

Configure iChart for FTP Data Download from WQData LIVE

Step 1- WINSOCP Setup

Step 2- Task Scheduler Setup

Step 3- WQData LIVE Report Setup

Step 4- iChart Import Setup

Step 1- WINSCP Setup

Download the WINSCP package from <http://www.nexsens.com/downloads/WINSCP.zip>

Extract the downloaded WINSCP folder into the root C:/ drive

Open "getscript.txt" inside the WINSCP folder and modify username, password, and server with your information, keeping the format of `ftp://username:password@server.com/`

```
getscript.txt - Notepad
File Edit Format View Help
# Automatically abort script on errors
option batch abort

# Disable overwrite confirmations that conflict with the previous
option confirm off

# Connect
open ftp://username:password@server.com/

# Change remote directory
cd /directory|

# Download file to the local directory
get * -delete C:\WINSCP\downloaded_data\

# Disconnect
close

# Exit WinSCP
exit
```

Step 1- WINSCP Setup

If the files are not being pushed to the root directory of your ftp server, modify the "cd /directory" line with your path

If no directory is used, delete the "cd /directory" line

Save the file once complete

```
getsript.txt - Notepad
File Edit Format View Help
# Automatically abort script on errors
option batch abort

# Disable overwrite confirmations that conflict with the previous
option confirm off

# Connect
open ftp://username:password@server.com/

# Change remote directory
cd /directory

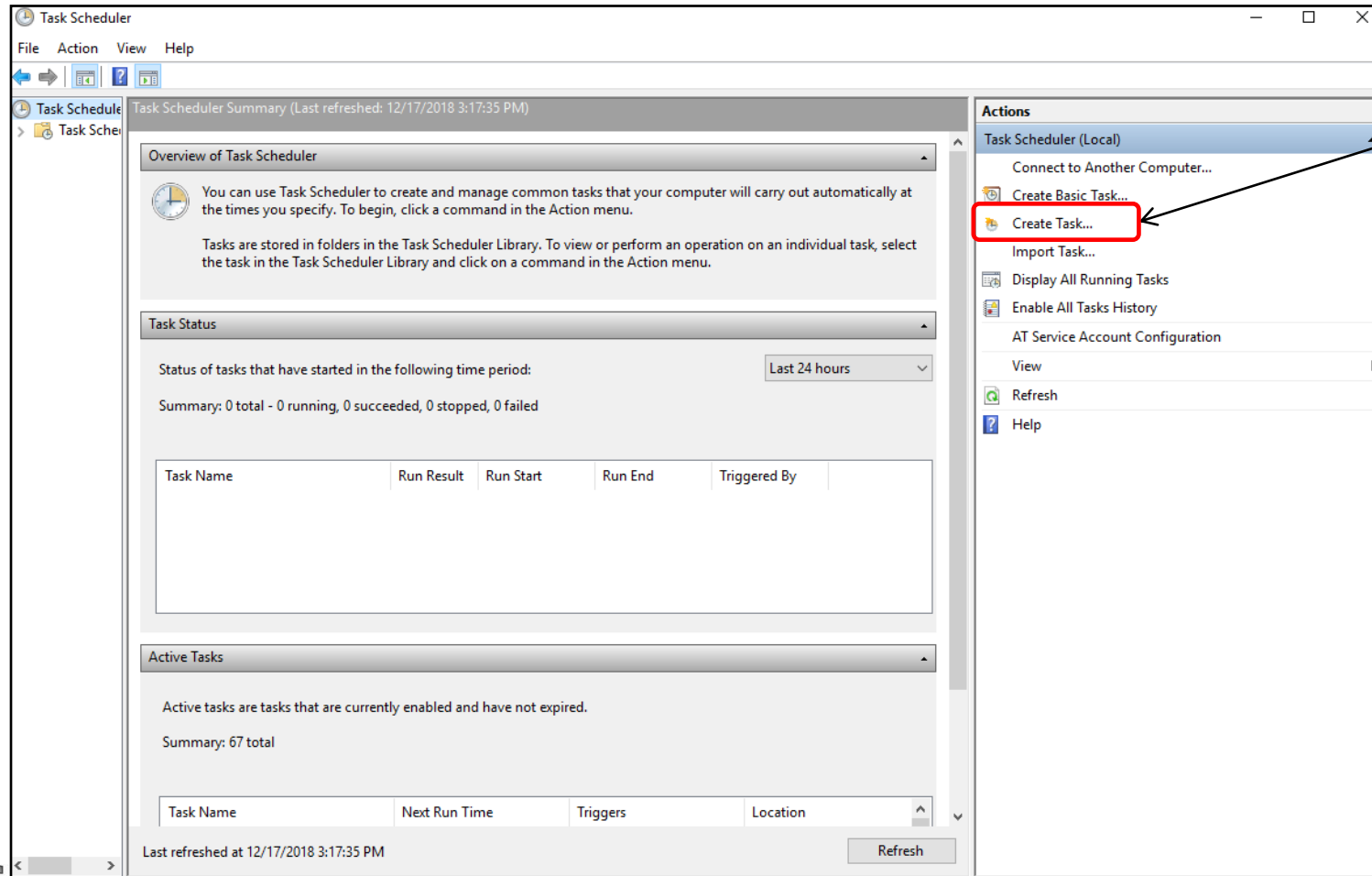
# Download file to the local directory
get * -delete C:\WINSCP\downloaded_data\

# Disconnect
close

# Exit WinSCP
exit
```

