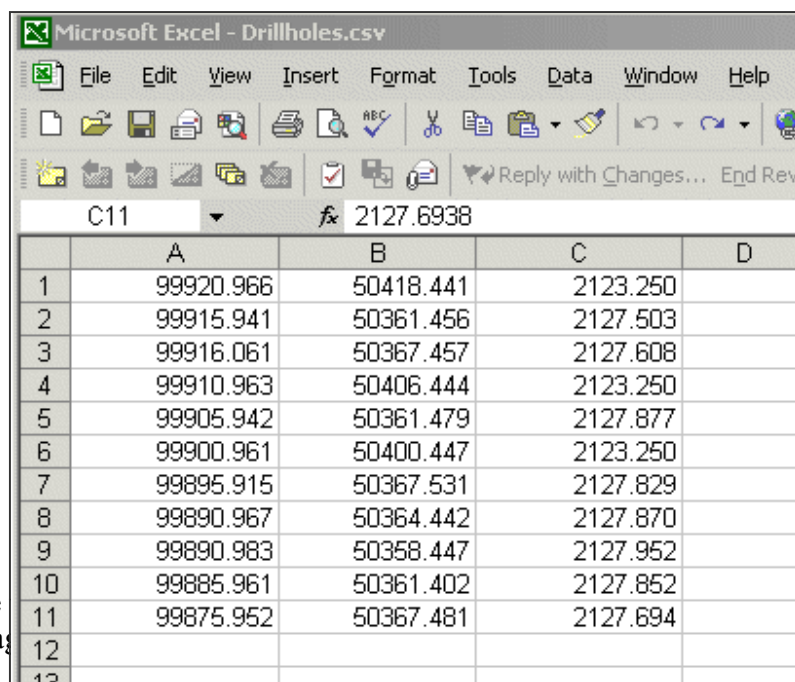


# Importing Data into Carlson SurvCE

(These notes cover data received in an Excel Spreadsheet)

1. Save the Excel attachment received by email to a suitable directory on your computer. Excel spreadsheets have a filename and extension of “filename.xls”.
2. Open Windows Explorer (Not internet explorer), this can be done from a icon on your computer screen or by pointing to the Start button and clicking the right button on the mouse. A small menu will be displayed select the Explore option and the Windows Explorer window will open.
3. Go the directory where you saved your email attachment file and open it in Excel this can be done by double clicking on the file. Note only Excel can read Excel files so you need to save the information you need in a format that other programs can read such as SurvCE.
4. Once your file is open in Excel Select - File – Save As, the Save As form will be displayed, in the File Name field type in a suitable filename or take the default and in the Save As Type field use the arrow at the right of the field know as a dropdown arrow to display the drop down list and select the CSV (Comma delimited) (\*.csv) option and click on the save button. CSV is a common ascii file type which stands for Comma separated values. A warning maybe displayed at this time just select yes to finish saving the file
5. You now have the data in CSV format but you only want the data you want to setout so highlight with the mouse what you don’t need and delete it using the delete key or by selecting delete from the EDIT menu. Make sure your data remains correctly aligned. And remember you can use EDIT Undo to undo the last delete if you get it wrong.
6. Your file should now look like this:



The screenshot shows the Microsoft Excel interface with the file 'Drillholes.csv' open. The formula bar shows the value '2127.6938' for cell C11. The spreadsheet contains the following data:

	A	B	C	D
1	99920.966	50418.441	2123.250	
2	99915.941	50361.456	2127.503	
3	99916.061	50367.457	2127.608	
4	99910.963	50406.444	2123.250	
5	99905.942	50361.479	2127.877	
6	99900.961	50400.447	2123.250	
7	99895.915	50367.531	2127.829	
8	99890.967	50364.442	2127.870	
9	99890.983	50358.447	2127.952	
10	99885.961	50361.402	2127.852	
11	99875.952	50367.481	2127.694	
12				
13				

7. Note file as on, save the

8. Go to the Windows Explorer window and highlight the file, click the right button on the mouse and select copy.
9. Make sure that the data controller is connected to the computer, turned on and an active sync connection made. Using Windows Explorer go to Mobile Device – CF Card – Data, highlight data and right click the mouse and select paste. (Note Mobile Device is your data recorder, CF Card is normally where the data is stored like the C drive on your computer and Data is the directory most clients store their data in, you can make other directory's under data if required.)
10. Start SurvCE on the data controller by double clicking on the SurvCE or Triton icons, select Continue last job then select Import/Export ASCII then Import ascii files, in the top right hand corner select the Select file button. In the Type field select the dropdown arrow and select CSV Files, select your file by touching the pointer on it then select OK, you will be returned to the Import ascii main form.
11. In the form you will see a sample of your data displayed, just above that is the option to Enter/Select Format. Select the dropdown arrow and select the format type that corresponds to your data. Note that P=point id Y=Northing X=Easting, Z=Elevation, D=Description and S is used to skip a field. For the data displayed above you would need Y,X,Z so the form would look like this:

