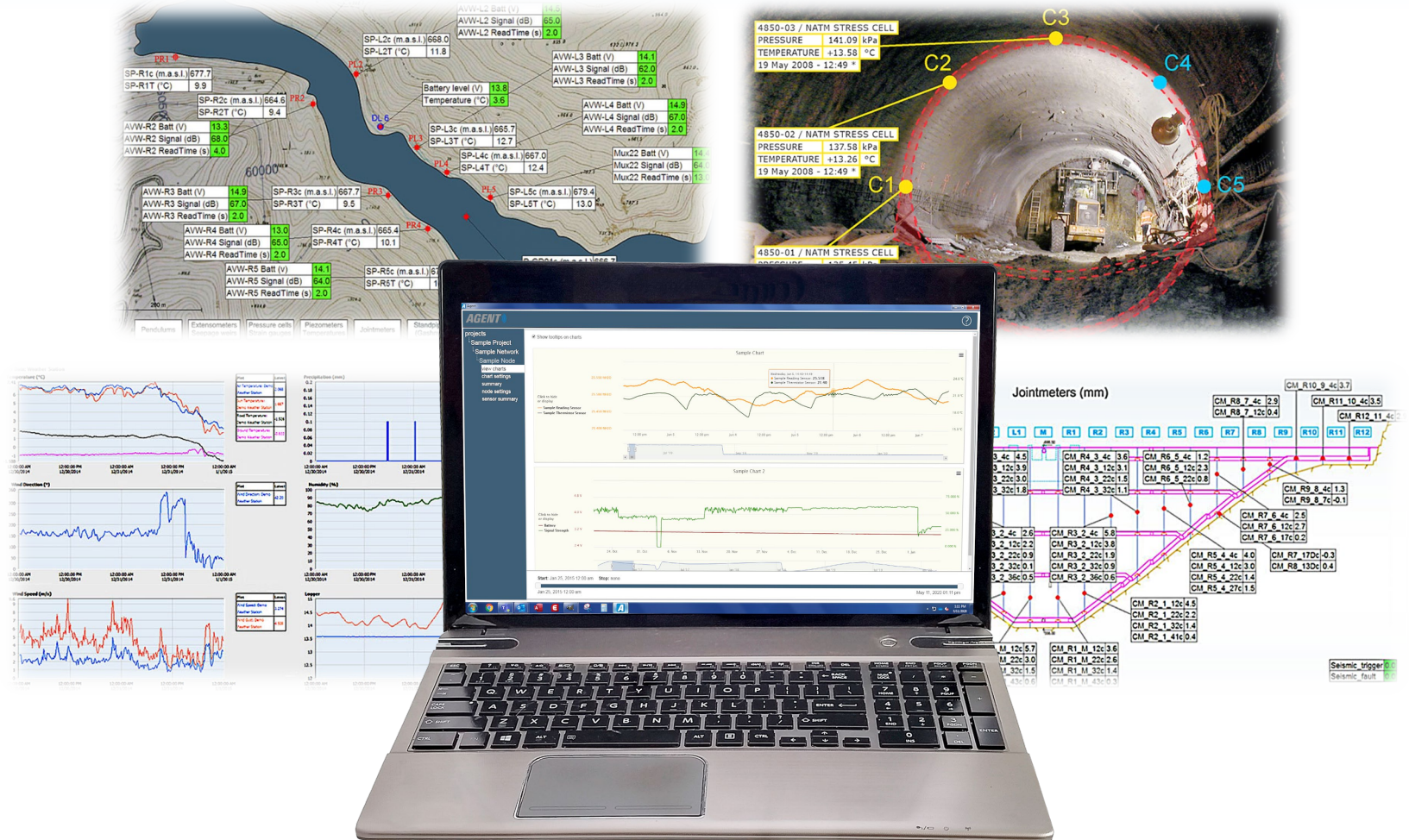





# Product Tutorial

# Exporting Data from Agent



# Before Continuing

 Prior to viewing this tutorial, please read the [Using Agent Software with GeoNet Wireless Data Hosting Systems](#) tutorial to familiarize yourself with the basics of the Agent program

