LoggerNet Mobile Connect for iOS

Revision: 8/17

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Introduction

Please read the End User License Agreement (EULA).

LoggerNet Mobile Connect is a simple, yet powerful, tool that allows communication with any station in your LoggerNet network. It gives you access to the LoggerNet server anywhere your mobile device has a data connection. The app lets you perform field maintenance tasks such as viewing and collecting data, changing the value of variables, checking important status information about *LoggerNet* and the health of your stations, setting datalogger clocks, and sending datalogger programs.

Requirements

LoggerNet Mobile Connect for iOS runs on iOS 8.0 or greater.

To use *LoggerNet Mobile Connect*, a licensed copy of *LoggerNet* version 4.4 or later or *LoggerNet Admin* version 4.0 or later needs to be running on a PC that is accessible via TCP/IP.
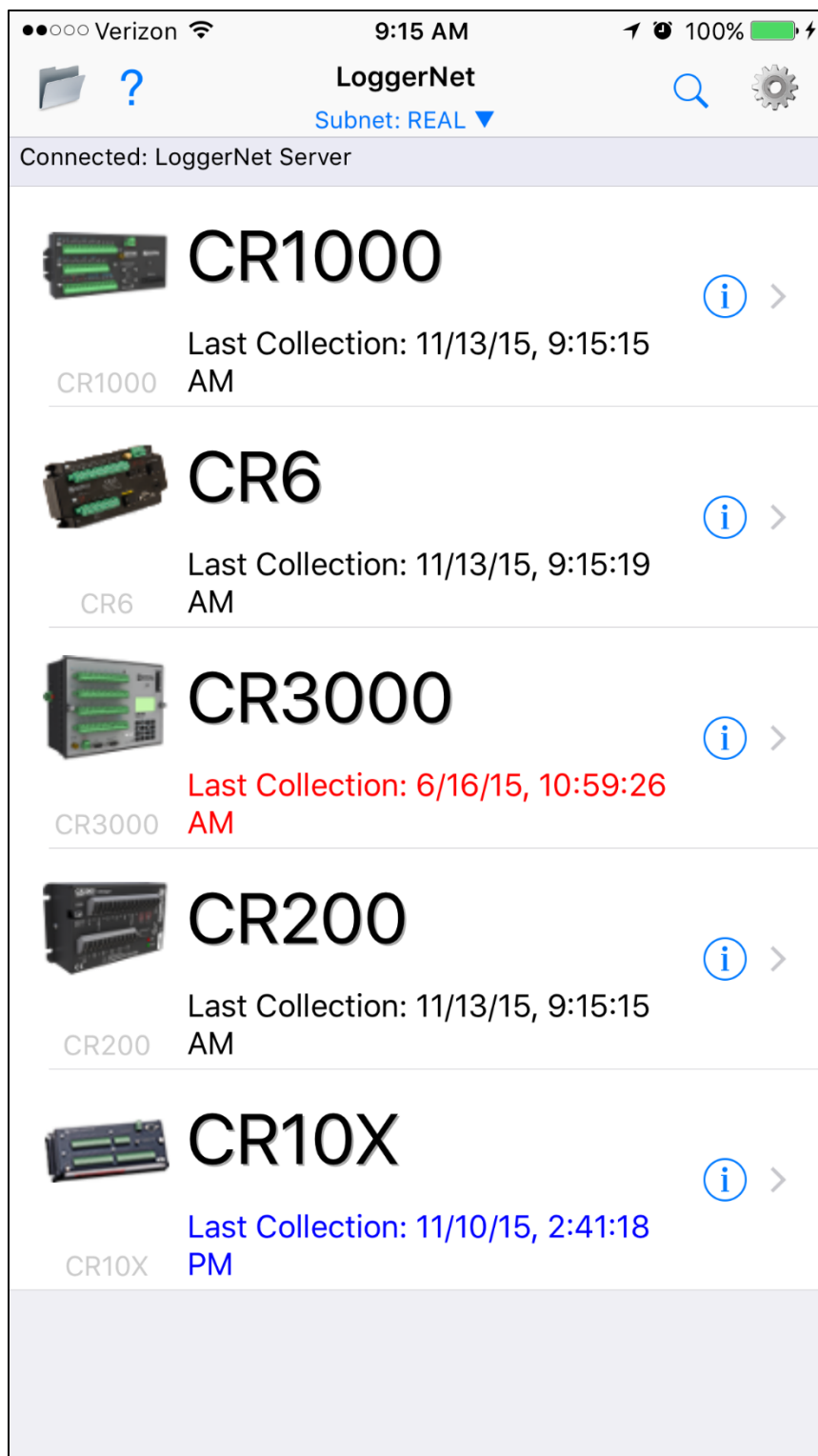
Getting Started

When *LoggerNet Mobile Connect* is launched, you begin by tapping the ⚙ button in the upper right corner of the screen to manage your LoggerNet connections.

