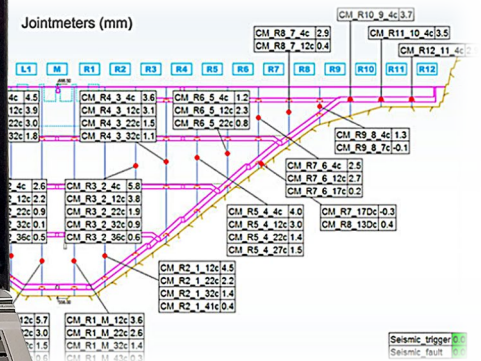
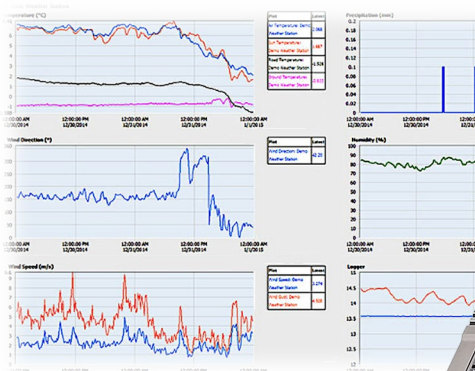
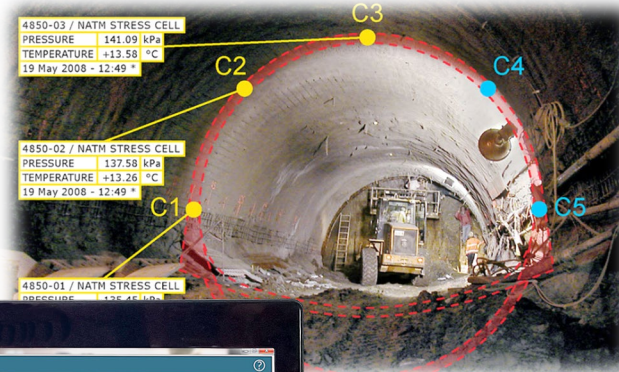





Product Tutorial

Exporting Data from Agent



Before Continuing

 Prior to viewing this tutorial, please watch the “Using Agent Software to Collect and Display Data from GeoNet Networks” tutorial to familiarize yourself with the basics of the Agent program







If you have not already done so, create a Project and a Network inside the Agent program for the GeoNet network that contains the data to be exported

Please Note: Data is exported from the Agent database; therefore, only data that has been downloaded from the network is available for export

Exporting Data

Adding Sensors

1. To export data, select a Project, then a Network, and then click "Export"

projects	Sample Project	Sample Network							
nodes	node type	name	serial number	last reading	battery level	signal strength	charts	remove	
settings	Supervisor	Sample Supervisor	1537815	2018-10-01 11:30 -0400	 2.8 volts	 100%	0	X	
export ←	Single Channel	Sample Node	1537823	2018-07-18 16:00 -0400	 2.3 volts	 80%	0	X	
live	Single Channel	Sample Node 2	1533349	2018-08-13 10:00 -0400	 2.6 volts	 48%	1	X	

Exporting Data

Adding Sensors (Continued)

2. Only data from sensors shown in the “Sensors being exported” list will be saved in the export file. Click “Add sensors” to add sensors to the list

The screenshot displays a web interface for configuring data export. The top navigation bar includes 'projects', 'Sample Project', and 'Sample Network'. A left sidebar contains 'nodes', 'settings', 'export', and 'live'. The main content area is divided into two sections: 'Automatic Export' and 'Manual Export'. The 'Automatic Export' section has two radio buttons: 'Export at a scheduled interval' (selected) and 'Export at specified Times'. Under 'Export at a scheduled interval', there are fields for 'Start Time', 'Interval' (set to 1440), and 'Units' (set to Minute). Under 'Export at specified Times', there is a 'Times' table and an 'Enter a time to add' field. To the right is an 'Output Directory' field with a 'Browse' button. Below these are 'Save' and 'Cancel' buttons. The 'Manual Export' section has 'start date' (05/30/2019) and 'end date' (06/06/2019) fields, and an 'Export Now' button. A 'Sensors being exported' section at the bottom left contains an 'Add sensors' link with a green arrow pointing to it.

projects Sample Project Sample Network

nodes

settings

export

live

Automatic Export

Enable automatic Export Include Quotes

Export at a scheduled interval

Start Time:

