



ISY – 26
Home Automation Controller
USER GUIDE

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1. Purpose

The purpose of this document is to guide the system's installer with the steps necessary to install and configure the Universal Devices' ISY system and operate the GUI.

ISY comes configured for communications with the device(s) of your choice. The package contains:

- i. Power supply
- ii. Ethernet cable (Blue Cable)
- iii. A Serial/RS232 cable – for advanced administrative tasks. If you would like to view system status using Windows Hyper-terminal or any other terminal emulation software
- iv. Documentation and Utilities disk
- v. Quick setup guide

2. Theory of Operation

All ISY systems are empowered with UPnP (Universal Plug & Play) stack through utilization of which all the devices on the network can seamlessly communicate with each other and other computers on the network. ISY systems come embedded with their own browser based GUI and, as such, there is no need for any software installation besides the normal Java runtime and, optionally, Excel for trending and reporting.

UPnP enables the devices on the network to automatically show up as resources on the "Network Neighborhood" or "My Network Places" on host computers just like a shared printer. For UPnP to work, the devices (and specifically ISY systems) need to be able to advertise their presence on the network and, furthermore, be able to communicate their state changes to the network. In this respect, then, the main prerequisites for successful operations are

- i. Network enabled environment
- ii. Configuration of firewall programs (besides Windows Firewall) to allow for the devices to communicate with the host system beyond the local network

3. Installation and Configuration

Configuration is required only if ISY does not show up automatically.

3.1 Installation

Please perform the following steps before plugging the ISY into power:

- i. Connect the Ethernet cable to ISY and to your network hub. **Note:** the network must be DHCP enabled. If your DHCP is not enabled, please consult ISY Installation and Configuration Guide on the accompanying CD
- ii. Connect the Serial communications cable, provided with your Insteon PLM (sold separately), to the connector marked Port A on the ISY and to your computer.

Plug in the power supply into ISY and then into a power outlet.

3.2 Prerequisites

3.2.1 Host Computer Software

- i. Windows XP (for other versions of Windows, a separate guide is provided)
- ii. Internet Explorer 6 and above
- iii. Java 1.5 (JRE 1.5) – included in the setup disk
- iv. Microsoft Excel, for trending and charts

3.2.2 Network

- ii. DHCP enabled network
- iii. Ethernet topology

3.3 Host Computer Configuration

Configuration is comprised of three very easy steps:

- i. UPnP Configuration
- ii. Java Installation

3.3.1 UPnP Configuration

UPnP is normally disabled on all computers by default. In order to make sure and/or to configure UPnP, please follow the following steps (refer to Figure 1):

- i. Click on **My Network Places** (either on the Start Menu or Desktop)
- ii. On the left Navigation Pane
 - a. If you see **“Hide icons for networked UPnP devices”**, you are done. No further action is necessary
 - b. If you see **“Show icons for networked UPnP devices”**, click on it and let the system get configured. You are done.

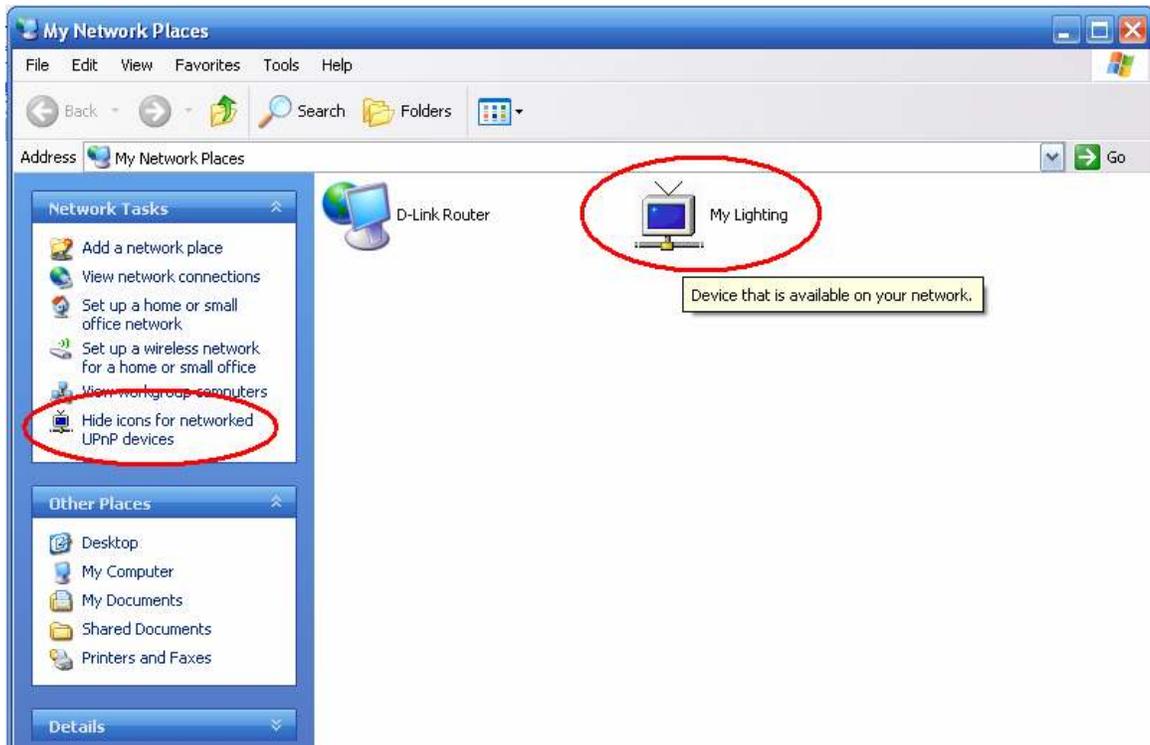


Figure 1– UPnP Configuration

3.3.2 Java Installation

If you already have JRE 1.5v.6 installed, then no further action is necessary. Otherwise, click on the [jre/jdk-1_5_0_11-windows-i586-p.exe](#) on the installation CD to install JRE.

4. Additional Hardware Required

Please purchase and plug in the SmartHome PLM Version 4.6 in port A of the ISY.

5. Starting the GUI on a Host Computer

If you already have Java installed and UPnP enabled, all you have to do is to click on the icon **My Lighting** (refer to Figure 1) appearing in the **My Network Places** (refer to Figure 2) either on the Start Menu or Desktop.

If the “My Lighting” icon did not show up on your **My Network Places** you will need to follow the configuration steps below.