Your iOS device must be connected to a network through which you can reach your LoggerNet Server, *LoggerNet* must be

running, and your LoggerNet server must have remote connections enabled.

On the **Server Settings** screen, type in the IP Address (or domain name) of the computer running LoggerNet. Enter the port used by *LoggerNet* for TCP/IP communications (default value is 6789). If LoggerNet security is enabled, enter the **Username** and **Password** to be used to log in to the LoggerNet server. You can enter a Nickname that will be used to identify the server in the list of servers to select from. After filling in the values, press **Save**. You will be taken to the **Select LoggerNet Server** screen. Tap on the server name to connect to it. *LoggerNet Mobile Connect* will connect to your LoggerNet server, and the dataloggers in your network map will be displayed. If you have subnets set up in *LoggerNet Admin*, *All Stations* or the name of the current subnet will be shown at the top of datalogger list. You can tap the arrow to the right to select a different subnet or all stations.

The time of last collection from each datalogger will be displayed. The color of text used for the time of collection

indicates the collection state. The text will be black when collection state is normal. If the schedule is turned off, the text will be blue. All other states will be reflected by red. Tapping the "i" button next to a datalogger displays additional information about the collection state and provides a **Collect Now** button to trigger data collection. Collected data will be stored to the location specified in the LoggerNet server's **Setup** screen. (To collect data to your iOS device, connect to the datalogger and go to the **Custom Collect** page.)

COLLECTION STATUS

Line State	On Line
Collection State	Normal
Last Data Collection	11/13/15, 9:15:27 AM
Next Data Collection	11/13/15, 9:15:28 AM
Last Collection Attempt	11/13/15, 9:15:27 AM

Collect Now

COMMUNICATION HISTORY

Note: Stations set up in the RWIS Administrator are not supported in *LoggerNet Mobile Connect* and will not show up in the list of stations.

Connecting

To connect to a datalogger, simply tap on it in the list of dataloggers.

Connected

After you have connected to your datalogger, a set of tabs will appear at the bottom of the screen. Tapping on these tabs will allow you to perform different operations on your datalogger such as viewing data in a tabular or graphical format, monitoring status, and collecting data.

Note that on an iPhone, you will need to tap the **More** button to see some of the available operations. With the **More** screen open, you can tap the **Edit** button to configure your tab bar. Drag your most used items to the tab bar to make them visible without pressing **More**.

If you leave *LoggerNet Mobile Connect* or your device goes to sleep while connected to a datalogger, you will be automatically disconnected from the datalogger 10 minutes after any background processes (such as data collection) complete. Note that if you have **Prevent Sleep** enabled (see the *LoggerNet Mobile Connect* Settings section), your device will not automatically go to sleep while you are connected to a

datalogger. You must put the device to sleep manually or disconnect from the datalogger.

Disconnecting

When you are finished interacting with your datalogger, simply tap the **Disconnect** tab to disconnect and return to the list of dataloggers.

Connecting

To connect to a datalogger, simply tap on the datalogger in your LoggerNet network map. When connecting to a datalogger, a clock check is sent to see if communications can be established.

Numeric Display

The **Numeric Display** page shows the current data record for the selected table.

Numeric Display

CR6.Public ▼

🔍 ⚙️

Time Stamp: 11/13/15, 9:15:38 AM

Record	171,139
Temp_F	41 °F ›
Batt_V	13.1687 ›
Wind_Deg	244 ›
Wind_MPH	50 ›
RH	1 ›
BP	28 ›
Rain_MM	0.0219051 ›
Solar_Rad	286 ›
OfficeTemp	24.0629 ›
settable_str	›
settable_float	0 ›
settable_long	0 ›
settable_boolean	False ›

#	♥	✂	🔦	○○○
Num Display	Status	Historic	Custom Collect	More

Tap the **Config** button in the upper right corner to select and configure a different table.

Use the down arrow next to the table name (at the top of the screen) to quickly switch between tables. Tables will come up with the options set in the **Numeric Display Setup** for each individual table.

Values are formatted based on type and, by default, include the units defined in the datalogger program.

Tapping a settable value opens a page that allows you to change the value.

Numeric Display Setup

> **Table**
> Select the table that will be displayed.
> **Select Fields**
> Select the fields that will be displayed.
> **Show Units**
> Use the Boolean toggle to specify whether or not units are displayed.
> **Poll Interval**
> Select the interval at which the data will be updated. The *LoggerNet Mobile Connect* App will never poll faster than 1 time per second.
>
> **Field Options**
> You can change the order of the fields by pressing the **Sort** button and using the **Row Reorder** button, to the right of each field, to drag it to the desired location. Upon completion of reordering, tap the **Done** button.

