



CONFIGURATOR USER GUIDE

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Introduction

Configurator software is installed on a water technician's laptop to enable i2O loggers to be configured and deployed on the water network. It enables direct communication with i2O Loggers via a proprietary Configurator Cable that connects to the laptop's USB socket. The i2O software platform communicates with i2O Loggers using mobile network services, depending in the logger variant you have that may be 2G, 3G, LTE-M or NB-IoT. This document describes how to use Logger Configurator software to configure loggers that will communicate with i2O's software platform.

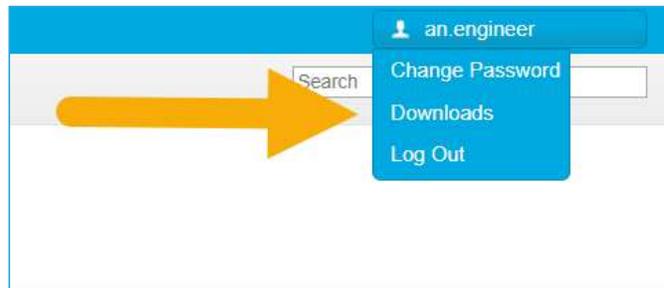
Loggers are configured using the Configurator application installed on a technician's laptop, which connects to the Logger via a proprietary USB cable. Logger name, pressure offset (if required) and flowmeter scaling (where applicable) are configured locally using Configurator. Configurator shows pressure and voltage in real-time, and also allows the user to initiate an immediate logger connection.

After connecting, the logger connects to the i2O Platform via the Internet and receives further settings, such as connection frequency, logging frequency and alarm configuration from the platform.

Installation

Download

Download Configurator from your i2O Platform and install on the laptop used for direct connection to the logger. From the platform menu, select Downloads:



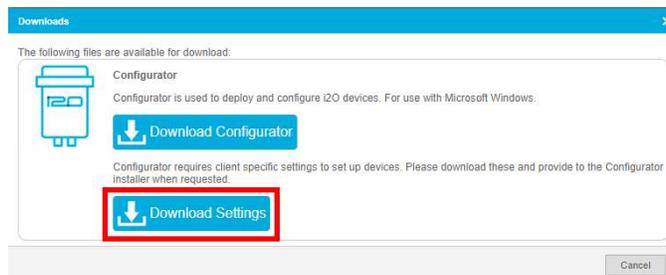
A pop-up will appear giving you options to download Configurator and the relevant Settings files. To make the installation go more smoothly, we recommend that you save the settings file in the same folder as the installer.

Install

Download Configurator from your i2O Platform and install on the laptop used for direct connection to the logger

 *Only select the 'Include support for i2O Enterprise' checkbox if you are using dNet Enterprise. For more information on i2O Enterprise please contact support@i2owater.com*

You will also need your platform settings files which are used by Configurator when configuring the logger:

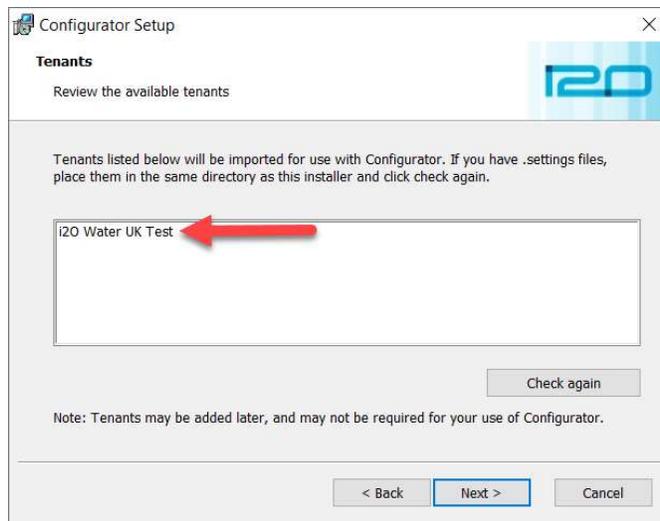


After the download is complete, run the installer.

