

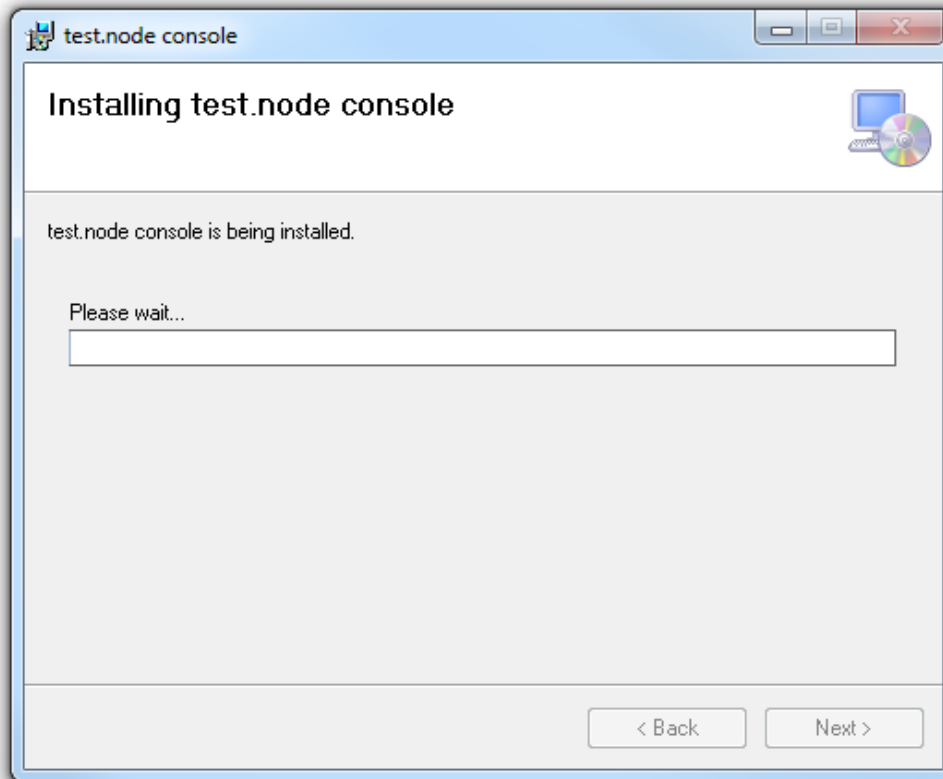


Quick Start Guide: How to configure test.node to Acquire Data from a Gantner DAQ System

Purpose: This guide will review how to setup test.node in order to save data from a Gantner controller to an attached PC.

Procedure:

