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## TerraSync Software: Common Real-Time Correction Source Datums

Applying high accuracy real-time corrections requires knowledge and proper application of datum transformations. It is crucial that you understand the reference datum of correction sources so you can maximize the accuracy of your corrected GPS data.

The Trimble TerraSync™ 3.20 software can now log measurement data in terms of a single datum (WGS-84) thus minimizing the chances of any double datum transformations when exporting data—an implied transformation at time of data collection, and a further transformation at time of export in the GPS Pathfinder® Office software.

Following is a list of common real-time correction sources around the world and the datum on which each is transmitting corrections:

Correction source	Datum transformation
NDGPS Beacon	NAD-83 (Conus) CORS96
WAAS (Integrated SBAS)	WGS-84/ITRF 2000
EGNOS (Integrated SBAS)	WGS-84/ITRF 2000
MSAS	WGS-84/ITRF 2000
OmniSTAR VBS (USA)	NAD-83 (Conus) CORS96
OmniSTAR VBS (outside of the USA)	ITRF 2005
OmniSTAR HP (worldwide)	ITRF 2005
OmniSTAR XP (worldwide)	ITRF 2005
European DGPS Beacon Service	ETRF 89
RBN/DGPS Beacon (China)	WGS-84/ITRF 2000
AMSA DGPS Service Beacon (Australia)	WGS-84/ITRF 2000
DGPS Beacon Service (Korea, Japan, Singapore)	WGS-84/ITRF 2000

If the correction source you are using is not listed, it is important that you determine the datum which the corrections are being transmitted on and specify it correctly in the field software.

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Trimble Navigation Limited, 10355 Westmoor Drive, Suite #100, Westminster, CO 80021, USA

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