

## REMOTE CONTROL UNIT w/ GPS USER NOTIFICATION

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### Problem Description:

Thales has identified an error in the firmware of the MA6795 Remote Control Unit [RCU] with GPS (Thales p/n 4101890-501). This error causes the Julian date to be displayed incorrectly. The 'RGU RTC FILL' function, which sets the attached radio's clock to GPS Julian time, sets the Julian Day incorrectly (hours, minutes and seconds are set correctly). For non-leap years, Julian Days are displayed one day less than the actual Julian Day. For leap years, Julian Days after February 28 are one day less than the actual Julian Day. The error is in version **0004.001** and earlier. The firmware version is displayed when the RCU is powered on.

### Operational Impact:

The "RGU RTC FILL" is one methodology used by the MBITR and JEM to set the radio's clock. This clock is also used as the SINCGARS net time standard when using the SINCGARS waveform. Nets consisting solely of MBITR or JEMs with net times loaded through the MA6795 are unaffected since the same incorrect Julian Day is loaded into all radios. Nets consisting of MBITR or JEMs with net times loaded through the MA6795 and radios loaded through PLGR or DAGR GPS units are affected and will not communicate using the SINCGARS waveform because their Julian Days do not match. *The work around is to load the SINCGARS net time into the MBITR or JEM manually or using an alternative GPS device instead of through the MA6795's 'RGU RTC FILL' function.*

### Resolution:

The MA6795 error resides in RCU firmware version **0004.001** and has been resolved in firmware version **0004.002**. Newly manufactured units with the firmware upgrade will power up showing version **0004.002** and the unit label will read revision N or greater.

### Logistics:

Any RCU containing firmware version **0004.001** should be updated with firmware version **0004.002**. Fielded units must be upgraded by Thales personnel or returned to an authorized repair depot. This can be performed by requesting Return Material Authorization [RMA] via our website [www.thalescomminc.com](http://www.thalescomminc.com). Please contact Customer Support for any additional information at [technical.support@thalescomminc.com](mailto:technical.support@thalescomminc.com) or call 1-800-914-0303.