Each field may be edited. Tap the **Disclosure** button to the right of the field name. This will display customization options for that particular field. These options include:

Title
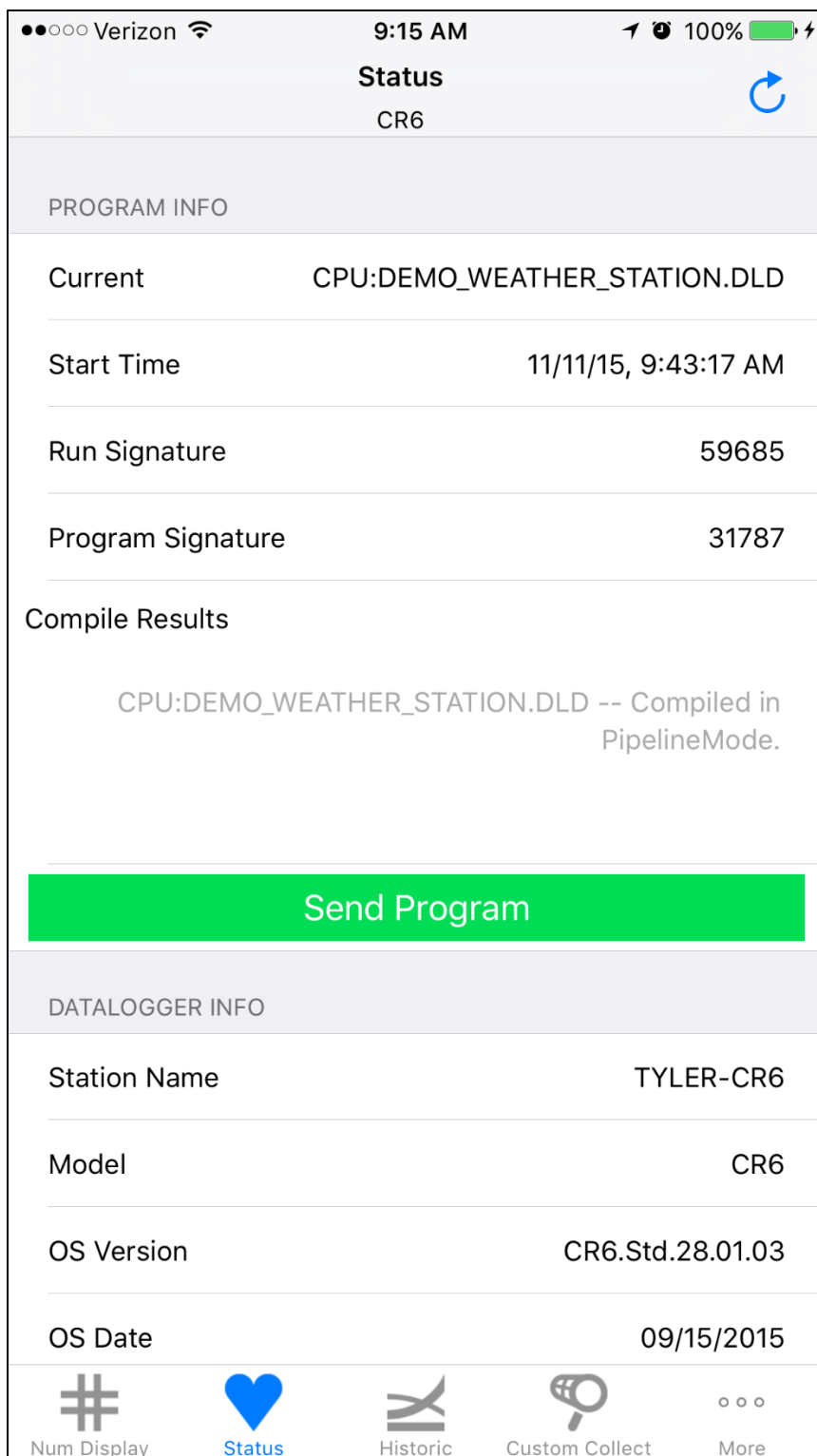 The name that will be displayed for the field.
Units
  The measurement units that will be displayed for the field.
Precision
  The number of digits of precision used. (Only displayed if the field value is floating point type.)

Status

The **Status** page shows important information about your datalogger, the current program, the errors, the card status, the battery, and the clock. It also allows you to send a program to your datalogger.

Status
CR6
↻

PROGRAM INFO

Current	CPU:DEMO_WEATHER_STATION.DLD
Start Time	11/11/15, 9:43:17 AM
Run Signature	59685
Program Signature	31787

Compile Results

CPU:DEMO_WEATHER_STATION.DLD -- Compiled in PipelineMode.