Configuration is comprised of three very easy steps:

- iii. UPnP Configuration
- iv. Java Installation
- v. If you have any other network firewall software, please contact us to walk you through the configuration.

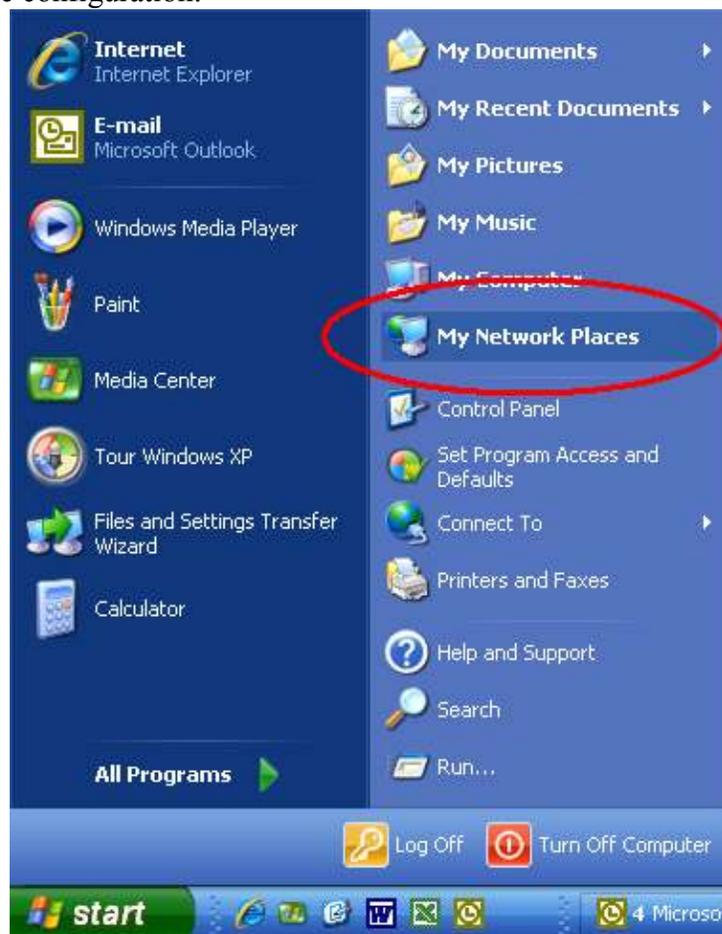


Figure 2– Network neighborhood/My Network Places

In your **Network Neighborhood/My Network Places** double click on the **My Lighting** icon, see Figure 1 – UPnP Configuration.

Once you double clicked the My Lighting icon in your Network neighborhood a browser window will appear, See Figure 3 – Initial Browser.



Figure 3 – Initial Browser

Please do not close this browser window. You can minimize it but you can not close it at any time while the GUI is running or the application will terminate. Following the above browser that opened the ISY GUI will appear and you will be presented with a user-id/password dialog box, See Figure 4. Please enter **admin** for both the user-id as well as the password.



Figure 4– ID & Password

6. Main GUI Components

The ISY GUI is very intuitive and is essentially comprised of four complementary panes (refer to Figure 5)

- i. Top Pane
- ii. Navigation Pane or Tree View
- iii. View Pane
- iv. Bottom Pane

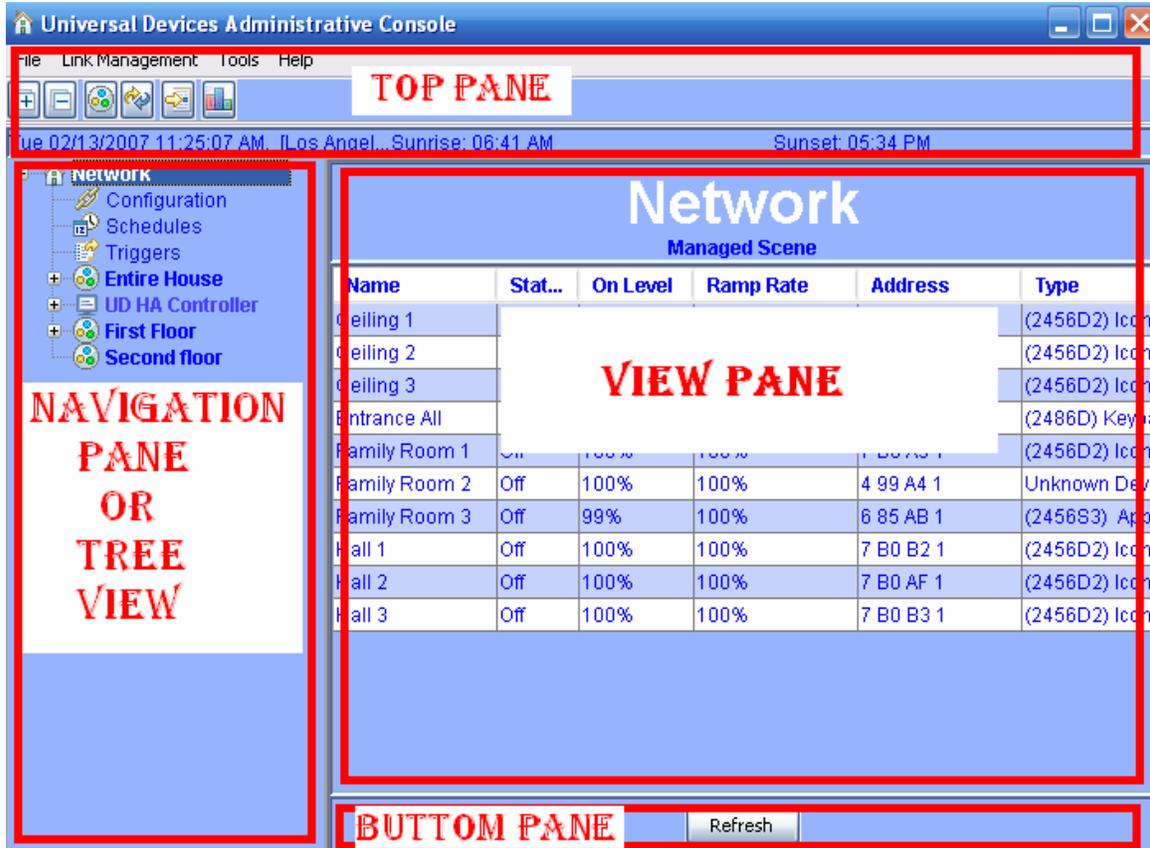


Figure 5– Main GUI Components

6.1 Top Pane

The Top Pane is located in the top section of the GUI and it always contains the menus, the tool bar, the date, location and sunrise and sunset times of that specific location. This section always remains the same no matter which action you are performing.

