InTemp®
Monitoring Solutions

InTemp® System User's Guide

Onset Computer Corporation
470 MacArthur Blvd.
Bourne, MA 02532

www.onsetcomp.com

Mailing Address:
P.O. Box 3450
Pocasset, MA 02559-3450

Phone: 1-800-LOGGERS (1-800-564-4377) or 508-759-9500
Fax: 508-759-9100
www.onsetcomp.com/support/contact

Technical Support Hours: 8AM to 8PM ET, Monday through Friday
Customer Service Hours: 8AM to 5PM ET, Monday through Friday

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Chapter 1
Getting Started

CX series loggers, the InTemp® app, and InTempConnect™ web-based software work together to form the InTemp temperature monitoring solution. Using the InTemp app on your phone or tablet, you can configure CX series loggers and then download them to share and view logger reports, which include logged data, excursions, and alarm information. Logger reports are also automatically uploaded to InTempConnect when you are logged in to the app with your InTempConnect account.

Where do I begin?

I want to use my logger with both the InTemp app and InTempConnect.

1. Go to www.intempconnect.com and follow the prompts to set up an administrator account. You'll receive an email to activate the account.

2. Log in to the account at www.intempconnect.com and add users to your InTemp account. Click Settings and then the Users tab. Click Add and enter the email address and first and last name of the user. **Note:** If your organization is already using InTempConnect, contact your administrator to receive a user name and password to the account.

3. New users will receive an email to activate their user accounts.

4. Download the InTemp app to your phone or tablet.

5. Open the app and log in with your InTempConnect user credentials. **Note:** Your device must be able to connect to the internet.

6. Connect to the logger and configure it. See Connecting to a Logger and Configuring a Logger for more details.

> **Important:** CX501 and CX502 loggers can only be started once. Do not configure these loggers until you are ready to use them.

I want to use my logger with the InTemp app only.

1. Download the InTemp app to your phone or tablet.

2. Open the app and create a local user account. Tap Save when done and log in to the account when prompted.

3. Connect to the logger and configure it. See Connecting to a Logger and Configuring a Logger for more details.

> **Important:** CX501 and CX502 loggers can only be started once. Do not configure these loggers until you are ready to use them.

Connecting to a Logger

To connect to a logger:

1. Tap the loggers icon in the app.

2. Find the logger you want the phone or tablet to connect to in the list. You can also search for a specific logger with the Search field using the logger serial number or the deployment name of the logger (if it was already configured).

3. Tap the logger to connect to it. See Working with Loggers in the App for details on the actions available while connected to a logger.

A logger must be within range of the phone or tablet to connect to it. Tips for connecting to the logger:

- Make sure Bluetooth is enabled in the phone or tablet.

- Check the signal strength icon for the logger in the Loggers screen in the app to see if it within range of the phone or tablet and move closer if necessary. Only one or two blue bars indicate the Bluetooth signal is weak while all gray bars indicate that a signal is not found.

- If your device can connect to the logger intermittently or loses its connection, move closer to the logger, within sight if possible.

- If the logger appears in the list, but you cannot connect to it, close the app, power down the mobile device, and then turn it back on. This forces the previous Bluetooth connection to close.

- Only InTempConnect users belonging to the same InTempConnect account can connect to a logger once it is configured. When an InTempConnect user first configures a logger, it is locked with an encrypted passkey that is automatically generated by the InTemp app. After the logger is configured, only active users associated with that account will be able to connect to it. If a user belongs to a different account, that user will not be able to connect to the logger with the app, which will display an invalid passkey message.
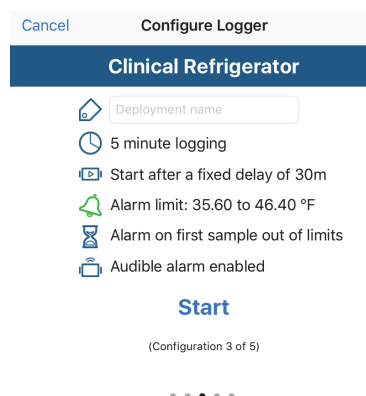
Configuring a Logger

When your phone or tablet is connected to a logger, you can select one of the default configurations available for starting the logger or your own custom configuration. A logger configuration contains the logging interval, information on when the logger will start, and any alarm settings. For information about creating your own configuration, see Changing App Settings.

To configure a logger:

1. Tap the Loggers icon. Find the logger you want to configure and tap it to connect to it. **Note:** If you plan to set up a custom configuration, go to Settings and create the configuration before continuing.

2. Once connected, tap Configure. **Note:** You cannot configure a logger that is currently logging or has data that has not been downloaded. Download the logger and then continue with the configuration.

> **Important:** CX501 and CX502 loggers cannot be restarted once logging begins. Do not configure these loggers until you are ready to use them.

3. Swipe left or right to select one of the preset logger configurations like the following example.

Cancel	Configure Logger

Clinical Refrigerator

Deployment name

5 minute logging

Start after a fixed delay of 30m

Alarm limit: 35.60 to 46.40 °F

Alarm on first sample out of limits

Audible alarm enabled

Start

(Configuration 3 of 5)

• • • • •

> **Note:** You can change the default order of the appearance of the configurations. See Changing App Settings for details.

4. Type a name for the logger deployment.

5. If the configuration included a start time option of "On date/time," select the date and time you want the logger to begin logging.

6. Tap Start. The selected configuration is loaded to the logger. Logging will begin as determined by the start option in the configuration. If "On button push" or "On button push with fixed delay" was selected for the start option, then you can press the Start button on the logger to begin logging (the preset configurations for CX500 loggers all require pressing the Start button). **Reminder: CX501 and CX502 loggers cannot be restarted once logging begins**. **Note:** If the connection is lost between the logger and your phone or tablet before tapping Start, you will need to reconnect and reconfigure the logger. Configure settings are not loaded onto the logger until you tap Start.

