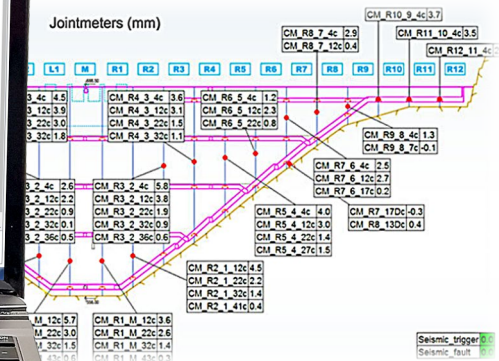
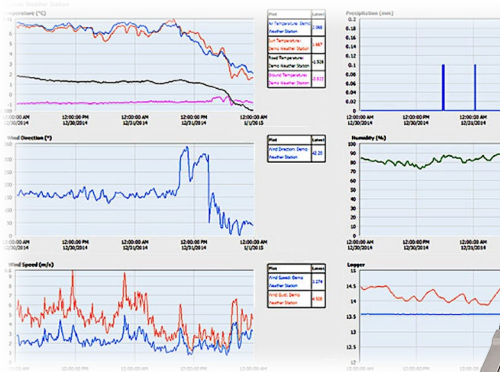
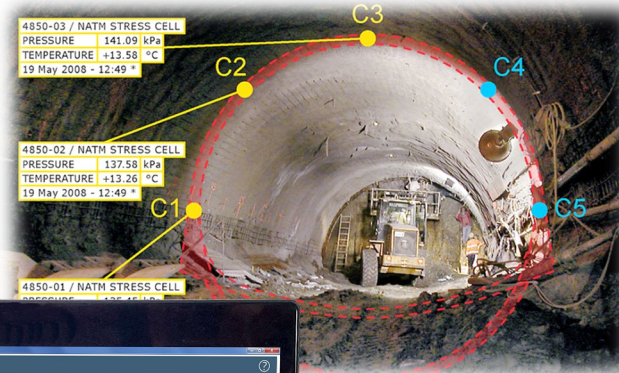





Product Tutorial

Exporting Data from Agent



Before Continuing

 Prior to viewing this tutorial, please read the “[Using Agent Software to Collect and Display Data](#)” tutorial to familiarize yourself with the basics of the Agent program

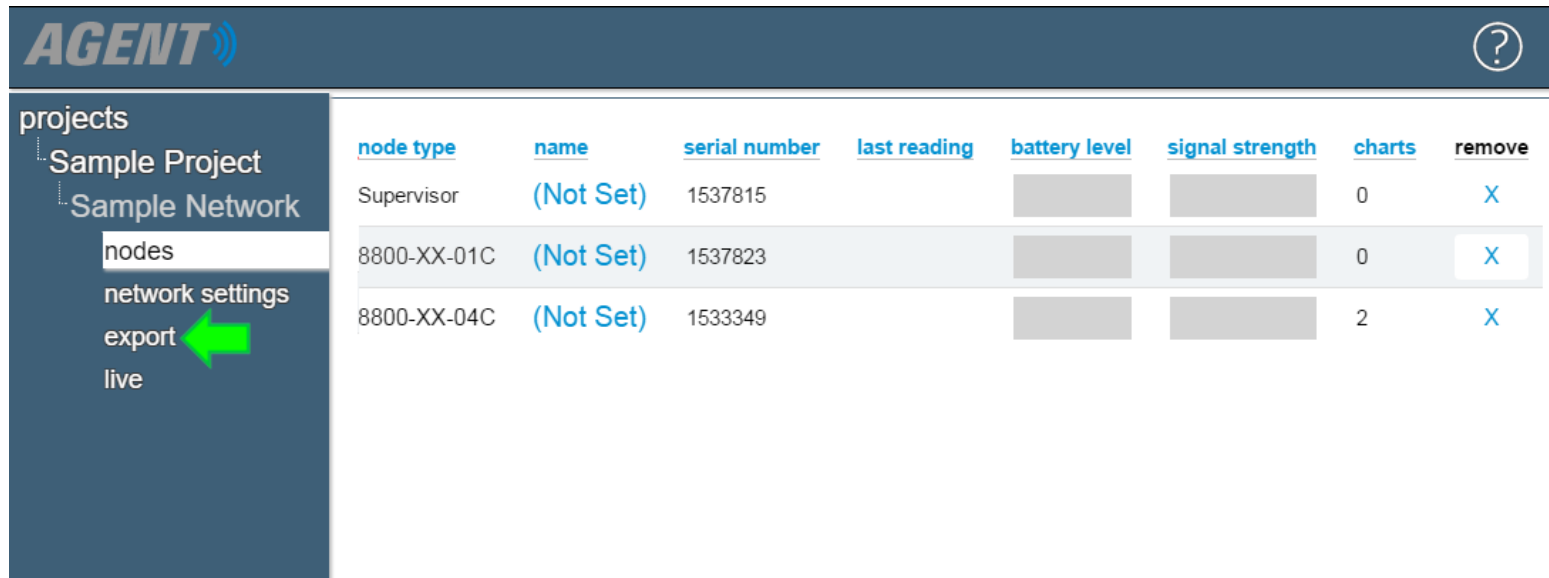
If you have not already done so, create a Project and a Network inside the Agent program for the GeoNet network that contains the data to be exported