Configure

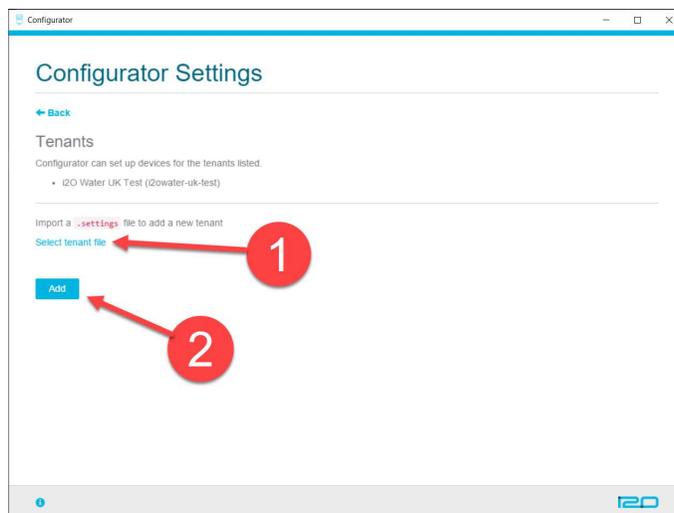
Load Settings File

During the installation, confirm that the settings file matches your company details:



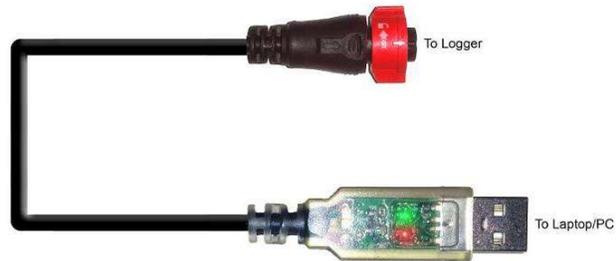
If everything looks OK, click Next to continue the installation.

When moving i2O Loggers between different companies, you will need to add the new 'tenant' settings file before connecting the Logger. To do this, simply click '**Configurator settings,**' click on '**Select tenant file**' and click '**Add**'



Connect the Logger to a Laptop

Use the Configurator cable to connect your logger to the laptop



Ensure both arrows on the cable and logger are aligned before inserting the cable, failure to do this can lead to damage to the connector

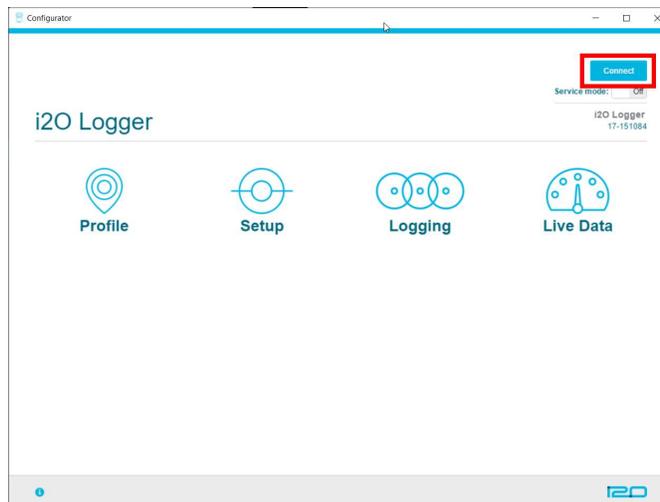


Device driver prompts may appear, ignore these, as no additional drivers are needed for the logger.

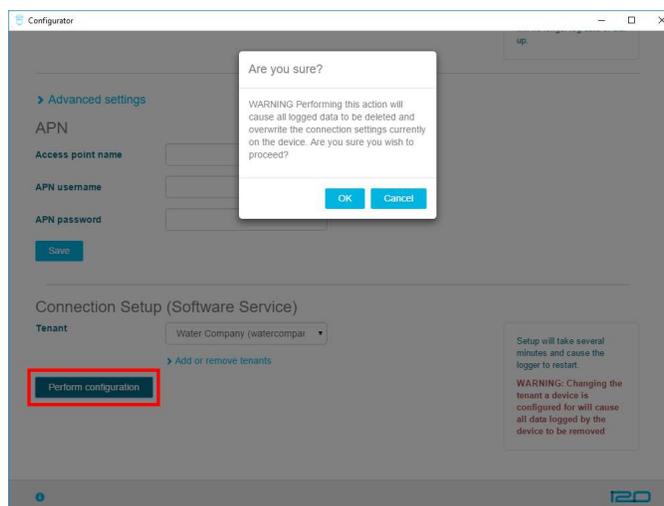
Configure the logger

Connect the logger to your laptop. When the logger is detected, the Configurator home screen will appear. Click 'Setup logger'