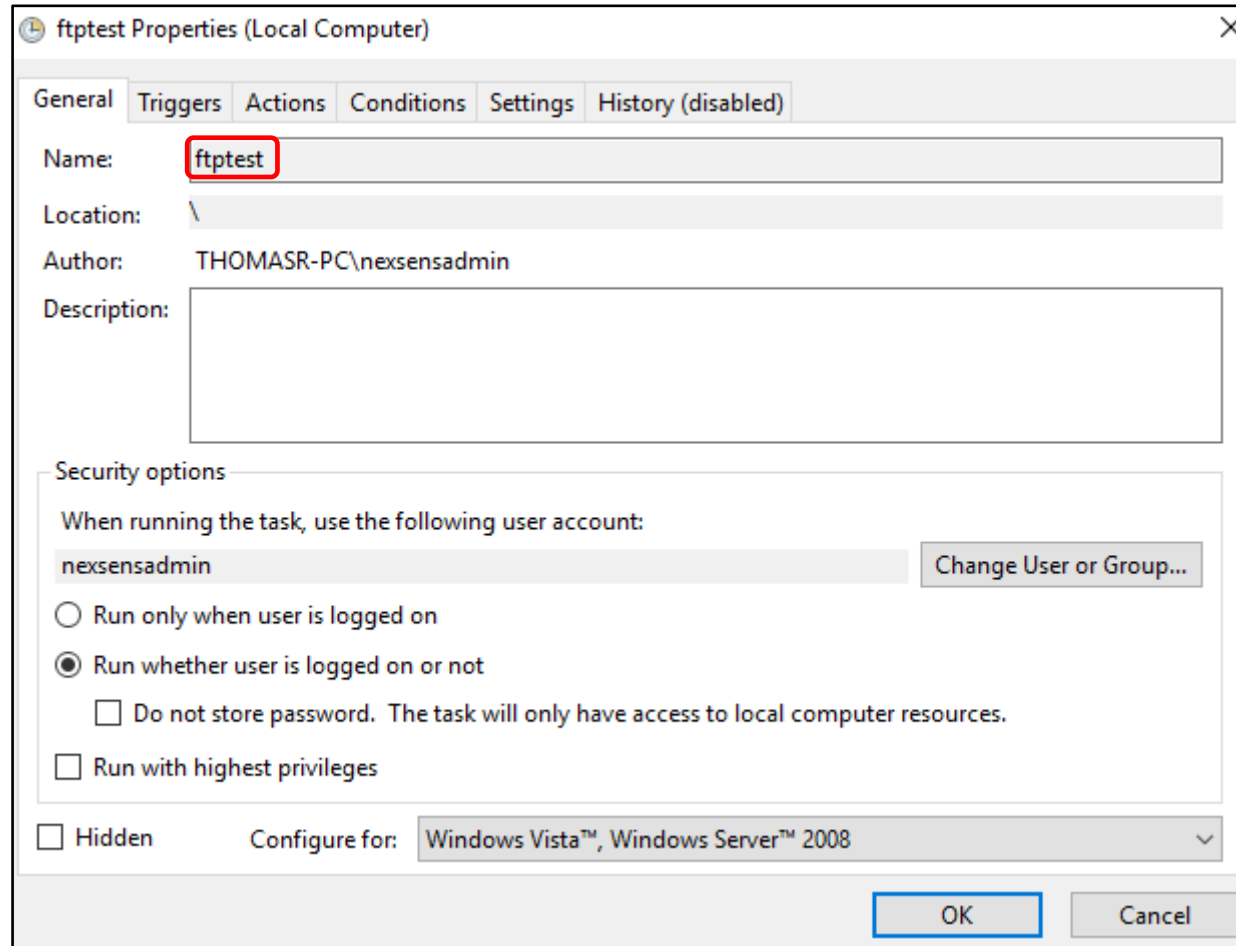
Step 2- Windows Task Scheduler Setup

Open Task Scheduler and select the **Create Task** action



Step 2- Windows Task Scheduler Setup

Give the task a name under the **General** tab



The screenshot shows the 'ftptest Properties (Local Computer)' dialog box with the 'General' tab selected. The 'Name' field is highlighted with a red box and contains the text 'ftptest'. The 'Location' field is empty. The 'Author' field contains 'THOMASR-PC\nexsensadmin'. The 'Description' field is empty. The 'Security options' section is expanded, showing 'When running the task, use the following user account:' with 'nexsensadmin' selected in the dropdown and a 'Change User or Group...' button. Below this, there are three radio buttons: 'Run only when user is logged on' (unselected), 'Run whether user is logged on or not' (selected), and 'Do not store password. The task will only have access to local computer resources.' (checkbox is unselected). There are also two checkboxes: 'Run with highest privileges' (checkbox is