6.2 Navigation Pane or Tree View

The Navigation Pane, also known as the Tree View, is located on the left section of the GUI. The Navigation Pane is a tree view at the top most of which is the whole Network.

The Navigation Pane may expand, grow, and shrink based upon the number devices have been linked to the controller as well as user actions. There are only five distinct types of nodes that you may find on the tree view (refer to left pane in Figure 5):

At the top of the tree view you have: Configuration, Schedules and Trigger. The bottom section of the tree view offers a configurable view of all the devices you can control. Clicking on the icons on the tree view brings up the associated view in the view pane. Right clicking on the icons on the tree view brings up a menu of actions appropriate only for that node on the tree.

6.3 View Pane

The View Pane is located in the main and right sections of the GUI. The view pane provides a tabulation of all the pertinent and important information for all the devices you can control in one place. It is specifically designed to give you an immediate access to most needed information during setup while providing simple navigation features enable the user to jump to a device (such as light) to perform necessary actions.

The view is displayed when any of the following nodes are selected:

- i. **Root Node** – in this view, all the devices in the network are captured regardless of their physical attachment to any ISY.
- ii. **Physical Device (ISY) Node** – in this view, only those devices that are attached to the selected ISY are presented.
- iii. **Group Node** – in this view, only those devices that are attached to the selected group are presented.

The View Pane provides a very useful and intuitive navigation (refer to Figure 5) mechanism: when a specific row in the table is clicked:

- i. The respective device is selected in the Tree View
- ii. The view is changed to show the details related to that device and the user can immediately change the settings for that device.

6.4 Bottom Pane

The Bottom Pane is located at the bottom section of the GUI. Depending on the option selected on the Tree View it will contain the actions you can perform. If you selected a device in the View Pane or the Tree View; the Bottom Pane will show the actions you can perform to the device and the groups this device belongs to.

7. Top Pane - Menu

This section details the functionalities and the operations of each menu option listed in the Top Pane.

7.1 File Menu

Please see Figure 6 for all File Menu options.



Figure 6– File Menu

7.1.1 Logon

The Logon option will be enabled if you are not connected to the ISY. The system will prompt you that you have lost the connection and you must login. Once you select this option you will be required to enter your user name and password.

7.1.2 Set Userid/Password

Once this menu option is selected the user can change the user name or password or both. The new user name or password, or both should be typed in the appropriate line. Please make sure you remember the new user name or password as the old default account of user name and password admin will no longer work in future logins.

Note: Lost passwords are **not** retrievable. The only way of getting back to the system is by performing a factory reset which would erase all the settings.

7.1.3 Backup Configurations

Once this menu option is selected the user will select or type the location and file name which will save the current configuration. All the controllers' configurations will be saved to this file.

7.1.4 Restore Configuration

Once this menu option is selected the user has the ability to select the file to which he previously saved or backed up all the configurations of the controller.

7.1.5 Disable Internet Access [ISY]

The controller default setting is to have internet access enabled. If you would like to disable internet access to the controller select this option. It is reversible and you will be presented with the **Enable Internet Access** menu option.

7.1.6 Exit

Once this menu option is selected this application will end and the browser window will close.

7.2 Link Management Menu

Please see Figure 7 for all Link Management menu options.



Figure 7– Link Management Menu

7.2.1 Start Linking

For all devices, **with the exception of ControlLinc**, when new devices need to be added to the ISY you must select this option and then click the linking button on the new device (light, switch etc.) for as many devices as you desire. This performs the same action as the Start Linking button on the tool bar. The Start Linking button will change and will show an X sign. The new device/s should automatically show up on the ISY application. This may take a few seconds. Please click the Cancel button on the Linking Dialog after all your new devices have been linked to the controller and show up on the GUI. You can then rename each device and change its various attributes. Please follow each device as to the location of its linking button. The device should blink indicating it is in linking mode. **Please make sure you first select the Start Linking option from the ISY GUI and then click the linking button on the device itself.** Other wise the device will not be linked to the controller.

For ControlLinc, click on the Link a ControlLinc menu option and follow instructions on the screen.

7.2.2 New Scene

Once you click this option you will be presented with a window requesting a name for the new Scene. Enter the name you prefer (the name can be changed at a later time.) The new

scene will be added to the tree view on the left pane. You can click and drag any one of the devices already linked to the system into this scene. If you click and dragged correctly you will see a plus sign next to the device you are dragging. It may take a few seconds to copy the device and all its attributes to the new scene. You must wait until the hour glass and/or progress bar disappears before performing additional actions. Copying the device to the new scene will not delete it from the master list of devices or from the scene/s they already belong to.

7.3 Tools Menu

Please note that the Tools Menu will not appear immediately as the other menus, it will take a few seconds before it appears. This is due to the amount of time it takes to download the chart and floor-plan applications from ISY. See Figure 8 for all Tools Menu options.



Figure 8– Tools Menu

7.3.1 Trend(Chart)

Once you select this option you must wait a few seconds. You will be presented with another window which offers multiple trending and charting options for each device, for a group of devices or for all the devices you are controlling.

7.3.1.1 Trend - Categories Menu

- Statues – This option will display
- On Level
- Ramp Rate

7.3.1.2 Trend - By Group Menu

This menu will display each device and each group available in the controller. Once a device or a group is selected you can choose one of the three options under the Categories Menu and the chart displayed will be specific to the device or group you selected. You can go back to the Categories Menu and choose each available option for the device or group selected in the Group Menu and the chart displayed will contain only the information specific to that device or group of devices.

7.3.1.3 Trend - Log Menu

Once you select this option a Windows Excel window will open. You will be requested to allow macros to run. You must select OK for the macro to run and to have access to the log file. The log file contains the date the data was captured and the statues, on level and ramp rate for each device and group of devices. If you the log file is empty you probably don't have macros enabled. You must enable macros in Windows Excel. To enable

macros you must click on the Tools menu, then select Macros, then select Security. Security should be set to either Medium or Low.

7.3.2 Log(Excel)

This option is the same as the Trend – Log menu option.

7.3.3 Reset History

This menu option allows you to reset the information captured in the log file. The information already captured will be deleted and the log will restart from this point of time. Once you select this option you will be presented with a confirm request. You may select OK to proceed and delete the current file or Cancel to exit and the current log will not be deleted.

