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**TECHNICAL SUPPORT – PRODUCT WORKFLOW**

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**Downloading the SDR33 into ProLINK and exporting to AutoCAD (all versions) and Softdesk (including Land Development Desktop)****Downloading into ProLINK: steps to perform in ProLINK**

1. Download the DXF patch for ProLINK from the Sokkia website ([www.sokkia.com](http://www.sokkia.com)). The patch can be found by clicking on **United States and Canada**, then click on **Support Services**, then click on **Patches** which is located under Software which in turn is located under Technical Support. Included in this patch are instructions for installing the patch. The Patch file that you download is a ZIP file and will need to be unzipped. If you do not have a ZIP program you can download WinZip from their website located at ([www.winzip.com](http://www.winzip.com)).
2. Install the Patch per the instructions.
3. Start ProLINK by either double clicking the **ProLINK icon** on your Desktop or by clicking **Start**, then click on **Programs**, then click on **Sokkia**, Then click on **ProLINK Version** (whatever version is installed).
4. After ProLINK has been started click on **File**, then click on **New Project**. In the New Project dialog box, locate the place on your hard drive to save the Project File which can be done in the area that is labeled **Save in:**. Next, locate the area labeled **File name:** and highlight the text box that has the project name and type in the name of your project, then click on **Save**.
5. After you have created a New Project you should see a Field Book. If you do not see a Field Book click on **View**, then click on **Field Book Editor**.
6. Now you are ready to set up ProLINK to receive your SDR file from the SDR33. Click on **File**, then click on **Receive**. In the Receive dialog box, under Destination, click the option for **Save and import to current field book**. Click on **Device**, then click on **SDR33/31 (SDR Format)**, then click **Settings**, then click the following settings: **Com Port** – the Com Port you are using on your computer (usually Com 1), **Baud Rate** – 38400, **Parity** – None, **Data Bits** – 8, **Stop Bit** – 1. Then click **OK** to accept settings, then click **OK** to accept device. Next, where it says Import Conversion select **SDR Files (\*.SDR)**, then click **OK**. In the text field labeled File Name type **yourfilename.sdr** or put a check in the check box next to **Use Job Name**, then under Directories select the directory where you want to save the SDR file, then click **OK**. ProLINK will now display “**Waiting to receive**”.
7. After the steps for the SDR33 are done, the screen will display **Transfer complete**, press **OK**. All of your downloaded points are now visible in the Field Book.

**Downloading into ProLINK: steps to perform in the SDR33**

1. Connect the download cable to the correct Com Port on your computer and also connect the 6 pin Hirose cable to the instrument cable (connected to the SDR33).
2. Press **F1 (FUNC)**, then **arrow down** or push **C twice** so that Communications is highlighted then press **OK**.
3. Under Data Format arrow to the right to select **SDR**. Press **F1 (OPTNS)**, then select the view or views you want to download by highlighting yes or no and pressing the right arrow button to select (Yes) or deselect (No) the different views. **POS view** is recommended for CAD use. When desired choices are selected press **OK**.

4. Press **F2 (COM)**, then set the following settings (to change settings highlight the setting to change, then press the **right arrow key** to toggle through the options that are available): **Port** – Top, **Modem** – No, **Baud rate** – 38400, **Word length** – 8, **Parity** – Not set, **Stop bit** – 1, **Output delay** – 0, **File** – No, then press **OK**.
5. Press **F4 (SEND)**, then highlight Select jobs, then press **OK**. Next to each job that you want to select for download, highlight the job then press the right arrow key to toggle each job to Yes (selected), then press **ok** and the job(s) will begin downloading. A screen will appear that reads Complete...Press any key..., **press any key** and the download is complete. Note, if you select more than one job, all of the selected jobs will download into one Field Book (ProLINK). It is recommended to download one job per Field Book (ProLINK), unless the jobs that are selected in the SDR33 are different parts of a large job (in the field).