After logging begins, you can download the logger and generate a report to view the logged data and other key information about the logger. See Downloading a Logger for details.

Downloading a Logger

You can download the logger and generate reports that included logged data, events, user activity, alarm information, and more. Reports can be shared immediately upon download or accessed later in the app from the Reports icon. Reports are also automatically uploaded to InTempConnect if you are logged into the app as an InTempConnect user.

To download a report:

1. Tap the Loggers icon and select a logger to connect to it.

2. Once Connected, tap Download.

3. Choose a download option:

   - **Download & Continue.** The logger will continue logging once the download is complete.

   - **Download & Restart (CX400 and CX503 models only).** The logger will start a new deployment using the same configuration once the download is complete.

   - **Download & Stop.** The logger will stop logging once the download is complete.

> **Important:** CX501 and CX502 loggers can only be started once; they cannot be restarted once they stop logging. If you want a CX501 or CX502 logger to continue logging after the download is complete, select Download & Continue.

A report is generated in the default type (either Secure PDF or XLSX as selected in the app settings). If Report Sharing is set to Offer All Options in the app settings, then select an option for sharing the report (the options will vary based on your device). If Report Sharing is set to Email Automatically in the app settings, then an email opens for you to send. The report is also available in both formats for sharing at a later time.

See Running a Report in InTempConnect or Working with App Reports for more details on reports.

Chapter 2
InTempConnect Basics

InTempConnect is cloud-based software where you can view CX series logger deployments and reports uploaded from the InTemp app. There are two types of InTempConnect accounts: Administrator accounts and user accounts. Both administrators and users can view logger deployments and run reports, but only administrators can add and enable/disable user accounts. When logged in as an Administrator, a plus appears in the icon next to your login user name. See Getting Started for details on setting up an account.

Once you are logged in to InTempConnect:

- Click Devices and Data to view all logger deployments associated with the account, see details on individual deployments, and run reports.

- Click Settings to change InTempConnect settings.

When you click Devices and Data, a list shows all logger deployments associated with the account. A new deployment appears when a logger is configured in the app by an InTempConnect user. CX501 and CX502 loggers have a single deployment per logger serial number. CX400 series and CX503 loggers can be deployed multiple times; a new deployment is added to the list each time the logger is configured. **Note:** If your phone or tablet does not have access to the internet while configuring the logger, the deployment information will be uploaded to InTempConnect the next time your phone or tablet connects to the internet.

The Deployments list shows:

- **Configuration Name.** This is the deployment name entered in the app. If no name was entered, the logger serial number is listed. Click a name in this column to see more detailed deployment information as described in Viewing Deployments in InTempConnect.

- **Type.** This is the logger model number.

- **Serial Number.** This is the serial number for the logger.

- **Config Date.** This is the date and time the logger was configured in the app.

- **Stop Date.** This is the date and time the logger stopped logging (if applicable).

- **Action.** This is the action that can be performed for the deployment. If the logger has been downloaded during this deployment, you can click the Report link to run a report. See Running a Report in InTempConnect.

Use the arrows next to a column heading to change the sort order of the column. Use the fields below the column headings to search for specific deployments in the list (for example, all the deployments on a certain date or all deployments with the same logger serial number).

Viewing Deployments in InTempConnect

Click Devices and Data in InTempConnect to view a list of all deployments associated with your InTempConnect account. A deployment is added to the list when a CX logger is configured in the InTemp app on your phone or tablet—but only when you are logged into the app as an InTempConnect user. Once the deployment appears on the list, you can click the link in the Configurations column to view the following details about the deployment:

- **Deployment Info.** This shows the logger model type, the user who configured it, the logger serial number, configuration name (which is the deployment name entered in the app when configuring the logger), and the date and time when it was configured, started, downloaded, and stopped (as applicable).

- **Deployment Statistics.** This shows the average, standard deviation, minimum, maximum, and mean kinetic temperature. This data is only available after the logger has been downloaded.

- **General Settings.** This shows the logging interval and start logging settings used for the deployment.

- **Graph.** This shows a graph of the data for the deployment. This is only available after the logger has been downloaded.
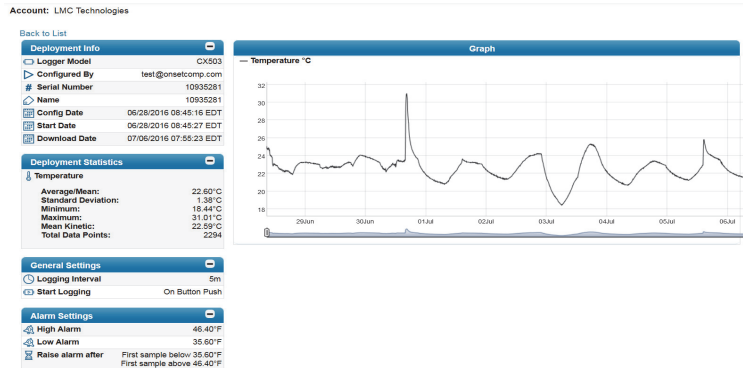

Running a Report in InTempConnect

You can run a report for a logger in InTempConnect that has been downloaded with the app (when logged in to the app as an InTempConnect user). To run a report within InTempConnect:

1. Click Devices and Data.

2. Find the logger in the list of deployments and click the Report link.

3. Select the time zone to display on the report.

4. Select the file format: PDF or XLSX.

5. Enable "Include alarm report" if you want the report to include all information related to alarms for the deployment.

6. Enable "Include tabular data" if you want the report to include all logged data points for the deployment. Note that running a report with a lot of data, such as from a logger with full memory, may take a few minutes.