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"



The screenshot shows the AGENT web interface. On the left is a sidebar menu with the following items: projects, Sample Project, Sample Network, nodes, network settings, export (highlighted with a green arrow), and live. The main content area displays a table with the following columns: node type, name, serial number, last reading, battery level, signal strength, charts, and remove. The table contains three rows of data:

node type	name	serial number	last reading	battery level	signal strength	charts	remove
Supervisor	(Not Set)	1537815				0	X
8800-XX-01C	(Not Set)	1537823				0	X
8800-XX-04C	(Not Set)	1533349				2	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. On the left is a dark blue sidebar with a navigation menu containing the following items: 'projects', 'Sample Project', 'Sample Network', 'nodes', 'network settings', 'export' (highlighted with a white background), and 'live'. The main content area is divided into two sections. The top section, titled 'Automatic Export', contains several options: a checked checkbox for 'Enable automatic Export', an unchecked checkbox for 'Include Quotes', and a radio button selected for 'Export at specified Times'. Below these are input fields for 'Start Time', 'Interval' (set to 12), and 'Units' (set to Hour). There is also a 'Times' table with a '+' icon for adding entries, and an 'Output Directory' field with a 'Browse' button. 'Save' and 'Cancel' buttons are at the bottom of this section. The bottom section, titled 'Manual Export', features 'start date' (09/04/2020) and 'end date' (09/11/2020) fields, and an 'Export Now' button. A red box highlights the 'Add sensors' link in the 'Sensors being exported' section, with a red arrow pointing to it.

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)

The screenshot shows a software interface with a sidebar on the left containing a tree view with items like 'Sample Project', 'Sample Network', 'nodes', 'network settings', 'export', and 'live'. The main area displays a configuration window for 'Add Sensors to Export'. This window has a 'select all' button and a table with the following data:

Node	Sensor	Type
<input checked="" type="checkbox"/> Sample Node	Sample Reading Sensor	Reading_1
<input checked="" type="checkbox"/> Sample Node	Sample Thermistor	Therm_1
<input type="checkbox"/> Sample Supervisor	Battery	Battery
<input type="checkbox"/> Sample Supervisor	Signal Strength	SignalStrength

At the bottom of the dialog, there are 'Save' and 'Cancel' buttons. A green arrow points to the 'Save' button.

Exporting Data

Adding Sensors (Continued)

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

The screenshot shows a web interface for configuring data export. On the left is a navigation menu with the following items: projects, Sample Project, Sample Network, nodes, network settings, export (highlighted), and live. The main content area is divided into three sections:

- Automatic Export:** Contains options for enabling automatic export, including quotes, and scheduling. The 'Export at specified Times' option is selected. Fields include 'Start Time', 'Interval' (set to 12), 'Units' (set to Hour), and a 'Times' list box. There is also an 'Output Directory' field with a 'Browse' button.
- Sensors being exported:** A table with columns for Node, Sensor, Type, and a remove link. Two rows are highlighted with a green border:

Node	Sensor	Type	
Sample Node	Sample Reading Sensor	Reading_1	remove
Sample Node	Sample Thermistor	Therm_1	remove
- Manual Export:** Includes 'start date' (09/04/2020) and 'end date' (09/11/2020) fields, and an 'Export Now' button.

