OneHome: **IrrigationBrick Guide**

PART NUMBER: HW-EBI-100   IRRIGATIONBRICK

OneHome® Management and Control Solutions

Welcome

Welcome to the **IrrigationBrick Guide**, which covers installation, configuration and operation. The **Irrigation**Brick is an easy-to-use management and control solution that works with the following irrigation controllers:

- o   Hunter SRC, SRC Plus, Pro-C, ICC

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GETTING HELP

The HomeLogic Web Site

Our Web site contains useful information in several locations:

The **Getting Started** page provides a good overview for someone looking for the big picture. Check the **Sample Systems** on that page to get a feeling for which features are important to you

The **Products** page lists available products in the navigation at the left: click on an individual item for details including features, benefits, and specifications, as well as a link to a high quality PDF brochure.

The **Support** page contains additional pages as follows:

- o The **Compatible Systems** page lists currently supported sub-systems.
- o **Integration Notes** are available for each sub-system by clicking on the specific sub-system on the Compatible Systems page mentioned above. The Integration Notes provide useful information for installing, configuring and troubleshooting supported sub-systems.
- o **Links to third party tools and documentation** are available: these include manuals and software tools used to install and troubleshoot third party equipment.

Documentation

The following documentation is available from HomeLogic:

- o Product **Installation Guides** (such as the one you currently are reading) are included with the product, and include instructions to install and, in some cases, configure the product.
- o **Integration Notes** are available on our Web site, and provide useful information for installing, configuring and troubleshooting supported sub-systems.
- o The **One**Home Reference Guide is provided to Certified Dealers, and includes useful information on a wide variety of topics, including a **One**Home system overview, networking basics, and a detailed description of the **One**Home Configurator.

Email Support

Support is available at support@homelogic.com. During our regular business hours, it is our intent to return emails within 60 minutes. Support emails are also frequently monitored during evenings and weekends.

Our regular business hours are Monday through Friday, 8:30 am to 5:30 pm. If you would like to schedule support during other times of the day please contact us at the number above.

Telephone Support

Telephone support is available from our Marblehead office during regular business hours at (781) 639-5155. Our regular business hours are Monday through Friday, 8:30 am to 5:30 pm.

If you would like to schedule support during other times please contact us to make arrangements.

SECTION 1: INSTALLING THE IRRIGATIONBRICK

To install the **Irrigation**Brick you will need to complete the following steps, which are described in the following paragraphs:

1. Mount the **Irrigation**Brick to a suitable location

2. Connect the **Irrigation**Brick to the irrigation controller

3. Connect the **Irrigation**Brick to the network or a computer

System Pre-Requisites

These instructions assume that you have already installed the irrigation controller. In addition, it is recommended that you perform any basic system testing called for by the installation instructions for the irrigation controller.

Important Note on the Hunter Controllers

The **One**Home system communicates with the Hunter controllers using the Hunter SmartPort®, which is a one-way communication link. As a result, any schedule information on the controller cannot be read by the **One**Home system.

The Hunter irrigation controller should be left in the **OFF** position for day-to-day operation by the **One**Home system. With the controller in the **OFF** position, the **One**Home system will be able to turn on and off any zone, as well as detect the state of the rain sensor.

Manual operation of any zone directly from the irrigation controller is available at any time, as with any standard Hunter installation. Return the controller to the **OFF** position when finished.

IrrigationBrick Package Contents

The **Irrigation**Brick package contains the following items:

- **Irrigation**Brick

- **Irrigation**Brick Installation and User Guide

- One standard Cat5 Ethernet cable to connect the **Irrigation**Brick to a local area network

To complete the installation, you will also need to provide the following:

- A LAN (Local Area Network) connection if you would like to control the system from a computer on the local area network

Step 1: Mount the IrrigationBrick

The **Irrigation**Brick should be mounted to a wall at a location that:

- Provides access to an Ethernet network connection if you plan to access the **IrrigationBrick** over a network

- Provides easy access for cabling to tie in the irrigation controller

The **Irrigation**Brick should be mounted in a dry location that maintains normal temperatures between 40 degrees F and 100 degrees F.
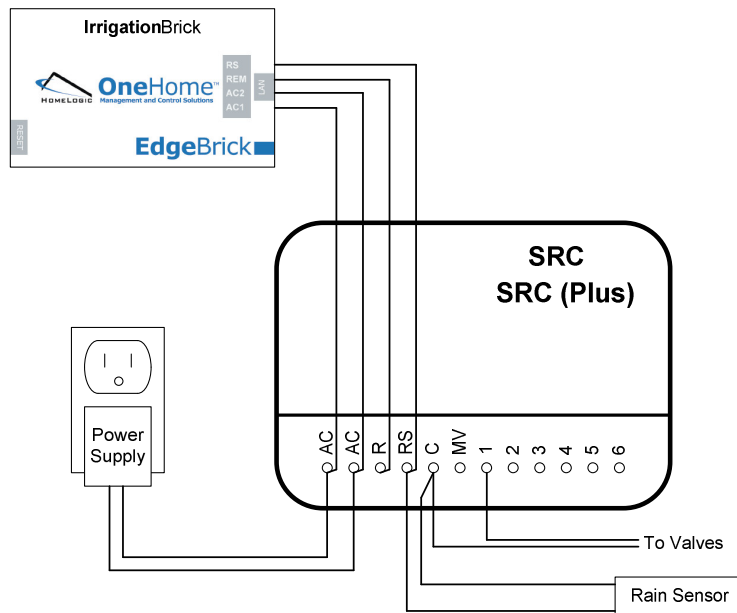
The **Irrigation**Brick does not need to be accessed in normal day-to-day operation, but should be accessible for servicing.

Step 2: Connect the Irrigation Controller

The following diagram shows a basic irrigation system connected to an **Irrigation**Brick and to the home or office network:
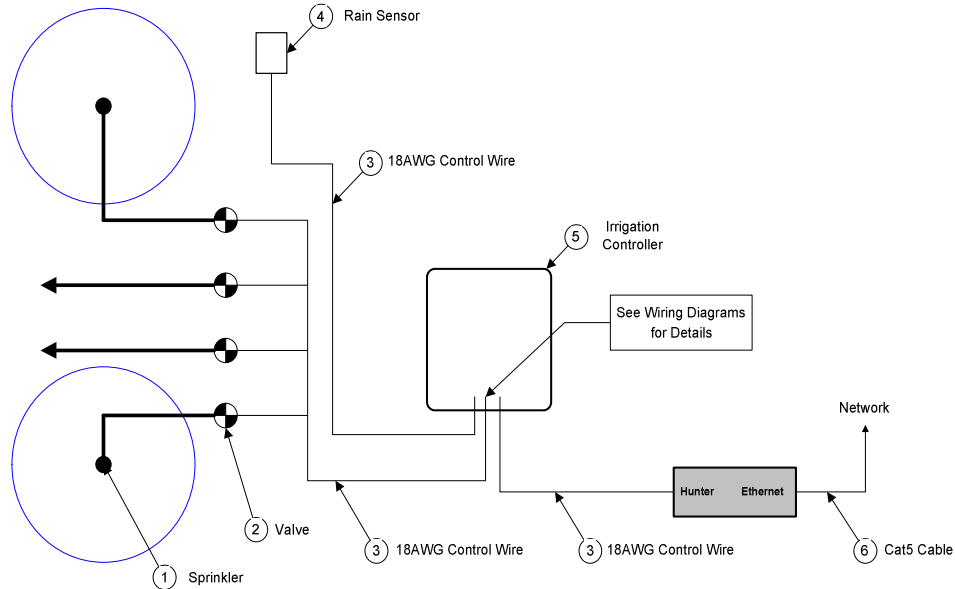