Send Program

DATALOGGER INFO

Station Name	TYLER-CR6
Model	CR6
OS Version	CR6.Std.28.01.03
OS Date	09/15/2015

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Num Display	Status	Historic	Custom Collect	More

Note that a red E on the **Status** icon indicates that the datalogger has errors. Scroll down on the **Status** screen to identify the error.

You can press the **Reset** button next to the indicated error to reset the value to 0.

Note: Not all status fields listed below apply to array-based dataloggers (i.e., CR10X, CR510, CR23X, etc.).

Program Info

> **Current**
> The program currently running in the datalogger.
> **Start Time**
> The date the currently running program was started.
> **Run Signature**
> Signature of the compiled binary data structure for the current program. This value is independent of comments added or non-functional changes to the program. Often changes with operating system changes.
> **Program Signature**
> Signature of the currently running program file including comments. Does not change with operating system changes.
> **Compile Results**
> The results reported by the datalogger when it compiled the currently running program.
> **Send Program**
> Click to send a new program file to the datalogger. The file must be accessible by *LoggerNet Mobile Connect*. (See following paragraph.) When **Send Program** is tapped, a browser window is displayed allowing you to browse to the desired program file. When a file is selected, it will be sent,

compiled, and assigned the **Run Options** of *Run Now* and *Run on Power-up*.

LoggerNet Mobile Connect has file association set up with CRBasic program files. This allows you to access a program file that has been sent as an email attachment. From your device's **Mail** app, tap and hold on the program file attachment. Then choose **Open in LoggerNet Mobile Connect**. The program file will then be accessible by *LoggerNet Mobile Connect*. File association also allows you to use a file-sharing application, such as Dropbox, to get a program file onto your device and accessible by *LoggerNet Mobile Connect*. If you do not have email capabilities or a file-sharing application, iTunes® is required to copy programs to your device to be sent to the datalogger. With iTunes open and your device connected to your computer, click on your device and then click Apps. Under **File Sharing**, click **LoggerNet Mobile Connect**. Press **Add File** to open a browser window allowing you to browse to the programs you wish to copy to your device. After browsing to the desired programs, press **Open** in the browser window and the programs will be copied to your device.

Datalogger Info

Station Name

A name assigned to this datalogger. Note that this is the station name internal to the datalogger. It is not the name given to the datalogger in *LoggerNet*.

Model

The type of datalogger.

OS Version

Specifies the version of the operating system currently in the datalogger.

OS Date

The date of the current operating system.

OS Signature

The signature of the current operating system.

Panel Temperature

Current panel temperature measurement. This measurement is made in the background calibration.

Memory

The total amount of SRAM in the datalogger.

Memory Free

The amount of unallocated memory on the CPU (SRAM). All free memory may not be available for data tables. As memory is allocated and freed, holes of unallocated memory, which are unusable for final storage, may be created.

Serial Number

Specifies the datalogger serial number assigned by the factory when the datalogger was calibrated.

Errors

Watchdog Errors

The number of internal watchdog errors that have occurred while running the current program.

Skipped Records

The number of records that have been skipped for a given table. Skipped records are normally caused by skipped scans.

Low 12V Count

The number of occurrences of the 12VLow signal being asserted. When this condition is detected, the datalogger ceases measurements and goes into a low power mode until proper system voltage is restored.

Low 5V Count

The number of occurrences of the 5VExtLow signal being asserted.

Skipped Scans

The number of skipped scans that have occurred while running the current program. Does not include scans intentionally skipped as may occur with the use of *ExitScan* and *Do...Loop* instructions.

Skipped System Scans

The number of scans skipped in the background calibration.

Skipped Slow Scans
The number of scans skipped in a *SlowSequence*.

Variable Out of Bounds
The number of times an array was accessed out of bounds.

Battery Info

Battery Voltage
The current value of the battery voltage. This measurement is made in the background calibration.

Lithium Battery
The current voltage of the lithium battery. This measurement is updated in background calibration.

Card Info

Card Status
Reports the status of the CF card.

Bytes Free
The amount of space still available on the CF card.