Interval: Units:

Export at specified Times

Times:

--

Enter a time to add:

Output Directory:

Sensors being exported

[Add sensors](#)

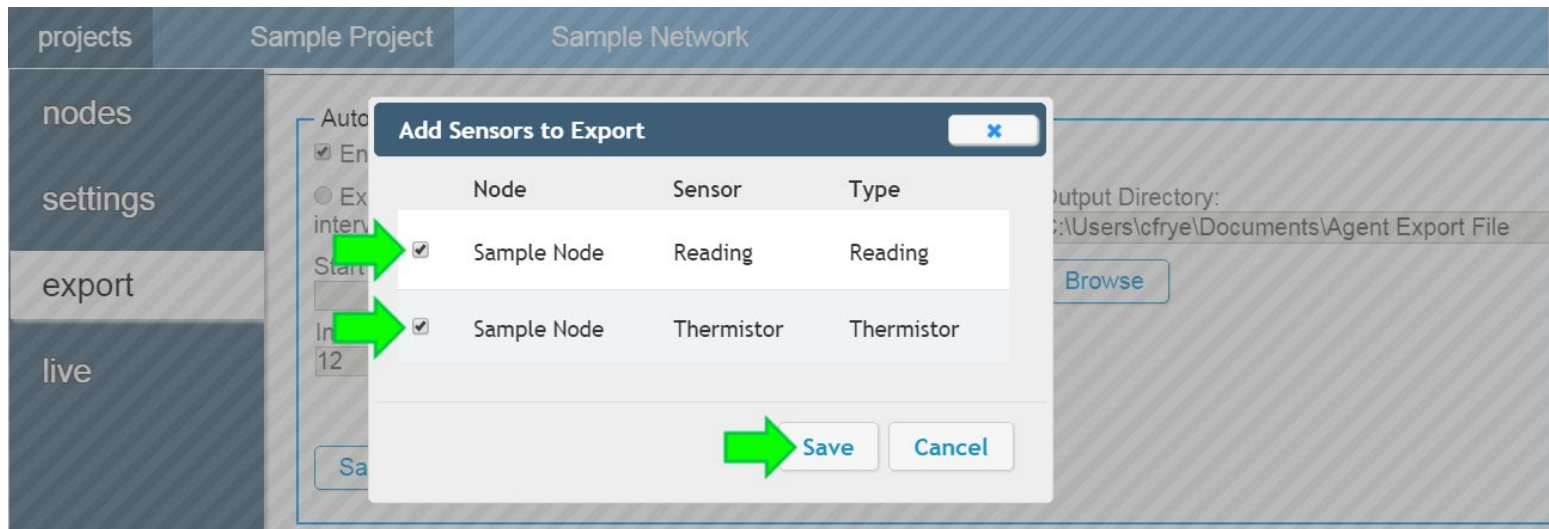
Manual Export

start date end date

Exporting Data

Adding Sensors (Continued)

3. Select the sensors to add, and then click "Save"
(Only sensors previously added to devices in the Network will be shown)



Exporting Data

Adding Sensors (Continued)

- The selected sensors will be added to the "Sensors being exported" box

The screenshot shows a software interface with a sidebar on the left containing 'projects', 'nodes', 'settings', 'export', and 'live'. The main area is titled 'Sample Project' and 'Sample Network'. It features three main sections: 'Automatic Export', 'Sensors being exported', and 'Manual Export'.

Automatic Export

- Enable automatic Export
- Include Quotes
- Export at a scheduled interval
- Export at specified Times
- Start Time:
- Interval: Units:
- Times:
- Enter a time to add:
- Output Directory:
-

Sensors being exported

[Add sensors](#)

Node	Sensor	Type	
Sample Node	Reading	Reading	remove
Sample Node	Thermistor	Thermistor	remove

Manual Export

start date: end date:

Exporting Data

Automatic Export

- The automatic export feature is designed to work with data management programs such as Vista Data Vision®
- The exported data file will be saved with a “.dat” extension (Most computers will require the user to choose a program with which to open this type of file)
- Data will be exported to the same file each time an export occurs
- If the sensor mapping is changed, or a Node, chart, or sensor is added or removed, a new “.dat” file will be created and the previously written file will be given a “.bad” extension

Exporting Data

Automatic Export (Continued)

1. To turn on automatic export, check the box next to "Enable automatic Export"

The screenshot shows a web interface for configuring automatic data export. The top navigation bar includes 'projects', 'Sample Project', and 'Sample Network'. A sidebar on the left contains 'nodes', 'settings', 'export', and 'live'. The 'Automatic Export' configuration panel is open, showing the following options:

- Enable automatic Export
- Include Quotes
- Export at a scheduled interval
 - Start Time:
 - Interval: Units:
- Export at specified Times
 - Times:
 - Enter a time to add:
- Output Directory:

At the bottom of the panel are 'Save' and 'Cancel' buttons.