SRC or SRC Plus

IMPORTANT NOTE FOR RAIN SENSOR: The Hunter documentation instructs you to connect the common from the valves to the **RS** terminal, while we show the common going to the **C** terminal above. To enable manual control from the **One**Home Viewer when the rain sensor is open, you must wire the common to the **C** terminal as shown.
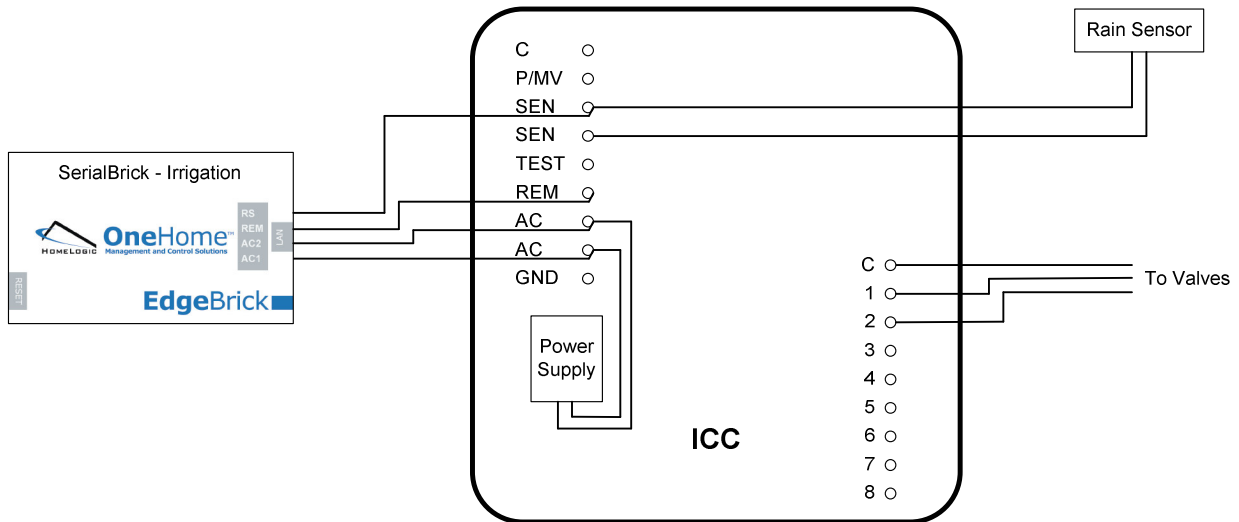
IF THERE IS NO RAIN SENSOR: If your system does not have a rain sensor, then connect a jumper in place of the rain sensor. In other words, connect the C terminal to the RS terminal on the SRC or SRC Plus.

Pro-C
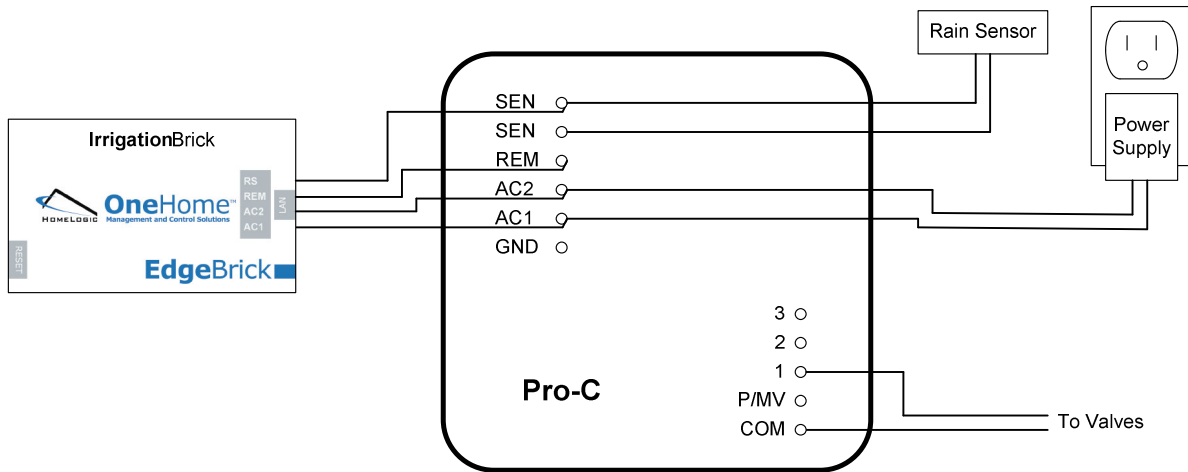
NOTE: The **TOP** rain sensor terminal of the Pro-C goes to the **RS** terminal on the **Irrigation**Brick.

ICC

NOTE: The **TOP** rain sensor terminal of the ICC goes to the **RS** terminal on the **Irrigation**Brick.

Step 3: Connect the IrrigationBrick to a Network or a Computer

There are two methods to connect a computer to the **Irrigation**Brick: directly to a computer (with a crossover Ethernet cable, which is not included); or using a local area network (with the supplied standard Ethernet cable).

If there is no network available, then the **Irrigation**Brick is connected to a computer using a crossover Ethernet cable. Plug one end of the crossover cable into the **Irrigation**Brick and the other end into the computer's network port.

If there is a network available, then use the standard cable, plugging one end into the **Irrigation**Brick and the other into an available Ethernet network jack.

Step 4: Provide Power to the IrrigationBrick

The **Irrigation**Brick gets its power from the 24VAC from the irrigation controller. The power LED turns on when power is properly applied.

SECTION 2: CONFIGURING THE IRRIGATIONBRICK

The following section explains how to complete the network setup and configure the **Irrigation**Brick for your network. Then, the Configurator is described in detail.

Multiple EdgeBricks

It is possible to have multiple **Edge**Brick in an installation, which enables you to access all the systems in day-to-day operation with one interface. To provide this single user interface, one **Edge**Brick is assigned to be the Master and the others are set as Slaves.

If you plan to install more than one **Edge**Brick, proceed with these instructions to configure the **Irrigation**Brick to work on its own. Then do the same for each of the other **Edge**Bricks:

- Each **Edge**Brick must be individually setup and configured according to the instructions for each.

- Set one **Edge**Brick to be the Master and the others as Slaves.

- When you bring up the user interface (the Viewer) for the Master you will see the tabs for all of the Slaves.

Computer and Network Setup

To use the Configurator you need a computer with a Java-enabled web browser. In addition, your computer and the **Irrigation**Brick need related IP addresses so they can communicate over the network.

### To update your computer with the latest version of Java:

The **Irrigation**Brick interface relies on a web browser that is Java enabled. You can update your computer to the latest version of Java over the Internet at no charge: start a web browser and go to www.java.com. Click the **Get it Now** link, and then follow the instructions.