The screenshot shows the 'Import Ascii' dialog box with the following fields and values:

- File Type: User Defined
- File Path: C:\Doc..opcon\_GPS\notes\Drillholes.csv
- Enter/Select Format: Y,X,Z
- Format Legend: P-Pt ID, Y-North, X-East, Z-Elv, D-Desc, S-Skip
- Data List:
 

99920.966,50418.441,2123.250
99915.941,50361.456,2127.503
99916.061,50367.457,2127.608
99910.963,50406.444,2123.250
- Header Lines: 0
- Add to Pt ID's: 0
- Pt's to Import: ALL
- Pt Protect:

12. Select Ok then you will be prompted for the Job name, you can use the same name as the CSV file or whatever is suitable. Select OK to save the file. A form will be displayed telling you how many points were imported, select ok and you will be returned to the main menu. Select Job then the file you just created then List Points, your points should be displayed. You are now ready to go setout your points in the field.

# Exporting Data from Carlson SurvCE

1. Connect the data controller to your computer, turn it on and make sure you have an Active Sync connection.
2. On the data controller make sure the file you want to export is the current file by select Job and selecting the file.
3. Select Import/Export Ascii the Export Ascii file, the Export Ascii form will be displayed. Select the format you want to export, normally the first one PT ID North East Elev Desc, change the Decimals in the bottom right corner to 3 and select OK.
4. Type in the name of the file you want to create the default is the name of the job file you are down loading. You can also use the Type box to select the file format you want to download, the most common are TXT or CSV, make your selection and select OK.
5. Start Windows Explorer as explained above and go to Mobile Device, CF Card Data and highlight the file you just created. Right click the mouse and select copy. Go to a suitable directory on your computer and select paste. You can now email this file as an attachment to head office.

## **TIPS**

1. Create a DATA directory on your computer where you keep all the file you need.
2. Use file names that you can identify at a later date.
3. Get head office to just sent a CSV file of the points to setout, that will cutout some of the steps above.

## **Upload DXF files to SurvCE**

The DXF Import in SurvCE does not support text so only line data will be taken across. If you are going to setout points where the descriptions do not matter then this option is fine. The other advantage is the you can use import ascii first (as above) for your points and descriptions then use this for lines. The DXF option does support colour so the colour of your line in the drawing file will match those imported into SurvCE.

1. Copy the .DXF file to your Data directory on your Data Controller which will show up under My Computer as MOBILE DEVICE, the directory structure on your controller will vary but the data directory will normally be under My C: DRIVE or CFcard. It is a good idea to make a range of directory's under DATA such as Control, Setout, EOM survey, Blast PU etc.

2. On SurvCE go into your job file then on the top right-hand corner of the screen select MAP, this will display the MAP screen.
3. Select FILE-DXF File- Import DXF, select the DXF file and select ok the file will be imported.
4. If you want to select points for setout from the dxf data that has been imported you need to convert polylines to points. In the MAP screen select COGO- Interpolate points- Polylines to Points, select the polylines on the screen you want to convert then select enter. The polylines will be converted to points and be selectable.

NOTE 1: Under VIEW – Layer you can set what data you want displayed on screen.

NOTE 2: The SurvCE programme that runs on your PC can be used to create the CRD files as described above which can then be copied onto your Controller.

NOTE 3: DXF Export can be used to export data from SurvCE but only the points and no descriptions are exported.

### **Upload Surpac DTM file to SurvCE TIN File Using DXF files**

DTM files can be used in SurvCE to check elevation differences using the option SURV- Elevation Difference and selecting Triangulation. This can be useful when checking elevations on roads etc.

1. Copy the 3D .DXF file to your Data directory on your Data Controller which will show up under My Computer as MOBILE DEVICE, the directory structure on your controller will vary but the data directory will normally be under My C: DRIVE or CFcard. It is a good idea to make a range of directory's under DATA such as Control, Setout, EOM survey, Blast PU etc.
2. On SurvCE go into your job file then on the top right-hand corner of the screen select MAP, this will display the MAP screen.
3. Select FILE-DTM Import – DTM from DXF, select the DXF file and select ok, the Import 3Dface from dxf form will be displayed. Select Draw 3D face entities and Select new DTM file, the default name will be the name of the file you are importing but with the extension of TIN, select OK then PROCESS.
4. If you want the line data as well use DXF Import function as described above. You can do this with the same DXF file as the lines are stored in this file as well as the triangle faces.

NOTE 1: Under VIEW – Layer you can set what data you want displayed on screen.

NOTE 2: The SurvCE program that runs on your PC can be used to create the CRD files as described above which can then be copied onto your Controller.