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X10ManagerDesktop

Operations Manual

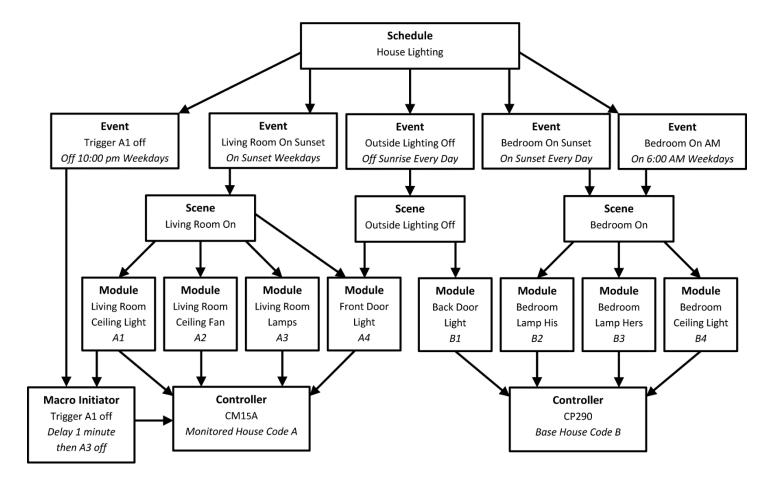
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Overview

X10ManagerDesktop Functional Operation



The "X10ManagerDesktop Functional Operation" diagram above shows relationships between **Schedules**, **Events**, **Scenes**, **Modules** and **Controllers**. The second item in each block is a freely formatted name of the **Schedule**, **Event**, **Scene**, **Module** or **Controller**. For example, the block labeled "Schedule" has been given a name "House Lighting".

Items shown in *italics* would be an operation or designator. For example, the "Event" block "Living Room On PM" has an operation "On 7:00 pm Weekends"; the "Module" block "Living Room Ceiling Light" has a Module designation "A1".

A **Schedule** consists of many **Events**. **Events** are unique to each **Schedule**. Each **Event** will trigger one **Scene** or one **Macro Initiator**. For example, Event "Living Room On PM" could not trigger an additional Scene.

One **Scene** or one **Macro Initiator** can be triggered by multiple **Events**. For example, Scene "Bedroom On" has two Events named "Bedroom On Sunset" and "Bedroom On AM" that triggers Scene "Bedroom On" at different times and days.

What's shown above is for illustrative purposes. Additional **Events, Scenes** and **Macro Initiators** can be added. For example, a Scene can be added that will turn off the Bedroom Lights.

Overview - continued

X10ManagerDesktop Functional Operation – continued

Scenes can be limited to groups of **Modules** set to one **House Code** as shown above with **Scene** "Living Room On". -or-

Scenes can control groups of Modules set over multiple House Codes as shown above with Scene "Outside Lighting Off".

Macro Initiators (or Macros) can be added for Controllers that support Macro Initiators such as the CM15A.

From a **Scheduling** -or- **Event** -or- **Scene** perspective, **Controllers** can support **Modules** set using multiple **House Codes**. For example, additional Modules set at House D could be added to the CM15A Controller.

However, **Controllers** can have limitations. For example, the CM15A Controller is limited to Monitoring one House Code (in this case House Code A). So Macro Initiators could only be Triggered by Modules set to House Code A.

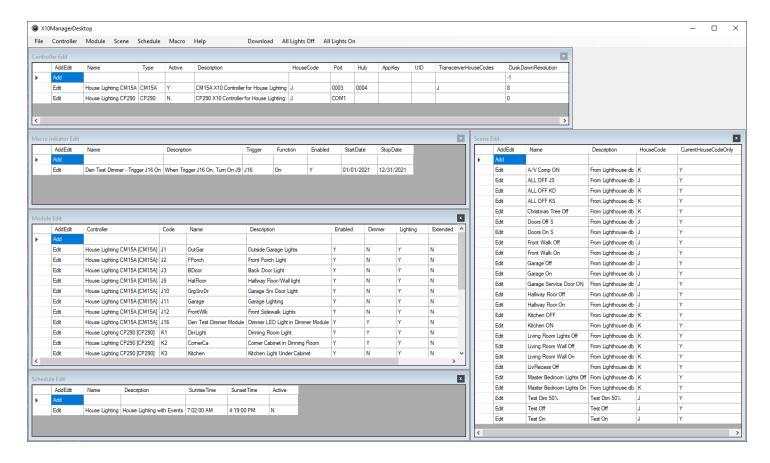
There can be multiple **Controllers**. The "X10ManagerDesktop Functional Operation" diagram shows two **Controllers**. Supported **Controllers** can be added in any desired combination. For example, a 2nd CM15A Controller can be added that would support **Modules** in House Code D to allow a Monitored House Code D for Macro Initiators.

The Scope of this project is limited to Controller programming and operation of X10 Event Timers (and X10 Macro Initiators when supported by a Controller). The Controller's X10 Event Timers (and X10 Macro Initiators) can be initiated by:

- X10 Event Timers (and X10 Macro Initiators) programmed to a Controller
- MS Windows Scheduled Events sending X10 Commands to a Controller via X10Manager (command line)

Note: Information regarding installation, setup and operation of X10 **Controllers** and X10 **Modules** is not covered in this Operations Manual.