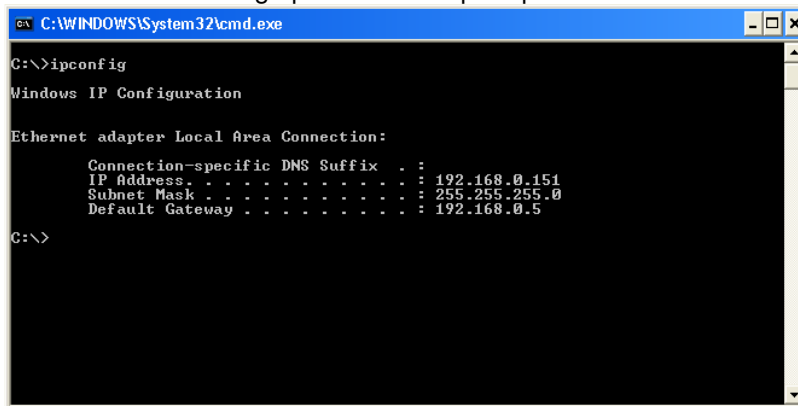### To check your computer's IP address:

The **Irrigation**Brick is sent from the factory with a default fixed IP address of 192.168.0.35. If your computer has an IP address that begins with 192.168.0 then proceed to the next section: **The Configurator**. If you don't know the IP address of your computer, then proceed as follows:

On Windows computers:

1. Click Start, Run to bring up the Run dialog similar to that shown below:
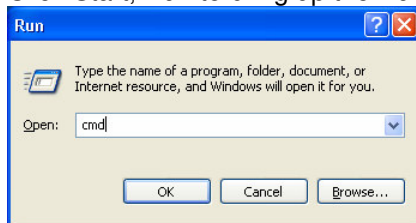
2. For Windows 95, 98, and Me type command, and for Windows NT, 2000 or XP type cmd and then click OK: this will bring up a command prompt similar to that shown below.


```
C:\>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

        Connection-specific DNS Suffix  . :
        IP Address. . . . . . . . . . . . : 192.168.0.151
        Subnet Mask . . . . . . . . . . . : 255.255.255.0
        Default Gateway . . . . . . . . . : 192.168.0.5

C:\>
```

3. Type **ipconfig** and press **Enter**: the system will display several lines including the IP address, as shown above.

## To change your IP address to setup the IrrigationBrick:

If your computer's IP address begins with 192.168.0 then you can skip this step.

If your computer's IP address does not begin with 192.168.0 then you need to temporarily change your computer to connect to the **Irrigation**Brick and change its settings to match your network.
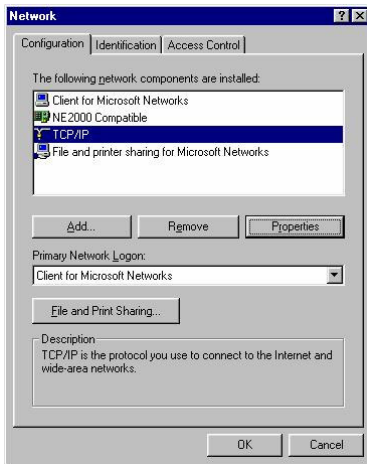
In the following procedure we'll change your computer's IP address so that you can communicate with the **Irrigation**Brick. Once this is completed, you then connect to the **Irrigation**Brick to change its IP address to match your network.
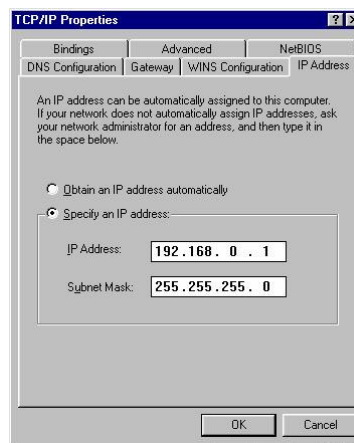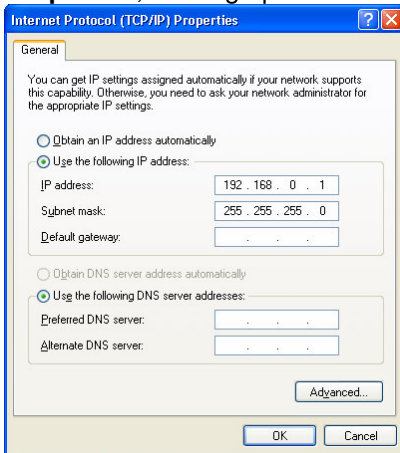
On Windows computers:

1. For Windows NT / XP, start the Control Panel by clicking Start, then Control Panel. In the Control Panel, locate and double-click Network Connections to bring up the Network Connections dialog, shown below at left. Select Local Area Connection and then click File, Properties to bring up the Local Area Connection Properties dialog, as shown below at right.
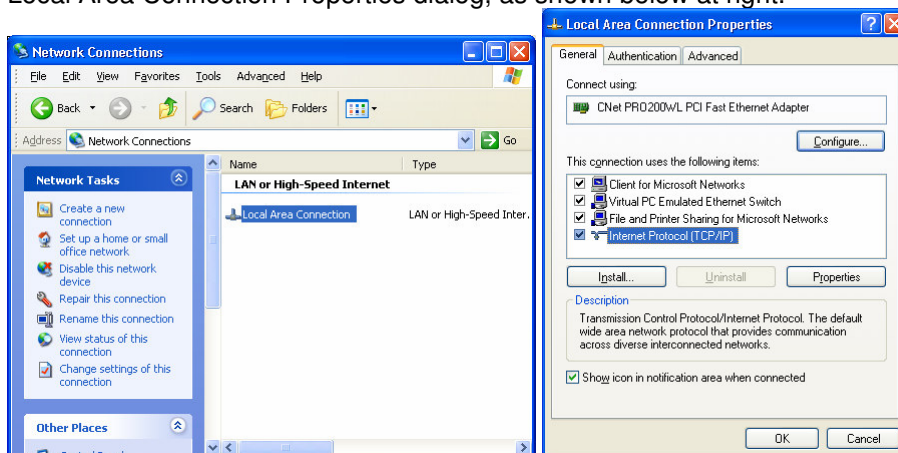
2. For Windows 95, 98 and ME, click **Start**, **Settings**, **Control Panel**. In the Control Panel, locate and double-click **Network Connections** to bring up the **Network** dialog.

3. For all versions of Windows, select the **Internet Protocol (TCP/IP)** (or **TCP/IP**) and then click **Properties**, to bring up the TCP/IP dialogs similar to one of the following:

4. If **Use the following IP address** (or **Specify an IP address**) is selected, make a note of the current IP address and Subnet mask: you will need to restore them later in this procedure.

5. Current IP Address: _____._____._____._____

6. Current subnet mask: _____._____._____._____

7. If **Obtain an IP address automatically** is selected instead, then click **Use the following IP address**.

8. Set the **IP address** to 192.168.0.1 and set the **Subnet mask** to 255.255.255.0 as shown in the images above and then click **OK**. On some computers you may have to restart the computer for your changes to take effect.

To change the IP address of the IrrigationBrick to match your network settings:

The following section describes how to change the IP address of the **Irrigation**Brick. Perform this step:

- if you have followed the previous steps to change you computer's IP address so it starts with 192.168.0, and you are now ready to set the correct IP address for the **Irrigation**Brick, or

- if your computer's IP address does start with 192.168.0, but you want the IP address of the **Irrigation**Brick to be something other than 192.168.0.35.

1. Start a web browser on your computer.

2. Place the cursor in the address field and type **http://192.168.0.35** and then press Enter to bring up the welcome page shown below.
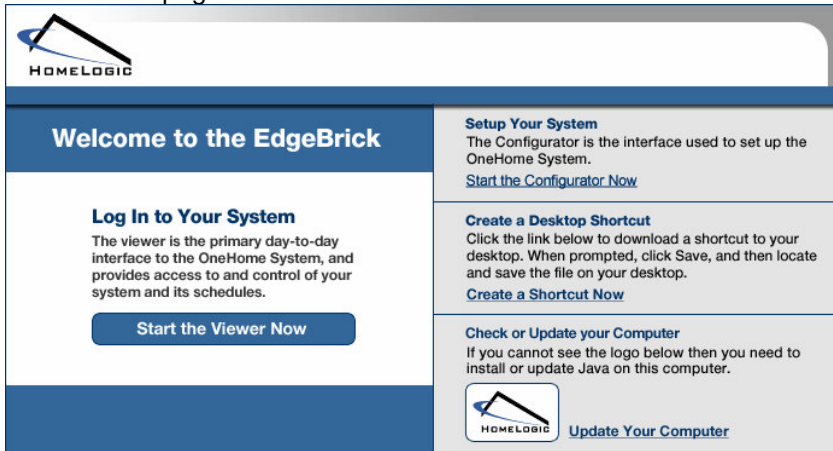
3. If you don't see the logo at the bottom center, stop and update your computer with Java as explained earlier.