### **Exporting from ProLINK for AutoCAD: steps to perform in ProLINK**

1. Now that the download is complete and all of the points are visible in the Field Book, click **File**, then click **Export**. The Export dialog box appears, notice under Source that **Current Field Book** is already selected. You cannot use the Reduced Coordinates unless you have the full version of ProLINK, which can be purchased from Sokkia or a Sokkia Dealer. Next, under Export Conversion choose the option for **DXF Export fbk w/annotations (\*.DXF)**, then click **OK**.
2. In the **Save Export File As** dialog box, in the **Save in:** field, choose the place on your hard drive to store the DXF file. Remember where you saved the file because you will need to locate it when you DXFIN the file into AutoCAD. Type a file name for your DXF file in the **File name:** text field, your Save as type: should be **DXF Export fbk w/annotations (\*.DXF)**, then click **Save**. The DXF export is now complete.

### **Exporting from ProLINK for Softdesk and Land Development Desktop (LDD): steps to perform in ProLINK**

#### **Option 1:**

1. Now that the download is complete and all of the points are visible in the Field Book, click **File**, then click **Export**. The Export dialog box appears, notice under Source that **Current Field Book** is already selected. You cannot use the Reduced Coordinates unless you have the full version of ProLINK, which can be purchased from Sokkia or a Sokkia Dealer. Next, under Export Conversion choose the option for **Pt,N,E,Z,Cd Field Book Export (\*.txt)**, then click **OK**.
2. In the **Save Export File As** dialog box, in the **Save in:** field, choose the place on your hard drive to store the TXT file. Remember where you saved the file because you will need to locate it when you import the point file into Softdesk or LDD. Type a file name for your TXT file in the **File name:** text field, your Save as type: should be **Pt,N,E,Z,Cd Field Book Export (\*.txt)**, then click **Save**. The txt Field Book Export is now complete.

#### **Option 2:**

1. Now that the download is complete and all of the points are visible in the Field Book, click **File**, then click **Export**. The Export dialog box appears, notice under Source that **Current Field Book** is already selected. You cannot use the Reduced Coordinates unless you have the full version of ProLINK, which can be purchased from Sokkia or a Sokkia Dealer. Next, under Export Conversion choose the option for **Softdesk Field Book Export (\*.txt)**, then click **OK**.
2. In the **Save Export File As** dialog box, in the **Save in:** field, choose the place on your hard drive to store the FBK file. Remember where you saved the file because you will need to locate it when you import the Field Book file into Softdesk or LDD. Type a file name for your FBK file in the **File name:** text field, your Save as type: should be **Softdesk Field Book Export (\*.txt)**, then click **Save**. The Softdesk Field Book Export is now complete.

### **Importing a DXF file into AutoCAD: steps to perform in AutoCAD**

1. Double Click on the **AutoCAD icon** on your Desktop or open AutoCAD by clicking **Start**, then click **Programs**, then click on your **AutoCAD folder**, then click on the **AutoCAD program file**.

2. If when AutoCAD starts up, a start up dialog box appears, click **cancel**. Next type **DXFIN**, then locate the DXF file that was previously saved to your hard drive, to change to a different folder you can click the down arrow to the right of the text box which is labeled **Look in:**. After you have located the DXF file you can double click the **file (\*.dxf)** or click the **file (\*.dxf)**, then click **Open**. The DXF file is now in AutoCAD, type **Z**, then press the **Enter** key, then type **E**, then press the **Enter** key. All of your points are zoomed to the extents of the display. Next, type **PDMODE**, then type **2**, this selects the point node to be a + symbol. Next, type **PDSIZE**, then type **0.05**, this selects the size of the + symbol to be relative to the text size (height of 1).