1. Install the software onto the PC.

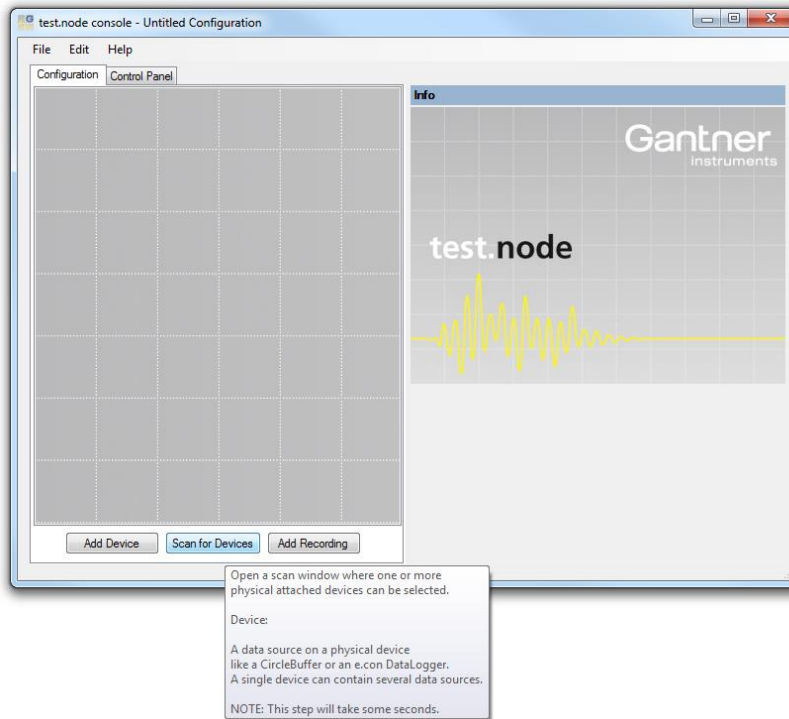


2. Click on the test.node console icon.

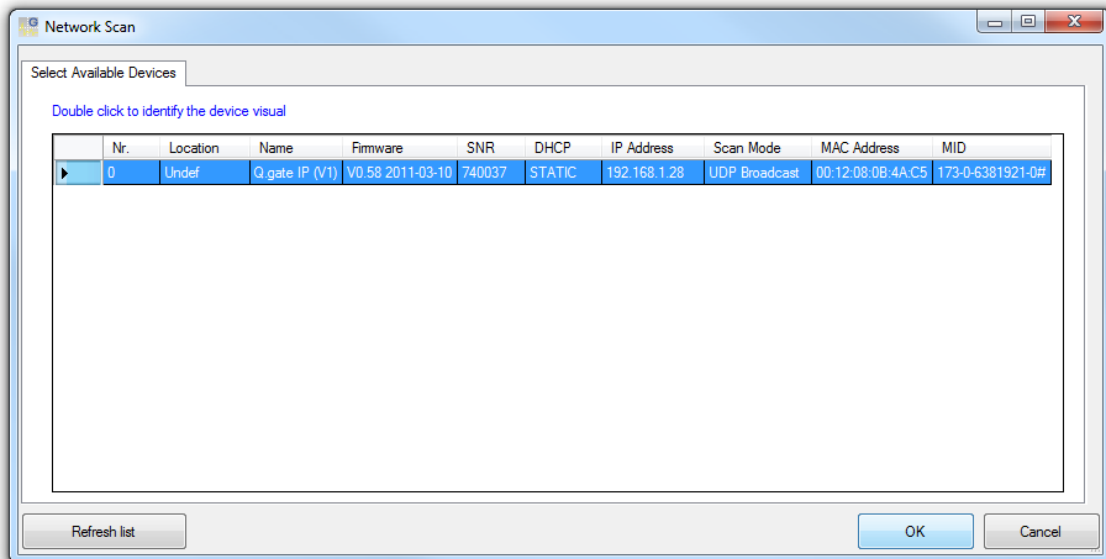




- With test.node open, under the **Configuration** tab, click on the **Scan for Devices** button.

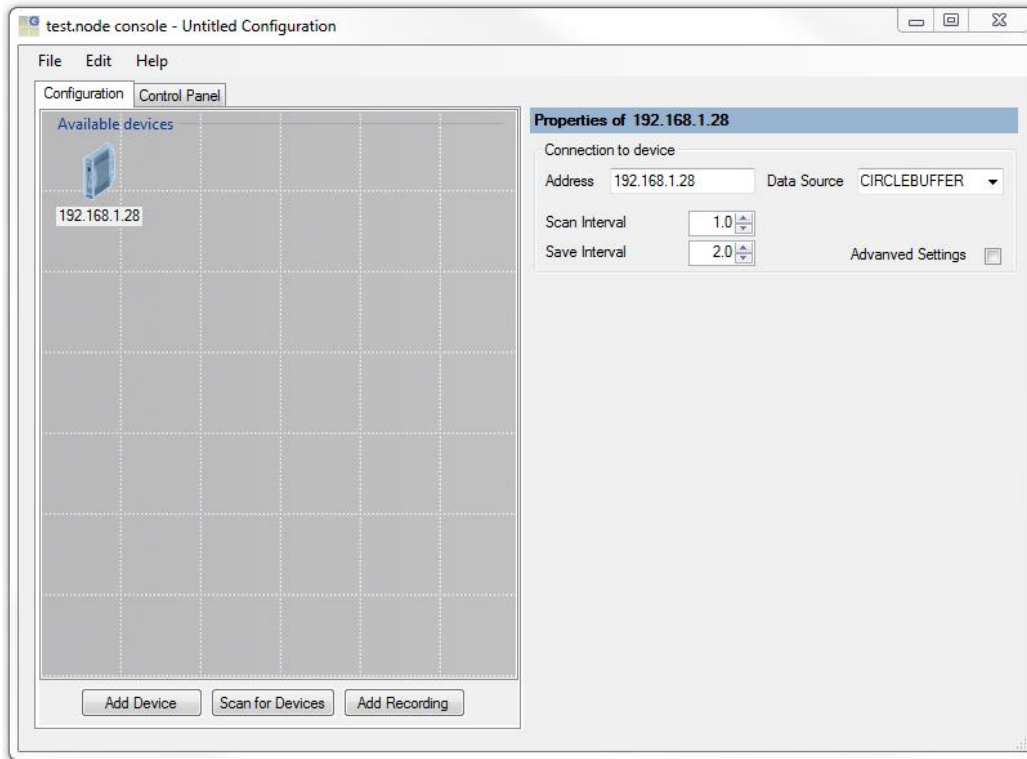


- The Network Scan window will appear displaying all connected test controllers. In this example, we are connecting to a Q.gate IP with an IP address of 192.168.1.28. Highlight the test controller and click OK.