Exporting Data

Automatic Export (Continued)

- If “Include Quotes” is checked, quotation marks will be inserted wherever data is separated by commas
(This may be required to import the file into data programs that use commas as decimal points, or in regions that use alternate date formats)

The screenshot shows the 'Automatic Export' configuration window. On the left is a navigation menu with 'export' selected. The main window has a title bar with 'Sample Project' and 'Sample Network'. The 'Automatic Export' section contains the following elements:

- Enable automatic Export
- Include Quotes (highlighted with a green arrow)
- Export at a scheduled interval
 - Start Time:
 - Interval: Units:
- Export at specified Times
 - Times:
 - Enter a time to add:
- Output Directory:
-

Exporting Data

Automatic Export (Continued)

3. To set the automatic export to occur at scheduled intervals, click the "Export at a scheduled interval" button

The screenshot shows a web interface for configuring automatic data export. The left sidebar has a menu with items: projects, Sample Project, Sample Network, nodes, settings, export, and live. The 'export' item is highlighted. The main content area is titled 'Automatic Export' and contains the following controls:

- Enable automatic Export
- Include Quotes
- Export at a scheduled interval (highlighted with a green arrow)
- Export at specified Times
- Start Time:
- Interval: Units:
- Times:
- Enter a time to add:
- Output Directory:
-
-

Exporting Data

Automatic Export (Continued)

4. Enter a "Start Time" if desired. When a start time is present, the first export will occur at the specified time
(All times on this screen must be entered in 24-hour hour format, for example, 3:30 PM is entered as 15:30)

The screenshot displays the 'Automatic Export' configuration window. On the left, a sidebar contains the following menu items: 'projects', 'nodes', 'settings', 'export' (highlighted with a green arrow), and 'live'. The main window has a header with 'Sample Project' and 'Sample Network'. The 'Automatic Export' section includes the following controls:

- Enable automatic Export
- Include Quotes
- Export at a scheduled interval
 - Start Time:
 - Interval: Units:
- Export at specified Times
 - Times:
 - Enter a time to add:
- Output Directory:

At the bottom of the configuration area are and buttons.

Exporting Data

Automatic Export (Continued)

5. Data export will recur based on the information in the "Interval" and "Units" fields

The screenshot displays the 'Automatic Export' configuration page. On the left sidebar, the 'export' menu item is highlighted. The main content area is titled 'Automatic Export' and contains the following settings:

- Enable automatic Export
- Include Quotes
- Export at a scheduled interval
- Start Time: 15:30
- Interval: 12
- Units: Hour (selected)
- Export at specified Times
- Times: [Empty box]
- Enter a time to add: [Empty box]
- Output Directory: [Empty text field]
-
-

Two green arrows are present: one pointing from the 'export' menu item to the 'Automatic Export' panel, and another pointing to the 'Hour' option in the 'Units' dropdown menu.

Exporting Data



Automatic Export (Continued)