unselected) and 'Hidden' (checkbox is unselected). The 'Configure for:' dropdown is set to 'Windows Vista™, Windows Server™ 2008'. The 'OK' button is highlighted with a blue box.

Step 2- Windows Task Scheduler Setup

On the **Trigger** tab create a new trigger

Select the 'One Time' option

Set the 'Repeat task Every' field equal to the desired data download rate

Set the 'Duration' to 'Indefinitely'

New Trigger

Begin the task: On a schedule

Settings

One time
 Daily
 Weekly
 Monthly

Start: 12/13/2018 08:00:00 Synchronize across time zones

Advanced settings

Delay task for up to (random delay): 1 hour

Repeat task every: 30 minutes for a duration of: Indefinitely

Stop all running tasks at end of repetition duration

Stop task if it runs longer than: 3 days

Expire: 12/13/2019 08:36:18 Synchronize across time zones

Enabled

OK Cancel

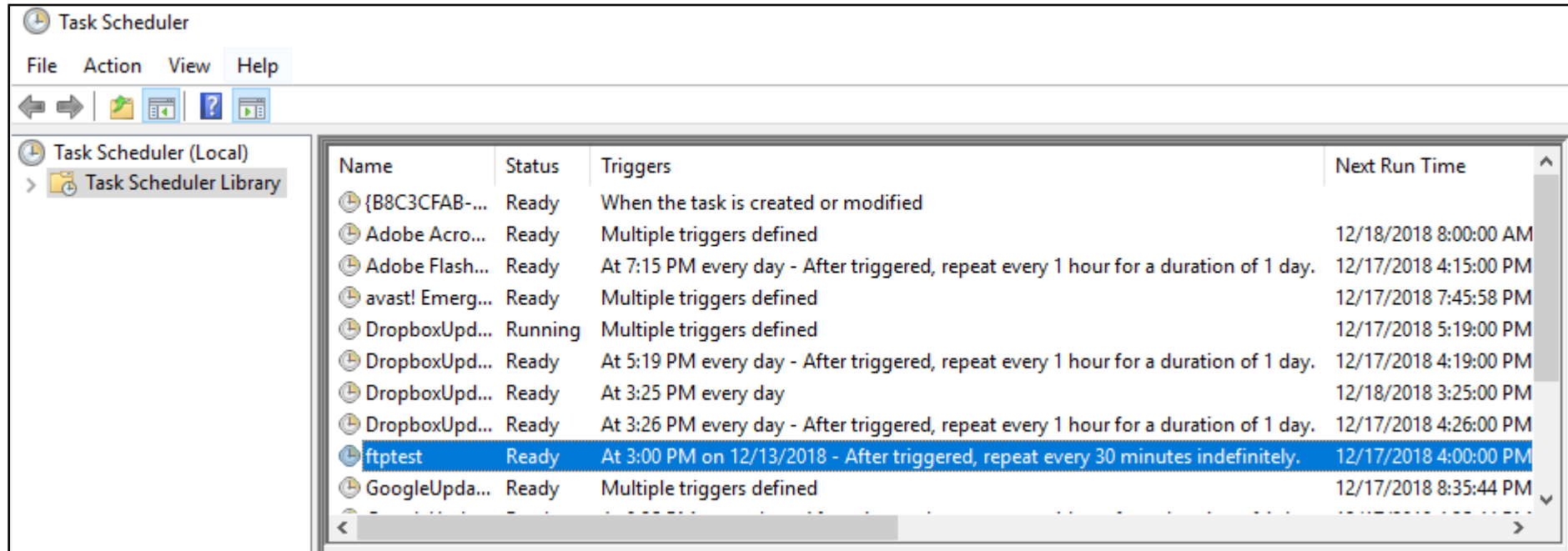
Step 2- Windows Task Scheduler Setup

On the **Actions** tab create a new action

Set the Program/Script field to C:\WINSCP\ftp_download.bat

Set the Action to "Start a program"

