G.S.I Web Application

Getting Started Guide

Version: 2.0.5.3, January 2013

Copyright

Information in this documentation is subject to change without notice and does not represent a commitment on part of Galcon. The software described in this document is subject to the license agreement that is included with the product, which specifies the permitted and prohibited uses of the product.

Any unauthorized duplication or use of this documentation, in whole or in part, in print, or in any other storage or retrieval system is prohibited. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form by any means for any purpose other than the purchaser's personal use without the permission of Galcon.

© 2012 Galcon. All rights reserved.

Contact Us

Galcon

Kfar Blum 12150, Israel

Tel: 972-4-6900222

Fax: 972-4-6902727

E-mail: info@galconc.com

Visit us at: www.galconc.com

Table of Contents

1 About Galcon Smart Irrigation (G.S.I) 5

Getting Additional Help 5

G.S.I Controller Web Application Online Help 5

Contact Galcon Support 5

2 Getting Started 7

Logging In 7

Main Sections of the Interface 8

3 Three Steps to Start Irrigating 10

Performing an Irrigation Test 11

Setting Up Your First Irrigation Program 13

Setting Up Alerts Notifications 15

Opening Stations Manually 16

1 About Galcon Smart Irrigation (G.S.I)

The Galcon G.S.I Web Application allows you to control and manage your G.S.I Controller units remotely.

The application is available anywhere, anytime using any Internet browser. Communication is based on cellular network or Ethernet network. A user-friendly interface offers:

- Create and manage your irrigation projects
- Create and manage irrigation project users
- Assign G.S.I Controller units to irrigation projects
- Assign users to irrigation projects

Getting Additional Help

You can use any of the following resources for additional help not provided in this guide.

G.S.I Controller Web Application Online Help

Fully detailed online help is available directly from the product user interface.

Contact Galcon Support

You can contact Galcon support for any further assistance at: http://galconc.com/contact-us.

2 Getting Started

This section describes how to log into the G.S.I web application and explains about the main sections of the interface.

As the following diagram shows the workflow for getting the G.S.I Controller unit to start irrigating can be boiled down to just three steps.

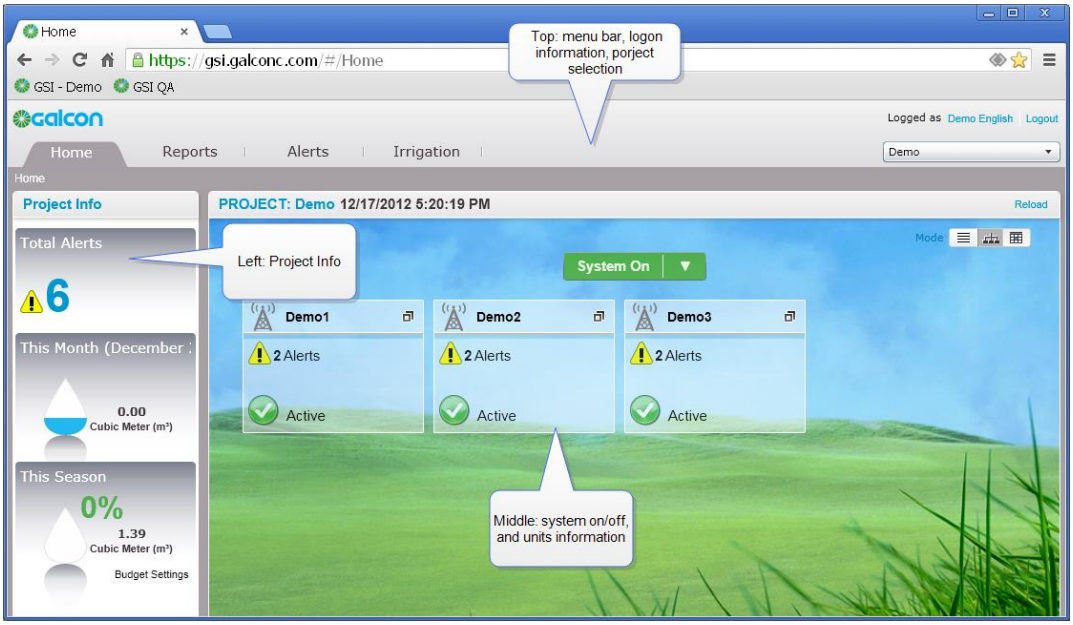
Logging In

After purchasing units and licenses from your Galcon distributor, you can access the G.S.I Web Application.

