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Industry Update from eGPS Solutions...

## GPS Modernization Gets Off The Ground

Sunday night's sky lit up as a Delta rocket was launched carrying the first of a new modern class of global positioning satellites, thus propelling present day GPS usage into the future.



The new, modernized GPS 2R-M satellites have increased power and will provide two new, improved military signals and a second civilian signal, the L2C frequency, which will enhance GPS performance. The improvements of the L2C signal promise:

- Greater accuracy. Receivers will be able to remove navigation errors caused by the Earth's ionosphere and compensate for actual atmospheric effects in real-time.
- Added resistance to interference.
- Enhanced performance for users around the world.

The long awaited L2C signal is expected to correct a few of the hitches experienced by surveyors currently using GPS. Industry specialists predict the L2C frequency will enable surveyors to experience improved rover performance in multi-path environments such as under canopy. This same technology will most likely make the L2C the signal of choice for other applications such as wireless emergency inside buildings, personal navigation in forested areas, and vehicle navigation along tree-lined streets.

Sunday's launch of the GPS 2R-M1 is just the beginning of replacing the aging network of 24 original satellites and their backups. GPS 2R-M1 will occupy Plane C, Slot 4 position, taking over from the GPS 2A-20 craft launched in May 1993 and should commence broadcasting in December or January. The old satellite will be re-positioned elsewhere in the constellation and remain in use until its working life expires. The next 2R-M launch is scheduled from Cape Canaveral in early 2006 and will carry two new satellites!

The GPS business is quickly booming and analysts expect the industry to grow from \$16 billion in 2003 to \$68 billion in 2010.

For more information on Sunday's launch:

[www.spaceflightnow.com/delta/d313a](http://www.spaceflightnow.com/delta/d313a)