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Eagle Point Solution to a Frequently Asked Question

How to Download or Upload from Trimble Survey Controller v10.70

Summary:

This document explains the process of downloading or uploading survey data files from and to a Trimble Survey Controller v10.70. All testing was done with a Trimble ACU controller but it would also apply to Trimble TSCe units running Survey Controller v10.70.

Product: Eagle Point Software™ 2001

Release: 2001 Q4 or 1.4.0 and greater

Platform: All

Related documents: Trimble Survey Controller – Getting Started Guide; corresponding version Trimble Survey Controller Release Notes.

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Downloading from the Trimble Survey Controller v10.70 (ACU / TSCe)

Note: You will need to use the 9-pin to 26-pin adapter (Trimble Part No. RGR-A26TO09PIN) and a standard serial interface PC cable (9-pin female to 9-pin female, SMi Part No. CBL-9PN-9PN).

Collector

To prepare the controller to download survey data, perform the following steps:

1. **Power source:**
 - a. ACU controller: You might need to connect the controller to an external power source via COM 1 (Trimble AC/DC adapter 571 906 344).
 - b. TSCe controller: You can be running from internal battery or external power source.
2. **Cable connections:**
 - a. ACU controller: Connect the 9-pin to 26-pin adapter to the COM 2 in the unit. Connect the serial interface cable (9-pin female to 9-pin female) to the adapter and to the corresponding COM port in the computer. For this document we will assume COM 1 in the computer is being used.
 - b. TSCe controller: Connect the serial interface cable (9-pin to 9-pin) to the controllers COM1 port and to the corresponding COM port in the computer. For this document we will assume COM1 in the computer is being used.
3. In the Survey Controller main menu tap on the *Files* icon.
4. Select *Open job*.
5. Select the job you want to export from the list. As soon as it is selected, you will return to the main menu.
6. Tap on the *Files* icon.
7. Select *Import / Export*.
8. Select *Send ASCII data* and click *Enter*.
9. Verify the communication settings:

File format:	TDS
Port details	
Controller port:	COM2 ¹
Baud Rate:	38400 ²
Parity:	None
Flow control:	Xon/Xoff
Job name:	<job name> ³
Point name:	Unchanged ⁴

¹ Select the port according to your cable connections.

² A baud rate of 38400 will allow you to transfer the data quicker though you can use a slower rate.

³ You will need to key in a name.

⁴ You can also use *Auto-generate* in case that you want to renumber the points.

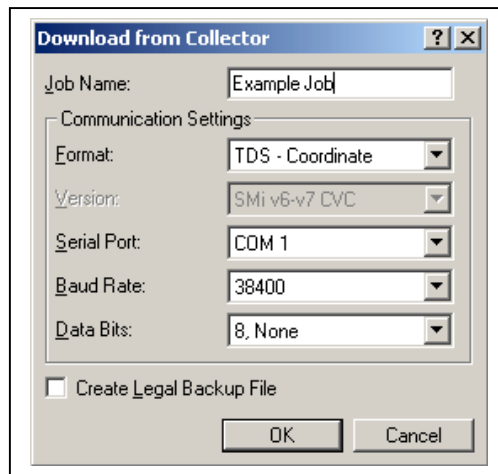
Point code:

Use point code⁵

10. Tap on *Send* (F1).
11. Select the points in the file that you wish to send from the *Select points* menu. For example, select *All points* to download all the points in the selected file.

Desktop

12. Open a project in **Eagle Point**.
13. In the main menu, *Products* → select *Data Collection*.
14. In *Data Collection*, under the *Jobs* menu → select *Download from Collector*.
15. Type in a *Job Name*, select TDS – Coordinate for coordinate data or TDS – Raw for angles and distances.⁶ Select the serial port according to your connections. Make sure the baud rate and parity are set to the same values as the controller. (See figure below)



16. Click *Ok* in the dialog box. *Data Collection* is now ready to receive data.
17. In the **ACU/TSCe** controller, tap on *OK* in the *Ready to send* dialog box to transmit the data to the computer.
18. Once the file is transferred, tap on *OK* on the *Transfer complete* dialog to return to the main menu in the controller.

You may now edit and reduce the file using the commands in *Data Collection* under the *Jobs* menu with the respective names. Refer to *Edit Instrument File* and *Reduce Job* for more information.