Your Galcon distributor has already setup a project for you in the system.

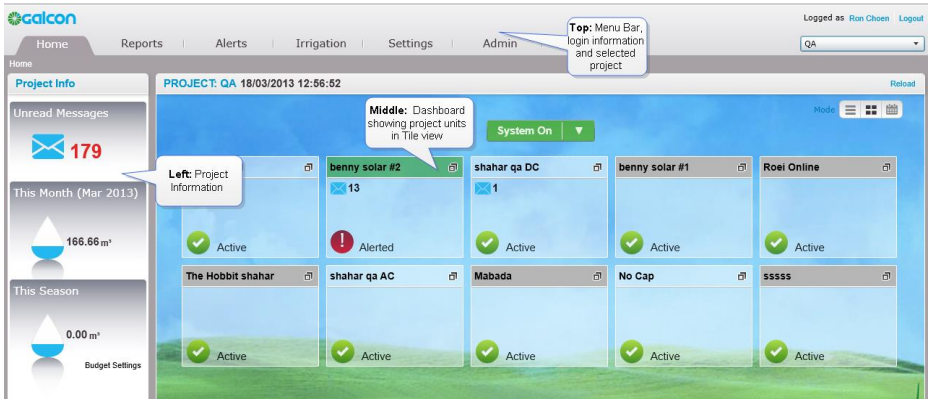
To log in:

1. Type in the following address in your Internet browser: https://gsi.galconc.com.
   - If the log in screen appears, continue to **Step 2**.
   - If the Install Microsoft Silverlight message appears, follow these instructions:
     a. Click the Click now to install button.
     b. Click Run to start the download.
     c. Click Run to start the installation.
     d. When the Install Silverlight message appears, click Install Now.
     e. When the Installation Successful message appears, click Close.
2. In the log on screen, enter your user name and password that you received from your distributor. The G.S.I web application home page appears.



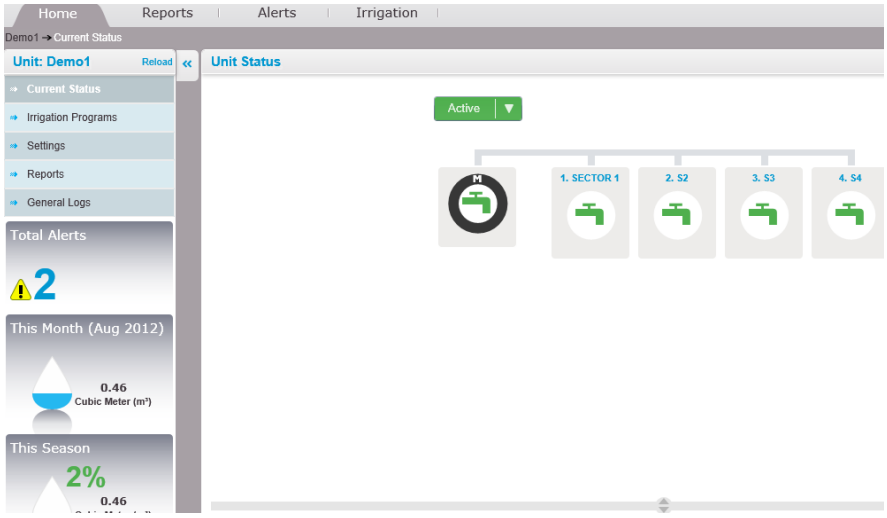
Main Sections of the Interface

- **Top**. The top portion of the interface displays a menu bar, the currently logged in user, and the current project selection.
- **Left**. The left side displays accumulative project data that is constantly updating as the irrigation progresses:
    - Total number of unread alerts for all units
    - Water accumulation (cubic meter) for the current month
    - Water accumulation (percentage and cubic meter) for the whole season
- **Middle**. The middle section displays unit information in three modes:
    - **Dashboard** - displays your entire project units. You can choose between Tile view (default), Tabular view, or Irrigation Schedule view using the Mode icon . For more information, see Using Dashboard Views.