 *The 'Setup logger' function is not required for Logger 14*

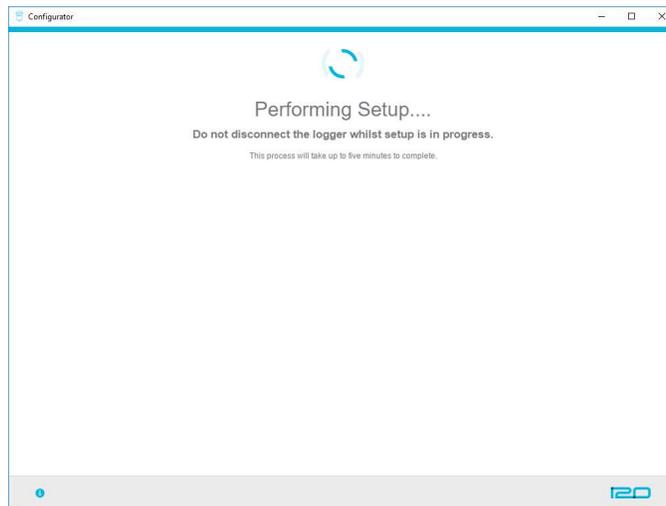


Click the 'Perform configuration' button to start the logger configuration sequence. A confirmation message will appear, be sure to read the contents of the message before continuing. This configuration securely assigns the logger to your water company's i2O platform.

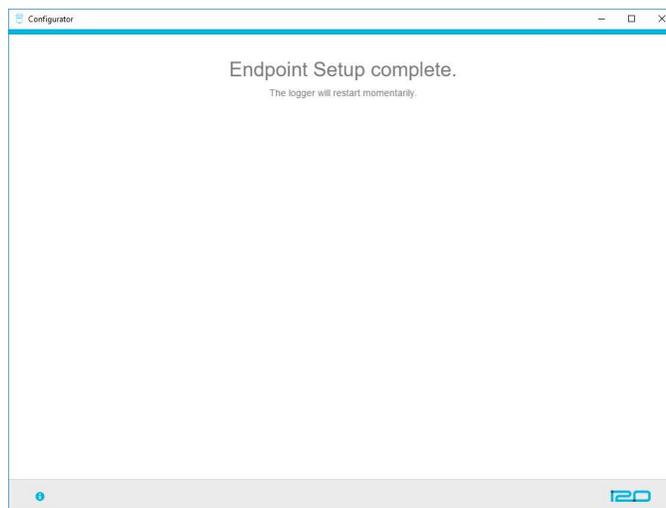


 *This procedure will remove all recorded data from the device. Any existing settings files will be overwritten.*

Wait while the logger completes the setup process



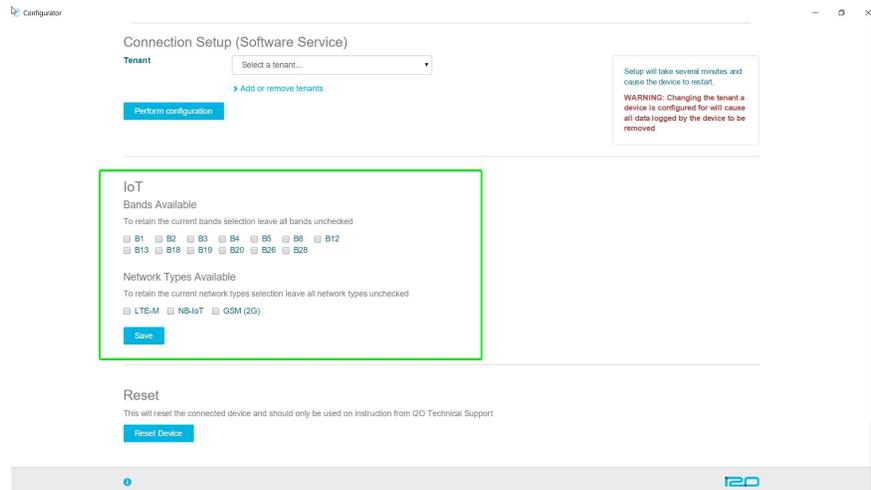
When the process is complete, a message showing this will appear on the Configurator screen



