

# 11 Moving your Data To and From the Office

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Introduction This chapter will concentrate on the data flow functionality within SurvCE.

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Overview The data flow options are described in five parts:

11.1	Explorer – Drag and Drop Files
11.2	Import from ASCII File
11.3	Export to ASCII Files
11.4	Import DXF File to Map View
11.5	Export Map View Graphics to DXF File

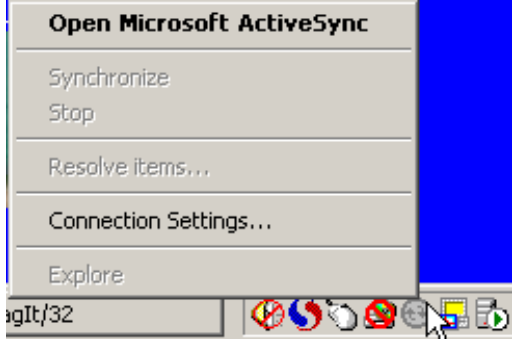
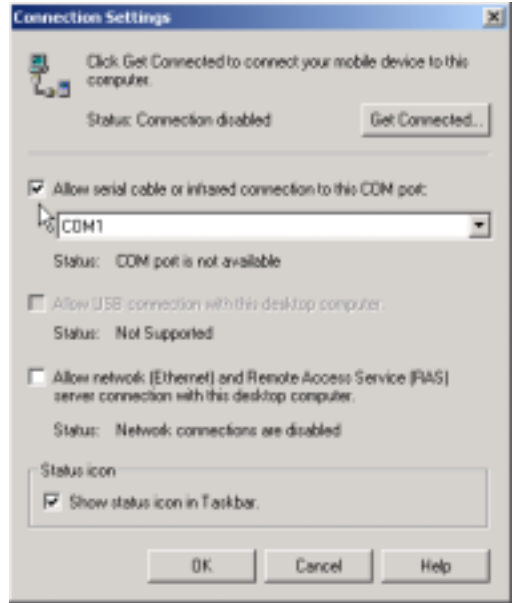
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## 11.1 Explorer - Drag & Drop Files

Configure  
ActiveSync  
Software

Microsoft ActiveSync must be active (on the computer) when connecting the data collector to the computer (via serial cable).

**Note:** You do not want this software to be active all the time since it takes control of your COM port, and will interfere with other device connections.



Step	Action	Display
1	<p>To configure ActiveSync on the computer:</p> <ul style="list-style-type: none"> <li>Press the ActiveSync ICON (right mouse button) in the tray (as shown).</li> </ul> <p>This brings up the context menu. Once in the context menu:</p> <ul style="list-style-type: none"> <li>Press the Connection Settings... button.</li> </ul> <p>This takes you to the "Connection Settings" dialog box.</p>	
2	<p>In the "Connection Settings" dialog box:</p> <p>To activate the ActiveSync software:</p> <ul style="list-style-type: none"> <li>Check the option to "Allow serial cable or infrared connection to this COM port".</li> <li>Press the <b>OK</b> button.</li> </ul> <p><b>Note:</b> ActiveSync will now actively monitor the COM port to detect when a device is connected.</p>	

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## 11.1 Explorer - Drag & Drop Files, Continued

### Connect to the Computer

ActiveSync will automatically detect that the data collector is connected to the computer's COM port.  
Once connected, the data collector will function as if it were another drive on the computer. Files may be copied between the computer and the mobile device (data collector) using Windows Explorer.