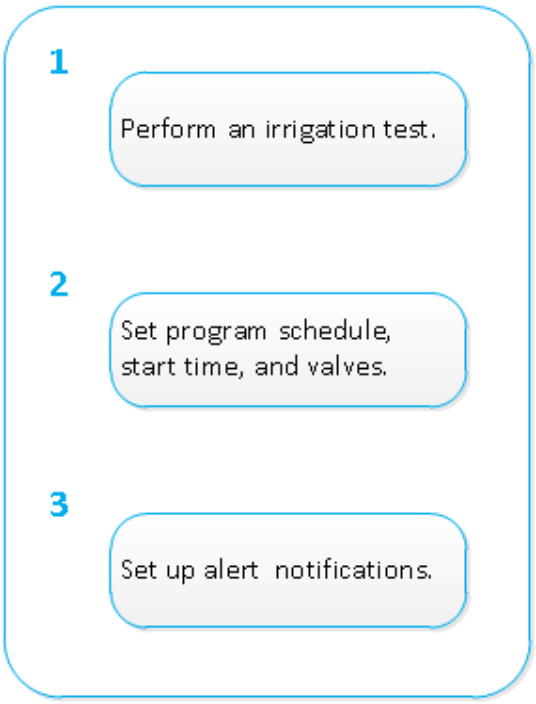
- **Expanded Unit** - displays an expanded view for a single unit. This view provides additional unit data as well as links to Unit Settings and Irrigation Programs.

- **Single Unit** - displays detailed information for a single unit, specify unit settings, set irrigation programs, generate unit reports, and view general logs.



3 Three Steps to Start Irrigating

This section works you through the steps of getting your first irrigation program up and running. As the following diagram shows, the workflow for getting the G.S.I Controller unit to start irrigating can be boiled down to just three steps.



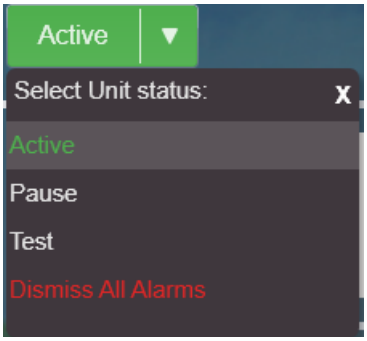
Performing an Irrigation Test

Before setting irrigation programs, Galcon recommends that you test the unit stations. You can do that from the unit expanded view or from the unit main page.

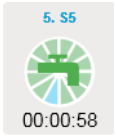
To perform an irrigation test:

1. In the G.S.I web application main screen, click the Maximize icon, or pause on a unit and then click to expand the unit.

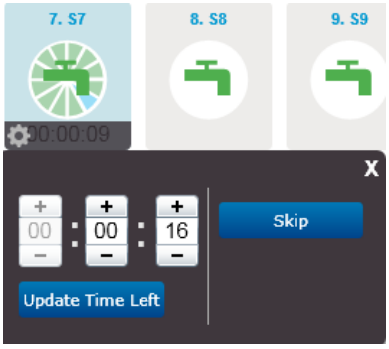
2. In the unit expanded view, click Active and select Test:

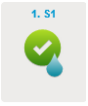


The unit begins the test program - each station (valve) is opened sequentially for one minute. While the unit is testing the stations, several indications appear on the screen:

Display	Indicating
	The unit is now irrigating and showing the number of station out of the total number of stations.
	The Main Valve is open (swirling) and the current flow rate (if you have installed a water meter).
	The currently open station and the time left for irrigating.

3. At any point, you can hover over the irrigating station until a chain ring icon appears . You can then, click the chain ring and adjust the time left for the cycle or skip to the next station.





A station that successfully completed a testing cycle displays a green checkmark:

A station that has not completed the cycle successfully displays:

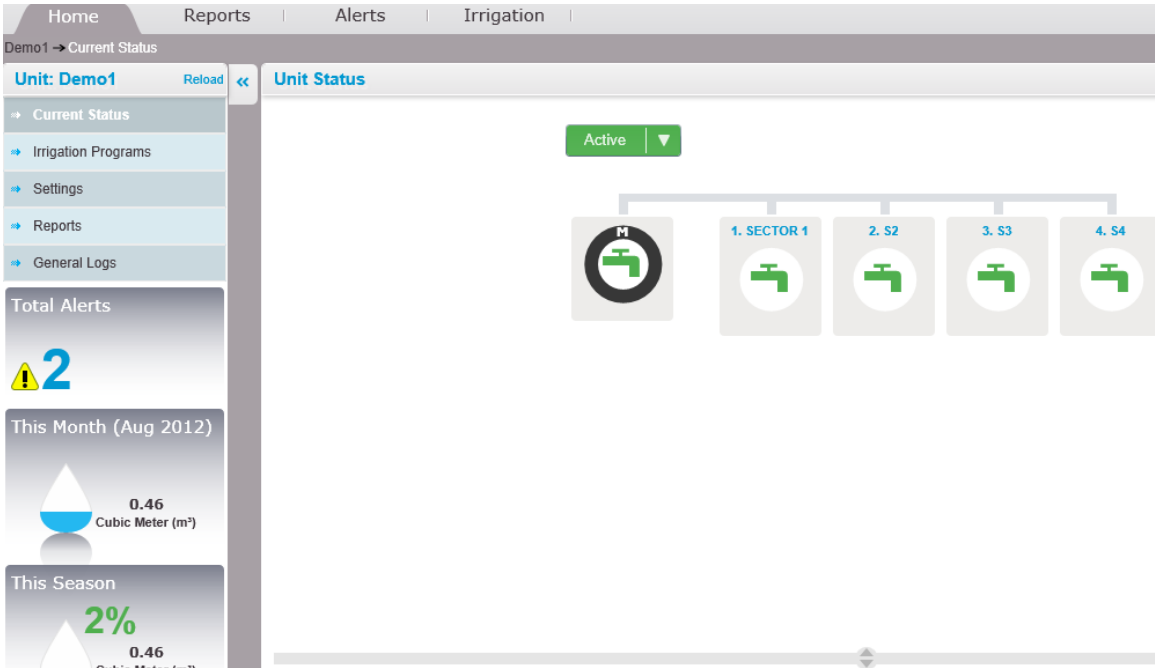
Setting Up Your First Irrigation Program

In this step, you set up an irrigation program so that the G.S.I Controller units can start irrigating.

To set up an irrigation program:

1. Drill down to the Unit page by clicking the unit name:

   The Unit page appears.



Note:	When you drill down to the Unit page, additional menu bar appears on the left. The total alerts, monthly, and season accumulations are **per the unit in display**.

2. Click Irrigation Programs (on the left).

   For each unit, the system provides eight different irrigation programs. By default, the program appears as untitled until you rename them.

3. Select one of the programs. Then, enter details in the middle section as follows:

4. Name your program, by clicking its title and typing in a new name.

5. **Set Scheduling:**

   Weekly – program is based on specific days of the week. Select the days of the week in which you want to irrigate.

Cyclic – program is based on cycles regardless of the week days. This option is best if you want to set a program with a constant interval between the cycles. Select the program start date and then set the interval between cycles in days.

6. **Set Start Times:**

   For each program, you can set up to four start time. When you set multiple start times, make sure you allow enough time for irrigating before the next start time.

