

# EGNOS

## CHANGES TO DATA MESSAGE AND PRNS

GPS is a very dynamic technology and business, marked by ongoing technical enhancements, changes in satellite deployment, and SBAS system upgrades. Because of these changes we have had to make changes to our products in the past, and we will most certainly continue to make changes in the future so that TeeJet products continue to operate to a high level in the latest GPS environment.

### Change in EGNOS data message

During the last month we have received a number of calls from customers stating that they are losing the EGNOS correction signal during the operation of TeeJet products. We have done many hours of investigation and we have determined that the European Space Agency (ESA) has recently changed one of the EGNOS data messages with the result being that some TeeJet products no longer accept the EGNOS data as being 'good' and the receiver drops back to ClearPath GPS (no EGNOS corrections applied).

*IMPORTANT: This problem is only seen on Matrix Pro units in the following serial number ranges with **ClearPath GPS receivers running receiver version 010016 (v1.016)**:*

#### Serial Numbers

Matrix Pro 570G w/ ClearPath GPS:	Matrix Pro 840G w/ ClearPath GPS
7530077xxxxx	7530084xxxxx
7530082xxxxx	7530093xxxxx
7530089xxxxx	7530106xxxxx
7530092xxxxx	7530090xxxxx
7530080xxxxx	7530105xxxxx
7530083xxxxx	
7530091xxxxx	

### NOTE TO SALE STAFF AND CUSTOMERS

All your hard work over the last 7 years has resulted in TeeJet achieving a significant share of the agricultural GPS guidance market in Europe. This is a fantastic achievement and we thank you all for your efforts in making this happen.

## Change in EGNOS PRNs

Unrelated to the EGNOS data issue above, but occurring at the same time, is a change in EGNOS PRNs being implemented by the ESA. Effective March 23rd, 2012 the ESA is changing the status of PRN 126 from Test Mode to Operational Mode, and immediately afterwards they plan to change PRN 124 from Operational Mode to Test Mode. No changes are scheduled at this time for PRN 120.

Because of changes we had to make to the receiver configuration to ignore the previously unhealthy PRN 126 signal and yet still operate on the healthy PRN 120 & 124, all existing TeeJet products in the serial number ranges stated below operating on EGNOS may, depending on the exact changes made by the ESA in the next few days, be limited to using PRN 120 correction data only, for a period of time.

*IMPORTANT: This problem is only seen on Matrix Pro units in the following serial number ranges running Matrix/Matrix Pro versions 2.03 or earlier:*

### Serial Numbers

Matrix Pro 570G w/ ClearPath GPS:	Matrix Pro 840G w/ ClearPath GPS
7530077xxxxx	7530084xxxxx
7530082xxxxx	7530093xxxxx
7530089xxxxx	7530106xxxxx
7530092xxxxx	7530090xxxxx
7530080xxxxx	7530105xxxxx
7530083xxxxx	
7530091xxxxx	
Matrix 570G, V-1	Matrix 840G, V-1
7530056xxxxx	7530071xxxxx

Once we issue an update to take care of the EGNOS data message problem detailed above we do not anticipate that the changes in EGNOS PRN availability will cause problems with the reliability or accuracy of any TeeJet GPS products, but we are investigating a solution that will improve redundancy by enabling PRN 126 on all TeeJet GPS products.

For more information on the PRN changes being made by the ESA please visit:

[http://egnos-user-support.essp-sas.eu/egnos\\_ops/node/118](http://egnos-user-support.essp-sas.eu/egnos_ops/node/118)

## Follow-up

Next week we plan to provide a second communication that outlines our exact plans for both these issues.

If you need to continue operating a TeeJet GPS unit in the above detailed serial number ranges in the next few days and the unit will not maintain EGNOS lock, please change the setting in Configure\GPS\GPS Port from GPS/DGPS (or DGPS only) to GPS only (or GPS + GLONASS if available).

*Note: this communication only applies to TeeJet products in the serial number ranges specified above. We do not anticipate any problems with units not specified in this communication.*



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