- The test controller with the IP address will now be displayed as an available device. The properties of the test controller will be displayed on the right side.



Address:

The IP address of the test controller.

Data Source:

CIRCLEBUFFER – This is the main volatile memory to buffer online data. This contains every channel as configured in test.commander.

LOGGER – Some controllers with PAC functionality provide the options to construct and store data frames in another buffer. The test.con logger provides a data buffer similar to the CIRCLEBUFFER but has the possibility to store selected channels (must be configured in test.con first).

USB/FLASH – Using test.commander, configure the test controller to save data to either an attached USB or FLASH memory.

If USB/FLASH is selected as the data source, use the Logger wizard in test.commander to save data continuously to a USB stick attached to the Q.gate/test controller.



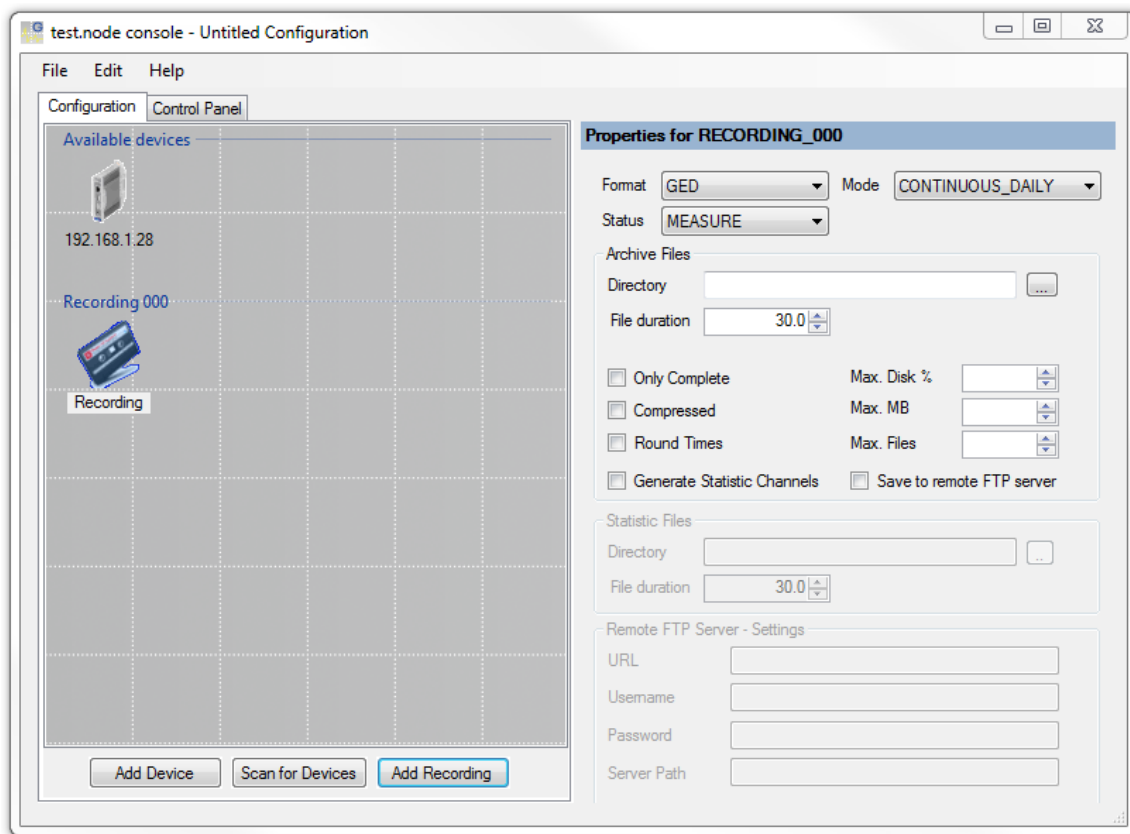
Scan Interval:

Defines the interval for reading data from the controller to the PC. Reading too slow could cause a buffer overflow on the controller. Reading too fast could cause performance problems on the controller.