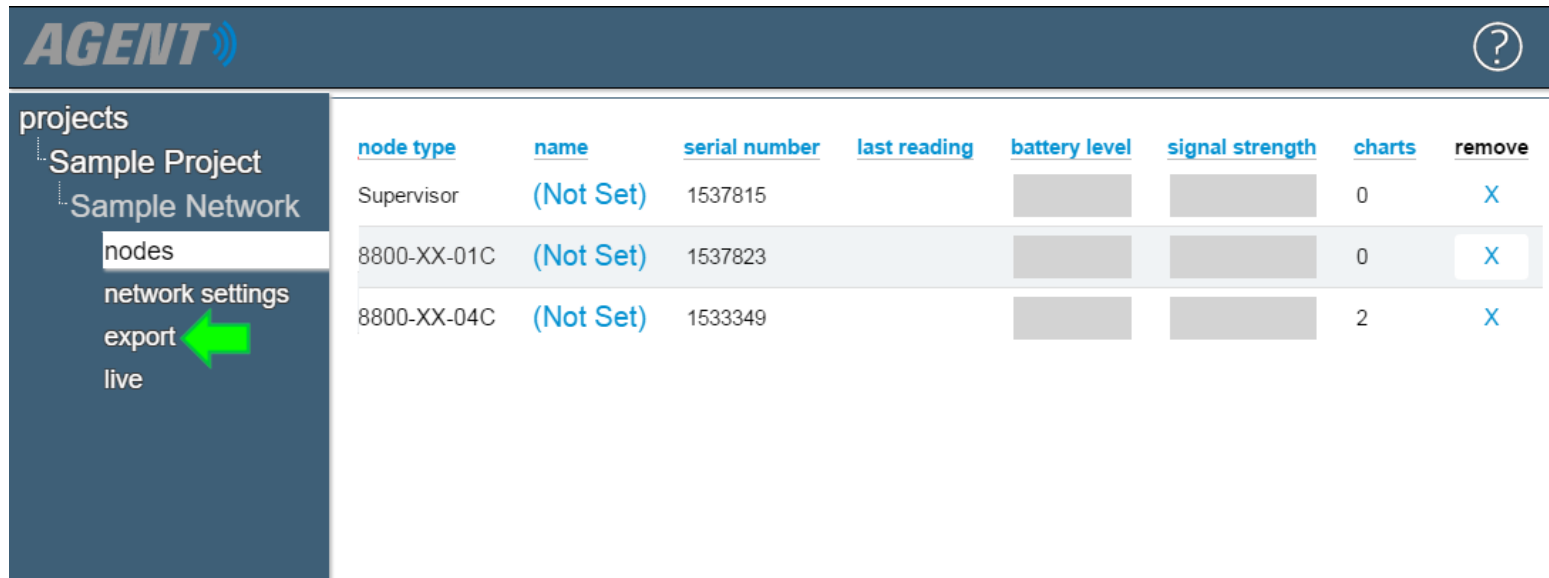
If you have not already done so, create a Project and a Network inside the Agent program for the GeoNet network that contains the data to be exported

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, a sidebar menu is open, showing a tree structure under 'projects'. The 'export' option is highlighted with a green arrow. The main content area displays a table of sensor data.

<u>node type</u>	<u>name</u>	<u>serial number</u>	<u>last reading</u>	<u>battery level</u>	<u>signal strength</u>	<u>charts</u>	<u>remove</u>
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)

- 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

projects

- Sample Project
  - Sample Network
    - nodes
    - network 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:

**Sensors being exported**

[Add sensors](#)

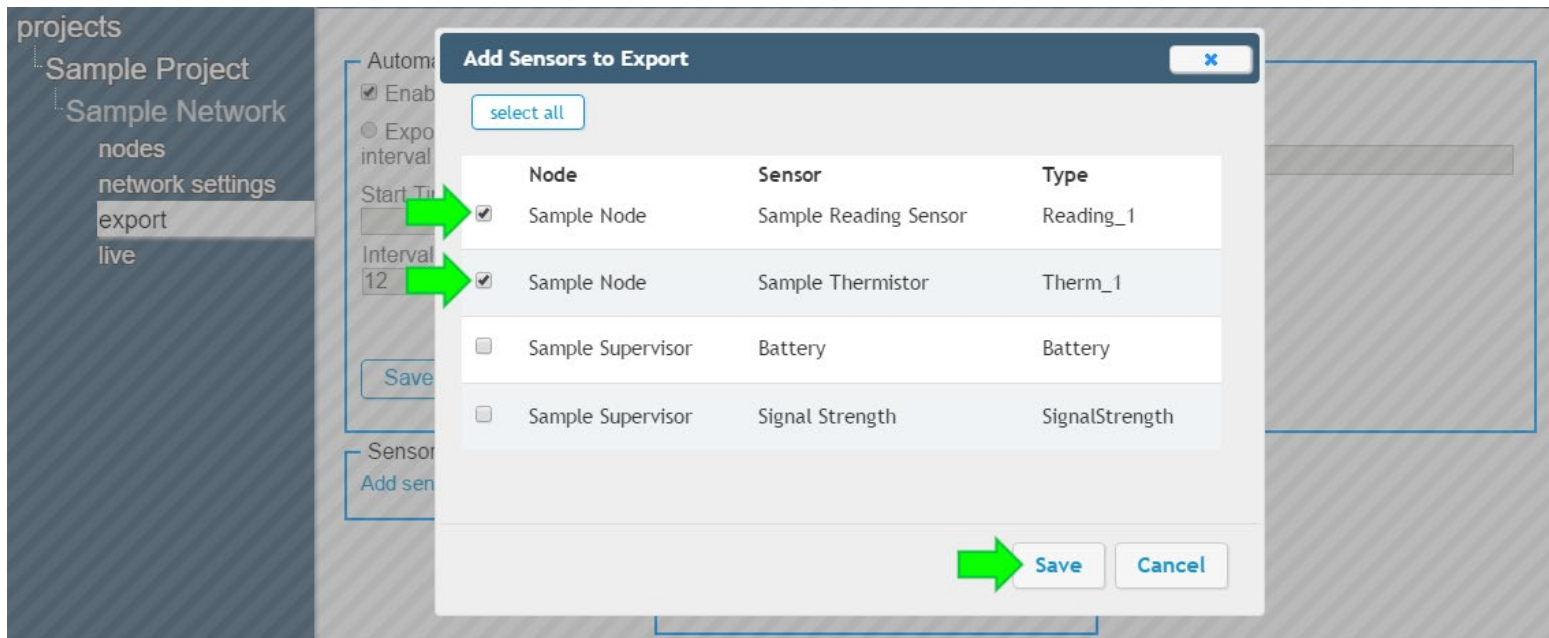
**Manual Export**

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)