7. Click Run. The report will be generated with the settings you selected.

Secure PDF reports contain the following information:

- The name and email for the user who created the report.

- The time the report was generated and information about the logger deployment, including the name, logger model and serial numbers, start date, download date, logging interval, and total data points.

- Alarm details for the deployment if "Include alarm report" was selected.

- A graph of the logged sensor data. Red shading shows the high alarm range and blue shading shows the low alarm range.
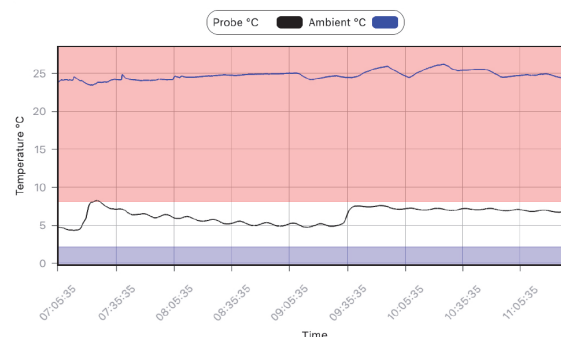
- A table with the logged data (if "Include tabular data" was selected). Readings outside the alarm limits are in red.

- Deployment statistics, including minimum, maximum, and average temperature, standard deviation, and mean kinetic temperature.

- An audit report table listing user events, including the logger start, any downloads, and logger checks and missed checks (CX400 loggers only).

- Daily statistics, including the daily minimum, maximum, and average temperature.

XLSX reports contain the following information:

- Logged probe and/or ambient sensor readings. Readings outside the alarm limits are in red.

- Events, including tripped and cleared alarms, probe disconnects and connects (CX400 loggers only), who started the logger, downloaded it, and performed checks or missed checks (CX400 loggers only).

- Daily maximum and minimum readings (on the Daily tab).

Changing InTempConnect Settings

You can change the following settings for InTempConnect.

- Click the Profile tab to change your password, name, or the default units used by the system. Click Save when done.

- **Administrators only:** Click the Users tab to view a list of all users, add a new user to your account, and enable or disable an existing user. **Note:** If you are an administrator in one account, you cannot be added as a user to other accounts. If you are not an administrator, you can be added in multiple accounts.

  The Users list displays all users associated with the account, both active and inactive. When viewing the Users list, use the arrows next to a column heading to change the sort order of the column. Use the fields below the column headings to search for specific users by username, name, or status.

  To add a new user, click Add and then type the email address, first name, and last name. Click Save when done. The user will then receive an InTempConnect email to activate the account or an email indicating they've been added to the account if the email address has already been registered with another InTempConnect account.

  To enable or disable a user, select a user and choose enable or disable.

- Click the Report & Exports tab to change the default settings used for reports in InTempConnect.

  1. Select the default time zone to be used in reports.

  2. Select the default file format: PDF or XLSX.

  3. Enable "Include alarm report" if you want the report to include all information related to alarms for the deployment.

  4. Enable "Include tabular data" if you want the report to include all logged data points for the deployment. Note that running a report with a lot of data, such as from a logger with full memory, may take a few minutes.

  5. Click Save after you've selected your settings.

Chapter 3
InTemp App Basics

The InTemp app is software for mobile devices and designed for Bluetooth® Low Energy-enabled CX series loggers. Use the InTemp app to configure loggers, download them, and view and share reports. When logged in to the InTemp app with your InTempConnect account, reports are also automatically uploaded to InTempConnect.

To begin using the InTemp app:

1. Download the app to your phone or tablet.

2. For CX400 series loggers, install the batteries and insert the external probe (if applicable).

3. Open the app and enable Bluetooth in your device settings if prompted.

4. If you will be using both InTempConnect and the InTemp app: Log in with your InTempConnect user credentials or create an InTempConnect user account and then log in.

   If you will be using the app only: Create a local user account. Enter an email address, first and last name, password, and the optional company name, notes, and profile photo (choose an existing photo or use the camera to take a new photo). Tap Save when done and then log in when prompted.

5. The logger should appear in the Loggers screen like the example below. If it does not, make sure it is within range of your phone or tablet. Tap the logger to connect to it. See Connecting to a Logger for additional connection tips.

Loggers
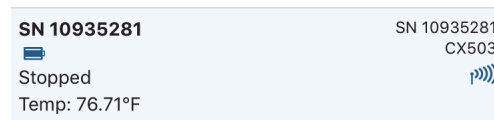
SN 10935281	SN 10935281
🔋	CX503
Stopped	📶
Temp: 76.71°F	

> **Important:** CX501 and CX502 loggers can only be started once. Do not configure these loggers until you are ready to use them.

6. Once connected, tap Configure. Swipe left and right to select one of the preset logger configurations. Type a name for the logger deployment and tap Start to load the selected configuration to the logger. **Note:** You can also create your own custom configuration under Settings.

> **Important:** Loggers configured by an InTempConnect user can then only be accessed by InTempConnect users associated with the same administrator account.

All the features within the InTemp app are accessed through the three icons at the bottom of the screen.

Tap this icon:	To do this:
Loggers	View loggers within range of your phone or tablet. Connect to a logger to configure it, perform a check (CX400 loggers only), download data, and more.
Reports	Generate logger reports and share them with others.