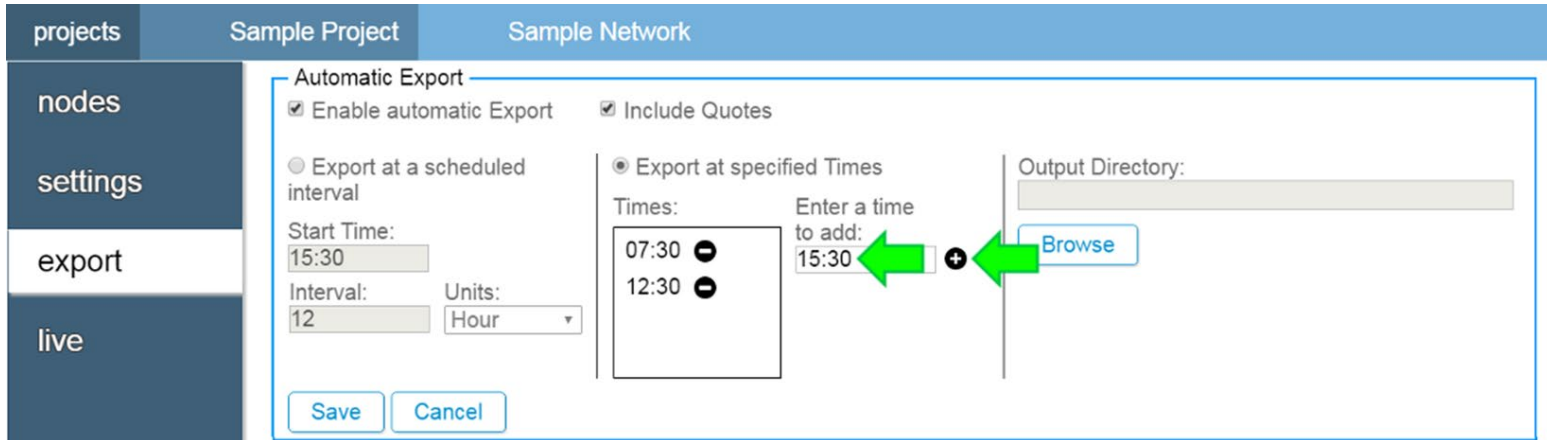
- To set the automatic export to occur at specific times, click the “Export at specified Times” button.

The screenshot shows the 'Automatic Export' configuration window. The left sidebar has 'export' selected. The main panel has 'Export at specified Times' selected, indicated by a green arrow. The 'Start Time' is set to 15:30, the 'Interval' is 12, and the 'Units' are set to Hour. The 'Times' list contains 07:30 and 12:30. There is an 'Enter a time to add' field with a plus sign and a 'Browse' button for the 'Output Directory'.




Exporting Data

Automatic Export (Continued)

7. Input a time in the “Enter a time to add field” and then click 
(To remove a time from the list, click )



The screenshot displays the 'Automatic Export' configuration window. On the left sidebar, the 'export' option is selected. The main window is titled 'Automatic Export' and contains the following elements:

- Enable automatic Export
- Include Quotes
- Export at a scheduled interval
- Export at specified Times
- Start Time:
- Interval: Units:
- Times:
 - 07:30 
 - 12:30 
- Enter a time to add: 
- Output Directory:
-
-

Exporting Data

Automatic Export (Continued)

8. To set the output directory click "Browse"

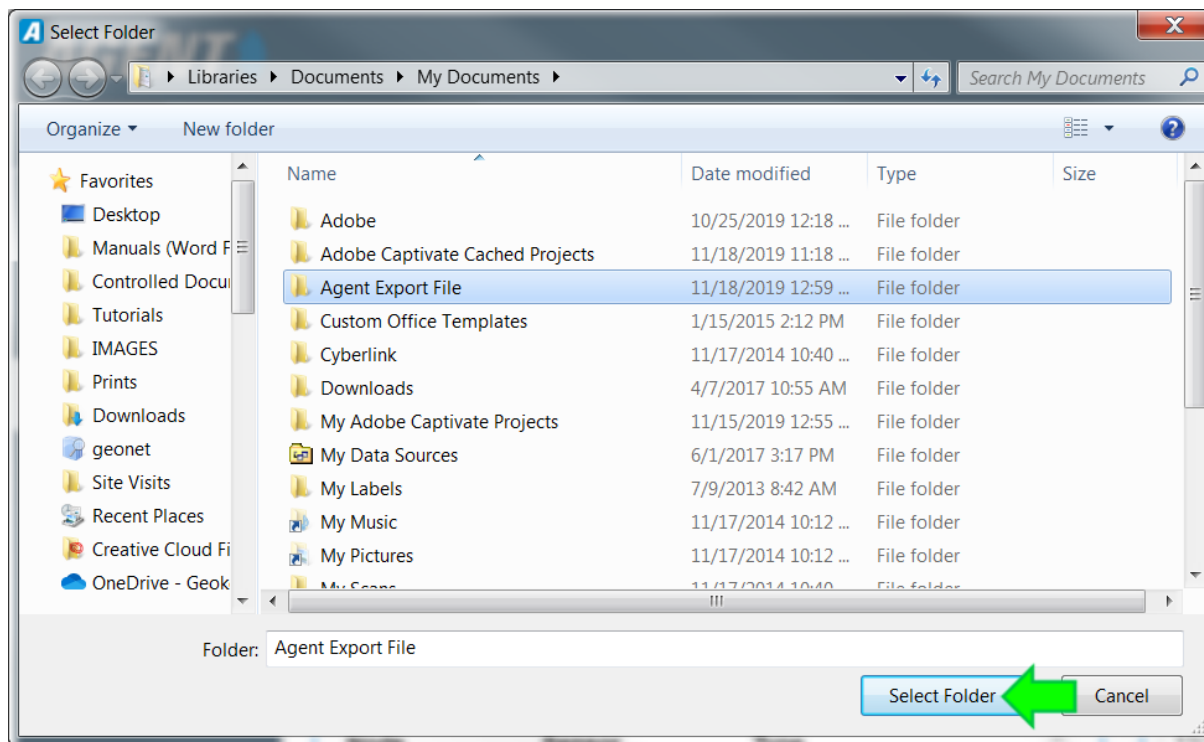
The screenshot displays the 'Automatic Export' configuration window. On the left, a sidebar contains navigation links: 'projects', 'nodes', 'settings', 'export', and 'live'. The main window has tabs for 'Sample Project' and 'Sample Network'. The 'Automatic Export' section includes the following controls:

- Enable automatic Export
- Include Quotes
- Export at a scheduled interval
 - Start Time:
 - Interval: Units:
- Export at specified Times
 - Times:
 - Enter a time to add:
- Output Directory:
- (highlighted with a green arrow)
-

Exporting Data

Automatic Export (Continued)

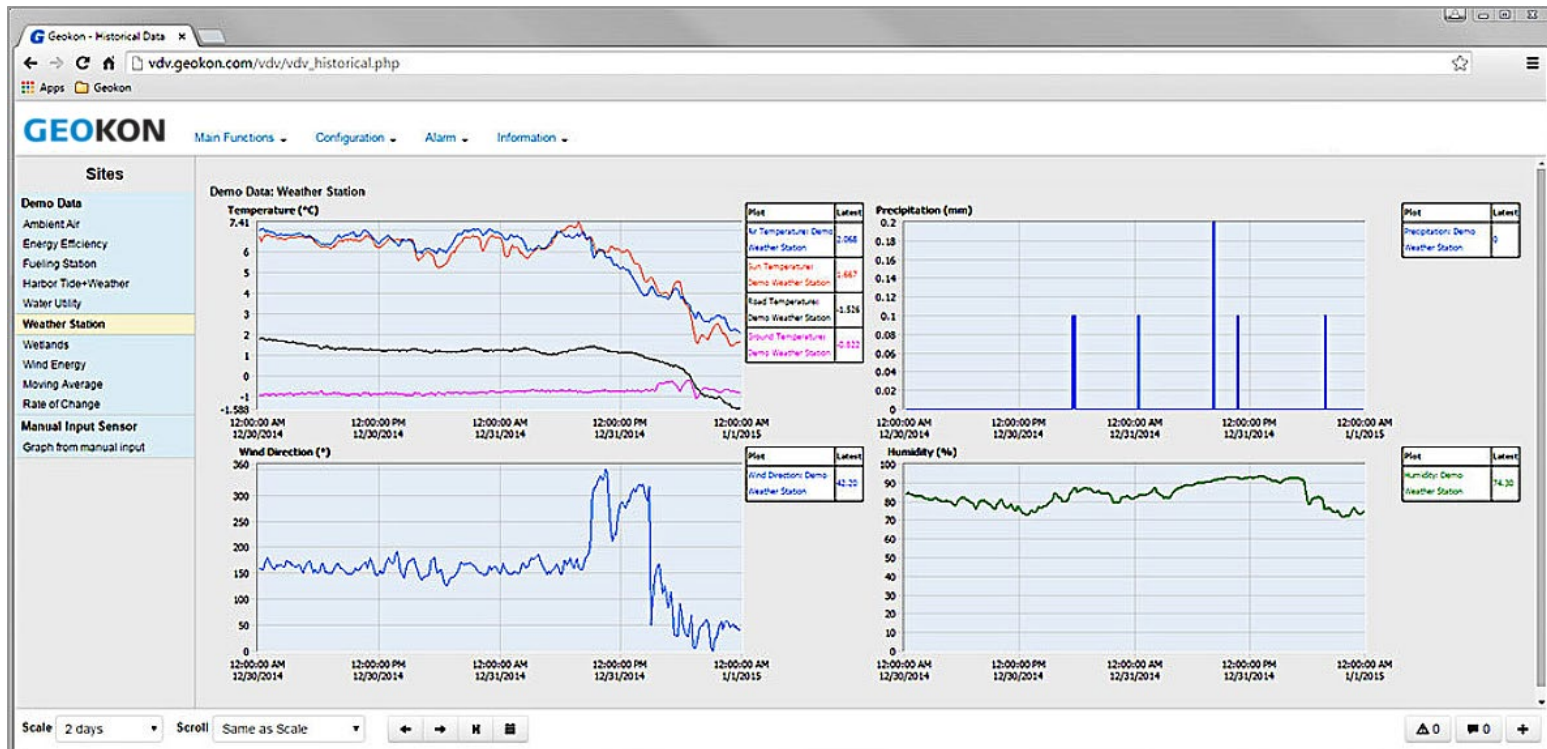
9. Select a location for the file and then click “Select Folder”