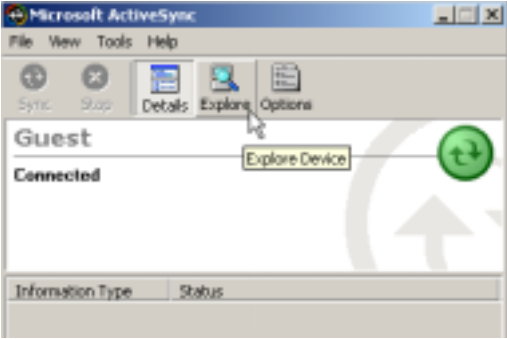

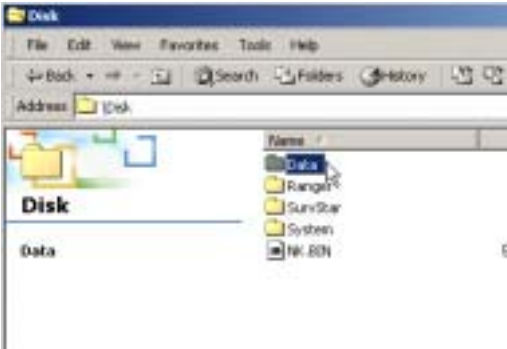
<p>1</p>	<p>To connect to the computer for data transfer:</p> <ul style="list-style-type: none"> <li>• Connect the data collector to the computer COM port using the serial transfer cable.</li> </ul> <p>ActiveSync software will monitor the COM port and automatically sense that the mobile device (data collector) has been connected to the port.</p> <p>After a few seconds, the "New Partnership" screen will appear.</p>	
<p>2</p>	<p>In the "New Partnership" screen:</p> <ul style="list-style-type: none"> <li>• Check the <b>NO</b> radio button because we don't want to synchronize files between the data collector and the computer.</li> <li>• Press the <b>Next</b> button.</li> </ul> <p>This takes you to the "Microsoft ActiveSync" screen.</p>	

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## 11.1 Explorer - Drag & Drop Files, Continued

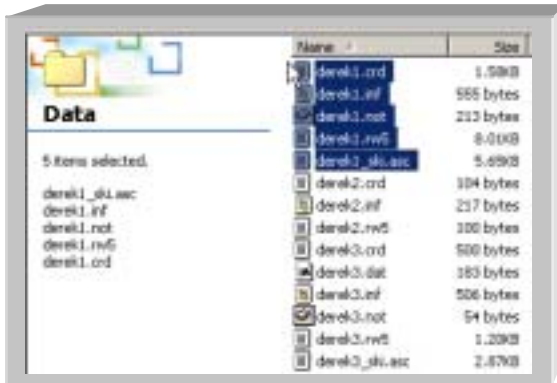
Locate and transfer data files

Use the Explore option (on the computer) to locate the data files you wish to transfer. You may transfer files in both directions. Copy and paste the files you wish to transfer. Functionality is the same as using Microsoft Explorer.

Step	Action	Display
1	<p>In the "Microsoft ActiveSync" screen:</p> <p>To access the Explorer view:</p> <ul style="list-style-type: none"> <li>Press the <b>Explore</b> button.</li> </ul> <p>This brings up the "Mobile Device" screen.</p>	 <p>The screenshot shows the Microsoft ActiveSync application window. The menu bar includes File, View, Tools, and Help. Below the menu bar are buttons for Sync, Stop, Details, Explore, and Options. The Explore button is highlighted with a mouse cursor. The main area shows 'Guest Connected' and an 'Explore Device' button. A green circular arrow icon is visible on the right side.</p>
2	<p>In the "Mobile Device" screen:</p> <ul style="list-style-type: none"> <li>Double Click on the "<b>My Computer</b>" folder, as shown.</li> </ul>	 <p>The screenshot shows the Mobile Device Explorer window. The address bar displays 'Mobile Device'. The main pane shows a folder tree with 'My Computer' selected. Other folders listed include 'Inbox' (21 bytes), 'Internet Explorer' (30 bytes), and 'SurvCE' (30 bytes).</p>
3	<p>In the Explorer view:</p> <ul style="list-style-type: none"> <li>Open the "<b>Data</b>" folder, as shown.</li> </ul>	 <p>The screenshot shows the Disk Explorer window. The address bar displays 'Disk'. The main pane shows a folder tree with 'Data' selected. Other folders listed include 'Range1', 'SurvStar', 'System', and 'NK-88N'.</p>

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## 11.1 Explorer - Drag & Drop Files, Continued