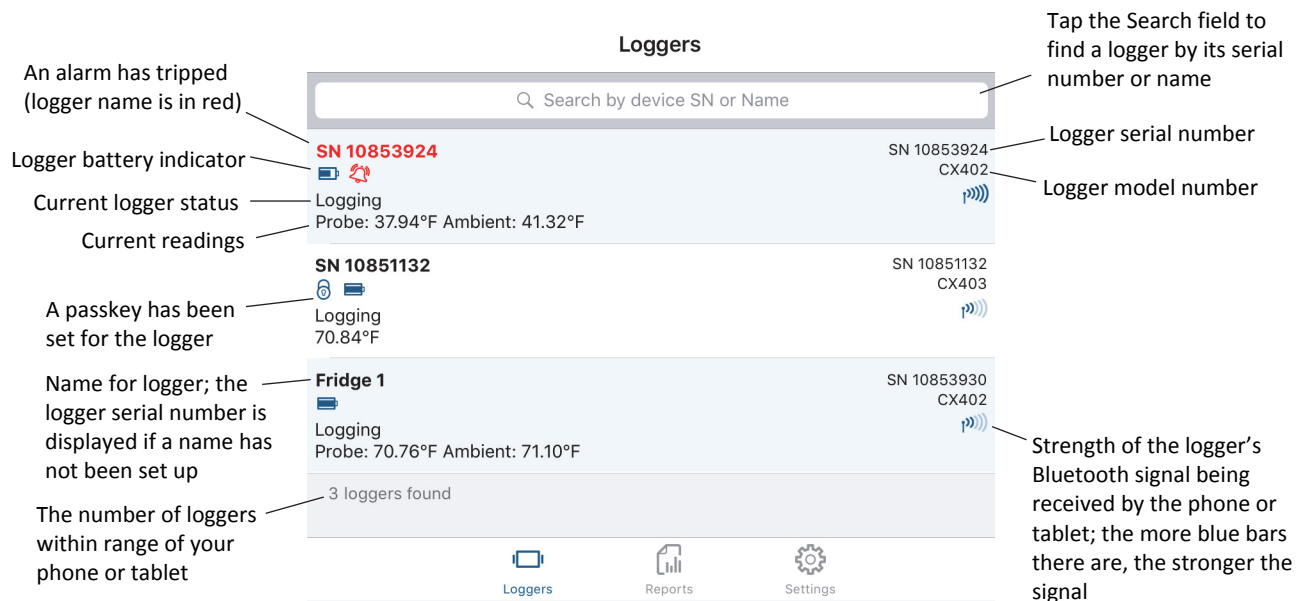| Tap this icon:	To do this:
Settings	Add or edit logger configurations, edit local users, change report settings, units, time zone, and more. Get help with the app and view contact information if you have additional questions.

Working with Loggers in the App

Tap the Loggers icon to view a list of the loggers currently in communication range of your phone or tablet. Connect to a logger within range to configure it, download data, and more.

Finding Loggers

The InTemp app uses Bluetooth Smart to communicate with all loggers within broadcast range of your phone or tablet. These loggers are displayed in the list in the Loggers screen. Each row in the list represents a single logger, which displays key information such as the deployment name, battery power, status, sensor readings, serial number, and signal strength. Swipe the screen up and down to view all loggers within range of your device; pull the screen down to refresh the list. You can also use the search tool to find a specific logger. Tap the Search field and type the serial number or name for the logger.
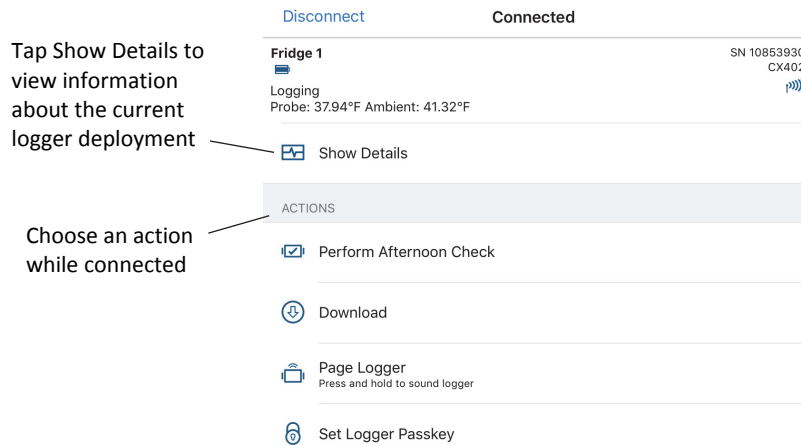
An alarm has tripped (logger name is in red)

Logger battery indicator

Current logger status

Current readings

A passkey has been set for the logger

Name for logger; the logger serial number is displayed if a name has not been set up

The number of loggers within range of your phone or tablet

Tap the Search field to find a logger by its serial number or name

Logger serial number

Logger model number

Strength of the logger's Bluetooth signal being received by the phone or tablet; the more blue bars there are, the stronger the signal

Loggers

Search by device SN or Name

SN 10853924 — SN 10853924 CX402
Logging
Probe: 37.94°F Ambient: 41.32°F

SN 10851132 — SN 10851132 CX403
Logging
70.84°F

Fridge 1 — SN 10853930 CX402
Logging
Probe: 70.76°F Ambient: 71.10°F

3 loggers found

Loggers   Reports   Settings

Note for CX400 loggers: Probe and sensor readings are displayed as "--" when the logger is stopped. "Error" is displayed if the probe is disconnected from the logger. Probe and sensor readings are updated at a different rate than the logging interval and may not match what is currently displayed on the logger LCD.

Actions Available while Connected

After you find the logger that you want to connect to, tap the row in the list. See Connecting to a Logger for tips on connecting.

Once connected, you can tap Show Details to see information about the current logger deployment, including start time, logging interval, alarm limits, and firmware version. Tap Disconnect to close the Bluetooth connection to the logger. **Note:** There can be up to a 15-second delay if the logger has moved out of range.