7.3.4 Floor Plan

This menu option provides a graphical representation of the location of each device. It allows you to create locations (rooms) and place devices in their physical location. This will help if at a later time you would like to know where the specific device you are controlling is located.

Once you select this option you will be presented with a new window. It will have a Key icon at the top. By selecting the key you will be presented with the option of creating a new location. You may name it any name which helps correlate this graphical representation to the physical location. You can click and drag a group of devices First Floor to the Floor plan. The system will create a new room in the floor plan which will contain all the devices that are part of the First Floor group. You can then click and drag each device to its physical location within that room. For example: Hall 1 can be dragged to the top left of the room because that's its physical location.

7.4 Help Menu

See Figure 9 for all Help Menu options.

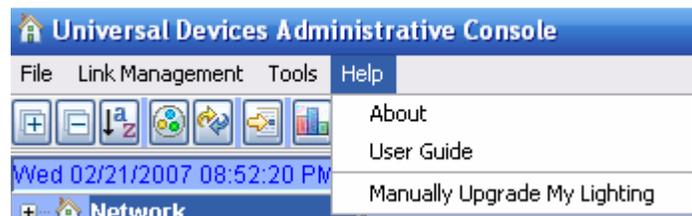


Figure 9– Help Menu

7.4.1 About

The About menu option will provide the current IP, port and ISY version number that the control system is using. It will also provide the status of the internet access, whether it is enabled or disabled. Internet access can be changed on the File menu.

7.4.2 User Guide

The User Guide menu option will open the user guide for the ISY using Adobe Acrobat reader.

7.4.3 Manually Upgrade ISY

This option will provide access to a browser which allows you to select the new ISY file and by selecting it you will begin to upgrade the software on the controller. An alternate and a preferred method to upgrading you controller is...

8 Top Pane – Tool Bar

This section details the functionalities and the operations of each Tool Bar icon available in the Top Pane.

8.1 Expand All

The Expand All is the first button on the tool bar. Its symbol is a plus sign. Please refer to Figure X10. Once you click on this button all the groups on the Tree View will expand and all the devices within them will be listed.



Figure 10– Expand All

8.2 Collapse All

The Collapse All is the second button on the tool bar. Its symbol is a minus sign. Please refer to Figure 11. Once you click on this button all the devices in each of the groups on the Tree View will collapse and minimize and you will only see the group names.



Figure 11– Collapse All

8.3 Sort

The Sort button is the third button on the tool bar, see Figure 12. Pressing it will alphabetically sort all the groups and devices listed in the Tree View.



Figure 12- Sort

8.4 New Scene

The New Scene is the fourth button on the tool bar, see Figure 13. It performs the same action as the New Scene option under the Link Management menu. Once you click this option you will be presented with a window requesting a name for the new Scene. Enter the name you prefer (the name can be changed at a later time.) The new Scene will be added to the tree view on the left pane. You can click and drag any one of the devices already linked to the system into this Scene. If you click and dragged correctly you will see a plus sign next to the device you are dragging. It may take a few seconds to copy the device and all its attributes to the new Scene. You must wait until the hour glass and/or progress bar disappears before performing additional actions. Copying the device to the

new scene will not delete it from the master list of devices or from the scene/s they already belong to.



Figure 13– New Scene

8.5 Start Linking

For all devices, **with the exception of ControlLinc**, when new devices need to be added to the ISY you must select this option and then click the linking button on the new device (light, switch etc.) for as many devices as you desire. This performs the same action as the Start Linking button on the tool bar. The Start Linking button will change and will show an X sign. The new device/s should automatically show up on the ISY application. This may take a few seconds. Please click the Cancel button on the Linking Dialog after all your new devices have been linked to the controller and show up on the GUI. You can then rename each device and change its various attributes. Please follow each device as to the location of its linking button. The device should blink indicating it is in linking mode. **Please make sure you first select the Start Linking option from the ISY GUI and then click the linking button on the device itself.** Other wise the device will not be linked to the controller.

For ControlLinc, click on the Link a ControlLinc menu option and follow instructions on the screen.



Figure 14– Start Linking



Figure 15– Stop Linking

8.6 Floor Plan

The Floor Plan is the sixth button on the tool bar, see Figure 16. It performs the same action as the Floor Plan option under the Tools menu. This button provides a graphical representation of the location of each device. It allows you to create locations (rooms) and place devices in their physical location. This will help if at a later time you would like to know where the specific device you are controlling is located.

Once you select this option you will be presented with a new window. It will have a Key icon at the top. By selecting the key you will be presented with the option of creating a new location. You may name it any name which helps correlate this graphical representation to the physical location. You can click and drag a group of devices, such

as First Floor, to the Floor plan. The system will create a new room in the floor plan which will contain all the devices that are part of the First Floor group. You can then click and drag each device to its physical location within that room. For example: Hall 1 can be dragged to the top left of the room because that is its physical location.



Figure 16– Floor Plan

8.7 Trend (Chart)

The Trend (Chart) button is the seventh on the tool bar, see Figure 17. It performs the same action as the Trend (Chart) option under the Tools menu. Please see detailed description under the Trend (Chart) Menu option description.



Figure 17– Trend (Chart)

9. Left Pane – Configuration

The Configuration icon is the top most icon in the Left Pane which, at least initially, is labeled **Network**. The Configuration View allows the users to manage global setting such as date/time and notification settings. This view is divided into two sections (refer to Figure 18)

- i. Date/Time configuration which is on the top
- ii. Notifications configuration which is on the center