Clock Info

System
The local time of your device the last time the datalogger clock was checked.
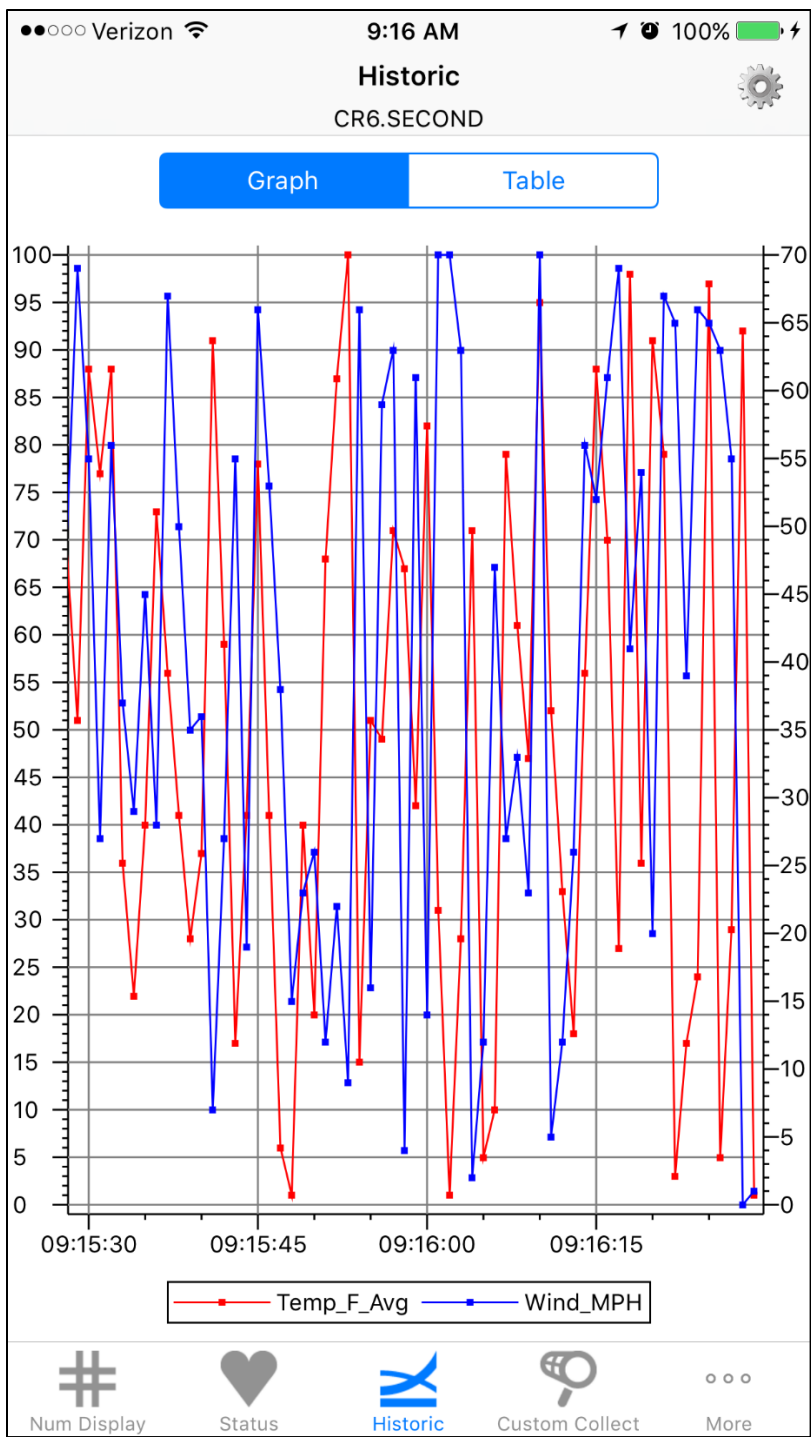
Logger
The time reported by the datalogger the last time its clock was checked.

Set Clock

Click to set the datalogger clock. You will then have the option to *Set Clock* or *Set Manually*. If *Set Clock* is chosen, an attempt will be made to set the clock as closely as possible to the device's clock. However, there may be some difference due to delay in the communication link. If *Set Manually* is chosen, a specific date and time may be selected and set. These options should be used with caution, since it could result in missing or duplicate timestamps when the datalogger clock is changed.

Historic

The **Historic** page displays data from a single datalogger table in graph or tabular form.

Graph	Table

Temp_F_Avg ■ Wind_MPH ■

Historic
CR6.SECOND

Graph	Table

Time ▼	Temp_F_Avg	Wind_MPH
2015-11-13 09:16:33	17	21
2015-11-13 09:16:32	6	44
2015-11-13 09:16:31	19	44
2015-11-13 09:16:30	76	45
2015-11-13 09:16:29	1	1
2015-11-13 09:16:28	92	0
2015-11-13 09:16:27	29	55
2015-11-13 09:16:26	5	63
2015-11-13 09:16:25	97	65
2015-11-13 09:16:24	24	66
2015-11-13 09:16:23	17	39
2015-11-13 09:16:22	3	65
2015-11-13 09:16:21	79	67
2015-11-13 09:16:20	91	20
2015-11-13 09:16:19	36	54
2015-11-13 09:16:18	98	41
2015-11-13 09:16:17	27	69
2015-11-13 09:16:16	70	61
2015-11-13 09:16:15	88	52

# Num Display	♥ Status	⪦ Historic	🔍 Custom Collect	○○○ More

The data displayed on the **Historic** page comes directly from the datalogger and is "cloned" on the PC running *LoggerNet*. It does

not affect the data displays or data collection occurring in *LoggerNet*.