Click **OK** to Save the task- it will now appear in your "Active Task" list



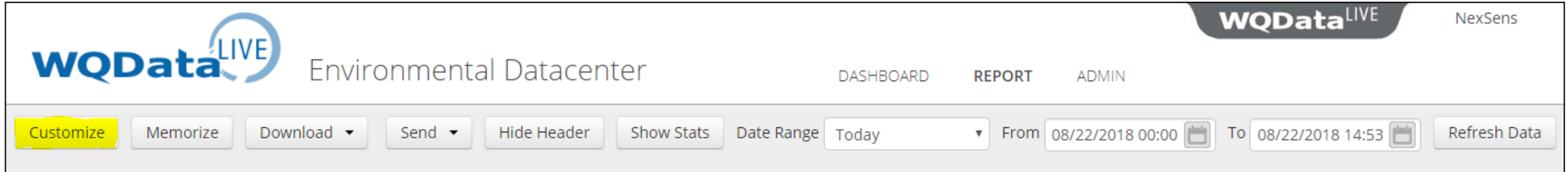
Step 3- WQData Live Setup (Generate Report Template)

From the Project Dashboard, select the **Site** option beneath the Report header

The screenshot displays the WQData LIVE Environmental Datacenter interface. At the top left is the WQData LIVE logo, and at the top right is the NexSens logo. Below the logo is the text 'Environmental Datacenter'. The main navigation bar includes 'DASHBOARD', 'REPORT', and 'ADMIN'. A 'Standard Report' dropdown menu is open, showing three options: 'Site' (highlighted in yellow), 'Multi-Site', and 'Rain Event'. The background is a satellite map of the Fairborn, Ohio area, showing landmarks like Wright-Patterson AFB, Wright State University, and various roads. A green dot on the map indicates the selected site location. On the right side, there is a sidebar with a search icon and a list of items: 'Aquarium' (with a green dot) and 'Aquarium Test X2' (with a three-dot menu icon).

Step 3- WQData Live Setup (Generate Report Template)

Select the **Customize** option in the header.



The screenshot shows the header of the WQData LIVE Environmental Datacenter interface. The header includes the WQData LIVE logo, the text "Environmental Datacenter", and navigation links for "DASHBOARD", "REPORT", and "ADMIN". In the top right corner, there is a "WQData LIVE" badge and the "NexSens" logo. Below the navigation links, there is a toolbar with several buttons: "Customize" (highlighted in yellow), "Memorize", "Download" (with a dropdown arrow), "Send" (with a dropdown arrow), "Hide Header", "Show Stats", "Date Range" (with a dropdown menu set to "Today"), "From" (with a date field set to "08/22/2018 00:00" and a calendar icon), "To" (with a date field set to "08/22/2018 14:53" and a calendar icon), and "Refresh Data".

Step 3- WQData Live Setup (Generate Report Template)

A set of parameters will automatically load for the 1st listed site and data logger .

Click the **Select Parameters** button to choose what available parameters, from which sites, will be displayed.

Customize Data Report

Display Condense Filter Header/Footer Settings

Date Range

Range Custom

Last 30 minute

Fixed Last

Parameters

Select Parameters

Sort By Timestamp

Order Ascending Descending

Test : Temperature
Test : Sp Cond
Test : Turbidity+

SAVE CLOSE

Select Parameters

- Primary Power
- Secondary Power
- Sensor Power
- Total System Current
- Sensor Current
- Internal Pressure
- Internal Temperature
- Internal Humidity
- Cell Signal Strength
- Cell Status
- Temperature
- Sp Cond
- Turbidity+

Selected Parameters

Test : Temperature
Test : Sp Cond
Test : Turbidity+

SAVE PARAMETERS CLOSE

Step 3- WQData Live Setup (Generate Report Template)

Choose **Custom** Range with the **Last** option for the Data Range of the report.

Set the frequency equal to the FTP generation rate.