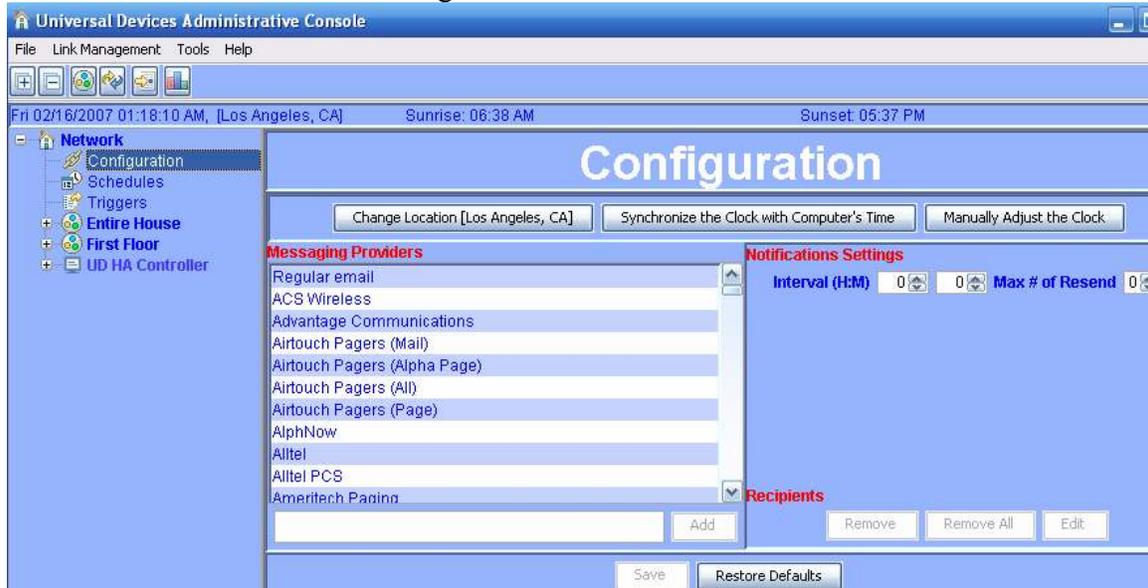


Figure 18– Configuration View

9.1 Location Configuration

To set or change the location of the ISY you must click on the Change Location button. For relatively accurate Sunrise/Sunset calculations, please select the closest city in which the ISY will be physically located. In Figure X the location is Los Angeles, CA. If the city you are located in does not appear on the list please select the closest city with the same time zone.

9.2 Date and Time Configuration

You can set or change the time and date in your ISY in two ways.

- The first is by pressing the Synchronize Clock with Computer's Time button. Once you selected this option the ISY will be automatically updated with the computers time.
- The second is by pressing the Manually Adjust the Clock button. You can adjust the date and time by following these steps
 - Click on the **Adjust Date/Time** button; you will be presented with the Adjust Date/Time dialog
 - Choose the **Daylight Saving Mode** (top)
 - Enter the time
 - Choose the time zone
 - Choose the month
 - Choose the day (you can click on the day buttons)
 - Choose the year
 - Click Ok

The ISY date and time will be updated immediately to reflect the new date and time.

9.3 Messaging Configuration

9.3.1 Messaging Providers

The list on the left provides the method (email or text message) and a list of companies which provide messaging services.

9.3.1.1 Email Message

To receive notifications via Email from the ISY please select the Regular Email entry, it is the first entry on the Messaging Providers. Once Regular Email is selected you will be requested to enter the full email of the recipient at the bottom of the list. Enter the recipient's email address and press the Add button. The recipient will be added to the recipients list which is located on the right bottom of the Messaging Configuration screen. You may add several recipients but you must add them one at a time.

9.3.1.2 Text Message

To receive a page or a text message from the ISY you must select your pager, cell phone or blackberry service provider from the list by clicking on their company name. Once you clicked the provider's name you will be requested to enter the 10 digit pager or phone number of the recipient. Enter the recipient's number and press the Add button. Please enter the digits only without any symbols.

Correct number entry: 18186310333

Incorrect number entry: 1-818-631-0333

The recipient will be added to the recipients list on the right. You may add several recipients who may have different messaging service providers. Please add the recipients one at a time.

9.3.1.3 Recipients

Recipients listed on the recipient list can be removed either one at a time or you can delete the complete list by using the Remove or Remove All button at the bottom of the Recipients list. You may also Edit each recipient by selecting their entry from the Recipients list and pressing the Edit button.

Note: the **Max # of Resend** should be set to a minimum of 1 in order to get at least one notification.

9.4 Notifications Settings

The Notifications Settings on the top right of the Configuration screen allows you to enter the interval and the maximum number of notifications the ISY will send to each recipient. In Figure 19 the Interval is set to 1 hour and 2 minutes and the Max # of Resend is set to 3. In this example a notification (email, page, and text message) will be sent to each recipient on the recipient's list every one hour and two minutes. This notification will be sent three times. Once another different notification is processed by the system it will follow the same settings. It will also be sent every hour and two minute and no more than three times.



Figure 19– Notifications Settings

10. Left Pane – Schedules

ISY provides one of the most complete scheduling capabilities in the automation market while keeping scheduling related administrative functions to the minimum. The rich user interface enables the user to create complex schedules in a matter of seconds. As described before, Schedules View (refer to Figure 20) is activated either globally (to all devices) or per device. You may have up to 64 schedules.

Schedules are presented in a familiar and easy to read tabular format the first column of which is always the English description of the schedule and following five columns of which are always:

- i. **Location** – The name of the device or group of devices/scene that the schedule applies to.
- ii. **Action** – The action the schedule will perform, such as device On or Off.
- iii. **Active** – If this schedule is active or inactive in which case it can be removed
- iv. **On Hold** – If this schedule has been put on hold and currently is not applicable (for example if you are on a vacation and the normal schedule is not necessary.)
- v. **Last Run** – shows the date and time when this schedule was last run