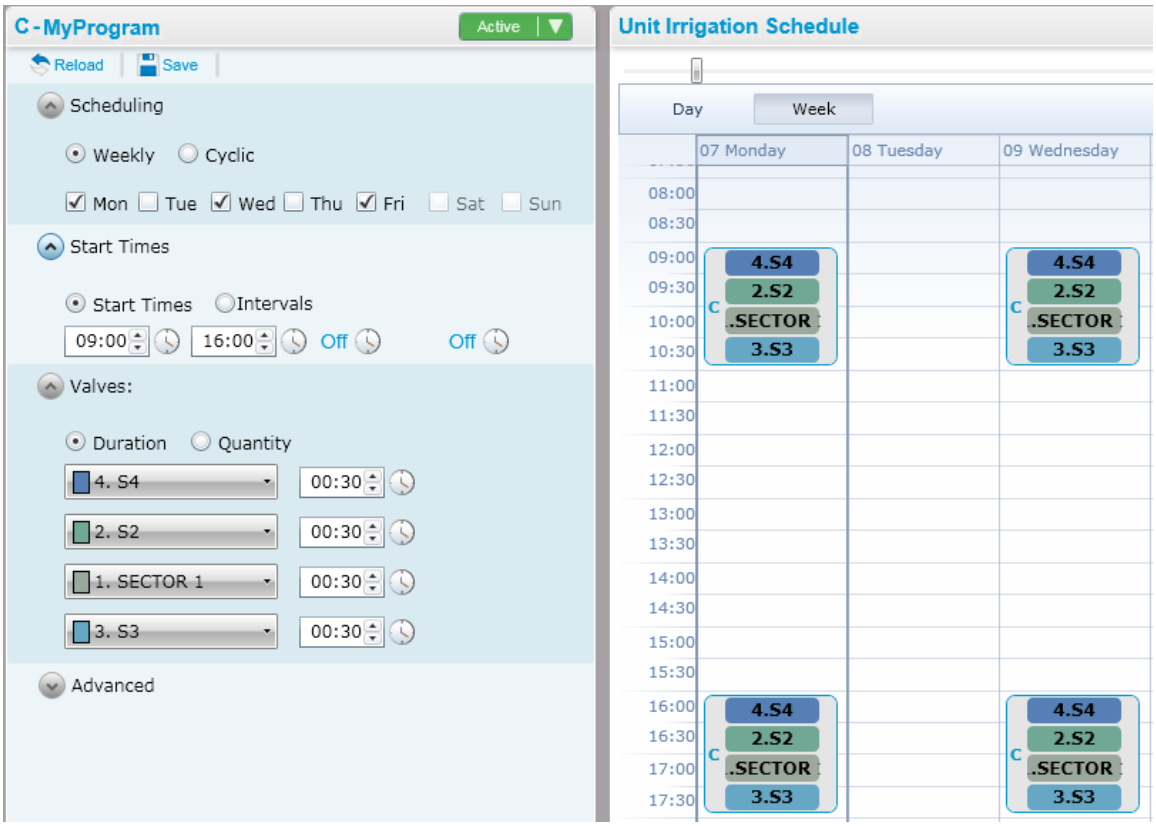
7. Set Valves:

   Select Duration and then select the valves that you want to open by selecting the irrigation duration from the list next to the valve. A valve that is not set with duration will not be opened.

8. Click Save.

   The program appears immediately in the Unit Irrigation Schedule on the right.

   The following image shows an irrigation program that is scheduled for every Monday, Wednesday, and Friday; with two openings one at 9am and the second at 16pm; at each opening, all four valves are opened for 30 minutes.



Setting Up Alerts Notifications

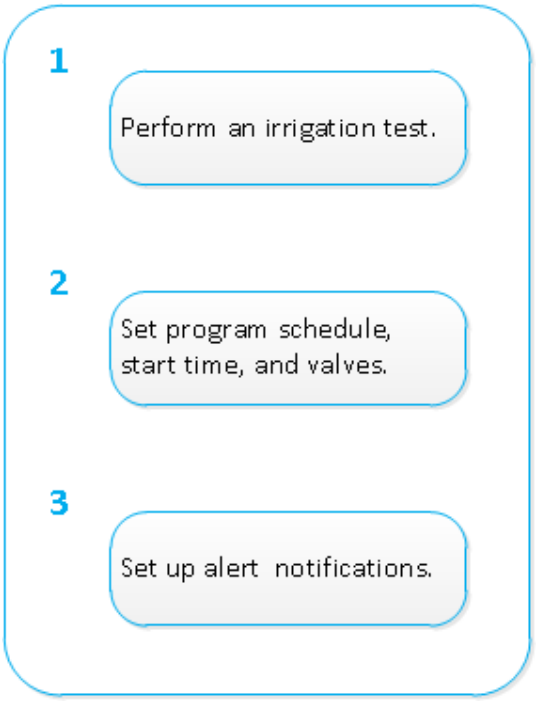
In this step, you set up alert notifications which are an important part for monitoring irrigation. The G.S.I web application provides an alert system to keep you up to date at all times with the current status of your irrigation units.

Note:	You can start irrigating without setting any alerts. However, alerts are very important for making sure that on one hand plants get enough water and that water does not go to waist on the other.

To set up alert notifications:

4 Drill down to the unit as described in "Three Steps to Start Irrigating

This section works you through the steps of getting your first irrigation program up and running. As the following diagram shows, the workflow for getting the G.S.I Controller unit to start irrigating can be boiled down to just three steps.