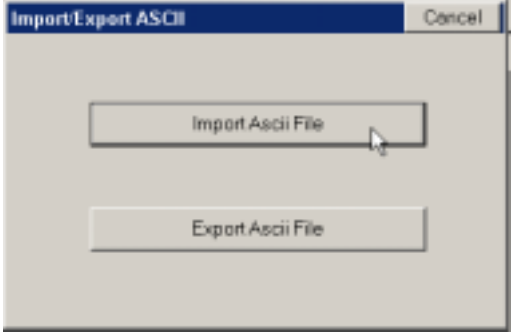
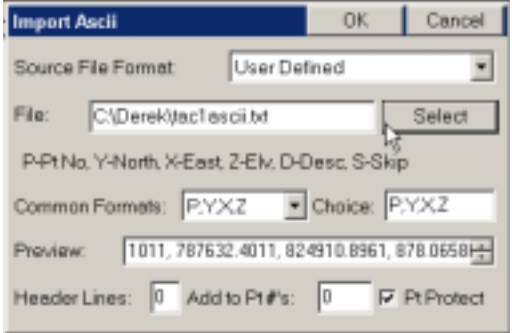
Step	Action	Display
4	<p>Once in the data directory:</p> <ul style="list-style-type: none"> <li>• Select the files you wish to transfer to the computer.</li> <li>• Copy and paste to the appropriate directory on the computer.</li> </ul> <p>Select all files for the same job:</p> <ul style="list-style-type: none"> <li>• Select all files with the same file name but with different extensions as shown.</li> </ul> <p><b>Note:</b> Files may be transferred from the computer to the data collector in the same fashion.</p>	

*End of Explorer – Drag & Drop Files*

## 11.2 Import from ASCII File

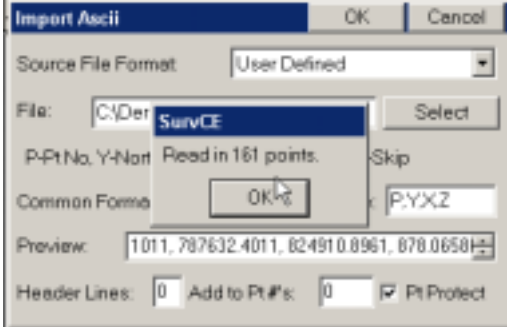
**Import Points** You may import grid coordinates and descriptors, from a number of common ASCII formats. Points are imported to the job coordinate (.CRD) file.

**Note:** The units setting on the data collector must match the units for the ASCII file.

Step	Action	Display
1	<p>In the main <b>File</b> menu:</p> <ul style="list-style-type: none"> <li>Verify that the current job is the intended destination for the imported coordinates.</li> <li>Press the Import/Export ASCII button.</li> </ul> <p><b>Note:</b> The unit in the ASCII file must match the units in the job settings.</p> <p>This takes you to the "Import/Export ASCII" screen.</p>	 <p>The screenshot shows a menu titled 'JOB:ImportJob' with a 'MAP' button in the top right. The menu items are: 1 Job, 2 Job Settings, 3 List Points, 4 Configure Reading, 5 Feature Code List, 6 Data Transfer, 7 Import/Export ASCII (highlighted), 8 Delete File, 9 Job Notes, and 0 Exit.</p>
2	<p>In the "Import/Export ASCII" screen:</p> <ul style="list-style-type: none"> <li>Press the Import Ascii File button.</li> </ul> <p>This takes you to the "Import Ascii" screen.</p>	 <p>The screenshot shows a dialog box titled 'Import/Export ASCII' with a 'Cancel' button in the top right. It contains two buttons: 'Import Ascii File' (highlighted) and 'Export Ascii File'.</p>
3	<p>In the "Import Ascii" screen:</p> <ul style="list-style-type: none"> <li>Select <b>User Defined</b> in the "Source File Format" field.</li> <li>Browse to find the import file in the "File" field.</li> <li>Select the "Common Formats".</li> <li>Specify the number of "Header Lines" in the file.</li> <li>Press the <b>OK</b> button.</li> </ul> <p><b>Note:</b> In this case the file format is comma separated. (Pt Id, North, East, Elev.)</p>	 <p>The screenshot shows a dialog box titled 'Import Ascii' with 'OK' and 'Cancel' buttons in the top right. It contains the following fields: 'Source File Format' (set to 'User Defined'), 'File' (set to 'C:\Derek\asc\ascii.txt' with a 'Select' button), 'Common Formats' (set to 'P:YXZ' with a 'Choice' dropdown), 'Preview' (showing '1011, 787632.4011, 824910.8961, 878.0658'), and 'Header Lines' (set to '0'). There are also checkboxes for 'Add to Pt #'s' (set to '0') and 'Pt Protect' (checked).</p>