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 the 'Automatic Export' configuration page. On the left, a navigation menu lists 'projects', 'Sample Project', 'Sample Network', 'nodes', 'network settings', 'export', and 'live'. The 'export' option is highlighted. A green arrow points to the 'Enable automatic Export' checkbox, which is checked. The 'Automatic Export' section includes the following options:

- Enable automatic Export
- Include Quotes
- Export at a scheduled interval
- Export at specified Times

Under 'Export at a scheduled interval', there are fields for 'Start Time', 'Interval' (set to 12), and 'Units' (set to Hour). Under 'Export at specified Times', there is a 'Times' table and an 'Enter a time to add' field with a '+' button. To the right, there is an 'Output Directory' field with a 'Browse' button. At the bottom of the 'Automatic Export' section are 'Save' and 'Cancel' buttons.

The 'Sensors being exported' section has an 'Add sensors' link and a table with the following data:

Node	Sensor	Type	
Sample Node	Sample Reading Sensor	Reading_1	remove
Sample Node	Sample Thermistor	Therm_1	remove

The 'Manual Export' section includes 'start date' (09/04/2020) and 'end date' (09/11/2020) fields, and an 'Export Now' button.

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 page. A green arrow points to the 'Include Quotes' checkbox, which is checked. The 'Export at specified Times' radio button is selected. The 'Output Directory' field is empty, and the 'Browse' button is visible. The 'Sensors being exported' table shows one sensor: 'Sample Reading' of type 'Reading_1'. The 'Manual Export' section shows start and end dates: '09/04/2020' and '09/11/2020'.

Node	Sensor	Type	
Sample	Sample Reading	Reading_1	remove

start date	end date
09/04/2020	09/11/2020

Exporting Data

Automatic Export (Continued)

- To set the automatic export to occur at scheduled intervals, click the “Export at a scheduled interval” button

The screenshot shows the 'Automatic Export' configuration page. On the left, a dark blue sidebar contains a navigation menu with the following items: 'projects', 'Sample Project', 'Sample Network', 'nodes', 'network settings', 'export' (highlighted), and 'live'. A green arrow points from the 'export' menu item to the 'Export at a scheduled interval' radio button in the 'Automatic Export' section.

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	Sample Reading Sensor	Reading_1	remove
Sample Node	Sample Thermistor	Therm_1	remove

Manual Export

start date: end date:

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 shows the 'Automatic Export' configuration page. On the left, a sidebar menu has 'export' highlighted with a green arrow. The main content area is titled 'Automatic Export' and contains the following options:

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

Below the 'Automatic Export' section is the 'Sensors being exported' section, which includes a table of sensors:

Node	Sensor	Type	
Sample Node	Sample Reading Sensor	Reading_1	remove
Sample Node	Sample Thermistor	Therm_1	remove

At the bottom right is the 'Manual Export' section, which includes:

- start date:
- end date:
-

Exporting Data

Automatic Export (Continued)

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

The screenshot shows the 'Automatic Export' configuration panel. The 'Interval' field is set to 60, and the 'Units' dropdown menu is open, showing 'Minute' selected. A green arrow points to the 'export' menu item in the left sidebar, and another green arrow points to the 'Minute' option in the dropdown.

Automatic Export

- Enable automatic Export
- Include Quotes
- Export at a scheduled interval
- Export at specified Times

Start Time: 15:30

Interval: 60

Units: **Minute**

Output Directory:

Enter a time to add:

Sensors being exported

[Add sensors](#)

Node	Sensor	Type	
Sample Node	Sample Reading Sensor	Reading_1	remove
Sample Node	Sample Thermistor	Therm_1	remove

Manual Export

start date: 09/04/2020

end date: 09/11/2020

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 a web interface for configuring automatic data export. On the left is a navigation menu with the following items: projects, Sample Project, Sample Network, nodes, network settings, export (highlighted), and live. The main content area is divided into three sections:

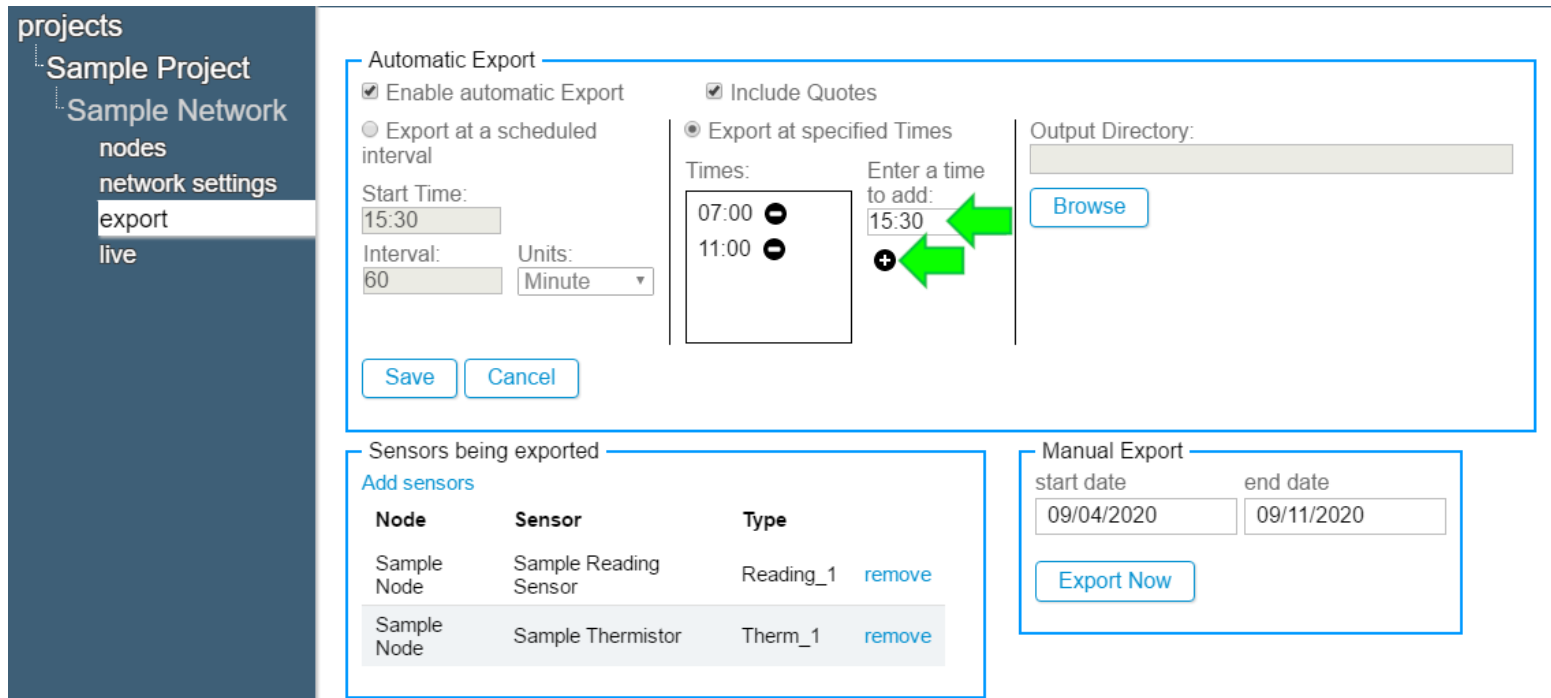
- Automatic Export:** This section contains several options. The 'Enable automatic export' checkbox is checked. The 'Export at specified Times' radio button is selected, indicated by a green arrow. Other options include 'Include Quotes' (checked), 'Export at a scheduled interval' (unselected), 'Start Time' (15:30), 'Interval' (60), 'Units' (Minute), 'Times' (a list box), 'Enter a time to add:' (a text input with a plus icon), and 'Output Directory:' (a text input with a 'Browse' button). 'Save' and 'Cancel' buttons are at the bottom.
- Sensors being exported:** This section has an 'Add sensors' link and a table with the following data:

Node	Sensor	Type	
Sample Node	Sample Reading Sensor	Reading_1	remove
Sample Node	Sample Thermistor	Therm_1	remove
- Manual Export:** This section includes 'start date' (09/04/2020) and 'end date' (09/11/2020) fields, and an 'Export Now' button.