4. The selected sensors will be added to the “Sensors being exported” box

The screenshot displays a web interface for exporting data. On the left is a dark blue sidebar with a menu containing '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. It has fields for 'Start Time', 'Interval' (set to 12), and 'Units' (set to Hour). There is a 'Times' grid with a '+' button to add times, and an 'Output Directory' field with a 'Browse' button. 'Save' and 'Cancel' buttons are at the bottom.
- Sensors being exported:** Features an 'Add sensors' link and a table with columns 'Node', 'Sensor', 'Type', and 'remove'. Two rows are listed and highlighted with a green border: 'Sample Node' with 'Sample Reading Sensor' (Type: Reading\_1) and 'Sample Node' with 'Sample Thermistor' (Type: Therm\_1).
- Manual Export:** Includes 'start date' (09/04/2020) and 'end date' (09/11/2020) fields, and an 'Export Now' button.

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

# Exporting Data

## Automatic Export

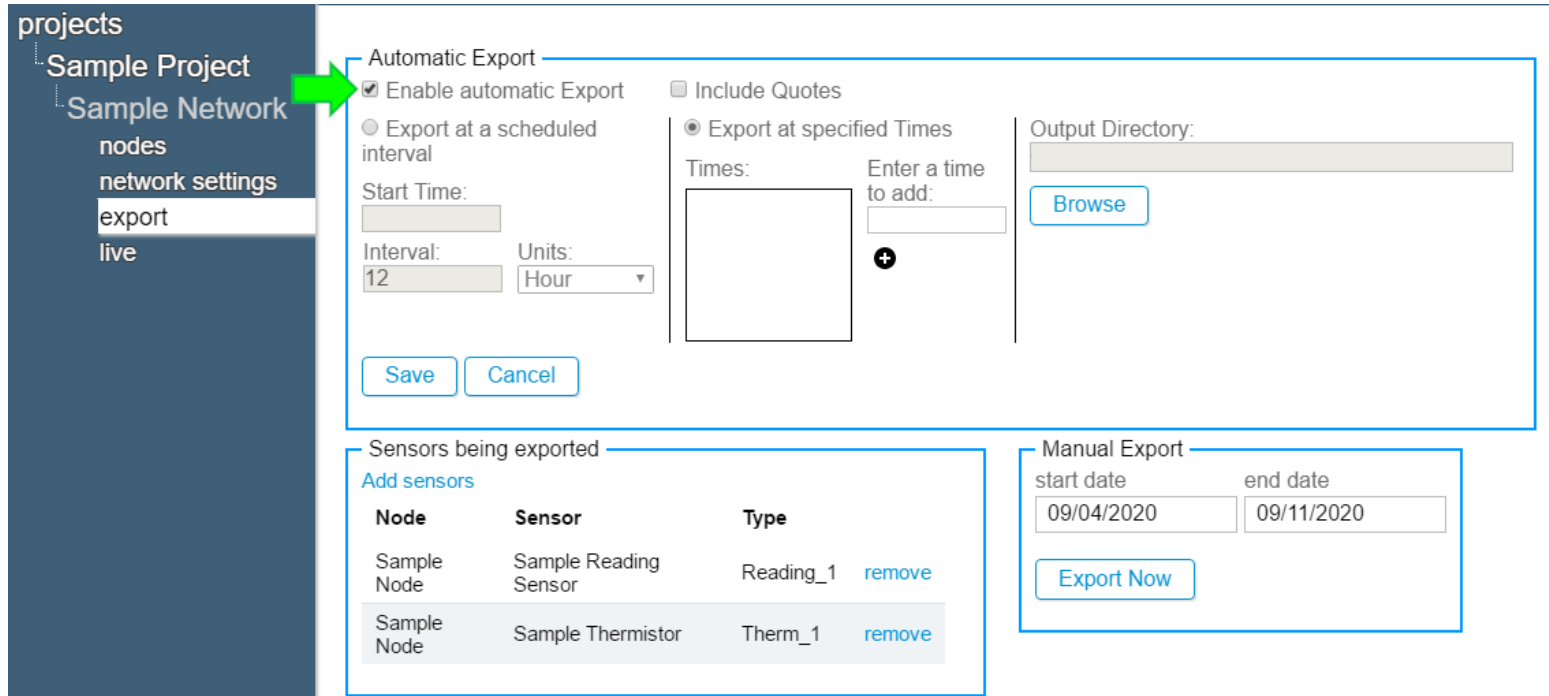
- The automatic export feature is designed to work with data management programs such as Vista Data Vision®
- The exported data file will be saved with a “.dat” extension (Most computers will require the user to choose a program with which to open this type of file)
- Data will be exported to the same 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"



**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:

**Sensors being exported**

[Add sensors](#)

Node	Sensor	Type	
Sample Node	Sample Reading Sensor	Reading_1	<a href="#">remove</a>
Sample Node	Sample Thermistor	Therm_1	<a href="#">remove</a>

**Manual Export**

start date  end date

# Exporting Data

## Automatic Export (Continued)

2. 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' settings interface. On the left is a sidebar with a tree view containing 'projects', 'Sample Project', 'Sample Network', 'nodes', 'network settings', 'export' (highlighted), and 'live'. The main area has a blue border and contains the 'Automatic Export' settings. A green arrow points to the 'Include Quotes' checkbox, which is checked. Below it, the 'Export at a scheduled interval' section is visible, showing 'Start Time' and 'Interval' (set to 12) with a 'Units' dropdown set to 'Hour'. The 'Export at specified Times' section is also visible, with a 'Times' list and an 'Enter a time to add' field with a '+' button. To the right is the 'Output Directory' field with a 'Browse' button. At the bottom, there are two sections: 'Sensors being exported' with an 'Add sensors' link and a table, and 'Manual Export' with 'start date' and 'end date' fields and an 'Export Now' button.