Save Interval:

Defines how often data should be written to the archive file on the PC. If this interval and the test.node buffer are too slow but the amount of data quite high, it could cause a test.node buffer overflow.

6. In the Configuration tab, click on the **Add Recording** button. A recording icon will be displayed in the workspace.



Format:

GED, FAMOS, DATABASE_BINARY, DATABASE_VALUES

By saving the data in GED format, you may save the data in other formats (i.e. Excel, etc.) at a later time using test.viewer.



Mode:

NONE – Data will be collected, synchronized and delivered on the test.node online interface. But no archives will be generated.

SINGLE_SHOT – Data will be collected and saved to the archive only once.

CONTINUOUS_DAILY – Data will be collected and saved continuously. The archive file structure will get a directory for every month and date.

CONTINUOUS_FLAT – Data will be collected and saved continuously. The archive files will be stored to the destination directory directly.

Status:

STANDBY – No data collection and no saving at startup. Test.node has to be armed and triggered first!

ARMED – Data will be collected and online interface will be running. But saving starts only after triggering.

MEASURE – Data collection and saving starts immediately.

Archive Files Directory:

Select the location of where to save the data files onto the PC. For this example, use Desktop.

File Duration:

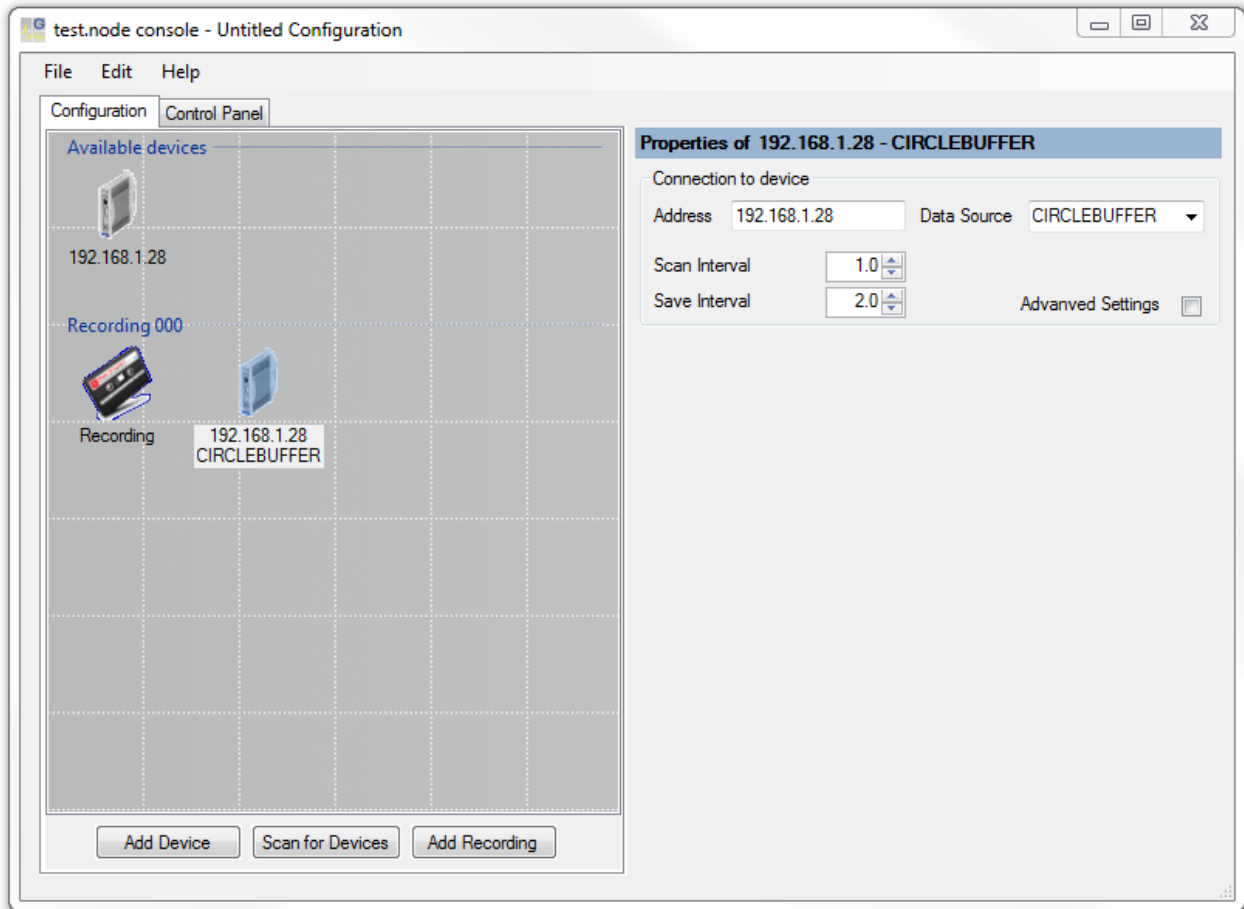
The length of the data files to be saved in terms of seconds. This value is independent of the buffer length configured by the test controller. We are using 30 seconds in this example.