Tap Show Details to view information about the current logger deployment

Choose an action while connected

Disconnect   Connected

Fridge 1   SN 10853930
                                                                                      CX402
Logging
Probe: 37.94°F Ambient: 41.32°F

Show Details

ACTIONS

Perform Afternoon Check

Download

Page Logger
Press and hold to sound logger

Set Logger Passkey

You can perform the following actions while the logger is connected to your phone or tablet.

| Icon	Action	Description
	Configure	Tap Configure to set up the logger and start logging. See Configuring a Logger for details.
	Perform Check (CX400 loggers only)	Tap Perform (Morning, Afternoon, or Daily) Check when you need to record a logger check on your CX400 logger as part of your daily routine. Your user information and the time the check is performed will be recorded with the logger data and a checkmark will illuminate on the logger LCD. This action appears if Record Logger Checks in the app settings is set to either Twice Daily or Once Daily. If it is set to Twice Daily, then Perform Morning Check will be listed from 12:01 AM until 12:00 PM and Perform Afternoon Check will be listed from 12:01 PM to 12:00 AM. If it is set to Once Daily, then Perform Daily Check will be listed. A message will also appear if you do not perform a check as expected (for example, it is afternoon and a morning check was not performed). Once a check is completed, the action will change to "<Morning, Afternoon, Daily> Check Performed" as appropriate and will be grayed out. You can also set up a notification to display on your phone or tablet to remind you to perform a check. Use the Reminders option under the app settings.
	Download	Tap Download to offload data from the logger and generate a Secure PDF or XLSX report. If the logger is still logging, then you have the option to continue, restart (not available for CX501 and CX502 loggers), or stop the logger upon completion of the download. Once the download is complete, you can share the report immediately or access it later via the Reports icon. If you are an InTempConnect user, then the report will also be automatically uploaded to InTempConnect. See Working with App Reports for more details.
	Page Logger (CX400 loggers) or Page Logger LED (CX500 loggers)	**CX400 loggers:** Use this feature to locate the logger. Tap Page Logger and the logger will beep one time. Press and hold Page and the logger will continue beeping. **CX500 loggers:** Tap Page Logger LED and the two LEDs on the logger will be illuminated for 4 seconds.
	Set Logger Passkey	This option is only available when you are logged in to the app as a local user; it is not available if you are logged in as an InTempConnect user (passkeys are automatically generated for InTempConnect users). Tap Set Logger Passkey to create an encrypted passkey for the logger that will be required if another phone or tablet attempts to connect to it. This is recommended to ensure that a deployed logger is not mistakenly stopped or purposely altered by others. Type a passkey up to 10 characters, and tap Save. Only the phone or tablet used to set the passkey can then connect to the logger without entering a passkey; all other mobile devices will be required to enter the passkey. For example, if you set the passkey for the logger with your tablet and then try to connect to the device later with your phone, you will be required to enter the passkey on the phone but not with your tablet. Similarly, if others attempt to connect to the logger with different devices, then they would also be required to enter the passkey. To reset a passkey, tap Reset to Factory Default on the Set Logger Passkey screen or simultaneously press both the top and bottom

Icon	Action	Description
		button on a CX400 logger for 3 seconds. **Note**: A passkey set from this menu will override the default passkey listed in the app settings. If you would rather use a default passkey, enable Default Logger Passkey in app settings and type a passkey there. You then do not need to set a passkey from this screen. The logger will automatically be configured with the default passkey.
	Update Firmware	If new logger firmware is available for the logger, Update Firmware is added to the list of available actions. Tap Update Firmware and follow the onscreen instructions. Note that if there is a communication failure during the firmware update process, the logger will revert to the previous firmware.
		Important: Before updating the firmware on the logger, always download the logger first (CX400 and CX503 loggers). Check that the logger is showing at least two bars on the battery indicator. Make sure you have the time to complete the entire update, which requires that your device remains within range of the logger during the update process. The update will take a few minutes to complete. Do not switch to another app, turn off Bluetooth, or disturb the logger while the update is underway.
	Force Offload	If there is a problem with the logger, Force Offload is added to the list of available actions. A message may also appear above the actions indicating that an error was found in the logger configuration. It is recommended that you tap Force Offload any time it appears in the list to ensure you have saved all data currently stored in the logger. To correct a logger that has encountered an error, configure the logger (CX400 and CX503 loggers only).

Working with App Reports

You can download a logger and generate a report in Secure PDF or XLSX format that includes logged data, user activity, alarm information, and more. Reports can be shared immediately upon download or accessed later in the app. If you are logged in to the app as an InTempConnect user, then reports are also automatically uploaded to InTempConnect. To download a logger, connect to it and then select a download option. See Downloading a Logger for more details.

Secure PDF reports contain the following information:

- The name and email for the user who created the report and any notes associated with that local user profile (not available when logged in as an InTempConnect user).

- The time the report was generated and information about the logger deployment, including the name, logger model and serial number, start date, download date, logging interval, and total data points.

- Alarm details for the deployment, including the high and low alarm limits, number of tripped alarms, duration of alarms, number of probe disconnects (CX400 loggers only), elapsed time outside the alarm limits, and elapsed time the probe was disconnected (CX400 loggers only).

- A graph of the logged sensor data. Red shading shows the high alarm range and blue shading shows the low alarm range.
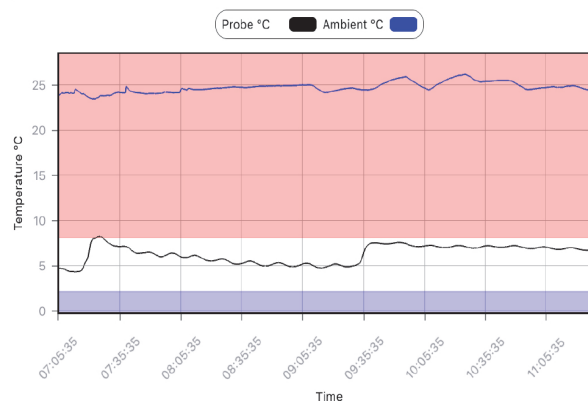
- A table with the logged data (if Include Table Data in PDF is enabled in the app settings). Readings outside the alarm limits are in red.