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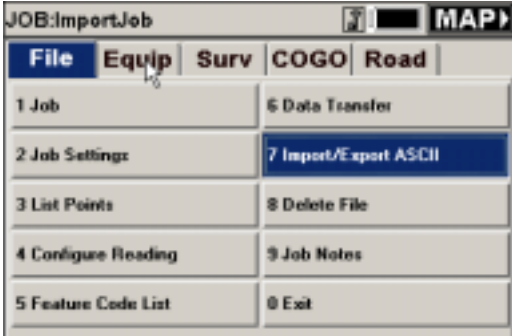
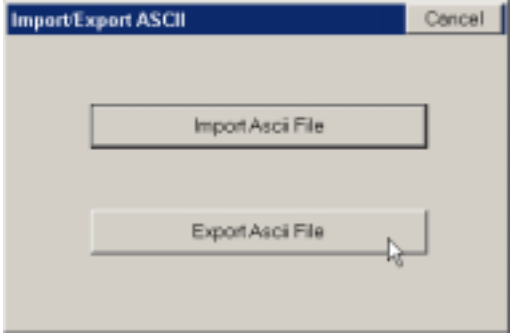
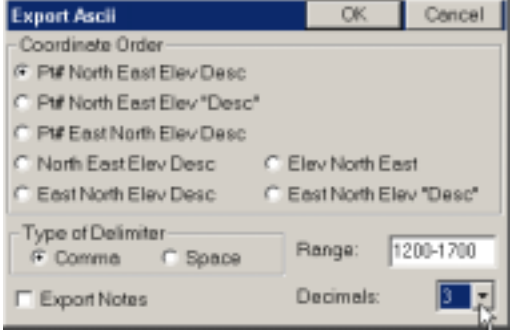
## 11.1 Explorer - Drag & Drop Files, Continued

Step	Action	Display
4	<p>The Software will report if the import operation was successful. In this case, 161 points are imported.</p> <ul style="list-style-type: none"> <li>Press the <b>OK</b> button to complete the import.</li> </ul> <p>This takes you back to the main SurvCE menu screen.</p>	

*End of 11.1 Explorer - Drag & Drop Files*

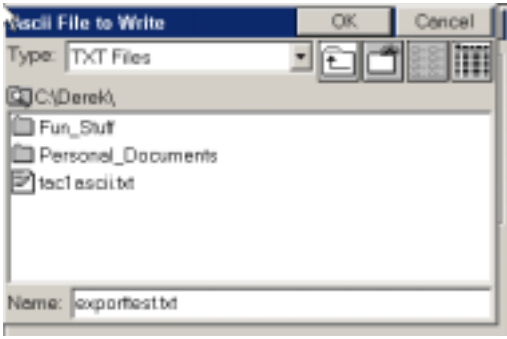
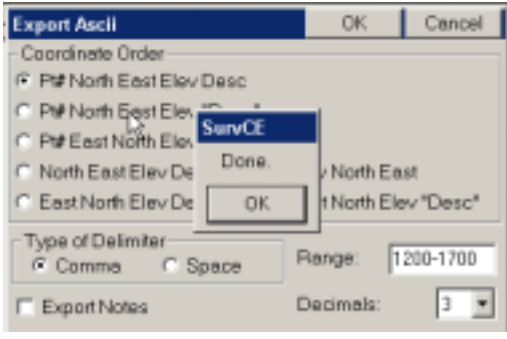
## 11.3 Export to ASCII File