Exporting Data

Automatic Export (Continued)

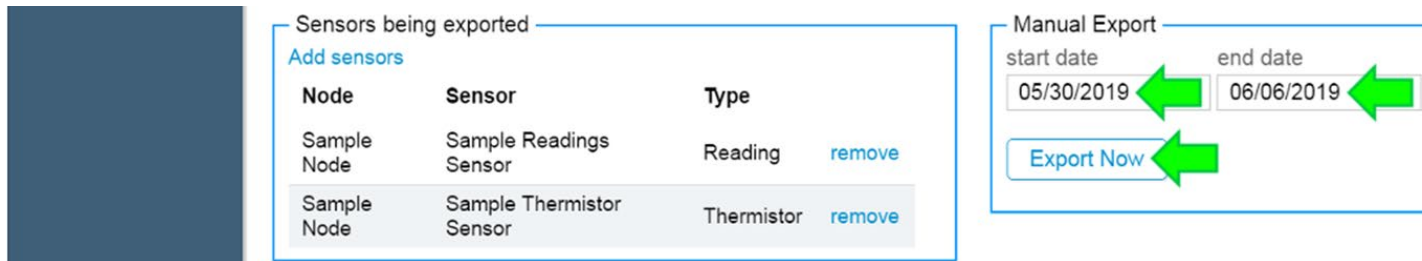
10. Open or import the .dat file using the data management program of your choice



Exporting Data

Manual Export

- Manual Export is a convenient way to export data for a given date range. Manual export is an immediate, one time export
- Select a start and end date to set the date range, then click "Export now"



The screenshot displays two main sections of the manual export interface. On the left, a dark blue sidebar is partially visible. The main content area is divided into two panels. The first panel, titled "Sensors being exported", includes a link "Add sensors" and a table with the following data:

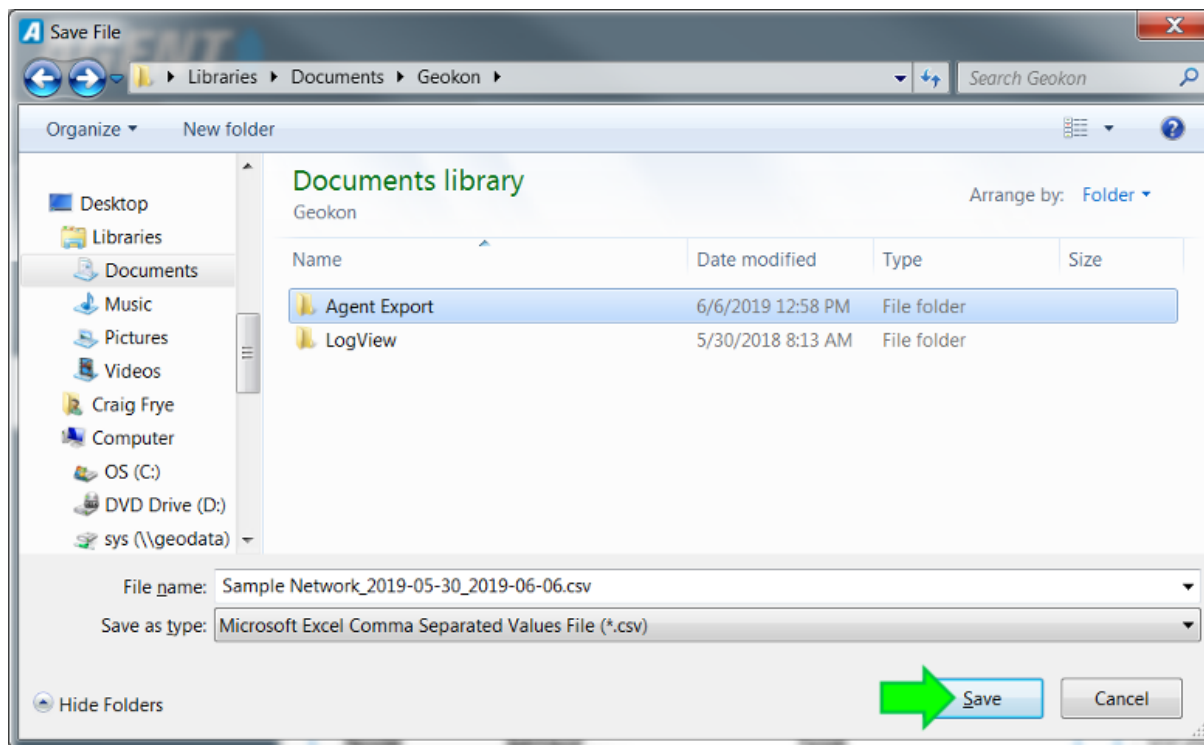
Node	Sensor	Type	
Sample Node	Sample Readings Sensor	Reading	remove
Sample Node	Sample Thermistor Sensor	Thermistor	remove