- Deployment statistics, including minimum, maximum, and average temperature, standard deviation, and mean kinetic temperature.

- An audit report table listing user events, including the logger start, any downloads, and logger checks and missed checks (CX400 loggers only).

- Daily statistics, including the daily minimum, maximum, and average temperature.

- An alarm report detailing the start and end time for each alarm and the maximum or minimum temperature during the alarm.

XLSX reports contain the following information:

- Logged probe and/or ambient sensor readings. Readings outside the alarm limits are in red.

- Events, including tripped and cleared alarms, probe disconnects and connects (CX400 loggers only), who started the logger, downloaded it, and performed checks or missed checks (CX400 loggers only).

- Daily maximum and minimum readings (on the Daily tab).

Viewing, Sharing, and Deleting Reports in the App

The reports that are available to share are listed in the Reports screen. Each report listed includes the deployment name, the timeframe represented on the report, and user actions such as logger start time and download time. User actions are listed with the user picture (if available; local app users only). **Note:** If you are logged in as an InTempConnect user, this list will only contain reports that have been downloaded on your phone or tablet and reports that were downloaded under the same user account that configured the logger.
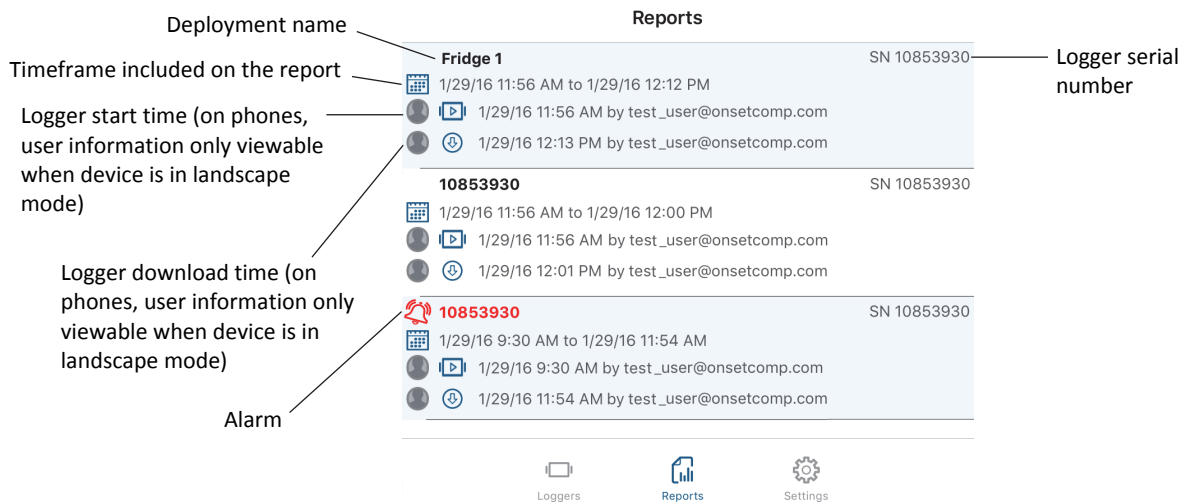
To share a report from the app:

1. Tap the Reports icon.

2. Tap the report you want to share. The report will be generated in the default type.

3. If Report Sharing is set to Offer All Options in the app settings, then select an option for sharing the report (the options will vary based on your device). If Report Sharing is set to Email Automatically in the app settings, then an email opens for you to send.

To select the format of the report you wish to share:

1. Tap the Reports icon.

2. Swipe left on the report you want to share.

3. Tap Share PDF or Share XLSX.

4. If Report Sharing is set to Offer All Options in Settings, then select an option for sharing the report (the options will vary based on your device). If Report Sharing is set to Email Automatically in Settings, then an email opens for you to send.

To delete a report in the app:

1. Tap the Reports icon.

2. Swipe left on the report you want to delete.

3. Tap Delete Report.

Note: If you are logged in as an InTempConnect user, the report will still be available in InTempConnect even if it is deleted from the app if the phone or tablet was connected to the internet at the time of the original download. If you downloaded the logger while your phone or tablet was not connected to the internet, then the report will not be available in InTempConnect.

Changing App Settings

Tap the Settings icon to access the following app settings.

Users

If you are only using the app with your logger (not using InTempConnect) and logged in as a local user, you can edit your local user profile, add new local users, and enable or disable local users.

To edit an existing user:

1. Tap the Settings icon and then tap Users.

2. Tap the user you want to edit.

3. Change any of the fields or photo as needed.

4. Tap Save.

To add a new user:

1. Tap the Settings icon and then tap Users.

2. Tap Add User.

3. Enter the email address, first and last name, password, company (optional), notes (optional), and profile photo (optional, choose an existing photo or use the camera to take a new photo).

4. Tap Save. The new profile will be added to the list of users for the app. Log out of the app if you want to switch to a different user. Tap List Users on the Login screen to select a different user. Note: You can also set up a new profile by tapping Create User in the Login screen.

To enable or disable a user (if more than one exists):

1. Tap the Settings icon and then tap Users.

2. Tap the user you wish to enable or disable.

3. Change the Enabled setting and tap Save. The profile will then be moved to either the Enabled or Disabled Users list accordingly. **Note:** You cannot disable a user currently logged into the app.

CX400 and CX500 Logger Configurations

A logger configuration contains the settings used to set up and start a logger, such as the logging interval, start mode, and alarm limits. The InTemp app includes presets for common configurations used by the logger. You can also create or delete your own custom configuration, copy or edit an existing configuration, enable or disable configurations, and change the configuration sort order.