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 )





Automatic Export


- Enable automatic Export
- Include Quotes
- Export at a scheduled interval
- Export at specified Times

Start Time:

Interval: Units:

Times:

- 07:00 
- 11:00 

Enter a time to add: 

Output Directory:

Sensors being exported

[Add sensors](#)

Node	Sensor	Type	
Sample Node	Sample Reading Sensor	Reading_1	remove
Sample Node	Sample Thermistor	Therm_1	remove

Manual Export

start date: end date:

Exporting Data

Automatic Export (Continued)

8. To set the output directory click "Browse"

Automatic Export

Enable automatic Export Include Quotes

Export at a scheduled interval Export at specified Times

Start Time: 15:30

Interval: 60 Units: Minute

Times: 07:00, 11:00, 15:30

Enter a time to add: [input] +

Output Directory: [input] **Browse**

Sensors being exported

Add sensors

Node	Sensor	Type	
Sample Node	Sample Reading Sensor	Reading_1	remove
Sample Node	Sample Thermistor	Therm_1	remove

Manual Export

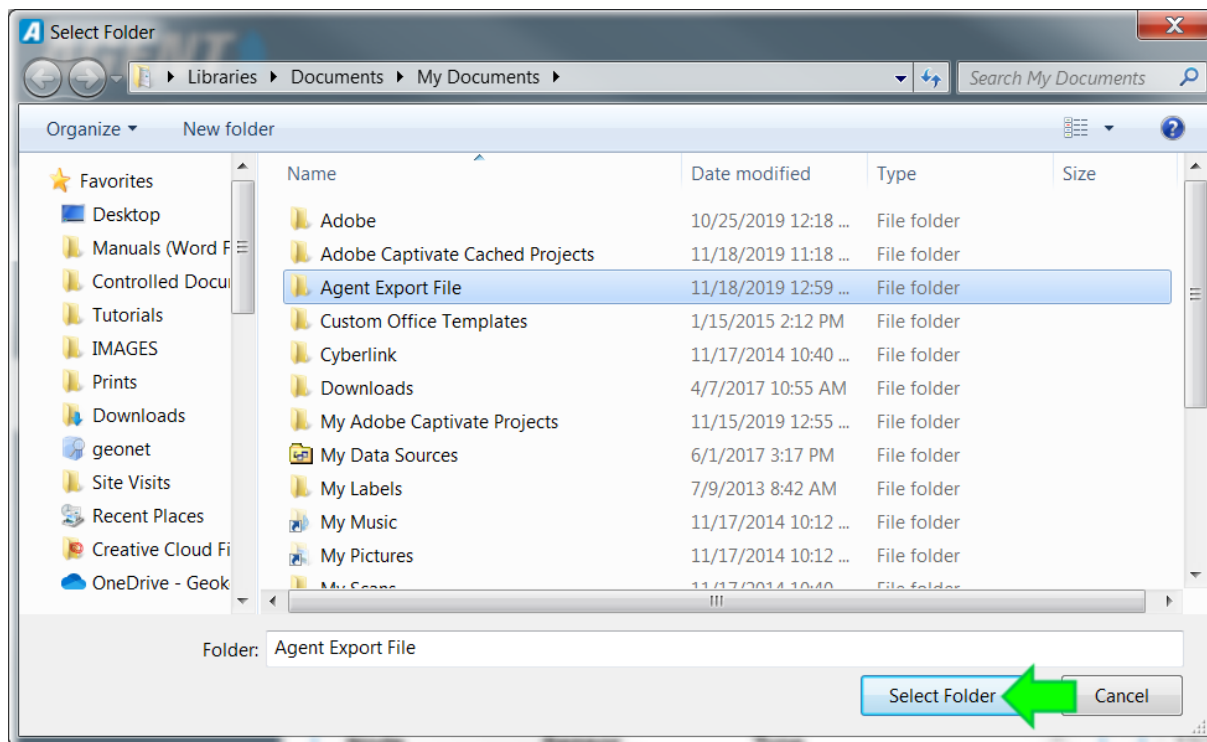
start date: 09/04/2020 end date: 09/11/2020