The second panel, titled "Manual Export", contains two date input fields: "start date" with the value "05/30/2019" and "end date" with the value "06/06/2019". Below these fields is a button labeled "Export Now". Green arrows point to the date fields and the "Export Now" button, indicating the steps to be followed.

Exporting Data

Manual Export (Continued)

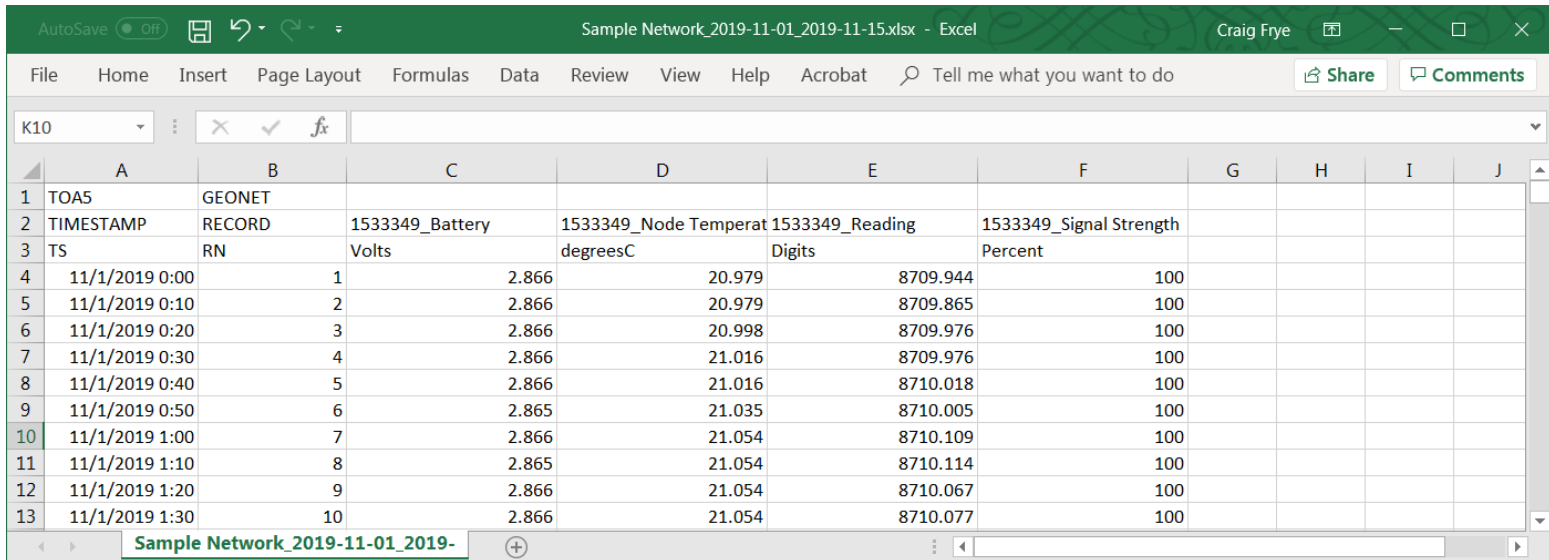
2. Select a location for the .csv file and then click "Save"