Other Settings:

Click on the Help button at the top left corner of the test.node console window to open the Manual. An explanation of all settings can be found starting on page 10 of 14 (Section 6.2).



- After all settings have been completed, drag the connected test controller icon on top of the recording icon. The test controller will now appear to the right of the recording icon.



- Save the Configuration – Click on File, Save As. The configuration file (.ini) must be saved in the following directory:

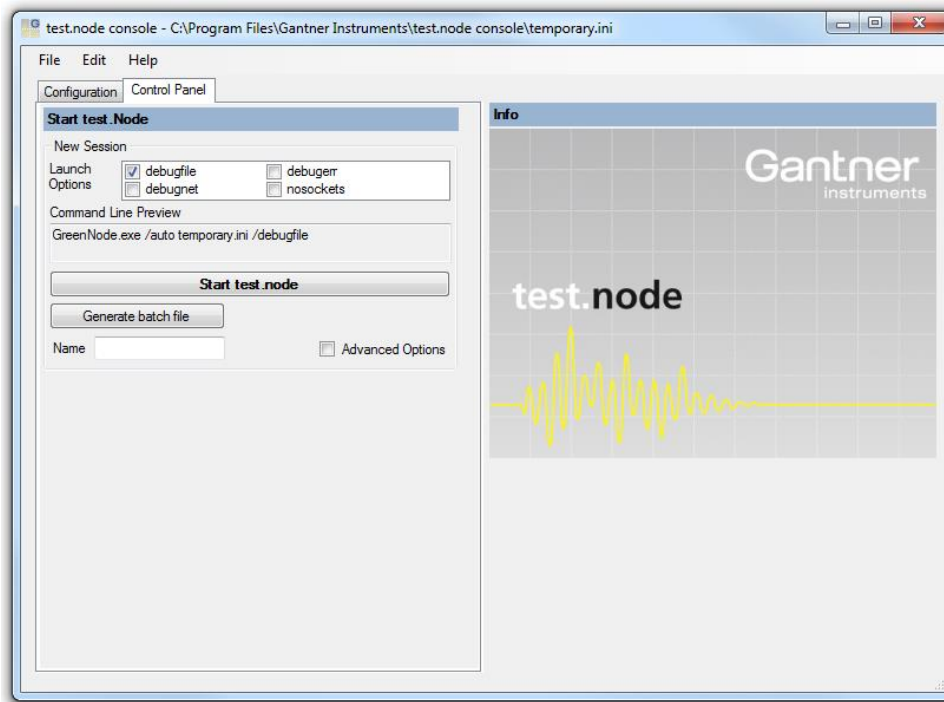
Local Disk (C:)/Program Files/Gantner Instruments/test.node console

If the software does not allow you to save the file in that directory, save it on the Desktop first and then move it to the proper directory at a later time. Make sure to move it to the proper directory before starting test.node.

Sometimes it is necessary to allow your Firewall to allow test.node access.



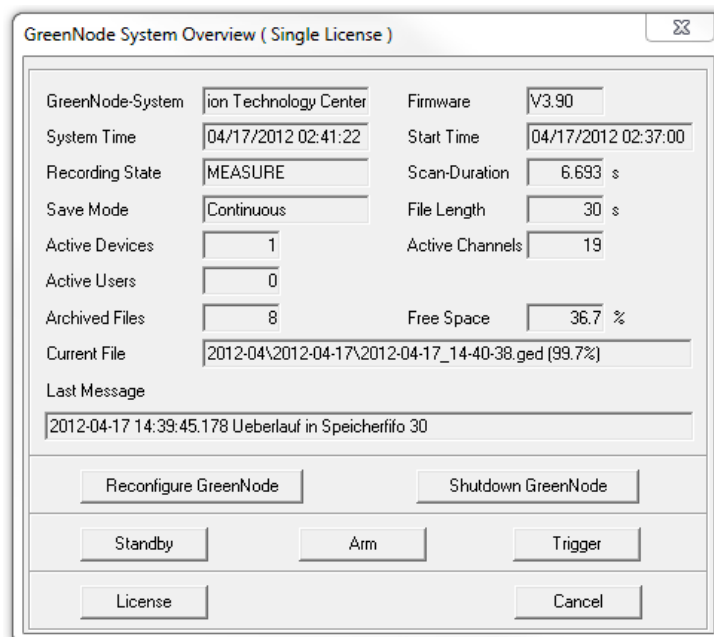
- After saving, click on the **Control Panel** tab. Click on the **Start test.node** button to begin test.node.