To create a new configuration:

1. Tap the Settings icon and select CX400 or CX500 Logger Configurations.

2. Tap the plus in the upper right corner.

3. Type a configuration name.

4. Tap Logging Interval. Select a logging interval and tap Save.

5. Tap Start and select one of the following start options:

   - **Immediately.** The logger will begin logging immediately.

   - **On next even interval.** The logger will begin logging on the next even interval (such as 11:00 or 11:05).

   - **On date/time.** The logger will begin logging on a date and time you specify. Note that the specific date and time is not selected now. You will select the date and time when you configure the logger.

   - **After a fixed delay.** The logger will begin logging after a certain period of time, such as five minutes or three hours.

   - **On button push.** The logger will begin logging when you press the Start button on the logger.

   - **On button push after a fixed delay (CX500 loggers only).** The logger will begin logging when you press the Start button after a delay that you select (for example, if you choose a fixed delay of one hour, then you will be able to press the button to start the logger one hour after the logger is configured). Choose the delay and then tap Save.

6. For CX500 loggers: Enable "Stop on button push" if you want to be able to stop the logger by pressing the button.

7. Enable the High Alarm and Low Alarm if desired. Enter an alarm limit for each. For a high alarm, an alarm will trip if the sensor reading rises above the value you enter in the High Alarm field. For a low alarm, an alarm will trip if the sensor reading falls below the value you enter in the Low Alarm field.

   If you set up an alarm, tap "Trip alarm after" and select how many minutes should pass before the alarm trips. If you want an alarm to trip immediately on the first reading outside the limits, set "Trip alarm after" to zero. **Note:** For CX500 loggers, you can select a different amount of time to pass before the alarm trips for both the high and low alarm. For CX400 loggers, you can only select a set amount of time for both the high and low alarms.

   Tap either Cumulative or Consecutive. If you select Cumulative, the alarm will trip when the time the sensor is out of range over the course of the deployment is equal to the selected duration. If you select Consecutive, the alarm will trip when the time the sensor is continuously out of range is equal to the selected duration. For example, if you select Cumulative and the high alarm is set to 45°F with a "Trip alarm after" time of 30 minutes, then an alarm will trip once the sensor reading has been at or above 45°F for a total of 30 minutes since logging started. This could be 15 minutes above 45°F in the morning and then 15 minutes above 45°F again in the afternoon. If Consecutive was selected instead, then the alarm would only trip if all sensor readings were at or above 45°F for a continuous 30-minute period. **Note:** For CX500 loggers, you select Cumulative or Consecutive for the high and low alarms separately. For CX400 loggers, this setting is shared by the high and low alarms.

   Tap Save in the Alarm Trip Settings screen.

8. For CX400 loggers: If you set up an alarm, enable "Audible Alarm on Trip" if you want the logger to beep when a high or low alarm trips.

9. Tap Save in the Create Configuration screen when done selecting all settings. The new custom configuration is added to the list of enabled configurations.

To enable or disable a configuration:

1. Tap the Settings icon and select CX400 or CX500 Logger Configurations.

2. Swipe left on the configuration you want to enable or disable.

3. Tap Enable or Disable. The configuration will then be moved to either the Enabled or Disabled Configurations list accordingly. Disabled configurations will not be shown when configuring connected loggers.

The order of enabled configurations from top to bottom will be displayed left to right when configuring the logger. To change the set order of appearance when configuring the logger:

1. Tap the Settings icon and select CX400 or CX500 Logger Configurations.

2. Tap the pencil icon.

3. Tap and hold on a configuration and drag it to the position you want it to appear. Repeat for any other configurations you want to reorder.

4. Tap Done.

To return to the default sort order (which is custom configurations listed from top to bottom in the order they were created followed by any preset configurations), tap the pencil icon and tap Default Sort in the bottom right corner.

To copy a configuration:

1. Tap the Settings icon and select CX400 or CX500 Logger Configurations.

2. Swipe left on the configuration you want to copy.

3. Tap Copy.

4. Type a name for the new configuration.

5. Make any modifications to the existing settings and tap Save.

To delete a custom configuration (preset configurations cannot be deleted):

1. Tap the Settings icon and select CX400 or CX500 Logger Configurations.

2. To delete a single configuration, swipe left on the configuration you want to delete and tap Delete.

   To delete multiple configurations at a time, tap the pencil icon, tap each configuration you want to delete, and then tap the trash can icon.

Reports

You can change the following report settings for the app:

- **Default Report.** Switch between PDF and XLSX. When the logger is downloaded or if you tap a report in the Reports screen, a report is generated in the default report type. Note that regardless of the default report type selected, you can generate a report in either format by swiping the report in the Reports screen and selecting PDF or XLSX.

- **Include Table Data in PDF.** Enable this option if you want to include all logged data and events in a table at the end of the PDF report (table data is always included in XLSX reports). Note that generating a PDF with large data tables (such as from a logger with full memory) may take a few minutes and may not be able to be emailed.

- **Report Sharing.** Select Offer All Options if you want to view all sharing options for your device each time a report is generated. Select Automatically Email if you want to email a report after it is generated (an email will open that you can edit if desired and send).

- **Default Email Settings.** This option is available when Automatically Email is selected for Report Sharing. Use this if you want the report email message to be pre-populated with a default email address and subject line. Enter one or more email addresses in the Recipients field. Use the plus icon to add addresses from your contact list. Type a default subject in the Subject field. If no subject is entered, the report filename will be listed in the subject line.

- **Use System Time Zone**. Enable this if you want the app to use the same time zone as your phone or tablet. If you want the app to use a different time zone than your phone or tablet, disable this setting and then select the desired time zone. Changes will not take effect with the logger until the next time it is configured. The times listed in the Reports screen will continue to show the time zone in place when the logger was configured. However, the new time zone will be used within an existing report when you share it.