Export Now

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”

Automatic Export

Enable automatic Export Include Quotes

Export at a scheduled interval Export at specified Times

Start Time: 15:30

Interval: 60 Units: Minute

Times: 07:00, 11:00, 15:30

Output Directory: C:\Users\Documents\Agent Export File

Sensors being exported

Add sensors

Node	Sensor	Type	
Sample Node	Sample Reading Sensor	Reading_1	remove
Sample Node	Sample Thermistor	Therm_1	remove

Manual Export

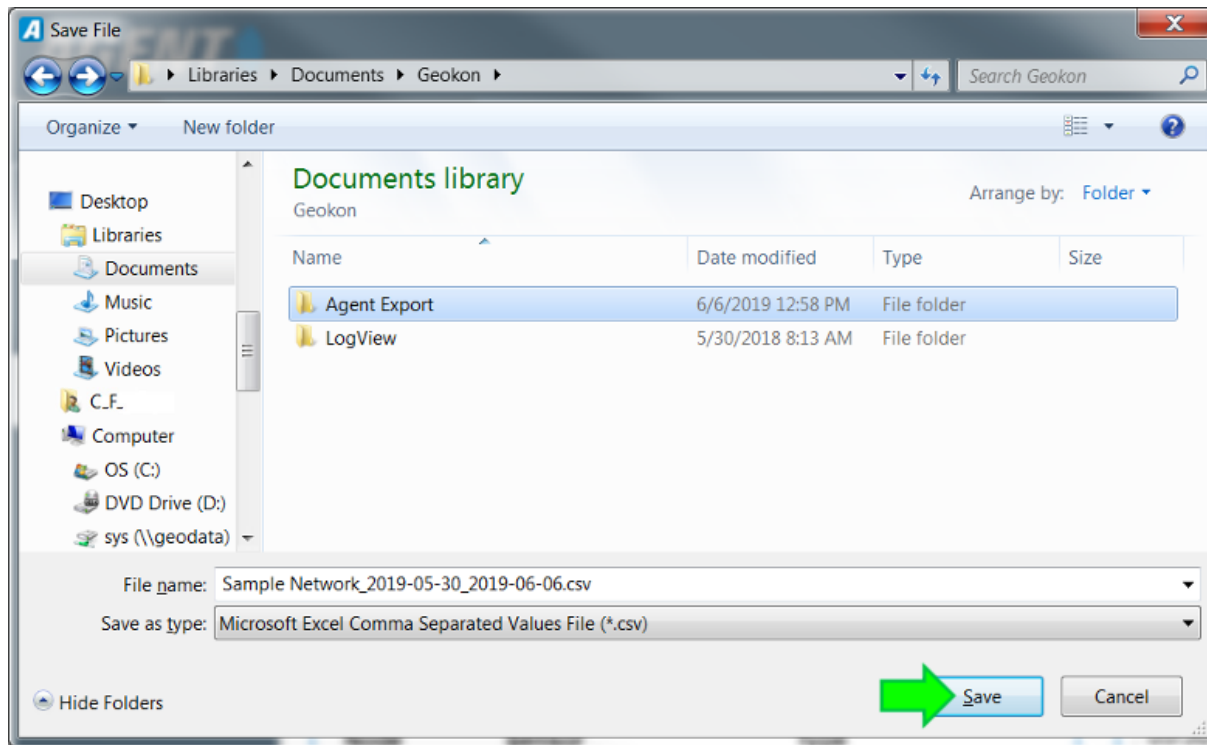
start date: 01/01/2019 end date: 06/30/2020

Export Now

Exporting Data

Manual Export (Continued)