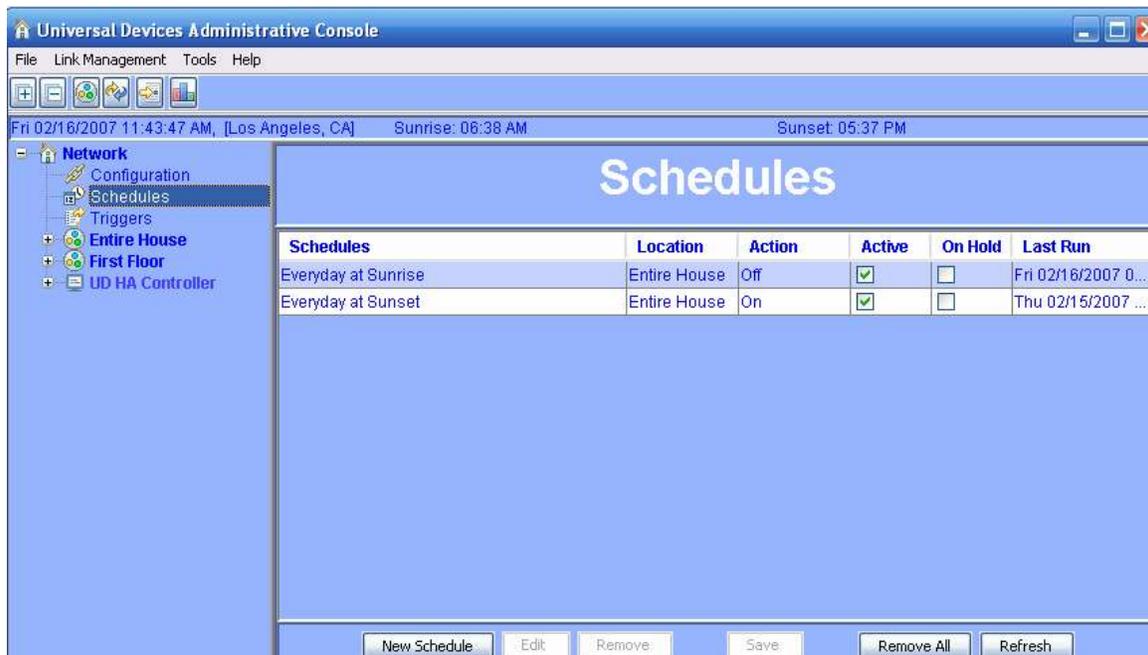


Figure 20– Schedules View

10.1 New Schedule

To create a new schedule, simply click on the **New Schedule** button at the bottom of the Schedules View. This action will bring up the Schedule Configuration Utility (Refer to Figure 21) through the usage of which you can add different types of schedules as outline

in the following subsections. After you selected the location and time in the Schedule Configurator, click OK. You will be back in the Schedule View. Please select your schedule and click on the Action column, you will be presented with a drop down menu from which you should select the desired action. Please press the Save button at the bottom center of the schedules view.



Figure 21- Schedule Configurator

Note: You can add all the desired schedules before saving them to the ISY for execution. When you are done with creating all the desired schedules, click on the **Save** button at the bottom of the Schedules View.

10.2 Adding a Schedule for a Specific Time

This type of schedule is run only **Once** at a specific date and time. In order to create this type of schedule, on the Scheduler Configuration Utility:

- i. Click on the **Once** (at the left top)
- ii. Choose the desired time
 - a. Either enter the time manually
 - b. Select Sunset or Sunrise and the correlating time, based on your location, will be entered for you by the ISY
- iii. Choose the desired date
 - a. Select the month by using the arrows at the bottom left and bottom right
 - b. Select the day by clicking on the correlating number button, the selected day will appear in red text
- iv. Choose the location from the drop down menu at the top
- v. Click on **Ok**

- vi. From the Schedule View select the appropriate Action by clicking on your schedule' action column
- vii. Click on **Save**

10.3 Adding a Schedule for Everyday at a Given Time

This type of schedule is run **Everyday** at a specific time. In order to create this type of schedule, on the Scheduler Configuration Utility:

- i. Click on the **Everyday** (at the top left)
- ii. Choose the desired time
- iii. Click on **Ok**

10.4 Adding a Repeated Schedule for Everyday

This type of schedule is run **Everyday** at a specific time and is **repeated** at the desired interval within the desired duration (less than 24 hours). The desired duration should be entered at the Repeat Every entry location of the Schedule Configurator. For example the schedule can run every 15 minutes. In order to create this type of schedule, on the Scheduler Configuration Utility:

- i. Click on the **Everyday** (at the top left)
- ii. Click on the **Repeats** (at the top left)
- iii. Choose the **From** time
- iv. Choose the **To** Time
- v. Choose the desired **Repeat every** interval (at the bottom center)
- vi. Click on **Ok**

10.5 Adding a Schedule for Certain Days of the Week

This type of schedule is run on **Certain Days of the Week** at a specific time. In order to create this type of schedule, on the Scheduler Configuration Utility:

- i. Click on the **Every** (at the top left)
- ii. Click on the desired **Days** (on the left)
- iii. Choose the desired time or click on Repeats and choose the desired repeat times
- iv. Click on **Ok**

10.6 Holding Schedules on a Certain Date

Holding schedules is a powerful mechanism through which the schedules can be put on hold without the need for removing and adding schedules.

In order to Hold Schedules on a Certain Date on the Scheduler Configuration Utility:

- i. Open the schedule by double clicking it or selecting it from the Schedule View and clicking Edit
- ii. Click on the **Hold** (on the lower left)
- iii. Choose the **month, day, and year** this hold should be applied
- iv. Click on **Ok**

Note: A **Hold** schedule at the highest level for location (ISY) will put all the schedules for all the devices in all the ISY in the network on hold.

10.7 Holding Schedules for a Duration

Holding schedules is a powerful mechanism through which the schedules can be put on hold without the need for removing and adding schedules. Not only you can Hold schedules for a Certain Date, you can also Hold schedules for a Duration of time.

In order to Hold Schedules for a Duration of time, on the Scheduler Configuration Utility:

- i. Click on the **Hold** (at the bottom left)
- ii. Click on the **Repeats** (at the upper left)
- iii. Choose **From** and enter the desired date and time for the **start** of the hold
- iv. Choose **To** and enter the desired date and time for the **end** of the hold
- v. Click on **Ok**

10.8 Editing an Existing Schedule

To select an existing schedule simply click on it. The schedule's row will turn pink and you can make changes to the actions by clicking on the Action's entry for the selected schedule. You will be presented with a drop down menu from which you can select the desired action. To edit additional features of this schedule you can click on it once and select the Edit button or double click on the schedule. Please make sure you click the Save button in the Schedules view after you completed your changes otherwise your changes will not be saved on the ISY and will not take effect.

10.9 Removing a Schedule

Some schedules – such as those created for a Specific Time – become inactive once executed. Or, there might be the necessity for removing a schedule that is no longer required. In these cases, all one has to do is to click on the row containing the schedule and then clicking on the **Remove** button on the Schedules View.

To remove all schedules simply click on the **Remove All** button on the Schedules View.

11. Left Pane – Triggers

Triggers View, See Figure 22, allows for the configuration of actions and notifications based on certain events within the controller devices. Just like the Schedules, Triggers may be applied either globally (on all the devices on all the ISY) or locally on a specific device.