Tap the icon in the upper right corner to go to **Historic Setup**. This allows you to select the table and fields to be displayed. An option for showing the legend is also available. You can tap *Data Range* to change the data range that will be displayed. (The default data range is one hour.) You can tap *Poll Interval* to specify how often the datalogger is polled for new data. (The default poll interval for a data table is the table interval, or one second if the table interval is less than one second. The default poll interval for the **Public**, **Status**, and **DataTableInfo** tables is one second. The minimum poll interval for any table is one second.) You can change the order of the fields by pressing the **Sort** button and using the **Row Reorder** button, to the right of each field, to drag it to the desired location. Upon completion of reordering, tap the **Done** button. You can also tap on the name of a field to set the display options for that field as described below. After setting the *Data Range* and/or *Field Options*, tap **Save** to display your selected data.

From the main **Historic** screen, tap **Graph** or **Table** at the top to choose how to display your data. Tap the **Config** button in the upper right corner to go to **Historic Setup** and change the table, fields, data range, or field options.

On a graph, tap a point on the graph to display the data value and timestamp at that point. You can zoom in on a part of the graph by touching the screen with two fingers and then sliding your

fingers apart. You can zoom out by pinching your fingers together. You can pan the graph by using one finger to drag the graph to the desired location. A zoomed or panned graph can be restored by selecting the **Restore** icon in the upper left corner.

On the table, the current data will be displayed in tabular format. You may sort the data by time simply by tapping the *Time* column heading.

Historic Setup

Select Table/Fields
Select the table and fields that will be displayed in the graph and table.
Show Legend
Determines whether a legend is shown on the graph.
Data Range
The range of data to be displayed in the graph and table.
Poll Interval
The interval at which the datalogger is polled for new data.

Field Options

Field Title
The title used in the graph legend and the table column heading.
Graph Axis
Each series can be displayed using the left or right axis of the graph.

Graph Line Width

The width of the line used for the graph series.

Graph Line Color

The color of the line used for the graph series.

Graph Line Style

The style of the line used for the graph series.

Graph Symbol Size

The size of the symbol used for the graph series.

Graph Symbol Color

The color of the symbol used for the graph series.

Graph Symbol Symbol

The symbol that is used for the graph series.

Custom Collect

The **Custom Collect** page is used to download data from your datalogger and store it in data files on your device. These data files can then be viewed, emailed from your device, opened in another application, or graphed.

Note: Custom Collect is not supported for array-based dataloggers (i.e., CR10X, CR510, CR23X, etc.).

Collect Mode

The collect mode allows you to control how data is collected to your device.

- All Data: Collect all data and overwrite existing data files on your device.
- New Data: Collect data logged since your last data collection and append new data to existing data files.
- Most Recent:
  - Records: Allows you to specify how many of the most recent records you would like to collect.
  - Time: Allows you to specify a time interval from the current time from which to collect records.
  - Overwrite Data Files: Gives you the option to overwrite existing data files or append to existing data files.