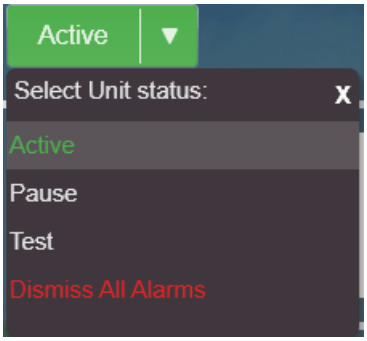
Performing an Irrigation Test

Before setting irrigation programs, Galcon recommends that you test the unit stations. You can do that from the unit expanded view or from the unit main page.

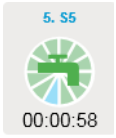
To perform an irrigation test:

9. In the G.S.I web application main screen, click the Maximize icon, or pause on a unit and then click to expand the unit.

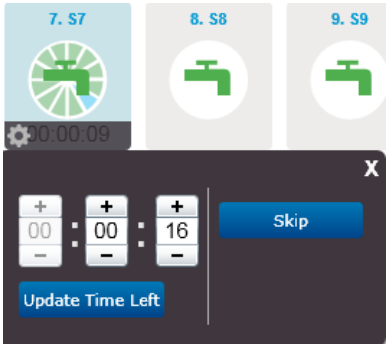
10. In the unit expanded view, click Active and select Test:

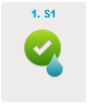


The unit begins the test program - each station (valve) is opened sequentially for one minute. While the unit is testing the stations, several indications appear on the screen:

Display	Indicating
	The unit is now irrigating and showing the number of station out of the total number of stations.
	The Main Valve is open (swirling) and the current flow rate (if you have installed a water meter).
	The currently open station and the time left for irrigating.

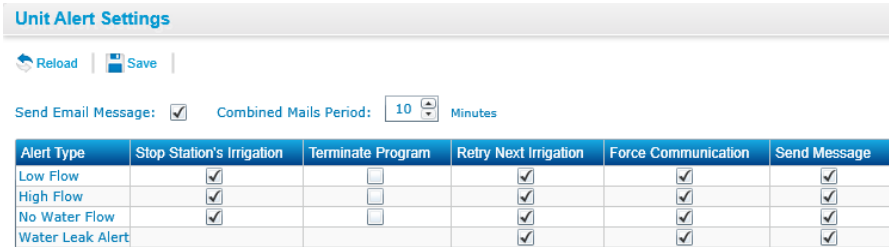
11. At any point, you can hover over the irrigating station until a chain ring icon appears . You can then, click the chain ring and adjust the time left for the cycle or skip to the next station.



A station that successfully completed a testing cycle displays a green checkmark: 

A station that has not completed the cycle successfully displays:

1. Setting Up Your First Irrigation Program" on page 10.
2. In the left menu, click Settings > Unit Settings, and expand the Water Meter section.
3. Make sure the Use Water Meter option is selected.
4. Enter the Pulse Size as detailed in the water meter specifications.
5. (*Optional*) Select the Enable Leak Detection option to allow alerts when no valve is open, but the water meter detects flow.
6. Use the default settings for the rest of the options and click Save.
7. Under the Settings menu, select Alert Settings. The Unit Alert Settings is displayed.
8. The Unit Alert Settings are defined by default. Make sure that the options as set as shown in the figure below and click Save.



9. Under the Settings Menu, select Station Settings.
10. In the Set Nominal Flow row, enter the flow rate for each one of the unit's stations (valves). You can obtain this value by calculating the line flow rate.

    Galcon recommends that you irrigate at least once, and then click the Copy values from last irrigation option to automatically enter values from the actual measured flow rate.

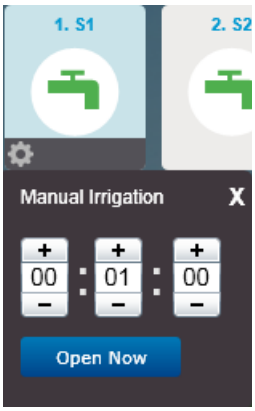
11. Use the default values for the rest of the rows and click Save.

Opening Stations Manually

Using the G.S.I web application, you can manually open any station of an online unit.

To manually open a station:

1. Point to the station that you want to open until the chainring icon appears.
2. Click the chainring and set the time of irrigation in hours, minutes, or seconds.



3. Click Open Now.