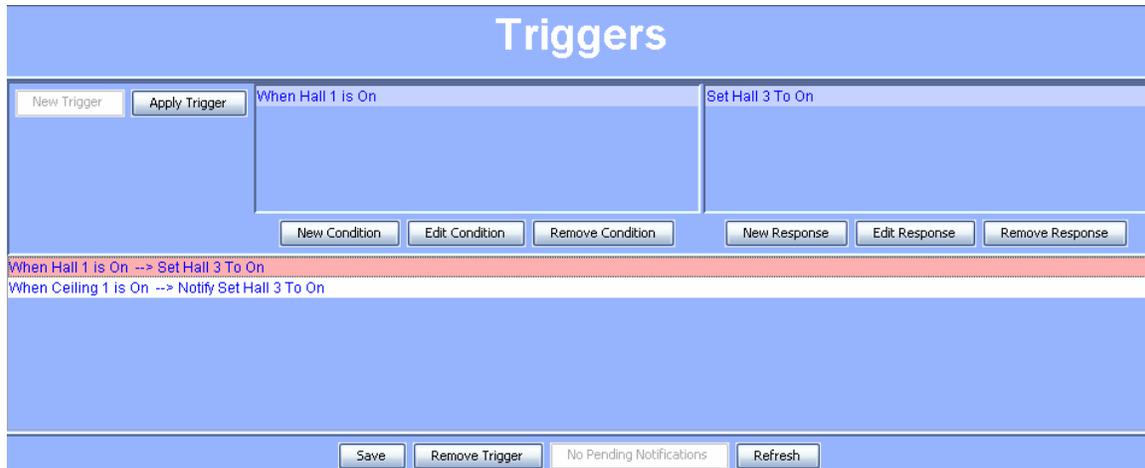


Figure 22– Triggers

11.1 Setting a Trigger

To set a trigger:

- i. Click the New Trigger button (on the upper left)
- ii. Click the New Condition button – this will cause a new view to open up and allow you to select the new condition. For example: When Hall 1 is on
- iii. Click the New Response button – this will cause a new view to open up and allow you to select the reaction to the condition you just selected. For example: Set Hall 3 to On.
- iv. Click the Apply Trigger button (on the upper left)
- v. You can now either follow the same process to enter another trigger or click the Save button

You can select multiple condition and multiple responses as part of the same trigger. For example:

Conditions	If Hall 1 and Hall 2 are On
Responses	Turn Hall 3 On Notify - This will notify all the contacts listed in the configurations view and will follow the rules for the notifications (such as max three notifications.)

Please make sure you **click the Apply Trigger or Save each trigger** otherwise your trigger entry will not be saved to the ISY and as such will be lost.

Note:

The maximum number of Trigger allowed is: 20.

The maximum number of Conditions per Trigger allowed is: 6.

The maximum number of Responses per Trigger allowed is: 6.

11.2 Removing a Trigger

To remove a Trigger please select it by clicking on it once and click the Remove button. Please press the Save button to update the ISY.

11.3 Pending Notifications

This will provide a status of the notifications which are still pending for the triggers. For example if the total notifications based on the trigger and the notification setup is three notifications and only one was already sent, the Pending Notifications will show two pending notifications. If you click on the Pending Notifications button all pending notifications will be deleted and no additional notifications will be sent for this trigger.

11.4 Refresh

If a Trigger does not show up please click the Refresh button. It should refresh the list based on the Triggers already saved on the ISY.

12. Left Pane – ISY

12.2 Controller Icon

The fourth icon on the left pane is the main group of all the devices on your ISY. In this implementation, as shown in Figure 23, it is called My Lighting. It may be called ISY depending on the software version you have. You may change this name. Its symbol is a computer to the left of the name (My Lighting or ISY.)



Figure 23– Controller Icon

This group will always contain all the devices that are linked to the controller. You can not delete this group. By selecting the controller and doing a right click you will be presented with a menu with three options: Query, Rename and Start Linking.

12.2 Query

When you select the Query option on the menu associated with the Controller's group the ISY will start querying the network and searching the status of each device which is linked to the controller. It will update their status and the updated information will be presented in the table in the view pane.

12.3 Rename

The Rename menu option allows you to rename the ISY's controller name.

12.4 Start Linking

For all devices, **with the exception of ControlLinc**, when new devices need to be added to the ISY you must select this option and then click the linking button on the new device (light, switch etc.) for as many devices as you desire. This performs the same action as the Start Linking button on the tool bar. The Start Linking button will change and will show an X sign. The new device/s should automatically show up on the ISY application. This may take a few seconds. Please click the Cancel button on the Linking Dialog after all your new devices have been linked to the controller and show up on the GUI. You can then rename each device and change its various attributes. Please follow each device as to the location of its linking button. The device should blink indicating it is in linking mode. **Please make sure you first select the Start Linking option from the ISY GUI and then click the linking button on the device itself.** Other wise the device will not be linked to the controller.

For ControlLinc, click on the Link a ControlLinc menu option and follow instructions on the screen.

13. Scenes

13.1 Left Pane - Scene Menu

By selecting any of the scenes you created and clicking on the right mouse button you will be presented with the Group Menu. It contains three options: Query, Rename and Remove Scene.

13.1.1 Query

When you select the Query option on the menu associated with each group the ISY will start querying the network and searching the status of each device which is part of the selected scene. It will update their status and the updated information will be presented in the table in the view pane.

13.1.2 Rename

The Rename menu option allows you to rename the selected scene.

13.1.3 Remove Scene

The Remove Scene menu option will delete the selected scene or group and the rules associated with it.

13.2 Scenes

Scenes are a set of rules which you apply to a group. The rules are based on the actions your devices can perform and we can automate in the system. A scene can help create the right ambiance for a certain event by a simple click. For example in Figure 24 we have created a movie scene. The lights in the Family Room were set to be turned on at the desired light intensity while viewing a movie.

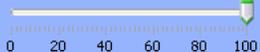
Family Room-Movie Scene

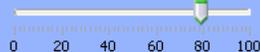
Managed Scene

Name	Status	Address	Type
Family Room 1	Off	7 B0 A5 1	(2456D2) Icon LampLinc 2 Pin v.40
Family Room 2	Off	4 99 A4 1	Unknown Device
Family Room 3	Off	6 85 AB 1	(2456S3) ApplianceLinc v.40

Scene Attributes

Family Room 1

On Level 

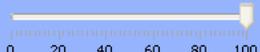
Ramp Rate 

Family Room 2

On Level 

Ramp Rate 

Family Room 3

On Level 

Ramp Rate 

Figure 24– Family Room-Movie Scene

14. Device Properties

When you click on a device its properties will show up in the view pane and the scenes which it belongs to will show up in the bottom pane. The bottom pane will also have the actions which can be performed on this device. Currently the ISY support all SmartHome lights, switches and dimmers. Depending on the device which is linked to the system you will be presented with the actions the system can help you perform and automate.

For example in Figure 25 the “Family Room1” light was selected and its properties are shown in the main pane.