**Export Points** You may export a file of grid coordinates and descriptors in a number of common ASCII formats.

Step	Action	Display
1	<p>In the main SurvCE menu:</p> <ul style="list-style-type: none"> <li>Press the <b>File</b> tab.</li> </ul> <p>To Verify that the current job is the intended job to export from:</p> <ul style="list-style-type: none"> <li>Press the <b>7 Import/Export ASCII</b> button.</li> </ul> <p>This takes you to the "Import/Export ASCII" screen.</p>	
2	<p>In the "Import/Export ASCII" screen:</p> <ul style="list-style-type: none"> <li>Press the <b>Export Ascii File</b> button.</li> </ul> <p>This takes you to the "Export ASCII" screen.</p>	
3	<p>In the "Export ASCII" screen:</p> <ul style="list-style-type: none"> <li>Select the <b>Coordinate Order</b> for the output format.</li> <li>Select the <b>Type of Delimiter</b>.</li> <li>Specify the Pt ID <b>Range</b> to export.</li> <li>Specify the number of decimal places in <b>Decimals</b> field for the coordinates.</li> <li>Press the <b>OK</b> button to complete the format entry.</li> </ul> <p><b>Note:</b> You may also export notes to the ASCII file.</p> <p>This takes you to the "ASCII File to Write" screen.</p>	

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## 11.3 Export to ASCII File, Continued

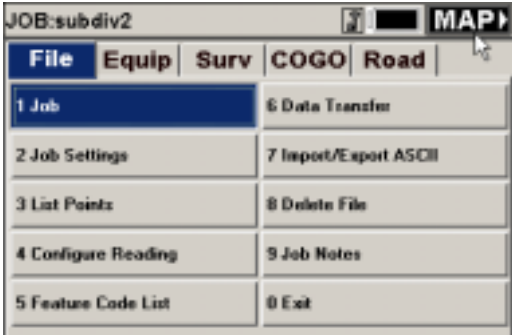

Step	Action	Display
4	<p>In the "ASCII File to Write" screen:</p> <ul style="list-style-type: none"> <li>Choose the <b>Type</b> of file to create.</li> <li>Choose the destination directory.</li> <li>Enter the output file name.</li> </ul> <p>• Press the <b>OK</b> button.</p> <p>This will return you to the "Export ASCII" screen.</p>	
5	<p>In the "Export ASCII" screen:</p> <p>The software will report if the operation is successful, a shown.</p> <p>• Press the <b>OK</b> button.</p>	

*End of 11.3 Export to ASCII File*

## 11.4 Import DXF File to Map View

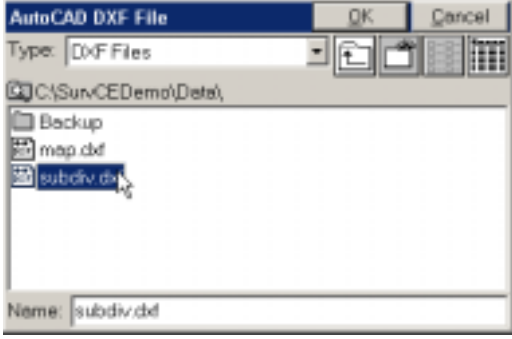

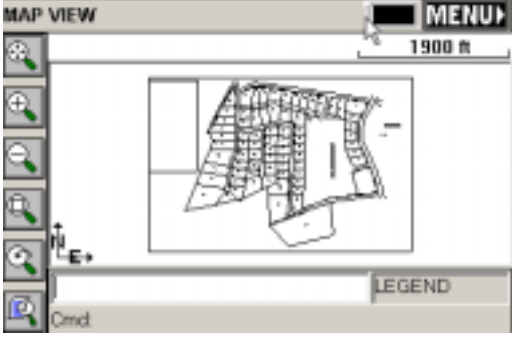
**Import Polylines** Polylines may be imported to the Map View from a DXF file using the Map Screen Command (IDX). If you select "Auto Save Map" in the Job Settings menu, the polylines will be saved to an associated map file when exiting the job.