4. Click **Start the Configurator Now** at the upper right: after a short delay the Configurator will start.
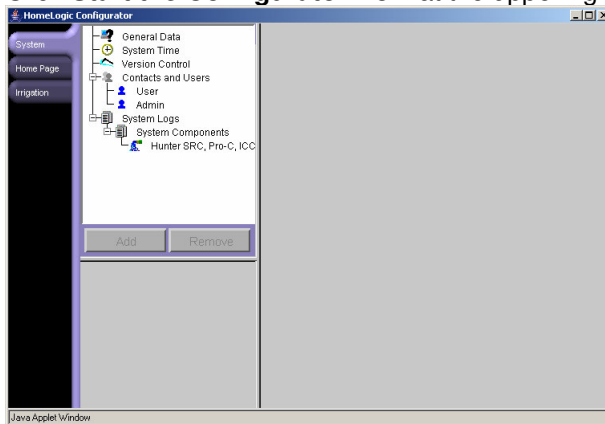
5. The System tab is selected by default. Click **General Data** as shown above, and then click the **IP Settings** button in the lower right: this brings up the settings dialog shown below:
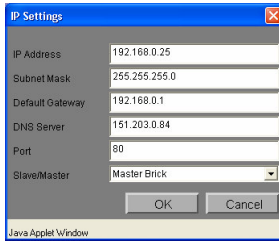
6. Type in the desired **IP Address** and **Subnet Mask** to match your network. You can leave the other settings in the dialog as they are: refer to **System Settings** in **Section 2: Configuring the Irrigation**Brick for more details.
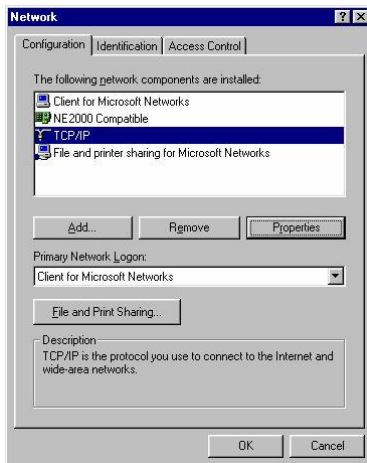
7. Click **OK** to save your settings.

To restore your computer's IP address:

If you changed your computer's IP address to connect to the **Irrigation**Brick, follow these steps to restore your computer's IP address back to its original setting.
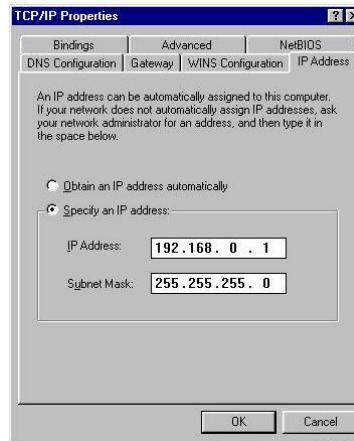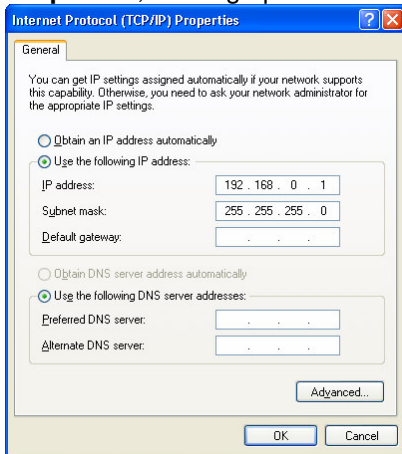
1. For Windows NT / XP, start the Control Panel by clicking **Start**, then **Control Panel**. In the Control Panel, locate and double-click **Network Connections** to bring up the **Network Connections** dialog, shown below at left. Select **Local Area Connection** and then click **File**, **Properties** to bring up the **Local Area Connection Properties** dialog, as shown below at right.

2. For Windows 95, 98 and ME, click **Start**, **Settings**, **Control Panel**. In the Control Panel, locate and double-click **Network Connections** to bring up the **Network** dialog.

12
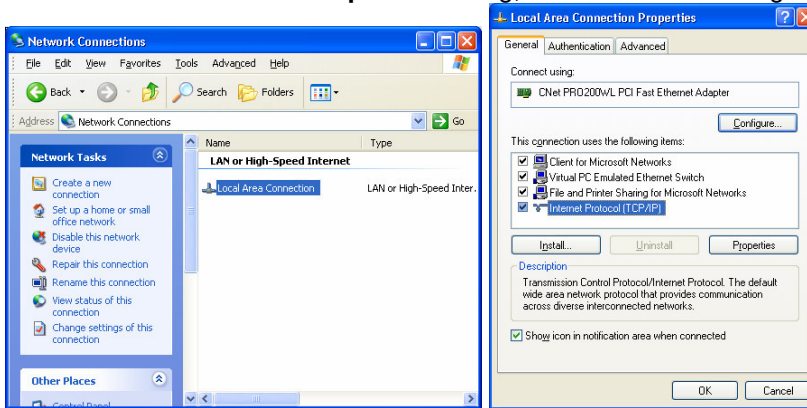
3.   For all versions of Windows, select the **Internet Protocol (TCP/IP)** (or **TCP/IP**) and then click **Properties**, to bring up the TCP/IP dialogs similar to one of the following:

4.   If you wrote down an IP address during step 4 of the procedure above (**To change your IP address to setup the Irrigation**Brick), reset the IP address and subnet mask to those values. Otherwise, click **Obtain an IP address automatically.**

5.   Click OK: on some computers you may have to restart the computer for your changes to take effect.

The Configurator

The Configurator is the software tool you use to setup and configure your system. The Configurator is a point and click interface that you run from a computer during the installation, and later to make changes to the system. Once the system has been setup, the Viewer interface described in Section 3 is used to manage your system on a regular basis.

The Configurator communicates with the **Irrigation**Brick over an Ethernet network, using either a crossover cable (not included) or a standard Ethernet cable (included).

The following steps needed to set up the **Irrigation**Brick with the Configurator are explained in the following paragraphs:

1.   Set basic system-wide settings, such as system time and geographic location

2.   Organize the Zones into Zone Groups, and then add Zone Groups and Zones.

3.   Add Periods (start times), and provide names for each. The actual setting of the start time is done with the Viewer as explained in Section 3.

To start the Configurator on a computer connected to the network:

The Configurator is an easy to use interface that is accessed through a web browser.

4.   Start a web browser on your computer.

5.   Place the cursor in the address field and type **http://192.168.0.35**. If you set a different IP address for the **Irrigation**Brick then enter that address instead of 192.168.0.35.