Node	Sensor	Type	
Sample Node	Sample Reading	Reading_1	remove

# Exporting Data

## Automatic Export (Continued)

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

**projects**

- Sample Project
  - Sample Network
    - nodes
    - network settings
    - export**
    - live

**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:  [Browse](#)

[Save](#) [Cancel](#)

**Sensors being exported**

[Add sensors](#)

Node	Sensor	Type	
Sample Node	Sample Reading Sensor	Reading_1	<a href="#">remove</a>
Sample Node	Sample Thermistor	Therm_1	<a href="#">remove</a>

**Manual Export**

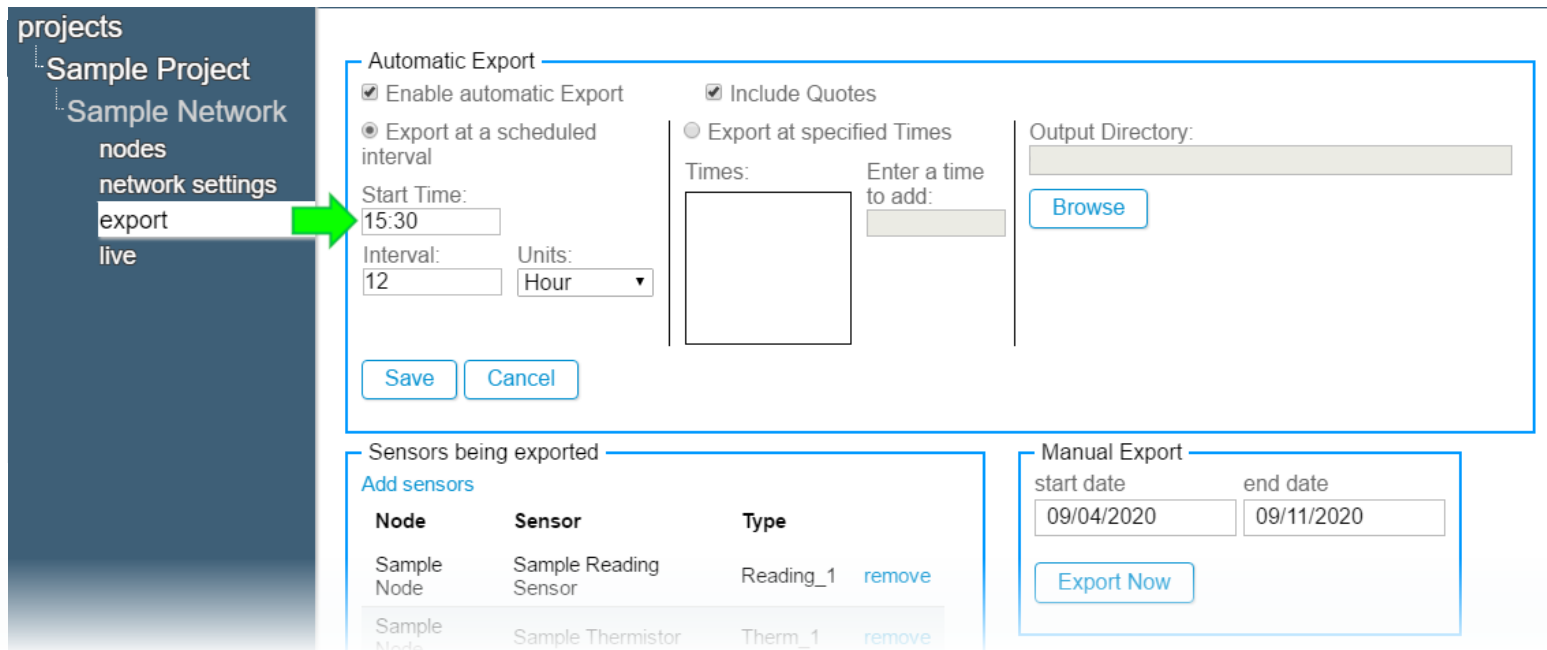
start date  end date

[Export Now](#)

# 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 is a sidebar with a tree view containing 'projects', 'Sample Project', 'Sample Network', 'nodes', 'network settings', 'export' (highlighted with a green arrow), and 'live'. The main content area is titled 'Automatic Export' and contains the following sections:

- 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](#)
  - | Node        | Sensor                | Type      |                        |
|-------------|-----------------------|-----------|------------------------|
| Sample Node | Sample Reading Sensor | Reading_1 | <a href="#">remove</a> |
| Sample Node | Sample Thermistor     | Therm_1   | <a href="#">remove</a> |
- Manual Export**
  - start date:  end date:
  -