**Note:** The DXF file must reside in the data directory on the data collector. Follow the instructions in the section on "ActiveSync - Drag and Drop Files" to copy the DXF file from the computer to the data collector.

Step	Action	Display
1	<p>In the main SurvCE main menu:</p> <ul style="list-style-type: none"> <li>Press the <b>File</b> tab.</li> <li>Press the <b>MAP</b> button located in the top right corner of the screen.</li> </ul> <p>This takes you to the "MAP VIEW" screen.</p>	
2	<p>In the "MAP VIEW" screen:</p> <ul style="list-style-type: none"> <li>Type "<b>IDX</b>" in the command line, as shown.</li> <li>Press the <b>Enter</b> key on the keyboard.</li> </ul> <p>This brings up the "AutoCAD DXF File" screen.</p>	

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## 11.4 Import DXF File to Map View, Continued

Step	Action	Display
3	<p>In the "AutoCAD DXF File" screen:</p> <ul style="list-style-type: none"> <li>• Check that the file <b>Type</b> = <i>DXF Files</i>.</li> <li>• Locate and select the DXF file to import.</li> <li>• Press the <b>OK</b> button.</li> </ul> <p>This takes you back to the "MAP VIEW" screen.</p>	
4	<p>In the "MAP VIEW" screen:</p> <p>The polylines associated with the DXF file will appear on the screen.</p> <ul style="list-style-type: none"> <li>• Press the zoom extents tab  located at the top left corner of the screen, to view the complete drawing.</li> </ul>	

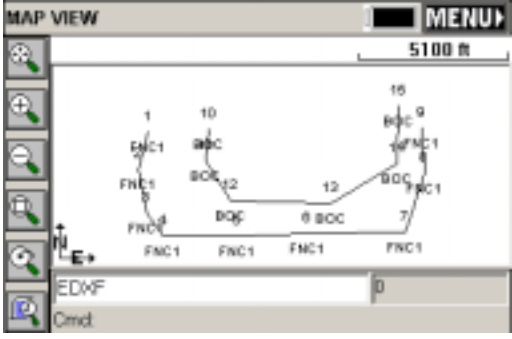
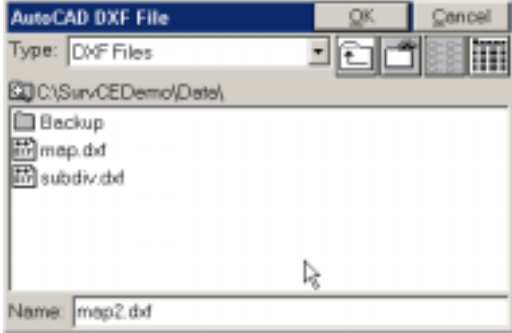
Polylines to Points for Stakeout

The polylines in the drawing can be used to create points for stakeout. See the section on "Map Commands" for further instructions.

*End of 11.4 Import DXF File to Map View*

## 11.5 Export Map View Graphics to DXF File

Export Field Sketch to DXF      You may export polylines to a DXF file using the Map Screen command (**EDXF**). This effectively allows you to create a “field sketch” in a DXF format. This command will capture 2D and 3D polylines “only”.

Step	Action	Display
1	<p>From the “MAP VIEW” screen:</p> <ul style="list-style-type: none"> <li>• Enter “<b>EDXF</b>” at the command line as shown.</li> <li>• Press the <b>Enter</b> button.</li> </ul> <p>This takes you to the “AutoCAD DXF File” screen.</p>	
2	<p>In the “AutoCAD DXF File” screen:</p> <ul style="list-style-type: none"> <li>• Check that the file <b>Type</b> = “<b>DXF Files</b>”</li> <li>• Enter the file name in the “Name:” field.</li> <li>• Press the <b>OK</b> button.</li> </ul> <p>This creates the DXF file and takes you back to the “MAP VIEW” screen.</p>	

*End of 11.5 Export Map View Graphics to DXF File*