Customize Data Report

Display Condense Filter Header/Footer Settings

Date Range

Range: Custom

Last: 30 minute

Fixed Last

Parameters

Select Parameters

- Test : Temperature
- Test : Sp Cond
- Test : Turbidity+

Sort By: Timestamp

Order: Ascending Descending

SAVE CLOSE

Step 3- WQData Live Setup (Generate Report Template)

Click **SAVE** to load the report.

Customize Data Report

Display Condense Filter Header/Footer Settings

Date Range

Range Custom

Last 35 minute

Fixed Last

Parameters

Select Parameters

- Test : Temperature
- Test : Sp Cond
- Test : Turbidity+

Sort By Timestamp

Order Ascending Descending

SAVE **CLOSE**

Step 3- WQData Live Setup (Generate Report Template)

Click **Memorize** to save the report for quick access and provide it a name.

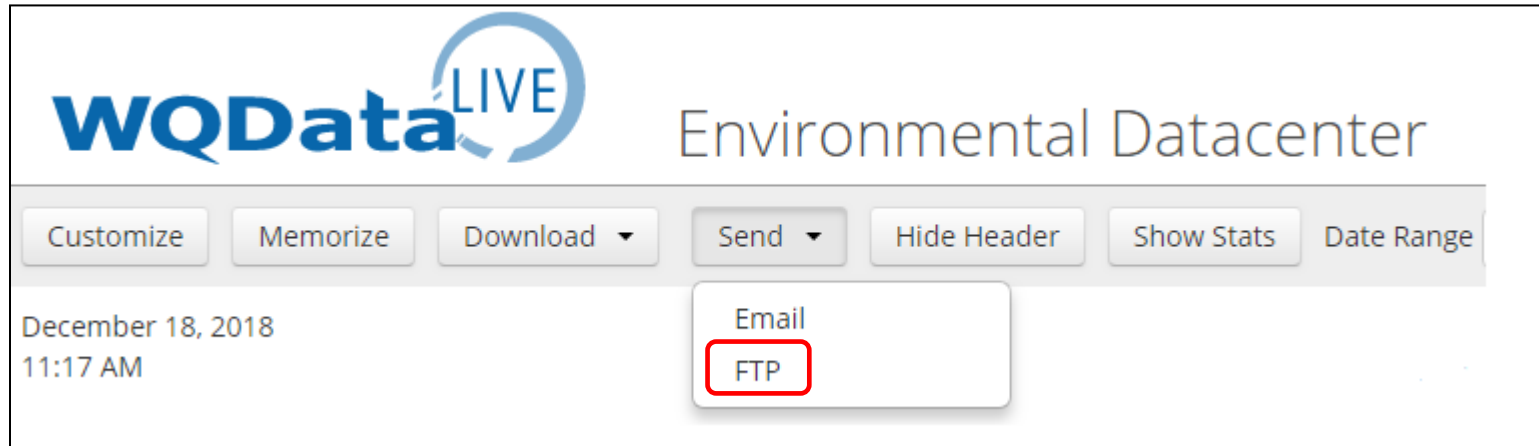
The screenshot shows the WQData LIVE Environmental Datacenter interface. The top navigation bar includes 'WQData LIVE' and 'Environmental Datacenter' on the left, and 'DASHBOARD', 'REPORT', and 'ADMIN' on the right. Below the navigation bar is a toolbar with buttons for 'Customize', 'Memorize' (highlighted with a red box), 'Download', 'Send', 'Hide Header', 'Show Stats', 'Date Range' (set to 'Custom'), 'From' (12/18/2018 09:47), 'To' (12/18/2018 10:22), and 'Refresh Data'.

The 'Memorize Report' dialog box is shown. It has a title bar with a close button (X). The main content area contains a label 'Report Name' followed by a text input field containing 'FTP Test'. At the bottom of the dialog are two buttons: 'MEMORIZE REPORT' and 'CLOSE'.

The 'REPORT' menu is shown. It has a title bar with 'REPORT' and 'ADMIN' tabs. The menu items are: 'Standard Report', 'Site', 'Multi-Site', 'Rain Event', 'Memorized Report', and 'FTP Test' (highlighted with a red box).

Step 3- WQData Live Setup (Generate Report Template)

With the report loaded, select **Send|FTP**



The screenshot displays the WQData LIVE Environmental Datacenter interface. At the top left is the WQData LIVE logo. To its right is the text "Environmental Datacenter". Below the logo and text is a horizontal toolbar containing several buttons: "Customize", "Memorize", "Download" (with a dropdown arrow), "Send" (with a dropdown arrow), "Hide Header", "Show Stats", and "Date Range". Below the toolbar, the date and time "December 18, 2018 11:17 AM" are displayed. A dropdown menu is open under the "Send" button, showing two options: "Email" and "FTP". The "FTP" option is highlighted with a red rectangular border.