# Exporting Data

## Automatic Export (Continued)

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

**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:  [Browse](#)

[Save](#) [Cancel](#)

**Sensors being exported**

[Add sensors](#)

Node	Sensor	Type	
Sample Node	Sample Reading Sensor	Reading_1	<a href="#">remove</a>
Sample Node	Sample Thermistor	Therm_1	<a href="#">remove</a>

**Manual Export**

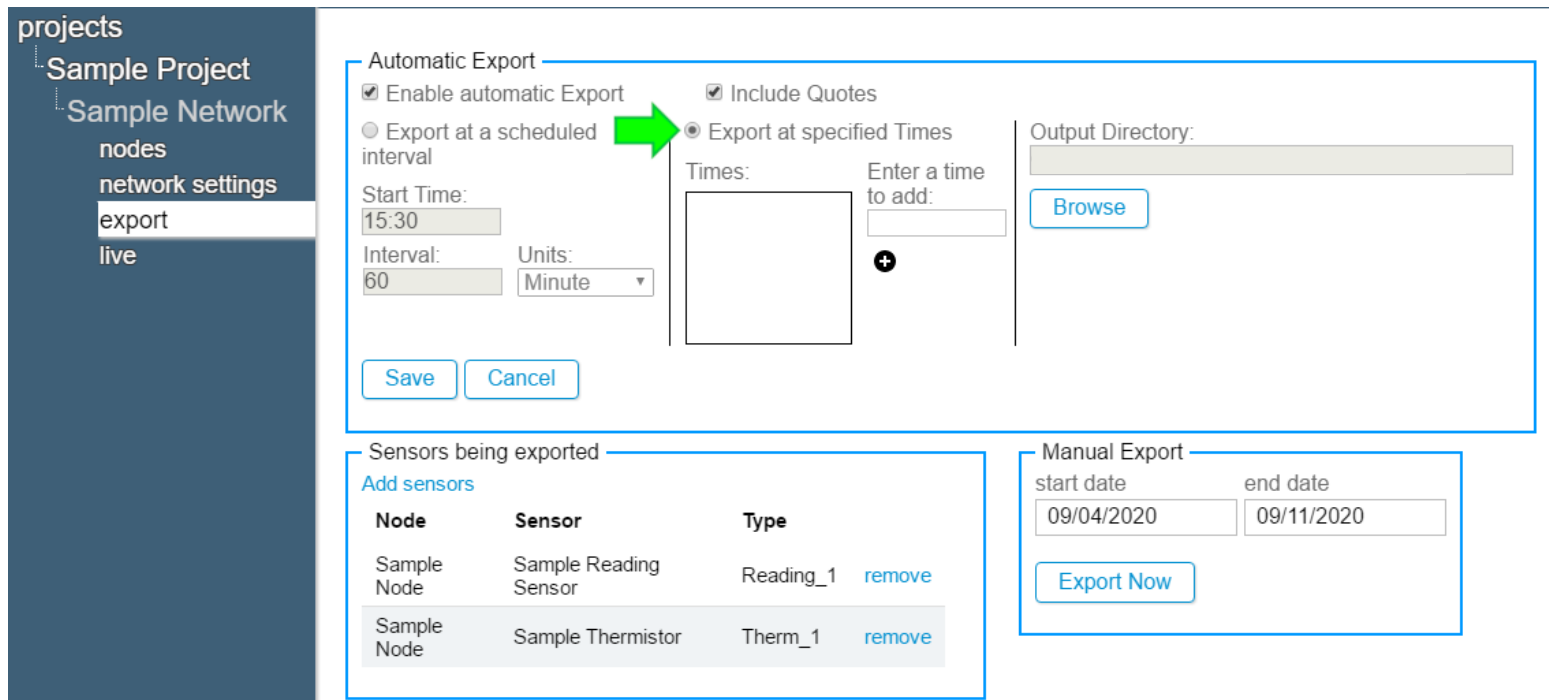
start date: 09/04/2020 end date: 09/11/2020

[Export Now](#)

# Exporting Data

## Automatic Export (Continued)

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





The screenshot shows the 'Automatic Export' configuration page. On the left is a sidebar with a tree view containing 'projects', 'Sample Project', 'Sample Network', 'nodes', 'network settings', 'export' (highlighted), and 'live'. The main content area is divided into three sections:

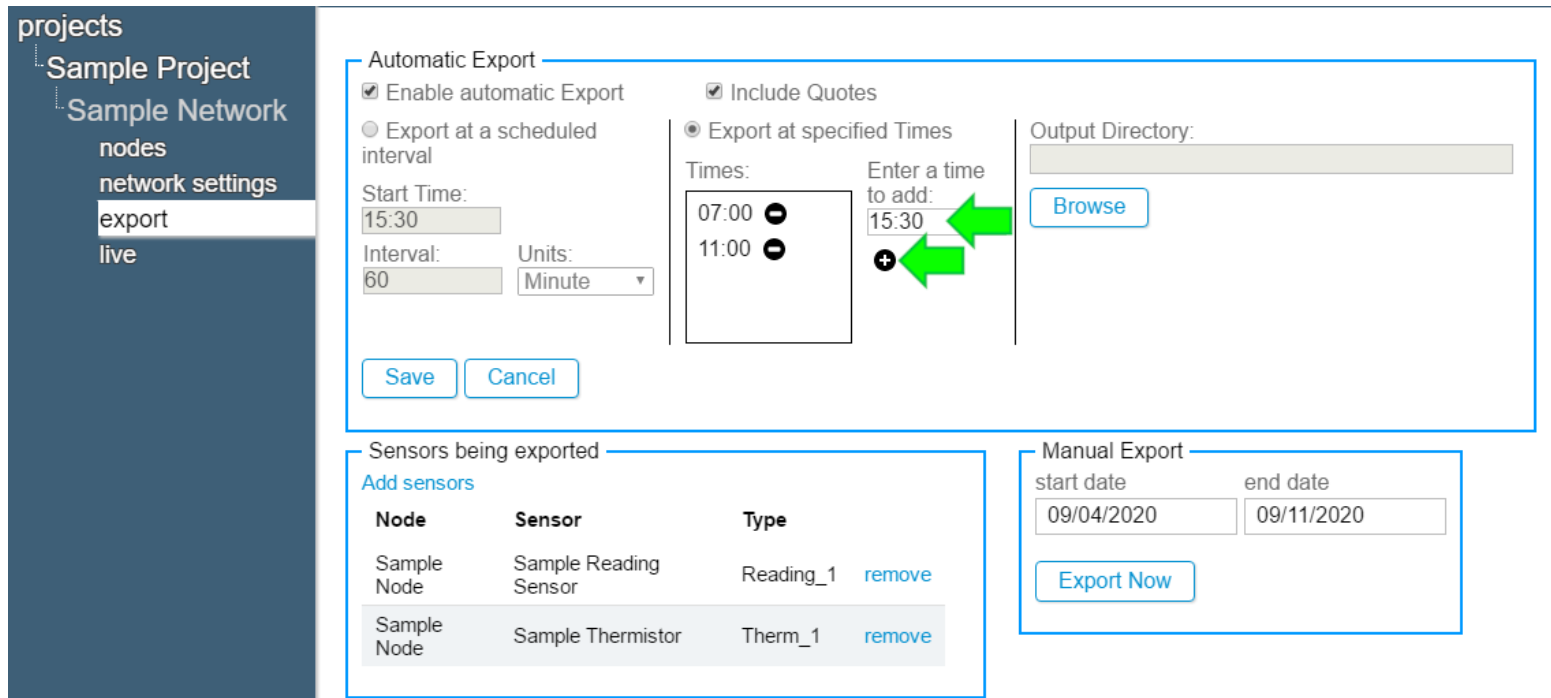
- Automatic Export**: Contains radio buttons for 'Export at a scheduled interval' and 'Export at specified Times'. The 'Export at specified Times' option is selected, indicated by a green arrow. Other options include 'Enable automatic Export' (checked), 'Include Quotes' (checked), 'Start Time' (15:30), 'Interval' (60), 'Units' (Minute), 'Times' (a list box), 'Enter a time to add' (a text input with a plus icon), 'Output Directory' (a text input with a 'Browse' button), 'Save', and 'Cancel' buttons.
- Sensors being exported**: Includes an 'Add sensors' link and a table with columns 'Node', 'Sensor', 'Type', and 'remove'.
- Manual Export**: Includes 'start date' and 'end date' text inputs, and an 'Export Now' button.

Node	Sensor	Type	
Sample Node	Sample Reading Sensor	Reading_1	<a href="#">remove</a>
Sample Node	Sample Thermistor	Therm_1	<a href="#">remove</a>

# 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: 15:30 Interval: 60 Units: Minute

Times: 07:00 - 11:00 -

Enter a time to add: 15:30 +

Output Directory:

**Sensors being exported**

[Add sensors](#)

Node	Sensor	Type	
Sample Node	Sample Reading Sensor	Reading_1	<a href="#">remove</a>
Sample Node	Sample Thermistor	Therm_1	<a href="#">remove</a>

**Manual Export**

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

# Exporting Data

## Automatic Export (Continued)

8. To set the output directory click “Browse”

**projects**  
└ **Sample Project**  
    └ **Sample Network**  
        └ nodes  
          └ network settings  
              └ **export**  
                └ live

### 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:

Output Directory:  **Browse**

**Save** **Cancel**

### Sensors being exported

[Add sensors](#)

Node	Sensor	Type	
Sample Node	Sample Reading Sensor	Reading_1	<a href="#">remove</a>
Sample Node	Sample Thermistor	Therm_1	<a href="#">remove</a>

