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Upgrading To The Latest Version Of PATHANAL (Micropath 2001)

You might have to do all or some of the following steps:

Hasp Hardware Key

1. Download, unzip, and install **one** of the Hasp hardware key drivers.
www.micropath.com/downloads/software/aladdin/HDD_Install.zip (preferred)

Unzip and run the setup program.

2. USB Hasp keys should illuminate if the hardware key is recognized by the O/S.

PATHANAL (formerly Micropath 2001)

1. Download the latest version of PATHANAL – PATHANAL_PR.ZIP.
www.micropath.com/downloads/software/pathanal
Change folder to the “...Full_Install” folder. Download the file PATHANAL_PR.zip.
Note: A password may be required to unzip the file in order to upgrade to the latest version of PATHANAL. Contact support@micropath.com.
2. Using the password provided by Micropath, unzip PATHANAL_PR and run the Setup.exe or the PATHANAL.msi program.

READ FIRST BEFORE INSTALLING PATHANAL

1. If changes have been made to the Transmission Line Editor, **YOU MUST** backup the file **Translin.dat**. This file will be overwritten during the new installation of PATHANAL. Translin.dat is located in the folder where PATHANAL.exe resides. Usually this is C:\Program Files\Micropath\Pathanal.
2. You may have to enter your 5-digit Micropath Serial Number. This number begins with the number “1”. The security file associated with this number is called 1xxxx.dat and resides in the folder where PATHANAL.exe resides. (C:\Program Files\Micropath\Pathanal). Once you know your serial number, start PATHANAL and click on Options / Preferences / General. Enter the serial number in the Serial Number textbox. Your Micropath serial number is also printed on the PATHANAL installation CD-R.
3. Click the License Button on the PATHANAL start-up screen. The upper right-hand corner of this screen should say “Registration Not Required” in red letters.
4. Read the Readme.txt file for the latest information on updates / enhancements to PATHANAL. (C:\Program Files\Micropath\Pathanal\Readme.txt).

NED 1-Second Elevation Data

1. NED 1-Second Elevation Data can be download at:
www.micropath.com/downloads/data/ned
2. Zip files represent latitudes, i.e., 39.zip is 39N, 40.zip is 40N
3. Download all of the NED zip files or specific latitude files accordingly.
4. On your PC, make a folder called NED. Under the NED folder, make subfolders that represent the latitudes, i.e., 39, 40, 41, etc.
D:\NED\39
D:\NED\40
5. Unzip the latitude zip file(s) into the corresponding NED latitude folder(s).
6. In PATHANAL, click on Options / File Locations.
7. Click the X box for 1-Second Data and click browse to the NED folder on your PC. **DO NOT** browse to the latitude subfolders. Click OK.

LATITUDE / LONGITUDE COORDINATES FOR PATHANAL

1. Coordinates may be entered in any of the following formats:
Degrees or Degrees, Minutes or Degrees, Minutes, Seconds
Examples:
39.500000 Degrees - Deg
39 30.5000 Degrees Minutes - DM
39-30-00.00 Degrees Minutes Seconds - DMS

PATHANAL requires the degree portion of the longitude be entered using 3-digits.

Example: 000 to 099 degrees or 100 to 179

2. Converting Degrees Minutes to Degrees Minutes Seconds
Multiply the decimal of the Minutes by 60
Example 39° 30.5' - Multiplying 0.5 * 60 = 30 seconds
Coordinates in Degrees Minutes Seconds: 39-30-00.00

DATUMS

1. Coordinates are referenced to a Datum, i.e., NAD27, NAD83, GRS80, WGS84, etc. Datum's are referenced to an equatorial radius of the earth.

<u>DATUM</u>	<u>EQUATORIAL RADIUS</u>
NAD27	– 6,378,206.4 meters North American Datum - Clarke of 1866
NAD83	– 6,378,137.0 meters North American Datum
WGS84	– 6,378,137.0 meters World Geodetic System
GRS80	– 6,378,137.0 meters Geodetic Reference System
WGS72	– 6,378,135.0 meters World Geodetic System

Calculations for the distance and azimuth between two fixed points on the earth's surface may vary between datum. Factors such as equatorial radius, polar radius, and flattening contribute to these differences. NAD83 / WGS84 / GRS80 are equal to each other since the factors are similar for each of these datum. Distance and azimuth calculations between NAD27 and NAD83 datums produce slightly different results.