The logger will restart automatically and Configurator will go back to showing the home screen.

IoT device settings

When working with an IoT (Internet of Things) Logger, you will need to configure which network type(s) are available in your location, and which band(s) they use. These options are in the “Advanced Settings” menu:



“Network Types Available” allows you to select which network type(s) will be searched for a connection. Please contact your SIM provider for which network types are available in the location your device will be installed:

Network Types Available

To retain the current network types selection leave all network types unchecked

LTE-M NB-IoT GSM (2G)

The “Bands Available” option, allows you to select which bands are available from the mobile network operator for LTE-M and/or NB-IoT. Check with your SIM provider for which band(s) to set. Select as few as possible as this will ensure fast connections and minimum battery consumption. Selecting many bands could lead to premature battery failure:

IoT

Bands Available

To retain the current bands selection leave all bands unchecked

B1 B2 B3 B4 B5 B8 B12
 B13 B18 B19 B20 B26 B28

After setting the bands and network types, you **MUST** press the “Save” button to save the settings to the device.

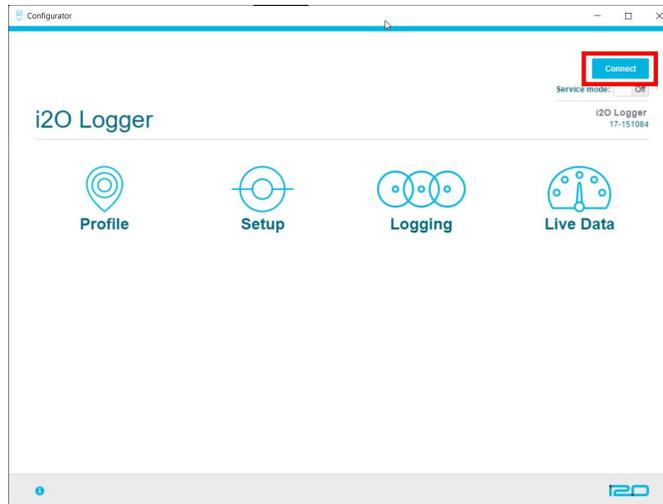


*For any network type you may need to use an **APN** if your SIM provider has one. If you are unable to set the **APN** for your device please contact i2O Support.*

Connecting to the platform

Force a connection

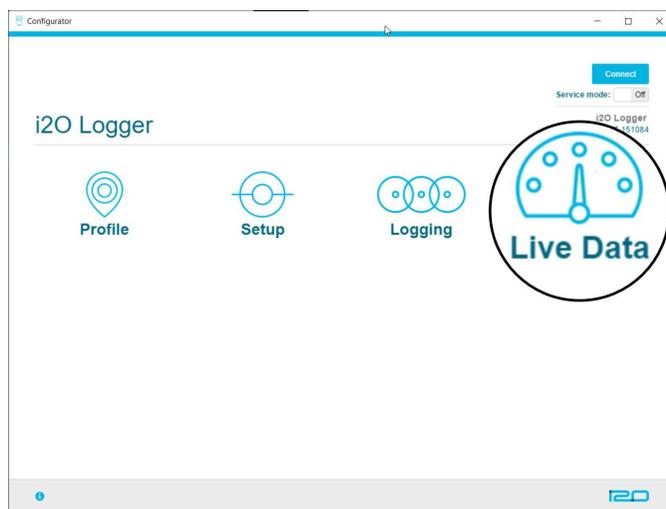
Click the connect button to allow the logger to download its configuration files from the Platform. The connect button changes to an animation sequence of status messages as it completes the different stages of the connection process.