6.   Press Enter: the **Irrigation**Brick welcome page is displayed.
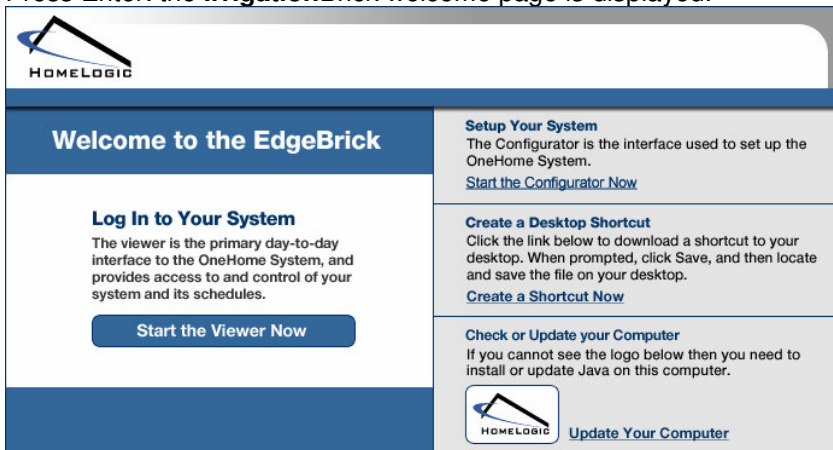
7.   If you do not see the HomeLogic logo (as it appears at the bottom portion of the image above), then you must update your computer. Click on **Update Your Computer** to be directed to the Java.com site for more information.

## To start the Configurator on a computer connected over the Internet:

If you need help with your user name or password, or would like to enable remote access for your **Irrigation**Brick, contact HomeLogic or your HomeLogic dealer for assistance.

1. Start a browser and go to the HomeLogic Web site (www.homelogic.com).

2. Locate and click the **Log In to your Home** link near the top at the right.

3. Click the **Connect As** drop-down, then select **Configurator**.

4. Enter the user name of your **Irrigation**Brick and your password and then click **Connect**.

To add a shortcut for the Configurator on your desktop:

To access the interface more quickly you can create a desktop shortcut that brings up the **Irrigation**Brick welcome page with the following steps.

1. Click Create a Shortcut Now.

2. The File Download dialog appears as shown below: click Save. In the Save As dialog that appears, click Desktop as shown below, then click Save.
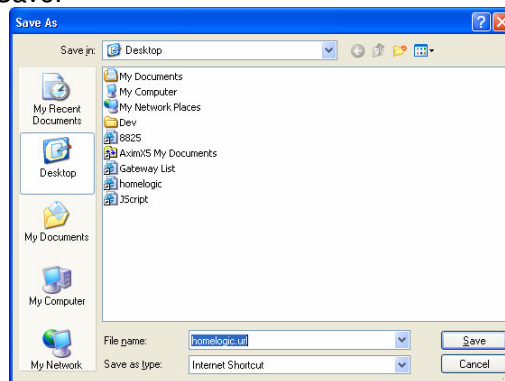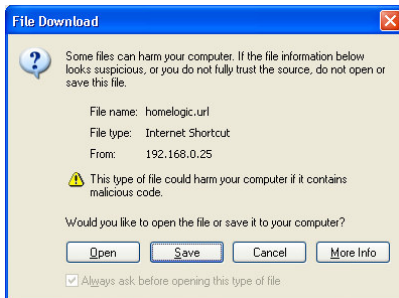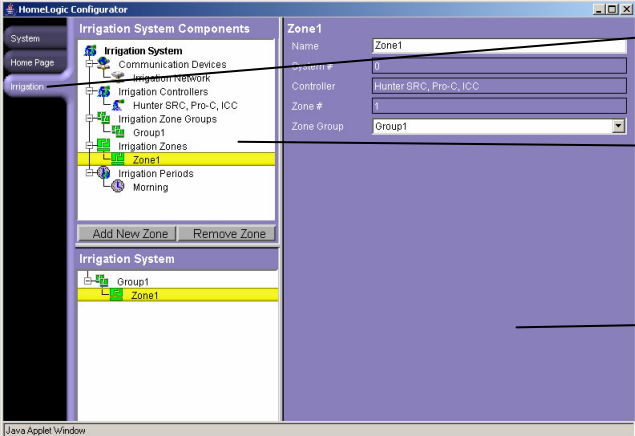

3. A shortcut is placed on your desktop to provide quick access to the **Irrigation**Brick.

Tour the Configurator window:

The Configurator consists of **tabs** on the left side of the window, the **system component tree** and buttons in the middle of the window, and then various input fields in the **properties** window on the right of the screen.

1. Select a tab on the left. Note that the system component tree updates to show devices that are related to the selected tab.

2. Select an item in the system component tree. The properties window on the right of the display updates to show the settings for the selected item.

Tabs, with the Irrigation tab selected

System component tree showing zones: in this case Zone1

The **properties** window, showing the properties that can be set for Zone1

Step 1: System Settings

The **System** tab contains global settings which are typically set once during installation.

To set geographic location:

1.   Click the **System** tab, then click **General Data** in the tree structure.
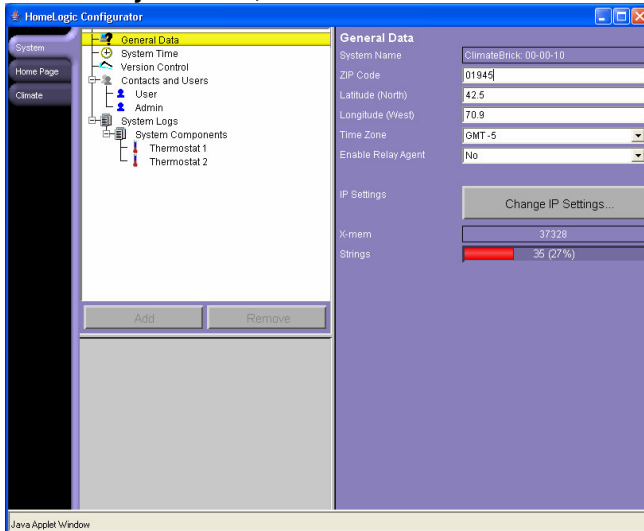
2.   Type in the desired values for the **Zip Code**, **Latitude** and **Longitude**.

3.   Set the appropriate time zone for your location.

To set up your network for remote access:

If you plan to access your **Irrigation**Brick from the Internet, then you must open a port on your router to enable this connection.

By default, port 80 is used to connect to the **Irrigation**Brick. If your ISP blocks incoming connections on port 80 then use port 443.

IMPORTANT NOTE: If you plan to use the HomeLogic Web site to track your house's IP address, then be sure to use the same "external" and "internal" ("public" and "private") ports. For example, if your ISP blocks port 80, then map external (or public) port 443 to the **Irrigation**Brick at 192.168.0.35 on port 443. Only TCP connections are required.

IMPORTANT NOTE: If you need to use a port other than port 80, remember that you need to place the port number in the address line of your browser. For example, if port 443 is used to connect to the **Irrigation**Brick, type http://192.168.0.35:443 to access the **Irrigation**Brick in a browser.

To configure your IrrigationBrick for remote access:

1. Click **Change IP Settings** to bring up the IP Settings dialog below:
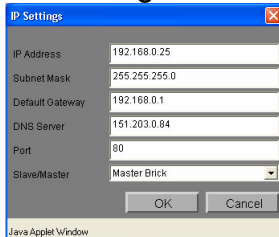
2. Set the **Port** number: see the description above. Contact HomeLogic if you need assistance.

To turn off the Relay Agent once network setup is complete:

The **Irrigation**Brick has a Relay Agent which enables it to connect to HomeLogic for initial setup and support if needed. The Relay Agent is only intended for support during setup, and should be turned off once the system is properly configured.