### Manual Export

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

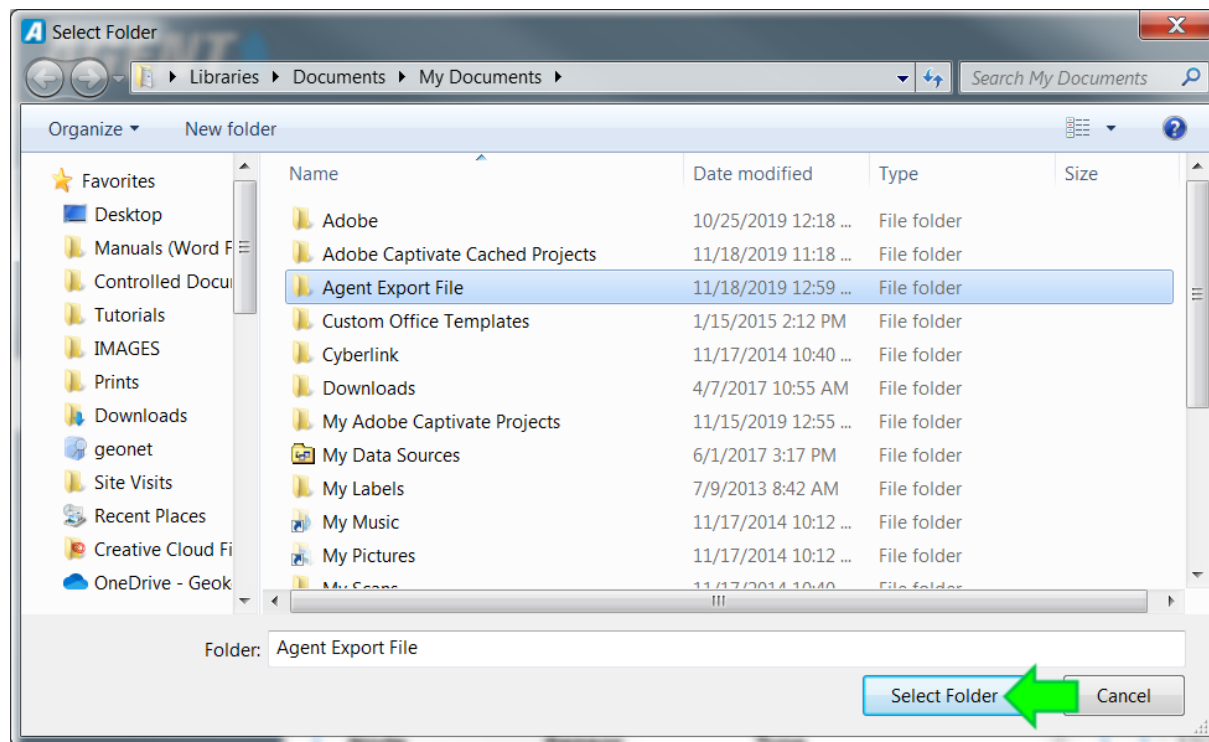
**Export Now**



# 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
1. Select a start and end date to set the date range, then click "Export now"

**projects**  
└ Sample Project  
└ Sample Network  
    └ nodes  
    └ network settings  
    └ **export**  
    └ live

**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    [Browse](#)

[Save](#)    [Cancel](#)

**Sensors being exported**

[Add sensors](#)

Node	Sensor	Type	
Sample Node	Sample Reading Sensor	Reading_1	<a href="#">remove</a>
Sample Node	Sample Thermistor	Therm_1	<a href="#">remove</a>

**Manual Export**

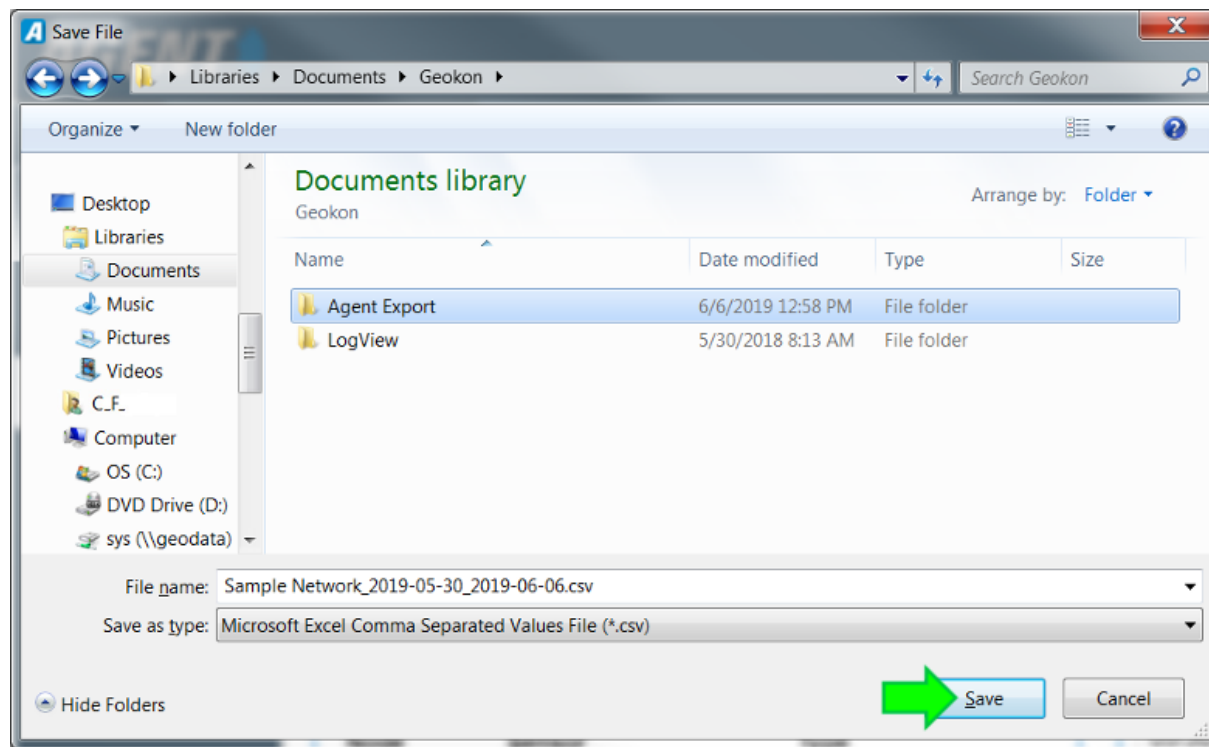
start date: 01/01/2019    end date: 06/30/2020