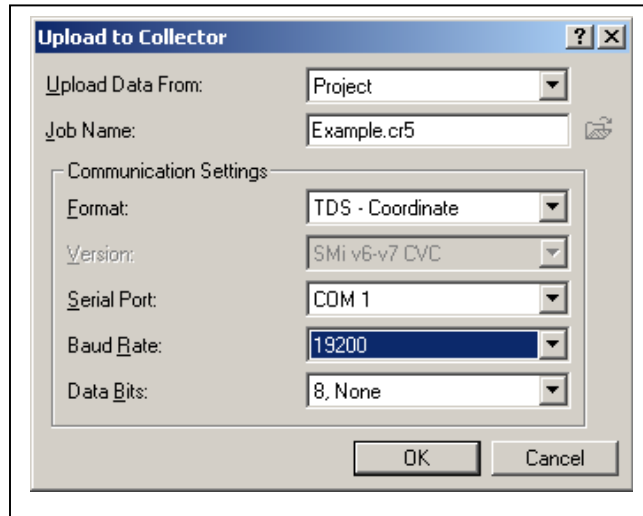
Uploading to a Trimble Survey Controller v10.70 (ACU / TSCe)

Desktop

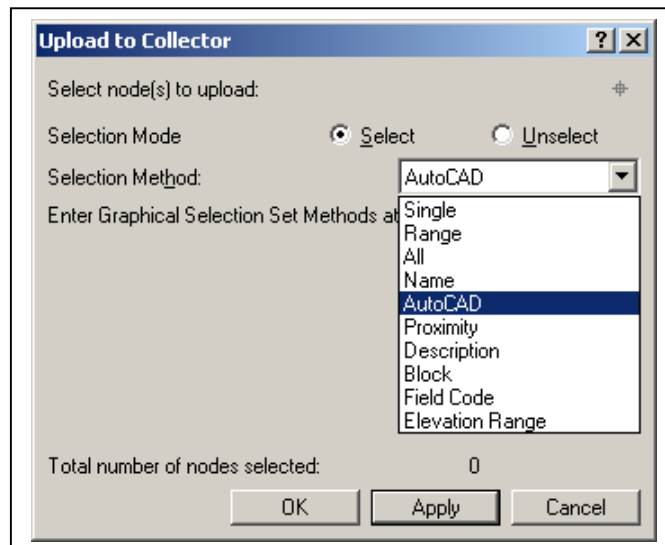
1. Open a project in **Eagle Point**.
2. In the main menu, *Products* → select *Data Collection*.
3. In *Data Collection*, under the *Jobs* menu → select *Upload to Collector*.
4. You can upload data from an existing file or directly from the *Eagle Point* project. If you select *Project*, you will need to type in a file name with an extension of CR5. (See figure below)
5. Verify the *Communication Settings*, use a *TDS – Coordinate format*. Set the serial port according to the cable connections. Set the *Baud Rate* to 19200 and *Parity* to 8,none. (See figure below)

⁵ You can also select *Use point name*.

⁶ If you have geodetic coordinates, you will need to use Trimble software to download the file and convert it to coordinate grid system.



6. Click *Ok* in the dialog box. If you selected *Project* you will now be prompted to select the nodes, you can use any of the selection modes. (See figure below) If you selected *File*, you will be prompted to select the file with the node information to upload.



You will now prepare the controller.

Collector

To prepare the controller to download survey data, perform the following steps:

7. *Power source:*
 - a. ACU controller: You might need to connect the controller to an external power source via COM 1 (Trimble AC/DC adapter 571 906 344).
 - b. TSCe controller: You can be running from internal battery or external power source.
8. *Cable connections:*
 - a. ACU controller: Connect the 9-pin to 26-pin adapter to the COM 2 in the unit. Connect the serial interface cable (9-pin female to 9-pin female) to the adapter and to the corresponding COM port in the computer. For this document we will assume COM 1 in the computer is being used.

- b. TSCe controller: Connect the serial interface cable (9-pin to 9-pin) to the controllers COM1 port and to the corresponding COM port in the computer. For this document we will assume COM1 in the computer is being used.
9. From the Survey Controller main menu, tap on *Files*.
10. Select *New Job*, key in a *Job name* and set the *Properties*.
11. From the Survey Controller main menu, tap on *Files*
12. Select *Import/Export*.
13. Select *Receive ASCII data*.
14. Verify the communication settings:

File format:	TDS ⁷
Port details	
Controller port:	COM2 ⁸
Baud Rate:	19200
Parity:	None
Point name:	Unchanged
Point code:	Use point code ⁹

15. Tap on *Receive*.

Desktop

16. Click *OK* in the *Data Collection* dialog box to transmit the data.
17. You will see Transfer Complete and Processing Data messages in the controller. Then, you will be returned to the Survey Controller main menu.

⁷ Sokkia SDR33 can also be used.

⁸ Select the port according to your cable connections.

⁹ You can also select *Use point name*.