1. Click the **System** tab, then click **General Data** in the tree structure.

2. Click the **Enable Relay Agent** drop-down and select **No**.

3. Click the **Save** button at lower left to save your settings.

To set the IrrigationBrick time:

1. Click the **System** tab, then click **System Time** in the tree structure as shown below:
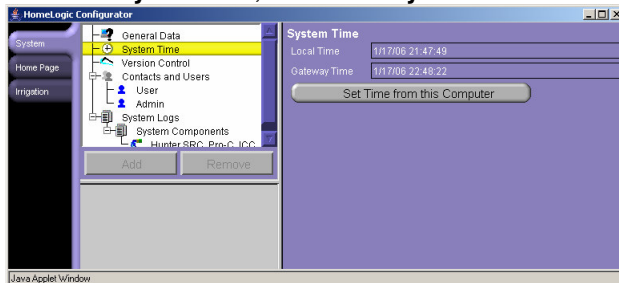

2. The properties window displays the **Irrigation**Brick's current time as well as the time on your computer. Check that the time shown for your computer is the correct time.

3. Click **Set Time from this Computer**. The time on your computer is used to set the time on the **Irrigation**Brick.

To backup and restore IrrigationBrick settings:

You can make a backup copy of the system settings, such as the thermostats and their names, the schedules and other system-wide data. If someone accidentally makes changes to the system, you can later go back and restore the saved settings.

1.   Click the **System** tab, then click **Version Control** in the tree structure as shown below.
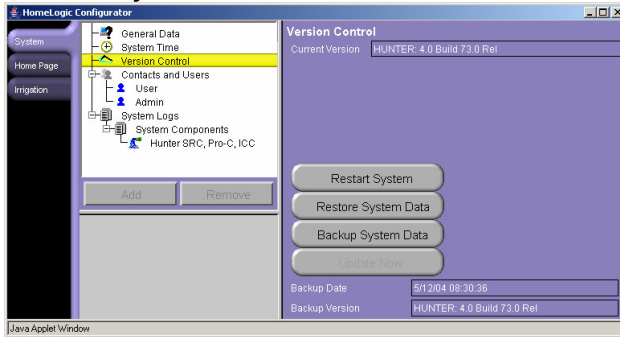

2.   In the properties window, click **Backup System Data** to make a copy of the current settings. Note the Backup Date and Backup Version displayed at the bottom: this shows when you last backed up the system data.

3.   At any time in the future, click **Restore System Data** to restore your backed up settings.

To change the passwords for the interfaces:

The **Irrigation**Brick supports two users: **User** and **Admin**.

User has access to the interface on a regular basis for making changes to setpoints, turning heating on or off, etc. **Admin** also has access to the Configurator for making changes to the setup of the system.

1.   Click the **System** tab, then select the desired user from the system tree as shown below:
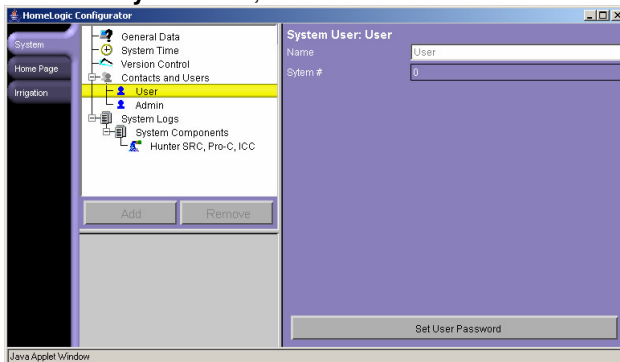
2.   Click **Set User Password** to bring up the password dialog shown below:
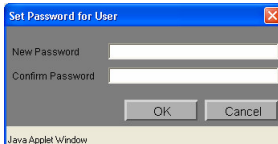
3.   Type in the new password in both boxes, then click **OK**. Note that the **Irrigation**Brick is shipped with no password set for either User or Admin.

4.   To remove the password, leave the new passwords blank and click **OK**.

Step 2: Zone Groups and Zones:

During this step we organize the Zones into groups, and then add **Zone Groups** and **Zones**.

A **Zone** represents a single valve in the irrigation system and all of the irrigation that is associated with that valve. Zones are commonly referred to by number, such as Zone 1, 2, etc, or by name, such as Front Yard Rotors or Rose Garden Misters.

A **Zone Group** is a collection of Zones that have similar characteristics, such as a Lawn Zone Group, or a Flower Beds Zone Group.

Organizing the Zones into Zone Groups is important because the **One**Home Viewer interface displays and manages the irrigation scheduling by Zone Groups. As an example, the user selects the days to water for each Zone Group, not for each Zone.

Typical Zone Groups include:

- Lawn: these Zones cover grass areas and are typically watered every few days for a relatively long time to promote deep root growth.

- Flower Beds: these are Zones in a garden that may be watered every day for a relatively short period of time.

To add Zone Groups:
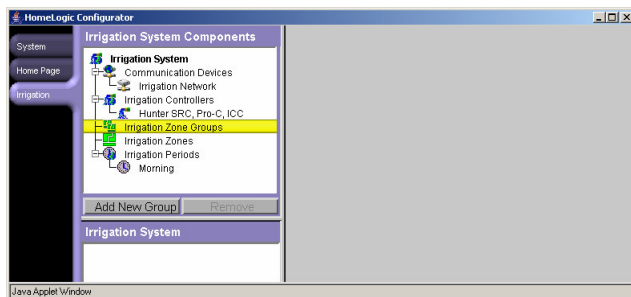
1. On the **Irrigation** tab, locate and select **Irrigatoin Zone Groups** in the system component tree, as illustrated in the image above.

2. Click **Add New Zone Group**, then fill in the name for the new group.

3. Click **OK**: your new group appears in the list.

To add Zones:
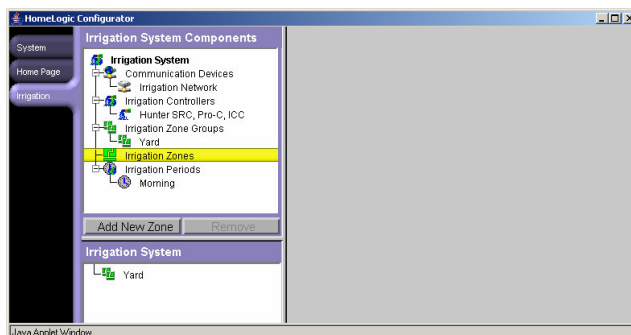
1. On the **Irrigation** tab, locate and select **Irrigation Zones** in the system component tree, as illustrated in the image above.

2.   Click **Add New Zone**: this brings up the Add New Zone dialog shown below:

3.   Select the correct Controller in the list, then select the correct zone number. The zone number represents the circuit number on the Hunter controller: 1, 2, 3, etc.

4.   Select the Zone Group to which this Zone belongs.

5.   Provide a name for the Zone.

6.   Click OK to accept your settings.

Step 3: Add Periods

Once you have added Zone Groups and Zones, you are ready to add Periods, which correspond to watering start times that you wish to access from the Viewer interface.

The **Irrigation**Brick is typically shipped with one default Period called **Morning**.
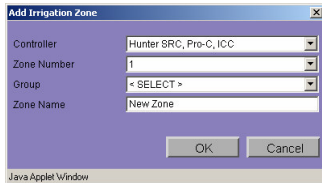
To add Periods:
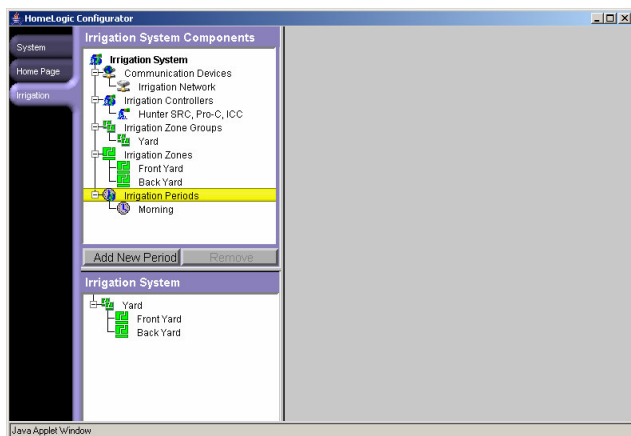
1.   On the **Irrigation** tab, locate and select **Irrigation Periods** in the system component tree, as illustrated in the image above.

