Configuring Sensors on EpiSensor Nodes

Document Ref: EPI-174-00

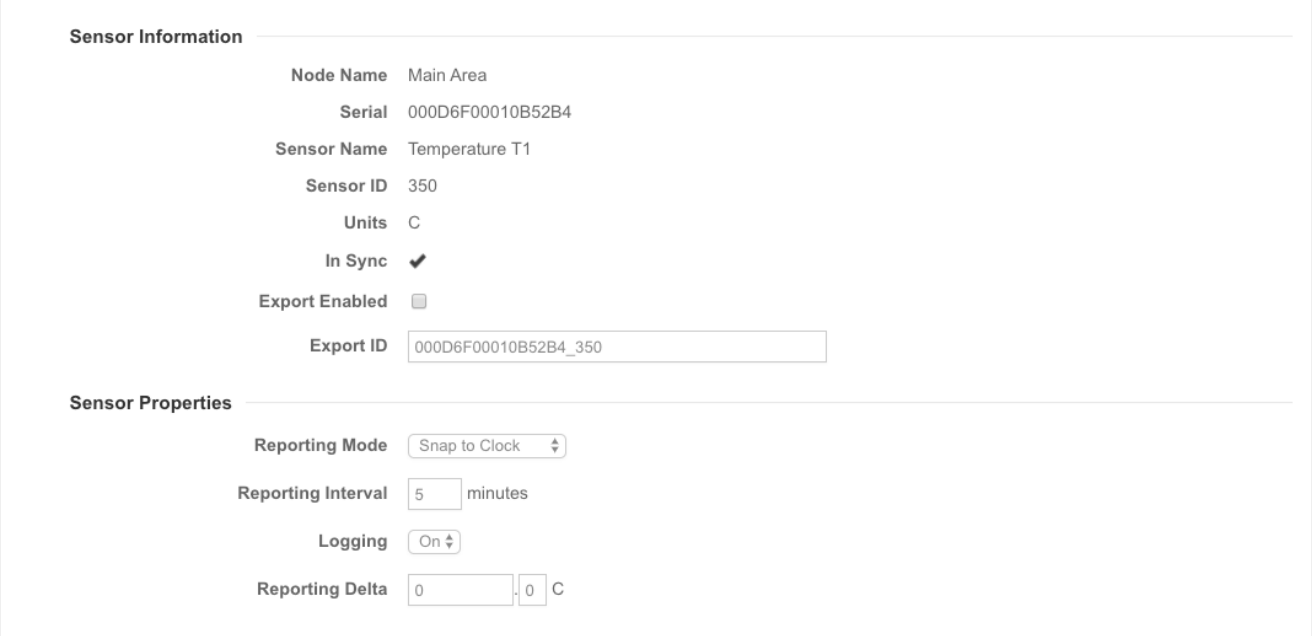
Related Documents

Related installation and configuration documents are listed in the following table:

Document	Reference No.
Gateway User Guide	EPI-075-03

Accessing Sensor Settings

On the EpiSensor Gateway web interface, click on the Nodes link in the top navigation bar and select Action > Settings to access the settings page for the node you would like to configure. In the 'Sensors' section, select Action > Settings on the sensor that you would like to configure, and the following interface will be shown:



Sensor Information

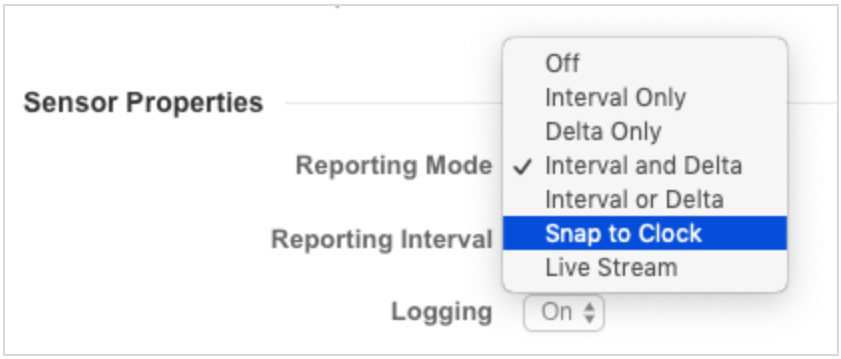
The following table describes each field in the 'Sensor Information' section.

Parameter	Description
Node Name	A user-configurable friendly name for the node that defaults to the node's serial number.
Serial	A 16-digit worldwide unique address based on the MAC address of the ZigBee radio in the node.
Sensor Name	The name of the Sensor that is producing data.
Sensor ID	A unique ID assigned to each sensor name. See EpiSensor's sensor mapping table for more information.
Units	The units that the sensor will report data in. This can change depending on the sensor configuration, e.g. from Celsius to Fahrenheit
In Sync	An indication of whether the settings on the sensor/node match the settings on the Gateway. A sensor will not be in sync if there is a command pending.
Export Enabled	Whether data from the sensor should be exported to an external software application by the Gateway
Export ID	A unique ID that defaults to a combination of the node serial number and the sensor ID, delimited by an underscore ("_")

Sensor Properties

The following table describes each field in the 'Sensor Properties' section.

Parameter	Description
Reporting Mode	This defines how the sensor should report data. There are 7 options in total, but the 3 most commonly used are: - Interval and Delta - Snap to Clock - Live Stream

	 Interval and Delta will produce a data point under two conditions: (1) whenever a change of state is detected and (2) whenever the reporting interval elapses. The Reporting Delta defines the amount by which a sensor value has to change to trigger a data point to be produced. Snap to Clock will produce a data point 'at the top of the minute' - i.e. with no seconds offset based on whatever the Reporting Interval is set to. Live Stream will override both the reporting interval, and reporting delta settings and simply send a data point once per second. This is the maximum data resolution supported, but it can cause a large amount of sensor data to be produced. If the reporting mode is set to **"Off"**, this sensor will not report data. For more information on the other reporting modes, see the Gateway User Guide.
Reporting Interval	The length of time (in minutes) between each data point produced by a sensor.
Logging	If logging is enabled the sensor will log data when the Gateway is not available and then report the data as soon as the Gateway comes on-line again.
Reporting Delta	This defines the amount that the sensor value needs to change by to trigger a data point, if the sensor has been configured for Delta reporting.