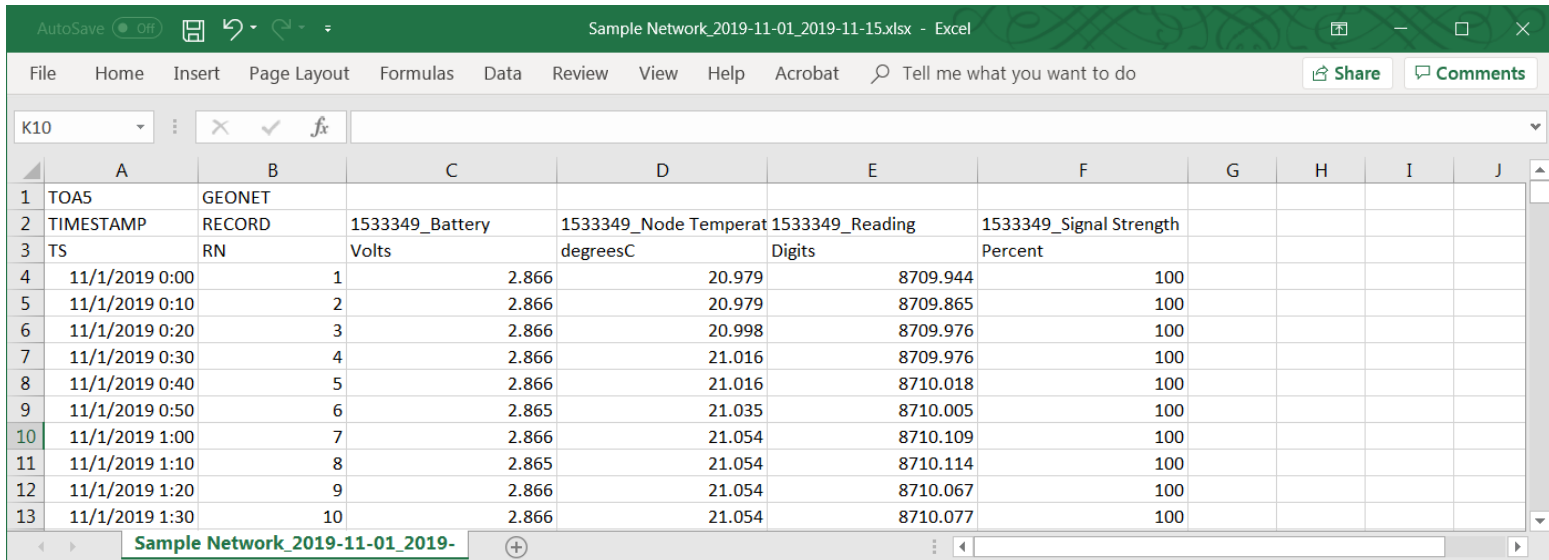
2. Select a location for the .csv file and then click “Save”



Exporting Data

Manual Export (Continued)

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

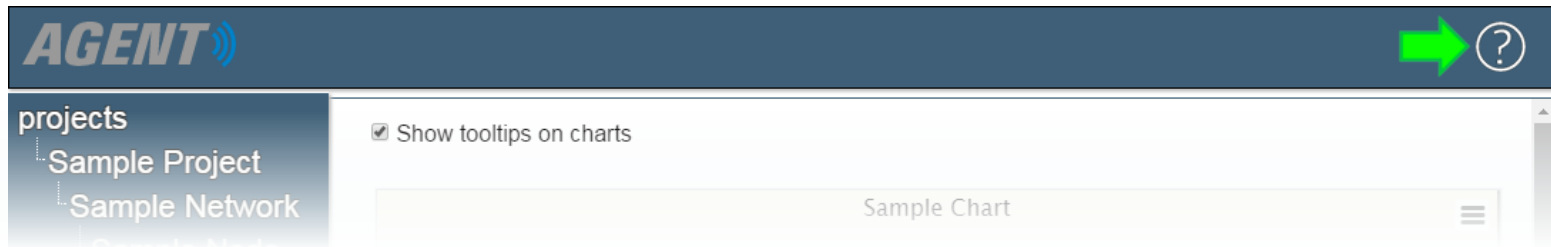


	A	B	C	D	E	F	G	H	I	J
1	TOA5	GEONET								
2	TIMESTAMP	RECORD	1533349_Battery	1533349_Node Temperat	1533349_Reading	1533349_Signal Strength				
3	TS	RN	Volts	degreesC	Digits	Percent				
4	11/1/2019 0:00	1	2.866	20.979	8709.944	100				
5	11/1/2019 0:10	2	2.866	20.979	8709.865	100				
6	11/1/2019 0:20	3	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



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