



Exporting TerraSync Data Files to an Esri Shapefile from the Trimble GNSS Device

There may be times when you have to export your TerraSync field data (SSF file) right from the data collector and the process is pretty straight forward. Keep in mind that if you did not receive real-time corrections during your field work session, that autonomous GNSS data can be up to 10 meters off. We do recommend using Pathfinder Office to export the data if you need it to be post processed, or if you need to specify additional GNSS metadata like precisions, correction type, etc.

Follow these steps.

1) Create a folder to export the data to on the Trimble GNSS device (ie,Geo7X)



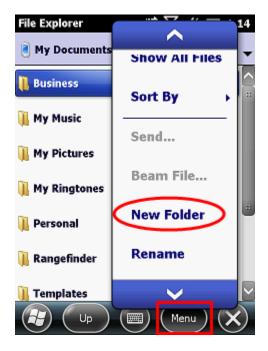
a. Click on the Start menu and select File Explorer

b. Browse to the My Documents folder or SD Card





c. Select *Menu*, scroll down and choose *New Folder*



d. Type in the name of your folder (ie, Export) and press Enter

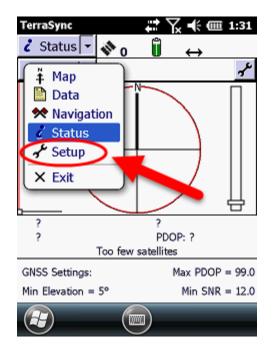


- e. Close (X) out of File Explorer
- 2) Open TerraSync

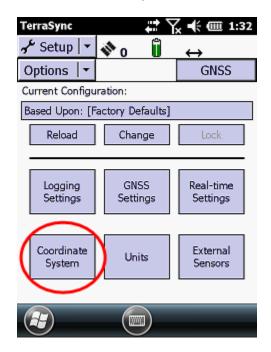




- 2. Choose the *TerraSync icon* or go to *Start* menu and choose *TerraSync*
- 3. Setup the Coordinate System
 - a. Click on Status and choose Setup



b. Choose *Coordinate System* tab

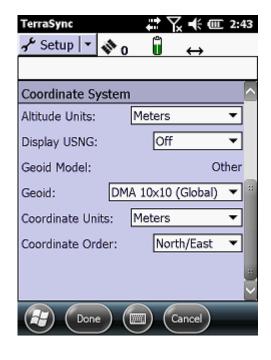






- i. Set the following information to match your GIS data:
 - 1. System
 - 2. Zone
 - 3. Datum
 - 4. Altitude Reference
 - 5. Geoid Model
 - 6. Units

TerraSync 🗱 🏹 🕂 🇰 1:44
$\checkmark^{\mathcal{F}}$ Setup $ \checkmark \bigotimes_{0} 0 \qquad \square \qquad \leftrightarrow$
Coordinate System
Select By: Coordinate System and Zone
System:
UTM 👻
Zone: 17 South
Datum:
WGS 1984 💌
Altitude Reference:
Mean Sea Level (MSL) 🔹
Done Cancel

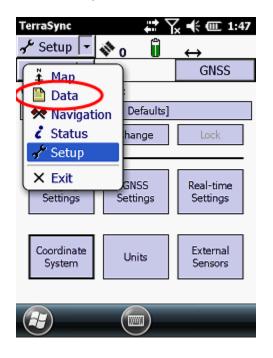


ii. Click on Done





- 4. Export the Data
 - a. Click on *Setup* and choose the *Data* Menu



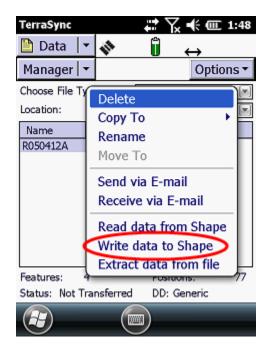
b. Click on the submenu "*New*" and choose *File Manager*



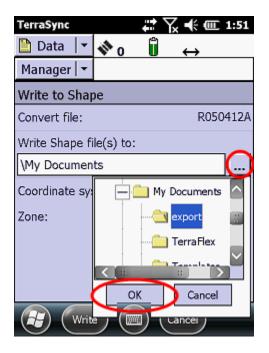




- c. Highlight the data file you wish to export
- d. Choose Options and select Write data to Shape



e. Browse to the location of the Folder you created in Step 1 and click on OK



- f. Verify your Coordinate System is set properly
- g. Click on Write





h. Select Close when the Shape conversion is complete



5. Transfer the data from the Geo7X to your computer





- 6. Define the Esri Shapefile projection. There are a couple of ways to accomplish this.
 - a. Define Projection in ArcCatalog
 - i. Browse to the shapefile
 - ii. *Right-click* on the shapefile and choose *Properties*
 - iii. Choose the XY Coordinate System Tab

Shapefile Properties	×
General XY Coordinate System Z Coordinate System Fields Indexes Feature Extent	
Type here to search 🔹 🍳 🔊 🛛 🚭 🛪 🔆	
 Favorites Geographic Coordinate Systems Projected Coordinate Systems 	
Current coordinate system: <unknown></unknown>	
~	
OK Cancel App	ply

- iv. Browse to the projection that was setup during Export
- v. Click *OK*
- vi. Repeat as necessary





- b. Define the Projection ArcToolbox
 - i. Navigate to *Data Management Tools, Projections and Transformations* and choose *Define projection*

ArcToolbox	
🕀 💱 Analysis Tools	
ArcPad Tools	
🗄 🚳 Cartography Tools	
Conversion Tools	
Data Interoperability Tools	
🕞 💱 Data Management Tools	
🕀 🌄 Archiving	
🕀 🍆 Attachments	
표 簐 Data Comparison	
표 🗞 Distributed Geodatabase	
🕀 🗞 Domains	
🕀 🗞 Feature Class	
🗄 🗞 Features	
🗄 🗞 Fields	
🗄 🗞 File Geodatabase	
🗄 🚳 General	
🗄 🗞 Generalization	
🗄 🗞 Geodatabase Administration	
🗄 🗞 Geometric Network	
🗄 🗞 Graph	
🗄 🗞 Indexes	
🕀 🚳 Joins	
🗄 🗞 LAS Dataset	
🕀 🦠 Package	
Photos	
Projections and Transformations	
H S Feature	
🕀 🗞 Raster	
Convert Coordinate Notation	
Create Custom Geographic Transformation	
Create Spatial Reference	
Define Projection	
Relationship Classer	





🔨 Define Projection		
Input Dataset or Feature Class		Coordinate System
C:\Users\eric_bock\Desktop\export\Point	t_ge.shp	
Coordinate System		The coordinate system to be
Unknown		applied to the input. The default value is set based on the Output
		Coordinate System environment
	Spatial Reference Properties	setting.
	XY Coordinate System Z Coordinate System	
	🍸 👻 Type here to search 🔹 🖉 🛞 🛛 🐨 🖈	
	Geographic Coordinate Systems	
	Geographic Coordinate Systems Geographic Coordinate Systems	
	Current coordinate system:	
	<unknown></unknown>	
	v	
	OK Cancel	
	*	-
	OK Cancel Environments << Hide Help	Tool Help
		1000 rep

ii. Under Input Dataset, browse to your Shapefile and click on Add

- iii. Under *Coordinate System*, browse to your coordinate system to match your TerraSync export settings.
- iv. Click **OK** and click **OK** again to start the Define Projection tool.

Please contact NEI support at 1-800-949-1446 or log a <u>support ticket online</u> for more information.