-0044-000 v 5.63 - Fri Apr 6 17:21:20 UTC 2012
```

Or

```
Unison GPS 6010-0042-000 v 3.02 - Tues Jul 2 12:13:51 UTC 2008
```

If the version shown is v 5.60 or higher, then the only way your unit might be vulnerable is if you have edited the `ntp.conf` file and saved it in `/boot/etc`. (If you need help with Linux commands see the last page.)

Is there an `ntp.conf` file in `/boot/etc`?

If no, then you have nothing to worry about.

If yes, then edit `/boot/etc/ntp.conf` and make sure the **`noquery`** keyword is present in the **`restrict default...`** line. Here is an example:

```
restrict default nomodify noquery
```

If the version shown is v 5.50 or lower, then your unit shipped from the factory with remote execution of these query tools enabled and may be vulnerable. (If you need help with Linux commands see the last page.)

Is there an *ntp.conf* file in */boot/etc*?

If **no**, then edit the */etc/ntp.conf* file and add the **noquery** keyword in the **restrict default . . .** line like this:

```
restrict default nomodify noquery
```

Then add this line:

```
restrict 127.0.0.1 nomodify
```

Save the file and copy to */boot/etc*.

Then **reboot**.

If **yes**, then edit the */boot/etc/ntp.conf* file. Make sure the **noquery** keyword is present in the **restrict default . . .** line. Here is an example:

```
restrict default nomodify noquery
```

Then add this line:

```
restrict 127.0.0.1 nomodify
```

Save the file and then **reboot**.

Contact Information:

Feel free to contact us if you have any questions or need help:

EndRun Technologies
2270 Northpoint Parkway
Santa Rosa, CA 95407
707-573-8633 or 1-877-749-3878 (toll-free)
support@endruntechnologies.com

Quick Help for Non-Linux Users:

The following commands are available on the command line interface: **ls**, **more**, **cp**, and **edit**.

ls

ls /boot/etc

List.

This command will display a list of all files in the */boot/etc* directory. Look for the *ntp.conf* file.

more

more /boot/etc/ntp.conf

More.

Use **more** to see what is inside *ntp.conf*.

edit

edit /boot/etc/ntp.conf

Edit.

Use **edit** if you need to make changes to the file.

ALT-H

Help Screen. This will show you a list of keystrokes you might need.

CTRL-K Q

To quit without saving.

CTRL-K X

To quit and save your changes.

cp

cp -p /etc/ntp.conf /boot/etc

Copy.

To copy a file from one location to another. The **-p** preserves attributes.