Exporting Data

Manual Export (Continued)

3. To view the data, open the .csv file with Microsoft® Excel® or a similar program

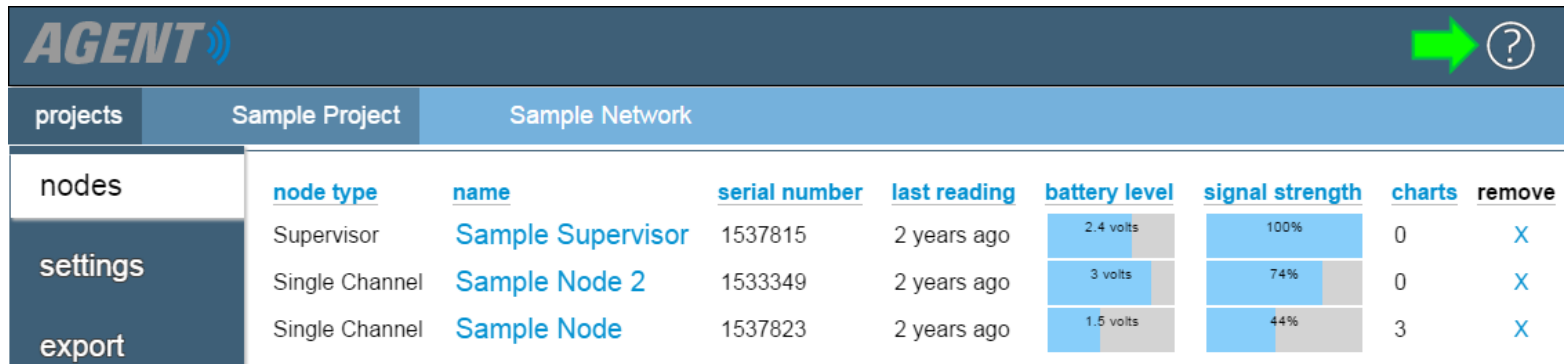


	A	B	C	D	E	F	G	H	I	J
1	TOA5	GEONET								
2	TIMESTAMP	RECORD	1533349_Battery	1533349_Node Temperat	1533349_Reading	1533349_Signal Strength				
3	TS	RN	Volts	degreesC	Digits	Percent				
4	11/1/2019 0:00	1	2.866	20.979	8709.944	100				
5	11/1/2019 0:10	2	2.866	20.979	8709.865	100				
6	11/1/2019 0:20	3	2.866	20.998	8709.976	100				
7	11/1/2019 0:30	4	2.866	21.016	8709.976	100				
8	11/1/2019 0:40	5	2.866	21.016	8710.018	100				
9	11/1/2019 0:50	6	2.865	21.035	8710.005	100				
10	11/1/2019 1:00	7	2.866	21.054	8710.109	100				
11	11/1/2019 1:10	8	2.865	21.054	8710.114	100				
12	11/1/2019 1:20	9	2.866	21.054	8710.067	100				
13	11/1/2019 1:30	10	2.866	21.054	8710.077	100				

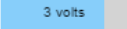


- ▶ Each column contains the data for a particular sensor
- ▶ Each row represents the date and time the reading was taken

For more information...

- Consult the GeoNet and Agent instruction manuals, which can be accessed at any time by clicking on the question mark at the top of the screen



The screenshot shows the AGENT web interface. At the top left is the AGENT logo. At the top right is a green arrow pointing to a question mark icon. Below the logo is a navigation menu with 'projects', 'Sample Project', and 'Sample Network'. A sidebar on the left contains 'nodes', 'settings', and 'export'. The main content area is a table with columns: node type, name, serial number, last reading, battery level, signal strength, charts, and remove.

	node type	name	serial number	last reading	battery level	signal strength	charts	remove
	Supervisor	Sample Supervisor	1537815	2 years ago			0	X
	Single Channel	Sample Node 2	1533349	2 years ago			0	X
	Single Channel	Sample Node	1537823	2 years ago			3	X

- Instruction manuals are available for download at: www.geokon.com/Manuals
- Please visit www.geokon.com/Videos for more tutorials