## Importing a Points file (\*.txt) and a Field Book file (\*.fbk) into Softdesk and Land Development Desktop (LDD): steps to perform in Softdesk and LDD

### Option 1 (\*.txt)

1. Double click on the **Softdesk icon or the LDD icon** or open the program by locating it by clicking **Start**, then click **Programs**, then click the **Softdesk or LDD folder**, then click the **Softdesk or LDD program file**.
2. Start a New drawing, if a Start Up dialog box appears click **Start from Scratch**, then click **OK** in the Create New Drawing dialog box. If no Start Up dialog box appears then click **File**, then click **New**, then click **OK** in the Create New Drawing dialog box. Next click **File**, then click **Save As**, then locate the place on your hard drive where you want to store the drawing file, then in the text field labeled **File name:** type a name for the drawing, then click **Save**.
3. Next, change the module to the survey module by typing **SD**, then select from an existing project or create a new one, then click **OK**, then select from the list of programs the **Survey** module (double click or click it, then click **OK**).
4. Next, from the pull down menu click **Points**, then click **Import/Export Points**, then click **Edit Format**. Next, select from the list labeled Format name click the **drop down arrow**, then click **PNEZD**, then click on the selection for **Comma** (located under Delimiter), then click **OK**.
5. Next, from the pull down menu click **Points**, then click **Import/Export Points**, then click **Import Points From File**. In the Import Points dialog box you should see the previous settings from step 4 above, also click the select for **COGO Point Database** under Destination, then click **OK**. Locate the TXT file that was previously saved to your hard drive, to change to a different folder you can click the **drop down arrow** to the right of the text box which is labeled **Look in:**, then double click the **file (\*.txt)** or click on the **file to highlight it**, then click **OK**. Next, on the command line for **Import Method** type **O** for Overwrite, then press the **Enter** key, then **Echo status to screen** should default to No, if it does not default to no, type **N**, then press the **Enter** key.
6. The TXT file is now in Softdesk or LDD, type **Z**, then press the **Enter** key, then type **E**, then press the **Enter** key. All of your points are zoomed to the extents of the display. Next, type **PDMODE**, then type **2**, this selects the point node to be a + symbol. Next, type **PDSIZE**, then type **0.05**, this selects the size of the + symbol to be relative to the text size (height of 1).

### Option 2 (\*.fbk)

1. Double click on the **Softdesk icon or the LDD icon** or open the program by locating it by clicking **Start**, then click **Programs**, then click the **Softdesk or LDD folder**, then click the **Softdesk or LDD program file**.
2. Start a New drawing, if a Start Up dialog box appears click **Start from Scratch**, then click **OK** in the Create New Drawing dialog box. If no Start Up dialog box appears then click **File**, then click **New**, then click **OK** in the Create New Drawing dialog box. Next click **File**, then click **Save As**, then locate the place on your hard drive where you want to store the drawing file, then in the text field labeled **File name:** type a name for the drawing, then click **Save**.
3. Next, change the module to the survey module by typing **SD**, then select from an existing project or create a new one, then click **OK**, then select from the list of programs the **Survey** module (double click or click it, then click **OK**).
4. Next, from the pull down menu click **Collect**, then click **Import Field Book**, then click **Edit Format**. Locate the FBK file that was previously saved to your hard drive, to change to a different folder you can click the **drop down arrow** to the right of the text box which is labeled **Look in:**, then double click the **file (\*.fbk)** or click on the **file to highlight it**, then click **OK**. Next, on the command line for **Erase all COGO points in Database**, the default is N but if you setup a new project or are not worried about the database, type **Y**, then press the **Enter** key, then **Erase all existing observations** should default to No, You should have a new drawing so type

Y, then press the **Enter** key, **Erase all figures** should default to N, You should have a new drawing so type Y, then press the **Enter** key.

5. The FBK file is now in Softdesk or LDD, type Z, then press the **Enter** key, then type E, then press the **Enter** key. All of your points are zoomed to the extents of the display. Next, type **PDMODE**, then type **2**, this selects the point node to be a + symbol. Next, type **PDSIZE**, then type **0.05**, this selects the size of the + symbol to be relative to the text size (height of 1). Line work can be brought in with this option through description keys, figures, and symbols but these options have to be configured in Softdesk or LDD.

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