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## Eagle Point Solution to a Frequently Asked Question

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### How to download and upload to a Trimble or TDS Ranger data collector

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#### Summary:

This document explains the process of exchanging data between a Trimble or TDS Ranger and Eagle Point with Data Collection.

**Product:** Data Collection

**Release:** 98 and later

**Platform:** All

**Related documents:** Appendix D: Collectors and Formats in the Data Collection documentation

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**Note:** *The steps referred to on the Ranger are version dependent. Therefore, newer versions of Trimble or TDS software running on the Ranger may have different steps.*

#### OVERVIEW

To transfer data to and from the Ranger data collector, you need to set the "Connecting to:" parameter on the data collector to "HP48". The remainder of the steps is outlined below.

#### HOW

##### Downloading from the collector

Perform the following steps on the Ranger:

1. Select **(9) Transfer** from the main menu on the Ranger.

Number 1 – File (1-F)  
Transfer

2. Select **(B) Send File**.
3. Verify the communication settings:

Connecting to: <b>HP48</b>	
COM Port	<b>(Ranger) Com 1</b>
Baud Rate	<b>9600</b>
Parity	<b>None</b>

Perform the following steps in Data Collection:

4. Open a project in Eagle Point
5. Select **Products → Data Collection → Jobs → Download from Collector**.
6. Type the name of the Job that is being downloaded.
7. Under Communication Settings, select the **TDS-48** format from the drop list of supported formats.
8. Select the COM port that is being used on the computer.
9. Set the baud rate to **9600** and set the data bits to **8, none**.
10. Make a check in the Create Legal backup checkbox to automatically create a backup file on download.

11. Click on OK. This displays a Kermit protocol screen. If it doesn't, press the Enter key.

Perform the final step on the Ranger:

12. Press the OK button.
13. Select the type of job from the Type drop list. Choose either **Coordinate (\*.cr5)** to send a coordinate file or **Raw Files (\*.raw)** to send a raw data file.
14. Select a job from the list of jobs that now display on the Ranger.
15. Press the OK button to transfer the job file.

The Kermit screen should show packets of information being transferred from the Ranger as it is being downloaded. To process the downloaded job information, select Jobs → Reduce.

### **Uploading to the Collector**

Eagle Point currently utilizes the Kermit program to handle the file transfer from the computer to the Ranger data collector. To upload information to Ranger, follow the steps outlined below.

Create an ASCII file that can be uploaded.

1. Open a project in Eagle Point
2. Select **Products → Data Collection → Jobs → Export Nodes**.
3. Type a path and file name or click on the Select File to Export button to select/create a file to export. TDS requires that all files to be uploaded require a \*.CR5 extension. The name of the file must not be longer than eight characters.
4. Select/create a file with this extension (i.e. Stakeout.CR5).
5. Click on OK. The Export Nodes dialog box now requests that the desired Nodes to be exported are selected.
6. Choose a selection method from the drop list of selection methods and select the Nodes.

Perform the following steps in Data Collection.

7. Select **Data Collection → Jobs → Upload to Collector**.
8. Select the File option to upload the information.
9. Type the path and file name of the file to upload, or click on Open and select the file.
10. Under Communication Settings, select the **TDS-48** from the drop list of supported formats.
11. Select the COM port that is being used on the computer.
12. Set the baud rate to **9600** and set the data bits to **8, none**.
13. Click on OK on the Upload to Collector dialog box. This displays the Kermit program.

Perform the following steps in the Kermit program:

14. From the KERMIT prompt, type STATUS to verify the communication settings. Verify that the parameters match those on the data collector, specifically the baud rate, communications port and the parity.
15. To change the settings, type SET on the command line. For example, to change the settings to baud=9600, COM2, no parity, type:

**SET PORT 2 <ENTER>**

**SET BAUD 9600 <ENTER>**

**SET PARITY NONE <ENTER>**

Perform the following steps on the Ranger:

16. Select **(9) Transfer** from the main menu on the Ranger.
17. Select **(C) Receive File**.
18. Verify the communication settings:

```
Connecting to: HP48
COM Port      (Ranger) Com 1
Baud Rate     9600
Parity        None
```

19. Press the OK button.

Perform the final step in the Kermit program:

20. Upload the file by typing:

```
SEND C:\DATAPATH\UPLOAD.CR5 <ENTER>
```

To halt the upload process from the KERMIT prompt, type EXIT. This puts you back into the Eagle Point environment.

Perform the following steps on the Ranger:

21. Select **(9) Transfer** from the main menu on the Ranger.
22. Select **(C) Receive File**.
23. Verify the communication settings:

Connecting to:	<b>HP48</b>	
COM Port		(Ranger) <b>Com 1</b>
Baud Rate	<b>9600</b>	
Parity	<b>None</b>	

24. Press the OK button.

Perform the final step in the Kermit program:

25. Upload the file by typing:

***SEND C:\DATAPATH\UPLOAD.CR5 <ENTER>***

To halt the upload process from the KERMIT prompt, type EXIT. This puts you back into the Eagle Point environment.