Step 3- WQData Live Setup (Generate Report Template)

Enter in the appropriate FTP server credentials.

FTP Report

Filename	<input type="text" value="default"/>
Host	<input type="text" value="host"/>
Port	<input type="text" value="21"/>
Username	<input type="text" value="username"/>
Password	<input type="password" value="....."/>
Confirm Password	<input type="password" value="....."/>
Directory	<input type="text" value="/directory_name"/>
Transfer Mode	<input checked="" type="radio"/> Passive <input type="radio"/> Active
Send Report As	<input checked="" type="radio"/> CSV <input type="radio"/> PDF <input type="radio"/> CSV & PDF
Action	<input type="radio"/> Send Now <input checked="" type="radio"/> Schedule

Step 3- WQData Live Setup (Generate Report Template)

Select **Schedule** for the Action and select each day and the frequency with which the FTP is run.

This Frequency should match the data range of the saved report.

FTP Report

Send Report As CSV PDF CSV & PDF

Action Send Now Schedule

Activate Schedule Activate

Days Sunday Monday
 Tuesday Wednesday
 Thursday Friday
 Saturday

Schedule Type Fixed Time Every x minutes

Every

Begin Date Time

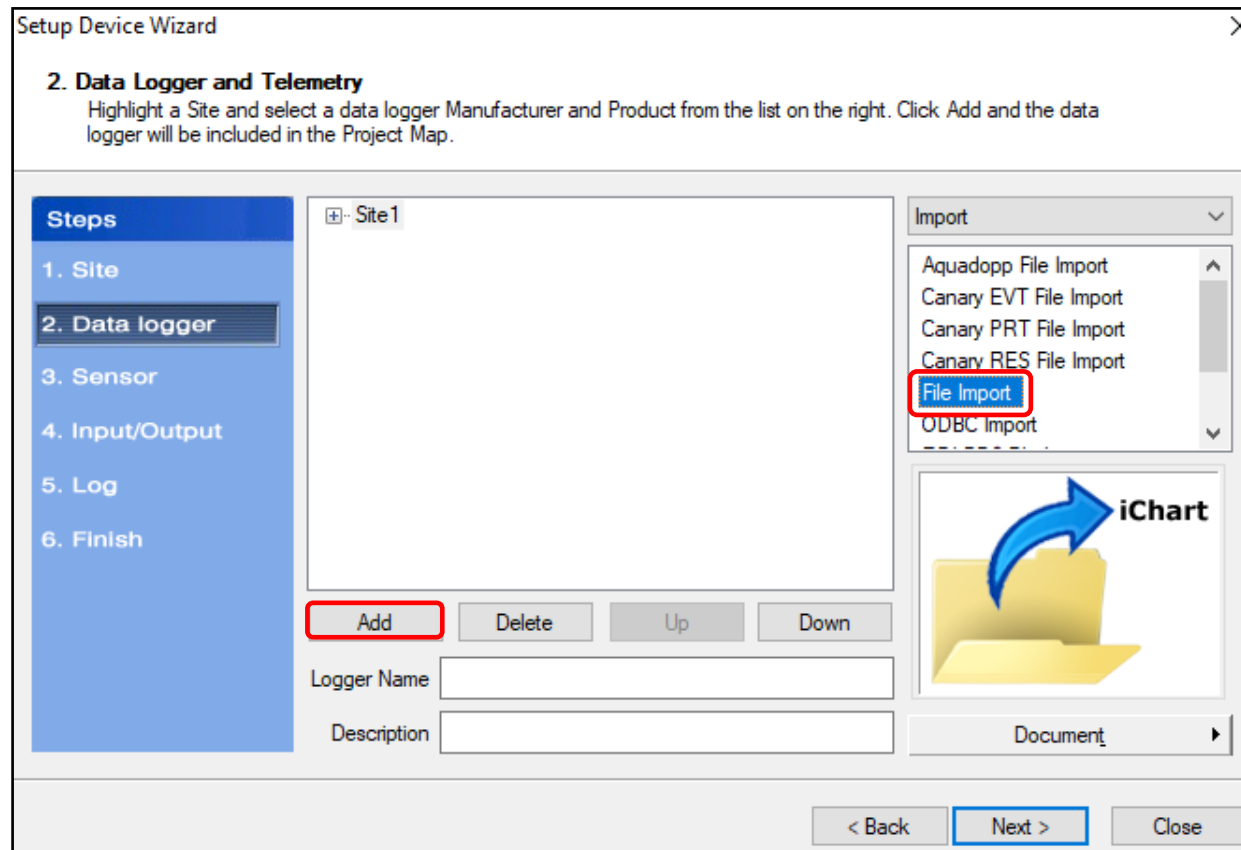
Send Between and

Step 4- iChart Setup

Make sure iChart is up-to-date by navigating to **Help|Check for Updates**

Version 6.20.017 or greater is recommended.