2.   Click **Add New Period**, then provide a name for the Period, such as Midday, or Evening.

3.   Click **OK** to save your settings.

SECTION 3: MANAGING YOUR IRRIGATION SYSTEM

The Viewer is the software interface that is used to manage the irrigation system on a regular basis. Like the Configurator, the Viewer requires a computer with a Java-enabled web browser.

Important Note on the Hunter Controllers

The **One**Home system communicates with the Hunter controllers using the Hunter SmartPort®, which is a one-way communication link. As a result, any schedule information on the controller cannot be read by the **One**Home system.

The Hunter irrigation controller should be left in the **OFF** position for day-to-day operation by the **One**Home system. With the controller in the **OFF** position, the **One**Home system will be able to turn on and off any Zone, as well as detect the state of the rain sensor.

Manual operation of any Zone directly from the irrigation controller is available at any time, as with any standard Hunter installation. Return the controller to the **OFF** position when finished.

Start the Viewer

As explained above for the Configurator, the Viewer can be started directly from a web browser. The easiest way to access the Viewer is to place a shortcut to the **Irrigation**Brick welcome page on your desktop, as explained for the Configurator.

To start the Viewer from a computer on the network:

1. Locate and double-click your **Irrigation**Brick shortcut.

2. Or, start a web browser, place the cursor in the address field, and then type **http://192.168.0.35** (or your **Irrigation**Brick IP address if different) and press Enter. The **Edge**Brick welcome page appears, as shown below.
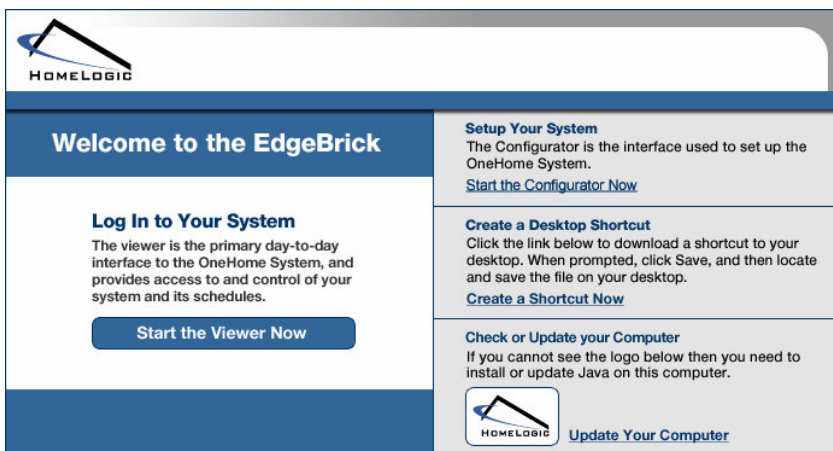
3. If you do not see the HomeLogic logo (as it appears at the bottom portion of the image above), then you must update your computer. Click on **Update Your Computer** to be directed to the Java.com site for more information.

4. Click **Start the Viewer Now**. The Viewer interface appears.

To start the Viewer on a computer connected over the Internet:

If you need help with your user name or password, or would like to enable remote access for your **Irrigation**Brick, contact HomeLogic or your HomeLogic dealer for assistance.

1.   Start a browser and go to the HomeLogic Web site (www.homelogic.com).

2.   Locate and click the **Log In to your Home** link near the top at the right.

3.   Enter the user name of your **Irrigation**Brick and your password and then click **Connect**.

Multiple EdgeBricks

If you have more than one **EdgeB**rick in the system, start the Viewer for the Master. This automatically brings up the tabs for any Slaves in the system.

If you start the Viewer for any Slave, then the Viewer for just the Slave **Edge**Brick is displayed.

The Home Tab

The Viewer interface for a **Irrigation**Brick normally consists of a **Home** tab and an **Irrigation** tab, as shown above.

The Home tab shows current and forecast weather, and provides an easy way to switch house mode with the **Home**, **Away** and **Vacation** buttons. The Home tab can be customized with the Configurator to change the buttons and other controls that appear on the screen. Contact HomeLogic for more details if you would like to change your Home tab.

If you have other **Edge**Bricks in your system, such as Climate, Lighting, or Pool / Spa control, then you will have additional tabs for each. In a multiple **Edge**Bricks installation, bring up the Viewer for the Master **Edge**Brick to automatically get access to the other tabs: bringing up the Viewer on a Slave **Edge**Brick will display just the tab for that Slave.

The Irrigation Tab

The **Irrigation** tab, shown on the next page, contains tabs at the bottom for each Zone Group in your system. In addition, there is a **System** tab at the lower right.

System Mode Buttons

The system can be in one of three modes at any one time, as shown on the System Mode button below:

- **Off**: The system is turned off and will not water.
- **Run Program**: The system is turned on, and will water according to the programmed schedule.
- **Manua**l: The system is in manual mode, and will water according to commands sent from the Manual page (explained later).

Zone Group Tabs

Each Zone Group page allows you to quickly view the status of the system. The Zone Group tab includes tabs for each watering Period (start time), and for each Period allows you to:

- Set the start time
- Set the run time for each Zone
- Set which days the Zone Group should water
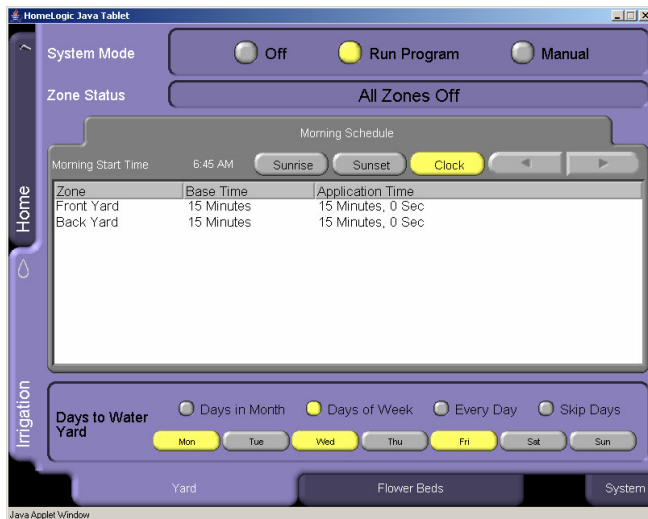
## To set the start time for a Period:

1. Select the desired clock basis: this can be Sunrise, Sunset or Clock.

2. Set the desired time. For the Sunrise and Sunset basis, this is the time before (negative) or after (positive) sunrise or sunset.

For example, to start watering 30 minutes before Sunrise, select the Sunrise button, then set the time to -30 minutes.

To set the run time for a Zone:

Set the run time for the heaviest watering time. Then use Seasonal Adjustment (explained later) to reduce the watering in spring and fall.

