

# GeoXT/XH Data Extraction and Exportation

## 1. Connect GeoXT/XH Explorer to Computer

- Plug USB cable into 2<sup>nd</sup> USB port on front of scanning computer (under flap below power button) in the GIS Research Lab.
- The computer will automatically recognize (it might take a minute so please be Zen about waiting) the new device and GPS will beep.
- Partnership Set-up dialog box will open. Select **No**.
- Open Microsoft Active Sync.
  - a. The dialog box should say “Guest Connected.”



**If GPS is not recognized then follow these directions:**

- A. Takeout USB cable from computer and plug it back in.
- B. Logoff and Log back in.
- C. Takeout GeoXt/PC cable from base and plug it back in.
- D. Reboot computer

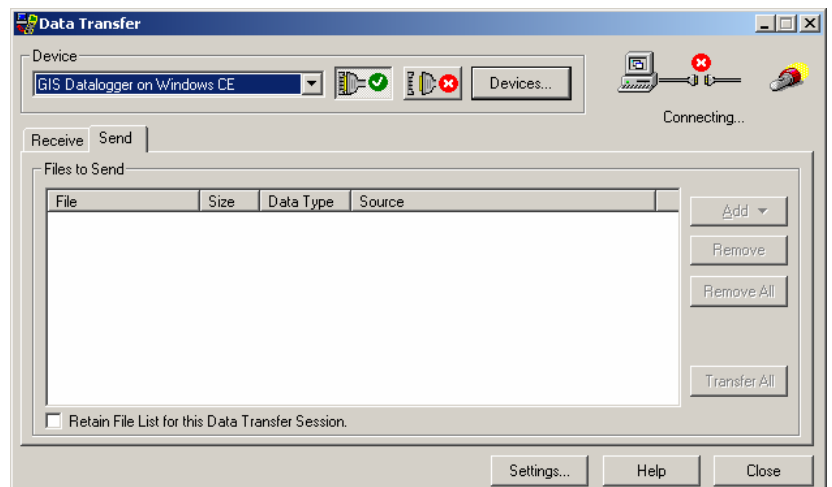
## 2. Downloading Data

- Open GPS Pathfinder Office 3.1
- In the **Select Project** dialog box, open an existing Project or create new project (e.g. Jane\_gps).
  - a. Make sure you create a project in C:\users\<<your name> or C:\users\<<your project name>
- Click **OK**
- Under “**Utilities**” select “**Data Transfer,**”
- Once connected under “**Add**” select “**Data File.**”



Choose the rover files you want to be transferred to the computer.

- Click “**Transfer All**”
- When files are finished → click **OK**



### 3. Differential Correction

- Under “**Utilities**” select “**Differential Correction.**”
- Click + **symbol** and select recently downloaded data (i.e. .ssf) from your folder
- Click **Next**
- Make sure **Processing Type** is **Automatic** then Click **Next**
- Under **Correct Settings** Click **Change....**
- Under **Code** TAB IF YOU ONLY COLLECTED POINT DATA make sure **Processing Technique** is **Standard**
  - a) IF YOU COLLECTED LINE OR POLYGON DATA with velocity filtering change **Processing Technique** to **With Velocity Filtering**
- Click **Next**
- Under the **Base Provider Search** Click **Select...**
  - a) Select the base station with the shortest distance and the highest Integrity Index (100 being highest)
    - 1. most commonly used is CORS, Pigeon Point CA as base station  
→ click **OK**
  - b) click **NEXT**
- Under **Output Folder** make sure **Use the project folder** is selected.
- Under **Output Filename** make sure **Create a unique filename** is selected.
- Click **Start**

### 4. Exporting Shapefiles

- Under “**Utilities**” select “**Export.**”
- The recently corrected rover files (.cor) should be highlighted.
  - IF NOT: open it and select the correct .cor file.
- Under “**Choose Export Setup,**” click drop down arrow and select the appropriate setup for your GPS file. Things to consider, when deciding on the appropriate setup:

- File format to export to
- Attributes to include in exported file
- Acceptable PDOP and correction status of your positions
- **USERS CAN AND MAY CHANGE THESE SETTINGS. MAKE SURE THE EXPORTED COORDINATE SYSTEM IS THE SAME AS YOUR GPS DATA WAS COLLECTED.**
- THE MOST COMMONLY USED:
  - New Arcview Shapefile. (1)
  - LAT/LONG, WGS 1984
- Click **OK**.
- Click **Close** in Export Completed window.
- Close GPS Pathfinder Office.

## 5. Change File Name

- Open **ArcCatalog**
- Navigate to the C:\users\<<your name>\export or in C:\users\<<your project name>\export directory
- Change the name of the file you just exported in Step #4. The filename will reflect the data dictionary you chose. For example you use the Generic data dictionary (most users) then the file will be point\_ge.shp, line\_ge.shp or area\_ge.shp (depending on whether you collected points, lines or areas).