Navigate to **Project|Setup Device Wizard** and add a new site and/or proceed to Step 2 and Add a new **File Import**



Step 4- iChart Setup

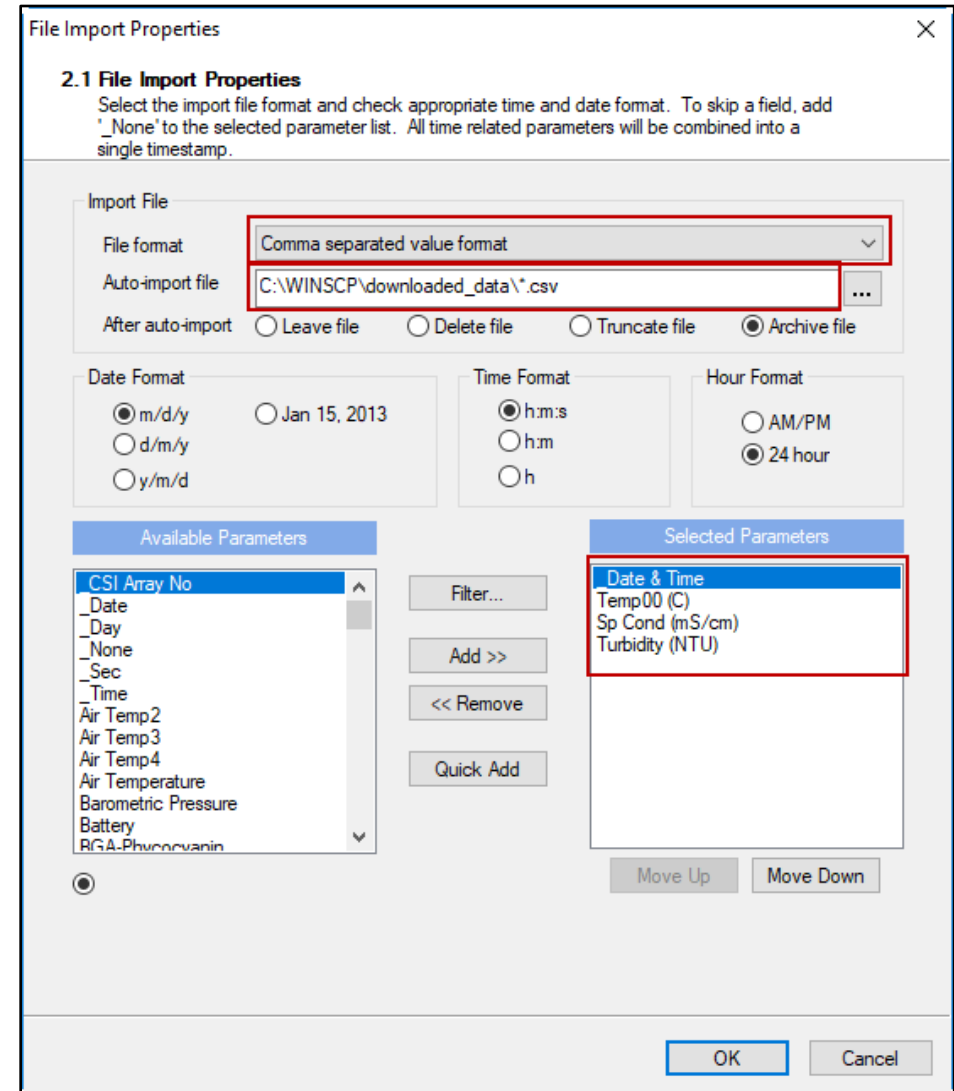
Configure the Import with:

Comma separated value format

Auto-import file path of C:\WINSACP\downloaded_data*.csv

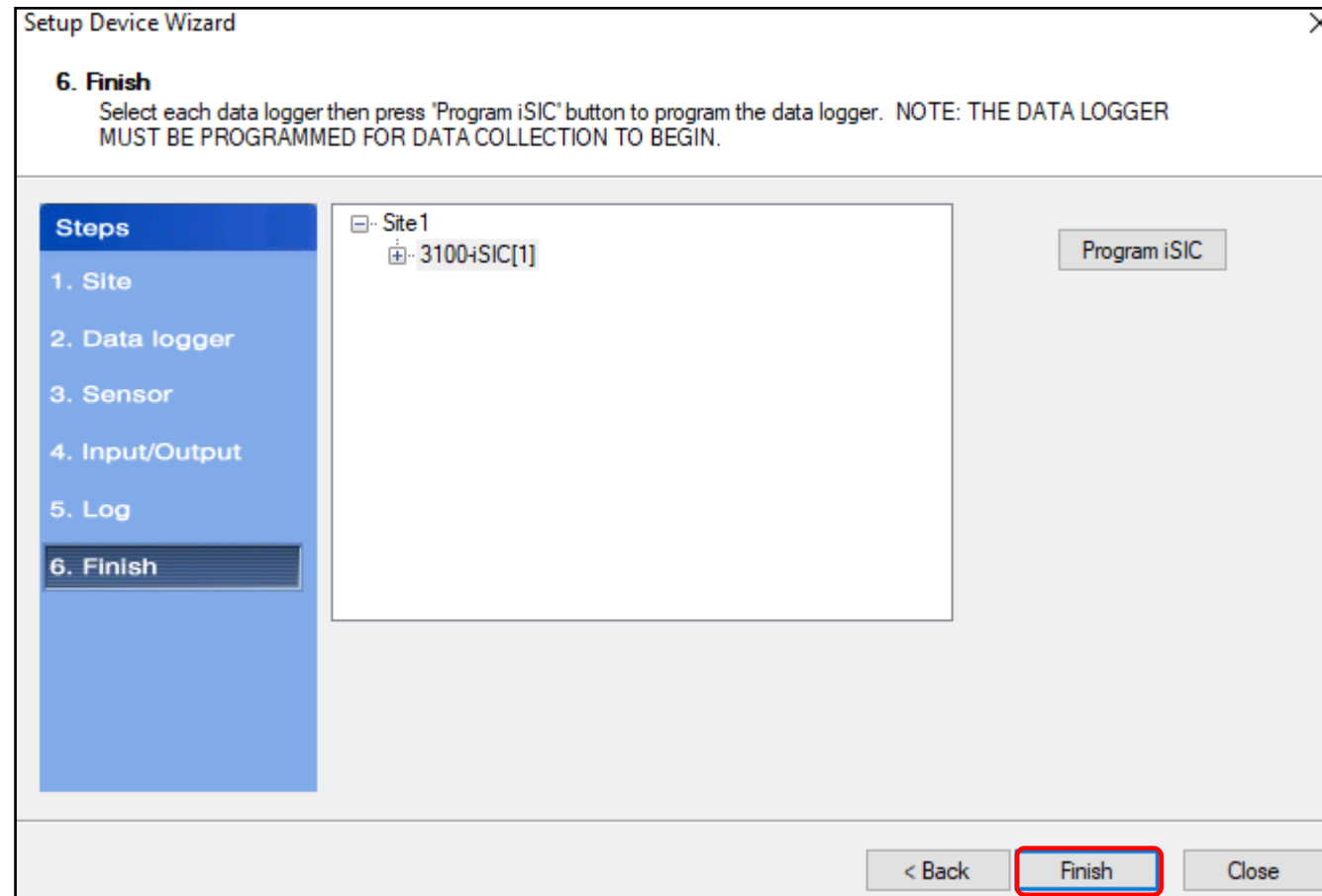
Parameter List matching the report parameter list with a leading Date & Time Parameter

Click **OK** when finished



Step 4- iChart Setup

Advance to Step 6 of the Setup Device Wizard and select **Finish**



Step 4- iChart Setup

Select the **Schedule** button below the data readout in iChart and configure the auto-interrogation schedule with a small offset for automatic import of the FTP data.

Site1.File Import [1]
12/14/2018 09:45

Temp00 (C)	-9.99
Sp Cond (μS/cm)	0
Turbidity (NTU)	-4.90

Setup... **Schedule...** Import

Setup Device

Interrogation Schedule

Auto Interrogation Schedule

Sun Mon Tue Wed Thu Fri Sat

Every 30 minutes Between 12:00:00 AM and 11:59:59 PM

At 12:00:00 AM 12:00:00 AM 12:00:00 AM 12:00:00 AM

Offset (sec) **120** Enable

OK Cancel Apply Help