Datalogger Tables

A list of all the datalogger tables that can be selected for data collection. Select the table(s) you wish to collect and tap the **Collect** button. You can view collected data files by tapping the **Disclosure** button next to the table name. While viewing a data file, tap the **Information** button at the top right to bring up information about the datalogger that generated the data, the datalogger program, and the data fields. Tap the **Action** button in the upper right corner to delete the data file, open the data file in another application, email the data file as an attachment if your device has email capabilities, or graph the
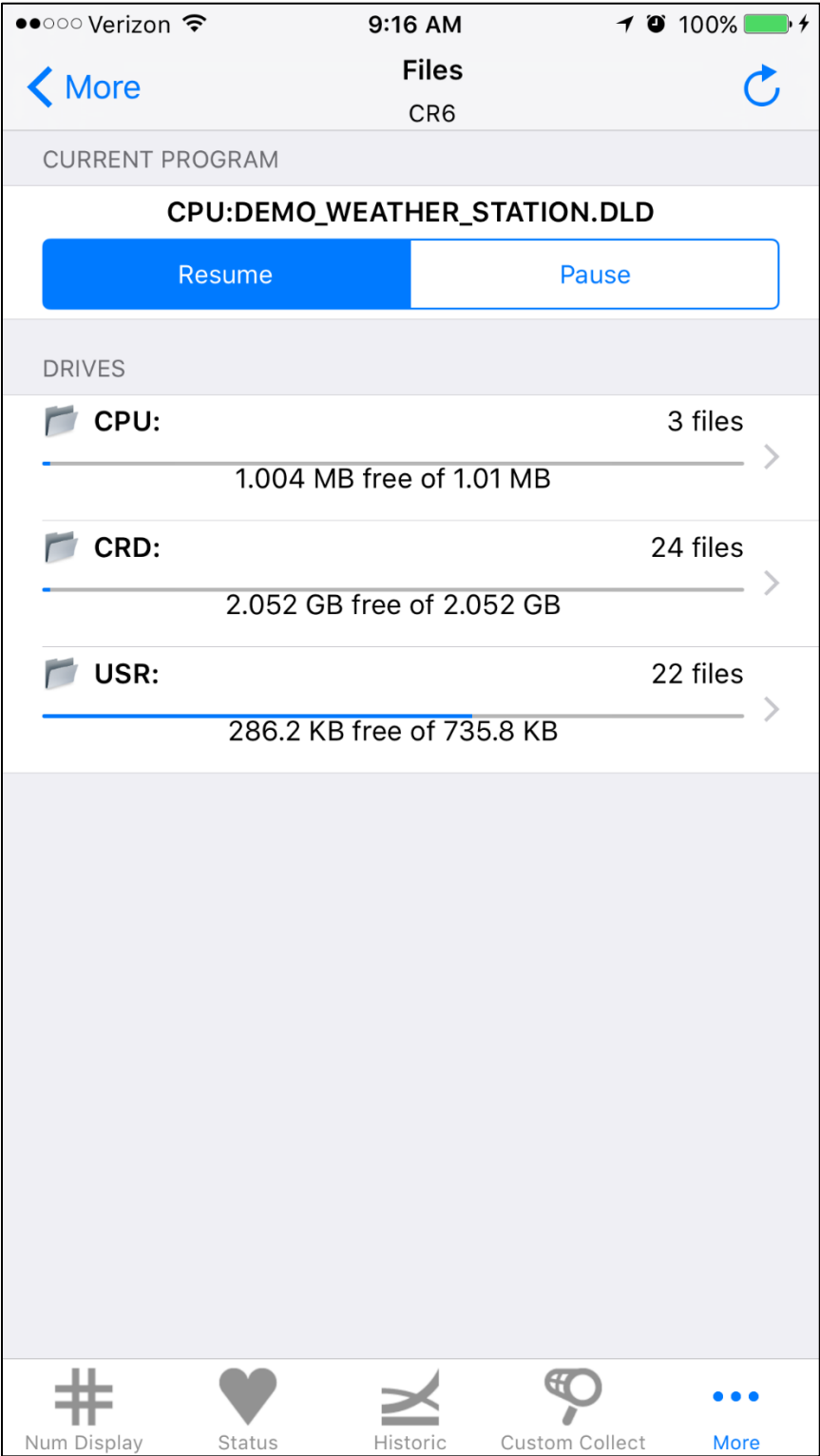
data. Selecting **Open In** will show a list of installed applications that are registered to handle .dat file types. If you have a file-sharing application, such as Dropbox, this option can be used to get the file to your computer. Selecting **Graph** will allow you to choose the data range and fields to graph.

Note: If your device does not have email capabilities or a file-sharing application, iTunes is required to copy collected data files to your computer. With iTunes open and your device connected to your computer, click on your device and then click Apps. Under **File Sharing**, click **LoggerNet Mobile Connect**. Under LoggerNet Mobile Connect Documents, you should see a folder for each server in your *LoggerNet Mobile Connect* App that has collected data files. Select the folder you wish to copy to your computer and press the **Save** to button. A browser window will open allowing you to browse to the location to save your data. After browsing to the desired location, press **Select Folder** in the browser window and your data will be copied to your computer

Files

The **Files** page is used to view the drives on your datalogger as well as pause/resume the currently running program. You can also view and edit files on your datalogger, delete files from your datalogger, send files to your datalogger, get files from your datalogger, or set the run options for a program file on your datalogger.

Note: The **File** page is not supported for array-based dataloggers (i.e., CR10X, CR510, CR23X, etc.).

As described below, a file retrieved from your datalogger to your iOS device can be emailed as an attachment, or a file-sharing application, such as Dropbox, can be used to get the file to your computer. If your device does not have email capabilities or a file-sharing application, iTunes is required to copy retrieved files to your computer. With iTunes open and your device connected to your computer, click on your device and then click Apps. Under **File Sharing**, click **LoggerNet Mobile Connect**. Under LoggerNet Mobile Connect Documents, you should see a folder for each server in your *LoggerNet Mobile Connect* App that has files retrieved from the station. Select the folder you wish to copy to your computer and press the **Save** to button. A browser window will open allowing you to browse to the location to save your data. After browsing to the desired location, press **Select Folder** in the browser window and your data will be copied to your computer.

Current Program

Pause
The **Pause** button pauses the currently running program and preserves data files.

Resume
The **Resume** button restarts the paused program while preserving data files.

Drives

The drives on the datalogger. Selecting one of the drives displays a list of all the files on the drive.