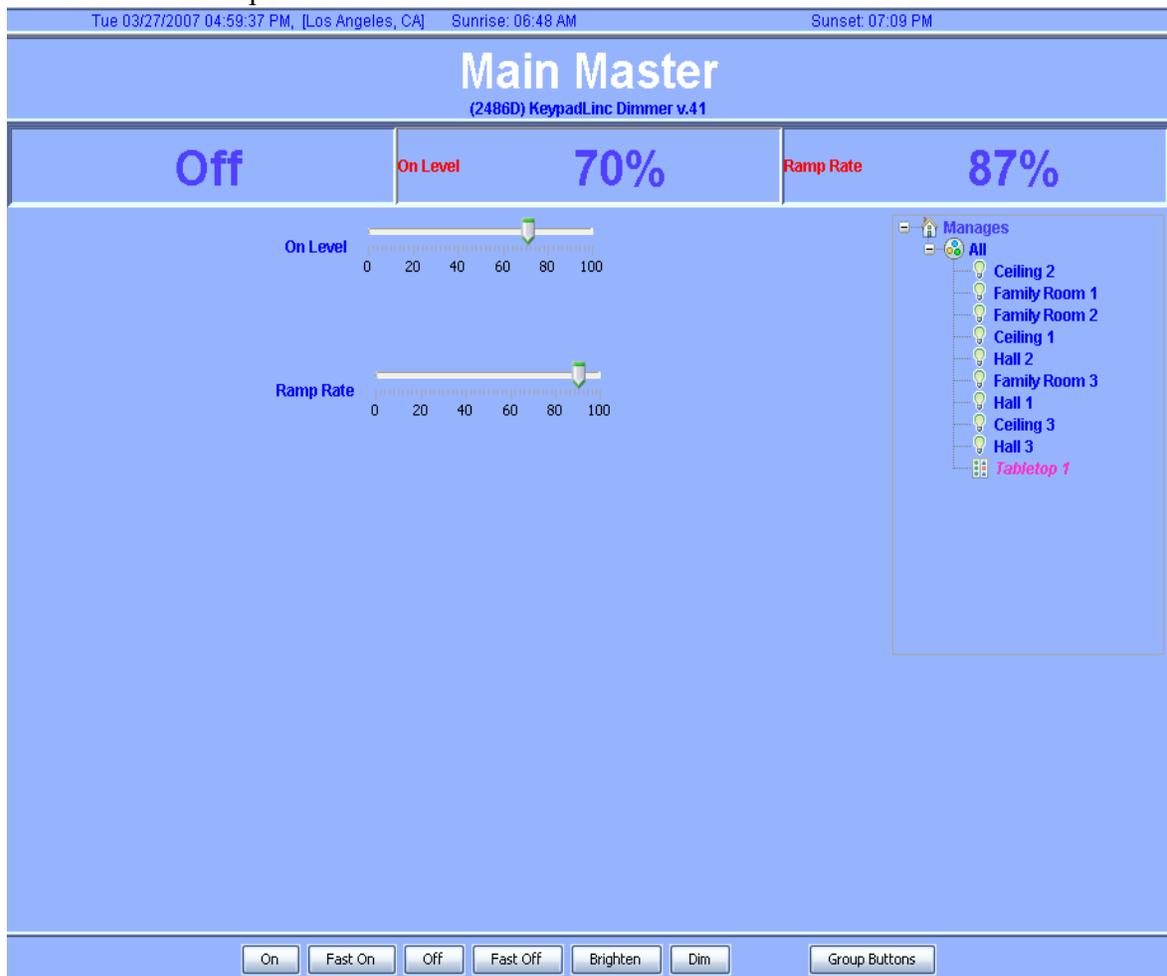


Figure 25– Scene Properties

The properties shown are:

- **Off** – Family Room 1 light is currently turned off
- **On Level** is 100% - the intensity of the light when it's turned on will be 100% of the light brightness

- **Ramp Rate** is 100% - the speed which the system will follow to turn on the light is full speed or 100%

The bottom pane shows the actions you can perform on this light. The actions are:

- **On** – The light will be turned on following the ramp rate settings
- **Fast On** – The light will be turned on immediately regardless of the ramp rate settings
- **Off** – The light will be turned off following the ramp rate settings
- **Fast Off** – The light will be turned off immediately regardless of the ramp rate settings
- **Brighten** – The light's intensity will be increased
- **Dim** – The light's intensity will be lowered

The tree at the right pane shows the scenes a device belongs or, in case of a switch/controller, devices (switches) that it controls. In the example shown in Figure 24, Main Master (KeypadLinc Button 1) controls all the lights as well as being controlled by a ControlLinc (Button1)

15. Errors and Error Messages

15.1 Possible Errors

15.1.1 Red Exclamation Mark

- If you see a red exclamation mark next to a device then you have lost connectivity to that device. Wait a few second and see if the device comes back on its own. If it does not then the device might be faulty or something was changed in the environment which affects the connectivity between the device and the ISY.
- If you see a red exclamation mark next to the Configuration option and all the devices listed in the Tree View, see Figure 26, you have probably lost connectivity to the ISY. You must re-login, select the Login option under the File Menu. If you are unable to re-login please reboot the ISY.



Figure 26– Connectivity Lost

15.1.2 A Sand Clock That Will Not Disappear

Close the browser to end the GUI and double click on the ISY icon to re-enter the GUI by double clicking the ISY in your Network Neighborhood.

15.1.3 Subscription ID Not Found

You have lost your session. Click on File->Login to re-login to the system.

15.1.4 Socket open failed java.io.IOException: An existing connection was forcibly closed by the remote host

There was a network outage. Please restart your browser.

15.2 To Report a New Error

To report a new error please send an email with the error description to: tech@universal-devieces.com

Please provide the error and the situation in which the error presents itself. If possible please include a screen shot.

16. Supported Devices

16.1 *Insteon enabled devices:*

Currently Available

- Wireless lights by SmartHome
- Wireless switches by SmartHome

Available by March 2007

- Irrigation/Sprinkler system, EZRain, by Simple home net/Compacta International

Available by May 2007

- Gates, Garage Doors and Windows by Somfy
- Doors by Weiland
- Smoke Detectors by First Alert

16.2 *Non Insteon enabled devices:*

- Aprilaire Thermostats
- XCI Thermostat
- Jackson Systems
 - Zone Control Thermostats
 - Regular Thermostats
 - A/C Valves

Please note in this version Insteon enabled devices and non Insteon enabled devices will show up in the same ISY GUI but can not be part of the same group. This feature will be available in future versions.

17. Registration

Please register with Universal Devices to receive notifications and upgrade notices.
Please register your unit at <http://www.universal-devices.com/register> .