Other Options

You can also change the following app options:

- **Units.** Switch between °F and °C units. The units displayed in the app and generated reports will automatically be updated when you change units. If a CX400 logger is currently logging, the units displayed on the LCD will show the units that were selected at the time the logger was configured. Unit type on the LCD will not change until the logger is reconfigured.

- **Record Logger Checks (CX400 loggers).** Choose Twice Daily, Once Daily, or Never. If you choose Twice Daily, a Perform Morning Check action will be listed in the Connected screen from 12:01 AM until 12:00 PM and then Perform Afternoon Check will be listed from 12:01 PM to 12:00 AM. If you choose Once Daily, an action will be listed in the Connected screen to Perform Daily Check. Once the action is completed, it is recorded as a logged user action available for view in an XLSX report and the action is listed as performed in the Connected screen. Missed checks will also be recorded by the logger itself. Changes to this setting will take effect the next time the logger is configured.

- **Reminders (CX400 loggers).** If you have set up logger checks, then you can also set up a notification to appear on your phone or tablet to remind you to perform the check. Tap Reminders and then select Enable Reminders. Set the time for the daily reminder (if Record Logger Checks is set to Once Daily) or both the morning and afternoon reminders (if Record Logger Checks is set to Twice Daily). Tap Save when done.

- **Default Logger Passkey (local account users only; not available when logging into the app as an InTempConnect user).** Enable this if you want to automatically set a default encrypted passkey for each logger that you configure. Type the passkey you want to use (up to 10 characters). Only the phone or tablet used to configure the logger will be able to connect to the logger without entering the passkey; all other mobile devices will be required to enter it. Note that you can override this default passkey when configuring the logger by selecting Set Logger Passkey in the Connected screen. You can also reset a passkey by tapping Set Logger Passkey when connected to the logger and selecting Reset to Factory Default or by simultaneously pressing both the top and bottom button on a CX400 series logger for three seconds. However, if Default Logger Passkey remains enabled, then the logger will be loaded with your default passkey the next time you configure it.

Diagnostics & Troubleshooting

- **Send Metrics to Onset.** Enable this to share information about the software for troubleshooting and future enhancements.

- **Capture App Diagnostics and View and Share Diagnostics.** Enable these options only when directed by Onset Technical Support.

Chapter 4
More Information

Additional information about all Onset products is available at www.onsetcomp.com.

For additional help with CX loggers, the InTemp app, or InTempConnect, contact Onset Technical Support at 1-800-LOGGERS or 508-759-9500 or visit www.onsetcomp.com/support/contact.

FAQs

Why isn't my logger appearing in the list on the Loggers screen?

- The logger is not within range of the phone or tablet or something is obstructing the communication. Move closer to the logger. The range for successful wireless communication is approximately 30.5 m (100 ft) with full line-of-sight.

- Bluetooth may not be enabled for your device. Make sure Bluetooth is enabled in your phone or tablet's settings.

- The CX400 logger may need new batteries. Symbols will appear on the logger LCD if the batteries have enough voltage remaining and are installed properly.

I see my logger in the Loggers screen, but I can't connect to it. What can I do?

- Close the app and then reopen it.

- Power cycle the mobile device (turn the power off, wait a few seconds, and then turn it back on) and try connecting again.

I was setting up my logger and then I lost the connection. Will my logger still start?
If you did not tap Start before the connection was lost, then the configuration settings will not be loaded to the logger and it will not start logging. Connect to the logger again, finish choosing your configuration settings, and then tap Start.

How do I lock my logger so that no one else can configure it?
If you are logged in to the app as a local user (not using InTempConnect), you can set a passkey for the logger. Connect to the logger and tap Set Logger Passkey. Enter a password up to 10 characters. The passkey will then be required any time another mobile device attempts to connect to the logger. The device that configured the logger, however, will automatically retain the passkey so you do not have to type in a passkey each time that device connects to the logger.

If you are an InTempConnect user, a passkey is automatically generated for each individual user associated with the same administrator account.

How do I reset the passkey on a logger?
If you are logged in to the app as a local user (not using InTempConnect), tap Reset to Factory Default on the Set Logger Passkey screen or simultaneously press both the top and bottom buttons on the logger for three seconds (CX400 loggers only).

If you are logged in to the app as an InTempConnect user and you see an invalid passkey message, it is because your user account is not associated with the administrator account used to configure the logger. Contact your InTempConnect administrator for help.

How do I offload my logger?
Connect to the logger and tap Download. Once the download is complete, a report is generated for sharing.

It is taking more than a minute to download my logger. Is this normal?
A logger with a full memory should take a minute or less to download. If the download is taking longer than a minute, move the mobile device closer to the logger, within a few feet if possible. The further away the mobile device is from the logger, the longer the download can take.

I changed the units in the app settings. Why is my CX400 logger still displaying the old units?
The units displayed on the CX400 logger LCD can only be changed if the logger is reconfigured. To change the units on the logger LCD, select the desired units in Settings, connect to the logger, tap Configure, choose a configuration, and tap Start. The new units will be displayed on the LCD when logging restarts.

I switched to another app and when I returned to InTemp, the Loggers screen was blank. What should I do?
Switch to another screen in InTemp and then switch back. The screen should then appear again as normal.

I am logged into the app as an InTempConnect user and I'm seeing an invalid passkey message when I try to connect to the logger. What do I do?
Only active users associated with the same InTempConnect administrator account used to configure the logger can connect to it. Check with your administrator and make sure your user account is enabled.

Can I log in as an InTempConnect user and a local user with the same logger?
Only until the logger is configured. If you are logged into the app as an InTempConnect user and configure the logger, then you will only be able to connect to that logger in the future as an InTempConnect user.