1.   Select the desired Zone Group by clicking the appropriate tab at the bottom.

2.   Select the desired Zone in the list: the item changes to show Less Time and More Time buttons as shown below:
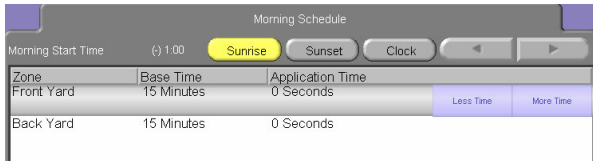

3.   Click Less Time and More time to set the desired time.

To set the days to water:

The Days to Water controls on which days the Zone Group will water. Keep in mind that all the Zones in a Zone Group water on the same days.

1.   Select the desired days control: **Days of Month** (even or odd dates), **Days of Week** (Mon, Tues, etc.), **Every Day**, or **Skip Days** (2nd, 3rd, 4th or 5th day).

2.   Select the desired days to water.

The following shows watering on even calendar dates:
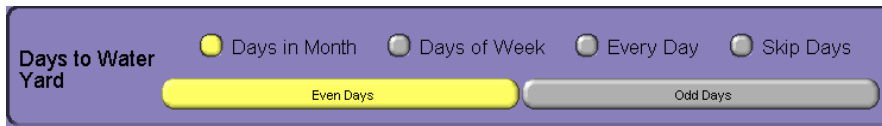
The following shows watering on Monday, Wednesday and Friday:

The following shows watering on every fourth consecutive day:

Seasonal Adjustments Tab

The Seasonal Adjustment tab allows you to make seasonal changes to the schedule. This avoids the need to increase the watering times as spring moves into summer, and then reduce the watering times as summer moves into fall.
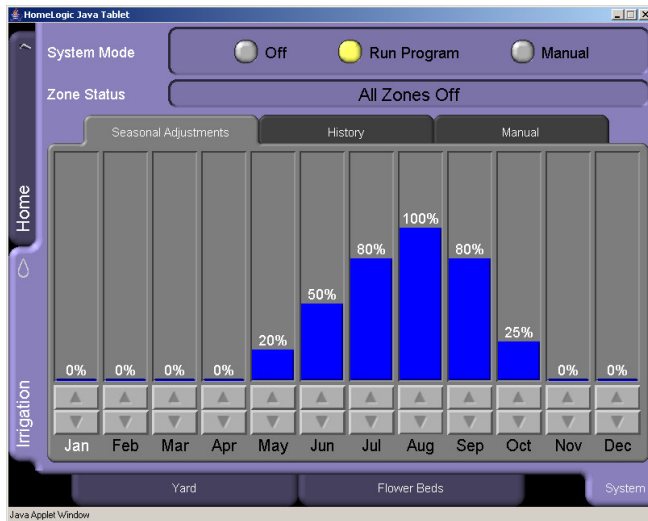

To set the Seasonal Adjustments:

For each month:

1. Click the up or down buttons above the month name to increase or reduce the percentage for that month.

2. Months that are set to 0% will not water at all.

3. Months that are set to other percentages will run each Zone for the number of minutes specified for that Zone, times the percentage.

For example, if the **Front Yard** is set to water for 15 minutes, then using the example shown in the image above, the Front Yard will run for 7.5 minutes in June (50% of 15 minutes), and the Front Yard will water for 15 minutes in August (100% of 15 minutes).

History Tab
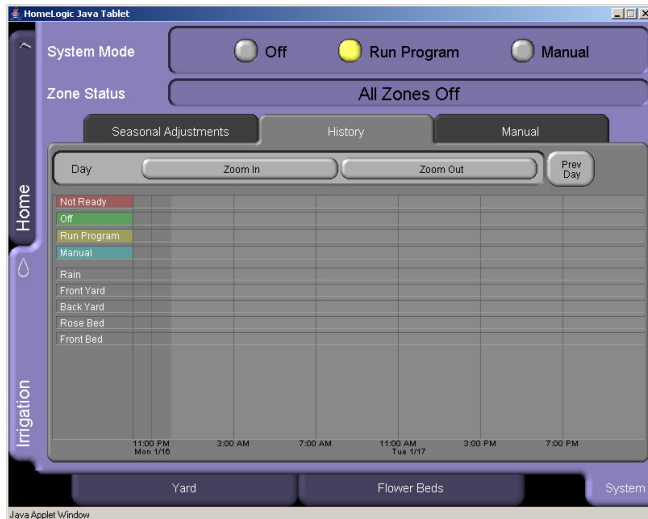
The History page is a useful tool to monitor recent activity. Use the History page to:

- Quickly view the standard display, which shows the system activity for the last 24 hours.

- Change the display to show just the last hour, or the last week or month, or previous weeks or months.

- Check precisely when a certain event took place.

- Show a custom period other than the standard hour, day, week or month.

To view the standard irrigation history display:

1. On the **Irrigation** page, select the **System** tab at lower right.

2. Click the **History** tab at the top. The screen displays lines of horizontal bars: when the following bars are filled with color that indicates that:
    Not Ready   = The system is not communicating to the irrigation controller
    Off   = The system is in the Off mode
    Run Program   = The system is in the Run Program mode
    Manual   = The system is in Manual mode
    Rain   = The rain sensor is active
    Zone n   = "Zone n" is turned on, either manually, or from the running program

To change the period shown in the History page:

1. Click **Prev Day** or **Next Day** to move back or forward a day.

2. Click **Zoom In** to see the last hour, or **Zoom Out** to see the last week. If you zoom out to show a week, you can zoom out again to see the whole last month.

3. If you change the zoom, then the previous and next buttons will also change to show, for example, **Prev Week** and **Next Week.**

To see the precise time on the history display:

It can be hard to determine precisely what time an event happened (such as a heating setpoint being changed). The following instructions explain how to get the precise time for any point on the history display graph.

1. Position the mouse so that the pointer is directly over the point of interest.
2. Click and hold the left mouse button, BUT DO NOT MOVE THE MOUSE.
3. The time at that location is shown, along with a vertical line corresponding to that time.
4. Release the left mouse button.

To use the mouse to show a very specific period of time:

To get finer control of the display, you can use the mouse to highlight and display a specific period of interest:

1. Click the **Zoom** and **Next** / **Previous** buttons as explained above so that the period of interest is entirely visible on the display.
2. Position your mouse at the left edge of the period of interest, then click and hold the left mouse button while you drag the mouse to highlight the period of interest. When you release the left button, the display will resize to show just that period.

Manual Tab

The Manual tab is used to manually run a Zone for a period of time. This can be important when:

- The system is being started up in the spring, and the Zones need to be checked

- A particular Zone needs water presently

- The system is being shut down, and the Zones need to be purged.

To run a Zone in manual mode:

1. Press the **Manual** mode button at the top to put the system in Manual mode.

2. On the **Irrigation** page, select the **System** tab at lower right.

3. Select the Manual tab at the top.

4. Select the desired Zone from the list: your selection will expand to show the More Time and Less Time buttons as follows:
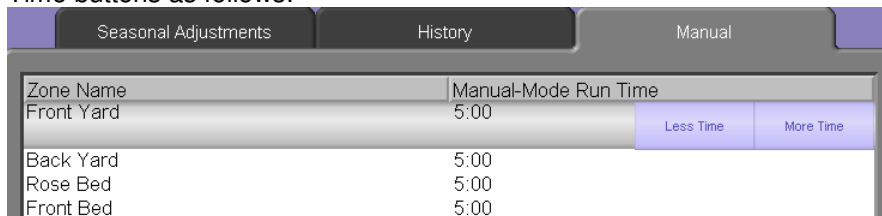
5. Click the **More Time** and **Less Time** buttons to set the desired run time.

6. Click the **Start** button at the lower right to start watering: the button text will change to show Stop instead.

7. Allow the watering to complete, or at any time click the **Stop** button to stop watering.

Notes:

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