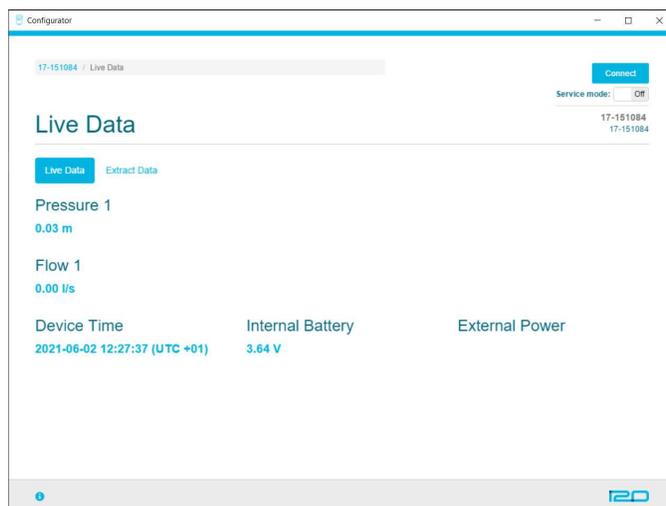
Additional features

Viewing live data

Live device behaviour is available from the Live Data screen.



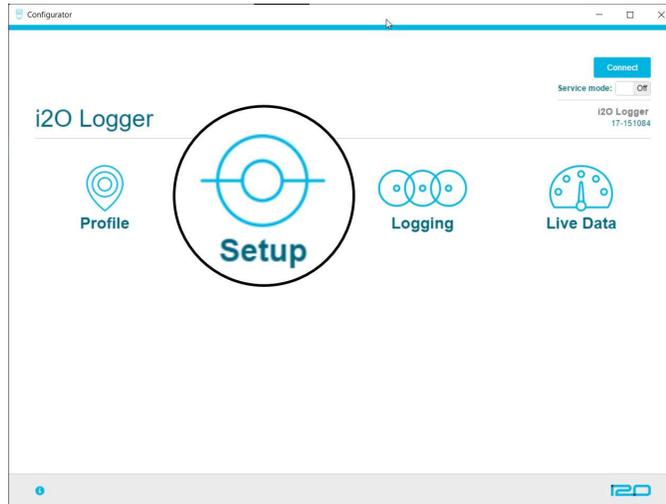
Here you can view information including current signal strength, logger name and serial no, along with live pressure, flow and battery voltage readings during the deployment process.



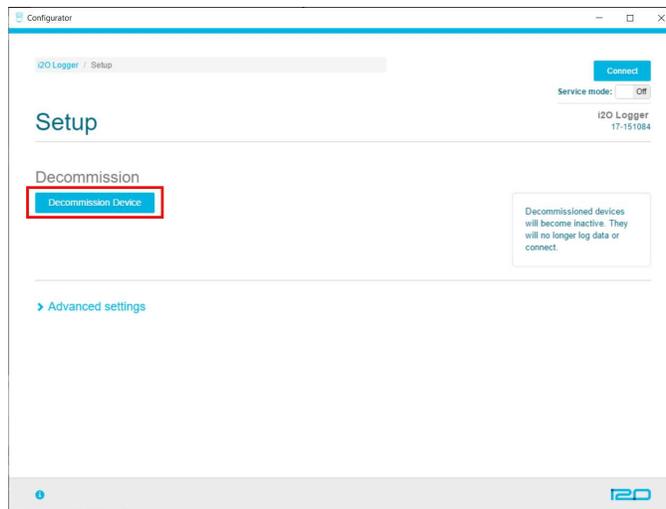
The Live Data page also allows you to extract local data from the device. Using this method up to 6 weeks of flow and pressure data can be downloaded from the logger to your laptop.

Decommissioning

The logger can be decommissioned if it is no longer in use, or temporarily being placed into storage. To do this enter the “Setup” menu:



Select the “Decommission Logger” button. Decommissioning the logger removes its scheduled connections and disables all logging. This prevents spurious data from being recorded and extends battery life.



Advanced settings are not normally needed and should only be used if advised by i2O Technical Support.