[Export Now](#)

# Exporting Data

## Manual Export (Continued)

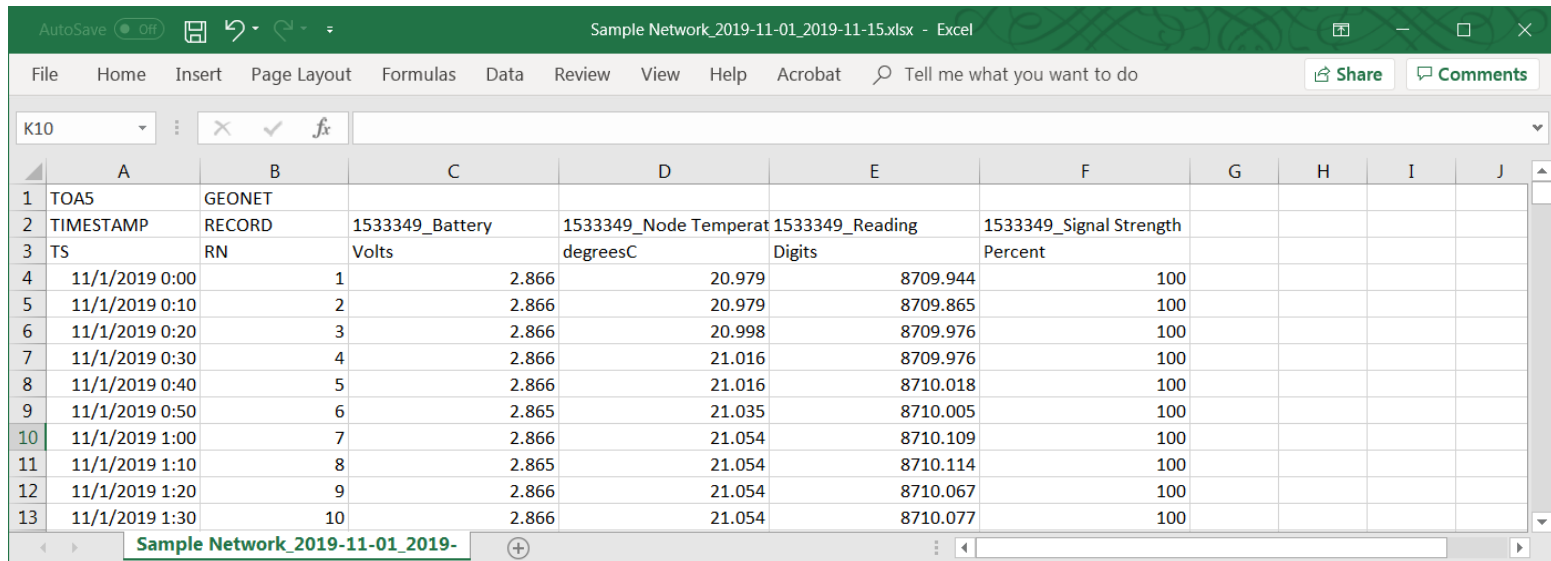
2. Select a location for the .csv file and then click “Save”



# Exporting Data

## Manual Export (Continued)

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

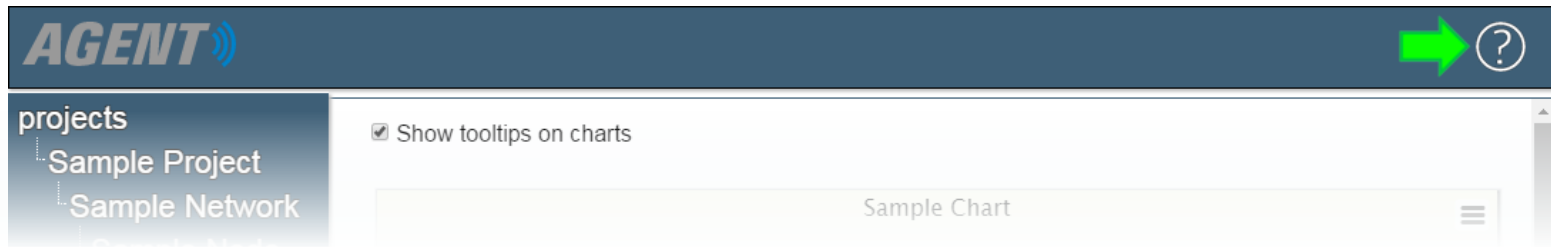


	A	B	C	D	E	F	G	H	I	J
1	TOA5	GEONET								
2	TIMESTAMP	RECORD	1533349_Battery	1533349_Node Temperat	1533349_Reading	1533349_Signal Strength				
3	TS	RN	Volts	degreesC	Digits	Percent				
4	11/1/2019 0:00	1	2.866	20.979	8709.944	100				
5	11/1/2019 0:10	2	2.866	20.979	8709.865	100				
6	11/1/2019 0:20	3	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](http://www.geokon.com/Manuals)
- Please visit [www.geokon.com/Tutorials](http://www.geokon.com/Tutorials) for more tutorials