File List

You can view a file by tapping the "i" button next to the file name. While viewing a file, you can tap the **Action** button in the upper right corner to delete the file, open the file in another application, email the file as an attachment, or save the file to your iOS device (Save Local). Selecting **Open In** will show a list of installed applications that are registered to handle .dat file types. If you have a file-sharing application, such as Dropbox, this option can be used to get the file to your computer. Note that you can make edits while viewing a file. If the file has been edited, tapping the **Action** button in the upper right corner will also include an option to save the edited file to your datalogger. This **Save to Datalogger** option gives you the ability to edit a program on your datalogger. Note that if you edit the running program and save it to your datalogger, it will cause the program to be recompiled.

Other functions are available from the file list by tapping the **Action** button in the upper right corner. If no files are selected, you have the option to format the drive, refresh all files on the datalogger, or send files to the datalogger from your device. If you have selected files, you can delete the selected files from the datalogger, refresh all files from the datalogger, or get the

selected files from the datalogger and save them to your device. If only a single program file is selected, file run options will also be available.

Format Drive
>Formatting an individual drive on the datalogger will permanently delete all the files on that drive.

Refresh
>Refreshes the list of all drives and files from the datalogger.

Send File(s)
>Files can be sent from your device to the datalogger. Selecting this option will open a browser window allowing you to browse to local file(s) you wish to send to your datalogger.
>
>iTunes is required to move files (except CRBasic program files as described below) to your device to be sent to the datalogger. With iTunes open and your device connected to your computer, click on your device and then click Apps. Under **File Sharing**, click on **LoggerNet Mobile Connect**. Press **Add** to open a browser window allowing you to browse to the file(s) you wish to copy to your device. After browsing to the desired files, press **Open** in the browser window and the file(s) will be copied to your device.
>
>*LoggerNet Mobile Connect* has file association set up with CRBasic program files. This allows you to access a program file that has been sent as an email attachment. From your device's Mail app, tap and hold on the program file

attachment. Then choose **Open in LoggerNet Mobile Connect**. The program file will then be accessible by *LoggerNet Mobile Connect*. File association also allows you to use a file-sharing application, such as Dropbox, to get a program file onto your device and accessible by *LoggerNet Mobile Connect*. If you do not have email capabilities or a file-sharing application, iTunes is required to copy program files to your device as described above.

Delete File(s)

After selecting files from the datalogger file list, you can delete the files from the datalogger.

Get File(s)

After selecting files from the datalogger file list, you can get the files from the datalogger and store them on your device.

Run Options

When *Run Now* is selected, the program will be compiled and run in the datalogger. You may also choose to preserve existing data tables on the datalogger, if there are no changes to the table structure of the new program. *Run On Power-up* will set this program file to run when the datalogger loses power and then powers back up.

Disconnect

When you are finished interacting with your datalogger, simply tap the **Disconnect** tab to disconnect. Disconnecting from a datalogger will end the communication session and will return you to the LoggerNet network map.

Offline Files

Pressing the **Folder** button at the top of the main LoggerNet Mobile Connect screen (i.e., when you are not connected to a datalogger) will display the files on your device that are associated with *LoggerNet Mobile Connect*. Each server connection and device with associated files will have its own folder. Tapping a folder name will display the files associated with that device. This includes data files and files retrieved from the datalogger.

Clicking the "i" button next to a viewable file allows you to view that file. While viewing a file, tap the **Action** button in the upper right corner to delete the file, email the file as an attachment, or open the file in another application. Selecting **Open In** will show a list of installed applications that are registered to handle the correct file type. If you have a file-sharing application, such as Dropbox, this option can be used to get the file to your computer. If the file you are viewing is a data file, tapping the **Action** button in the upper right corner will also include an option to graph the data. Note that you can make edits while viewing some files (e.g, program files). If the file has been edited, tapping the **Action** button in the upper right corner will also include an option to save the edited file to your iOS device (Save Local).

Many of the functions available while viewing a file can also be accessed by selecting the file(s) in the file list and tapping the

action button that appears in the upper right corner. If two or more files are selected, you can delete the selected files or attach them to an email. If only one file is selected, you also have the option to open the file in another application or rename the file.

LoggerNet Mobile Connect Settings

The following settings for *LoggerNet Mobile Connect* can be viewed and/or set from your device's **Settings** screen. Tap **LoggerNet Mobile Connect** to display and change the settings.

Allow LoggerNet Mobile Connect to Access Notifications
This setting is used to allow *LoggerNet Mobile Connect* to display a **Badge** on its icon to indicate the number of files that have finished collecting while the app was closed.

Auto-Lock Settings: Prevent Auto-Lock
The **Prevent Auto-Lock** setting will prevent your device from going to sleep when connected to a datalogger.

Info: Version
The version of *LoggerNet Mobile Connect*.

Info: Legal
The copyright for *LoggerNet Mobile Connect*.

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