- When test.node is started, a green turtle icon will appear in the quick launch icons on the bottom right corner of your desktop.



Double click on this icon to open the GreenNode System Overview window like the one shown below:



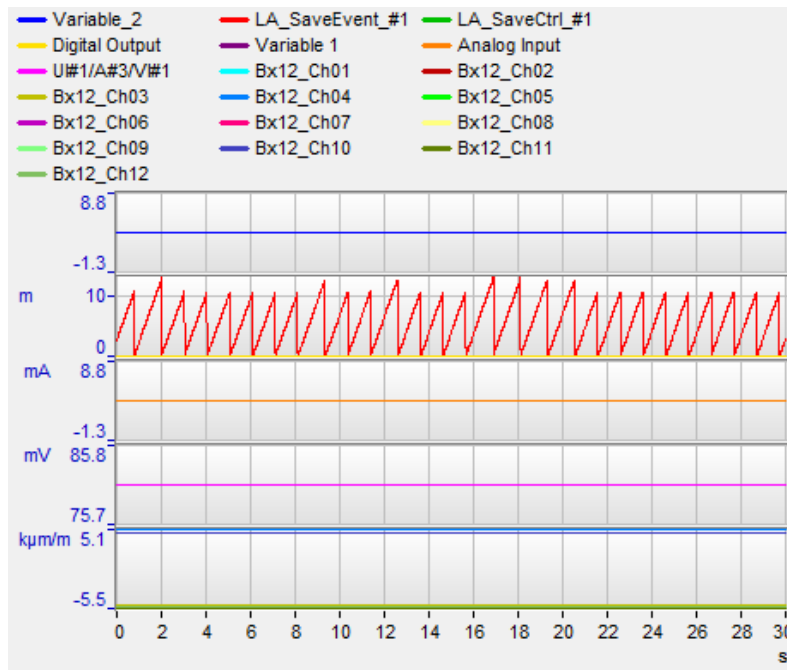


To stop test.node, click on the **Shutdown GreenNode** button.

11. Accessing the GED files for analysis is done by finding the directory chosen previously in Step 6. The folder will be date stamped.

The GED files will have incremental lengths based on the File Duration setting chosen previously. In this example we have a File Duration of 30 seconds.

2012-04-17_14-37-08.ged	4/17/2012 2:38 PM	GED File	50 KB
2012-04-17_14-37-38.ged	4/17/2012 2:38 PM	GED File	50 KB
2012-04-17_14-38-08.ged	4/17/2012 2:39 PM	GED File	50 KB
2012-04-17_14-39-08.ged	4/17/2012 2:40 PM	GED File	50 KB
2012-04-17_14-39-38.ged	4/17/2012 2:40 PM	GED File	49 KB
2012-04-17_14-40-08.ged	4/17/2012 2:41 PM	GED File	50 KB
2012-04-17_14-40-38.ged	4/17/2012 2:41 PM	GED File	50 KB
2012-04-17_14-41-08.ged	4/17/2012 2:42 PM	GED File	49 KB
2012-04-17_14-41-38.ged	4/17/2012 2:42 PM	GED File	50 KB
2012-04-17_14-42-08.ged	4/17/2012 2:43 PM	GED File	49 KB
2012-04-17_14-42-38.ged	4/17/2012 2:43 PM	GED File	50 KB
2012-04-17_14-43-08.ged	4/17/2012 2:44 PM	GED File	49 KB
2012-04-17_14-43-38.ged	4/17/2012 2:44 PM	GED File	50 KB
2012-04-17_14-44-08.ged	4/17/2012 2:45 PM	GED File	49 KB
2012-04-17_14-44-38.ged	4/17/2012 2:45 PM	GED File	50 KB
2012-04-17_14-45-38.ged	4/17/2012 2:46 PM	GED File	41 KB



After opening the GED files in test.viewer, you may save the data to an Excel sheet or any other format.