GEOKON TRUSTED MEASUREMENTS®

Product Tutorial

Exporting Data from Agent



Before Continuing

Prior to viewing this tutorial, please read the "<u>Using GeoNet</u> <u>Wireless Data Hosting Systems and Agent Software</u>" 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"

AGENT»								?
projects Sample Project Sample Network	node type Supervisor	name (Not Set)	serial number 1537815	last reading	battery level	signal strength	<mark>charts</mark> 0	remove X
nodes network settings export live	8800-XX-01C 8800-XX-04C	(Not Set) (Not Set)	1537823				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 □ Include Quotes
	Sensors being exported Manual Export Add sensors start date 09/04/2020 09/11/2020 Export Now

Exporting Data Adding Sensors (Continued)

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

projects			*********		
Sample Project	Enab	select all		×	
nodes network settings	© Expo interval Start Tit	Node Sample Node	Sensor	Type Reading 1	
live	Interval 12	 Sample Node Sample Node 	Sample Thermistor	Therm_1	
	Save	Sample Supervisor	Battery	Battery	
	- Sensor Add sen	Sample Supervisor	Signal Strength	SignalStrength	
			=,	Save Cancel	

Exporting Data Adding Sensors (Continued)

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

projects Sample Project Sample Network nodes network settings export live	Automatic Export Enable automatic Export Export at a scheduled interval Start Time: Interval: Units: 12 Save Cancel	 □ Include Quotes ● Export at specified Times Times: Enter a time to add: ● 	Output Directory: Browse	
	Sensors being exported Add sensors Node Sensor Sample Sample Reading Node Sensor Sample Sample Reading Node Sensor	Type ^{ng} Reading_1 remove istor Therm_1 remove	Manual Export start date end da 09/04/2020 09/11 Export Now	ite /2020

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

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



 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)

nodes network settings export live	 Export at a scheduled interval Start Time: Interval: Units: 12 Hour Save Cancel 	Export at specified Times Times: Enter a time to add:	Output Directory: Browse		
	– Sensors being exported – Add sensors Node Sensor	Туре	Manual Export – start date 09/04/2020	end date 09/11/2020	

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 Export at a scheduled interval Start Time: Interval: Units: 12 Units: Save Cancel	 ✓ Include Quotes ● Export at specified Times Times: Enter a time to add: 	Output Directory: Browse	
	Sensors being exported Add sensors Node Sensor Sample Sample Read Node Sensor Sample Sample Read Node Sensor Sample Sample Read Node Sensor	Type ding Reading_1 remove mistor Therm_1 remove	Manual Export start date end date 09/04/2020 09/11/2020 Export Now	_

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)

projects		
Sample Project	Automatic Export Include Quotes	1
Sample Network nodes	Export at a scheduled interval Uexport at specified Times Output Directory: Directory: Enter a time	
network settings export	Start Time: 15:30 Enter a time to add: Browse Browse	ſ
live	Interval: Units: 12 Hour Save Cancel	
	- Sensors being exported	1
	Add sensors start date end date	
	Node Sensor Type	
	Sample Sample Reading Reading_1 remove Export Now	
	Sample Sample Thermistor Therm_1 remove	

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



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



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

projects Sample Project Sample Network nodes network settings export live	Automatic Export Enable automatic Export Export at a scheduled interval Start Time: 15:30 Interval: Units: 60 Units: Save Cancel	 ✓ Include Quotes ● Export at specified Times Times: 07:00 ● 11:00 ● 	Output Directory: Browse
	Sensors being exported Add sensors Node Sensor Sample Sample Reading Node Sensor Sample Sample Reading Node Sensor	Type Reading_1 remove tor Therm_1 remove	Manual Export start date 09/04/2020 09/11/2020 Export Now

8. To set the output directory click "Browse"



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



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	- Automatic Export
Sample Project	Enable automatic Export
Sample Network	Export at a scheduled interval Export at specified Times Times: Enter a time C:\Users\Documents\Agent Export File
nodes network settings export live	Start Time: 15:30 Interval: Units: 60 Minute
	Save Cancel Sensors being exported Manual Export Add sensors start date Node Sensor Sample Sample Reading
	Node Sensor Reading_1 remove Sample Node Sample Thermistor Therm_1 remove

Exporting Data Manual Export (Continued)

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

A Save File				X
C C V Libraries	Documents 🕨 Geokon 🕨		🔻 🍫 Search	h Geokon 🛛 🔎
Organize New folder				II • 👔
Desktop	Documents library Geokon		Arran	ge by: Folder -
Documents	Name	Date modified	Туре	Size
🕹 Music	🗼 Agent Export	6/6/2019 12:58 PM	File folder	
 Pictures Videos C.F. Computer OS (C:) DVD Drive (D:) sys (\\geodata) + 	👢 LogView	5/30/2018 8:13 AM	File folder	
File name: Sample	e Network_2019-05-30_2019-06-06.csv			-
Save as type: Microse	oft Excel Comma Separated Values File (*.csv)			•
🔿 Hide Folders		_	<u>S</u> ave	Cancel

Exporting Data Manual Export (Continued)

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

A		D '	9• 🖓 •		Sample Network_2019-11	01_2019-11-15.xlsx - Excel			T	\geq	ey X	\sim
Fi	le Home	Insert	Page Layou	t Formulas Data	Review View Help	Acrobat 🔎 Tell me w	hat you want to do		🖻 Shar	e 🖓 Co	mments	s
K1	0 -	: ×	$\checkmark f_x$									*
	А		В	С	D	E	F	G	Н	Ι	J	
1	TOA5	GEO	ONET									
2	TIMESTAMP	REC	CORD	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					-
Sample Network_2019-11-01_2019- ⊕												

- ► 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

AGENT»		■?
projects Sample Project	Show tooltips on charts	
Sample Network	Sample Chart	=

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

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