X10ManagerDesktop program Window

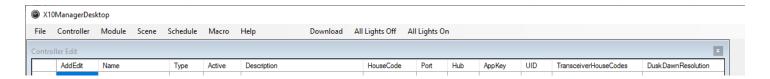


X10ManagerDesktop program can concurrently manage multiple **Controllers**, **Macro Initiators**, **Modules**, **Scenes**, **Schedules** and their **Events** using their respective "Add" and "Edit" forms.

Controllers, Modules, Scenes Macro Initiators, Schedules and their **Events** will have freely formatted names and descriptions given when they are added or later modified via the **X10ManagerDesktop** program. "Add" and "Edit" forms.

The **Setup** section discusses a sequence for 1st time setup of **Controllers**, **Modules**, **Scenes**, **Macro Initiators**, **Schedules** and their **Events**.

X10ManagerDesktop program Window Menus



File

Settings X10ManagerDesktop program behavior

Longitude and Latitude used for calculating Sunrise and Sunset times are entered here.

Backup Backup X10 database

The "Backup Directory Path" location is found in "Settings"

Restore Restore X10 database

Exit Program – Exiting program saves Windows size and positions per user

Controller

Add Add a X10 Controller to the X10 database

Edit Modify a X10 Controller already in the X10 database
 Download Download Event Timers to Selected Controllers

Module

Add Add a X10 Module to the X10 database

Edit Modify a X10 Module already in the X10 database
 Import Import a list of X10 Modules from a CSV file

■ Refer to "Appendix" – "X10Manager.exe" – "Operations Common to all Controllers" –

"importModulesToX10Db" for "CSV Import File Format"

- Export Export a list of X10 Modules to a CSV file

Scene

Add Add a Scene to the X10 database

- Edit Modify a Scene already in the X10 database

Schedule

- Add Add a Schedule to the X10 database

Edit Modify a Schedule already in the X10 database

Add Event / Edit Event is found in a selected Schedule

Macro

- Add Add a Macro Initiator to the X10 database

- Edit Modify a Macro Initiator already in the X10 database

Help

View Help Uses Adobe Reader or Adobe Acrobat to display this Operations Manual

- About X10ManagerDesktop Displays X10ManagerDesktop run-time and version information

Download Download Event Timers to Selected Controllers

All Lights Off

Turn Off all lights connected to "Enabled" Modules with "Control Lights" checked

Turn On all lights connected to "Enabled" Modules with "Control Lights" checked

Specifications

Supported X10 Controllers:

- CP290 X10 Home Control Interface
- CM15A X10 ActiveHome Pro

Operating System:

Microsoft Windows 8, 8.1, 10 (32 bit or 64 bit)

Microsoft .Net Framework Version 4.0 [needed for **X10Manager (command line)**]

"Adobe Reader" or "Adobe Acrobat" is needed to read file X10ManagerDesktop_OperationsManual.pdf which contains this "X10ManagerDesktop Operations Manual" document.

"Adobe Reader" or "Adobe Acrobat" can be found at:

https://www.adobe.com/accessibility/products/reader.html https://get2.adobe.com/reader/

Computer Interface:

- For each CP290 Controller: RS-232 Port (600 baud, 8 data bits, no parity, 1 stop bit, no flow control)
- For each CM15A Controller: USB Port (1.1, 2, 3)

Revisions

"X10ManagerDesktop"

Copyright © February 2006 trekkerphotoart.com

Version: 5

Revised: March 16, 2021

"X10Manager" (command line)

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Version: 5

Revised: March 16, 2021

Program Schema:

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Version: 5

Version Date: November 30, 2020

X10 Database Schema:

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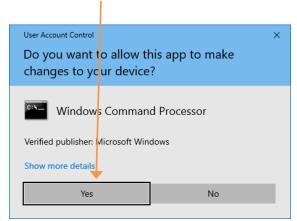
Installation

Extract install folder "X10ManagerDesktop_Installer" from the ZIP Archive "X10ManagerDesktop_Installer_Release.zip"

- 1) Mouse-Right-Click Windows Start Menu
- 2) Select "File Explorer"
- 3) With "File Explorer" navigate to "X10ManagerDesktop Installer Release.zip"
- 4) Mouse-Right-Click "X10ManagerDesktop_Installer_Release.zip"
- 5) Select "Open"
- 6) Mouse-Right-Click "X10ManagerDesktop_Installer"
- 7) Select "Copy"
- 8) With "File Explorer" navigate to "This PC"
- 9) Mouse-Right-Click "Local Disk (C:)"
- 10) Select "Paste"

Import "X10ManagerDesktop_Installer" Certificates.

- 1) With "File Explorer" navigate to "C:\ X10ManagerDesktop_Installer"
- 2) Mouse-Right-Click "ImportCert_X10ManagerDesktop_Installer.cmd"
- 3) Select "Run as administrator"
- 4) In "User Account Control" window Select "Yes"



Installation - continued

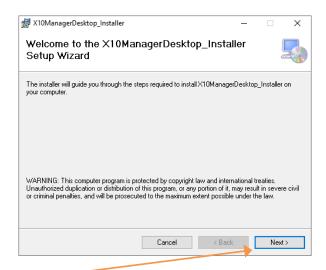
A normal **X10ManagerDesktop** and **X10Manager** (command line) installation will create new folders in the following locations:

- C:\X10ManagerDesktop_Installer
- C:\Program Files (x86)\trekkerphotoart.com\X10ManagerDesktop_Installer
- C:\X10Manager

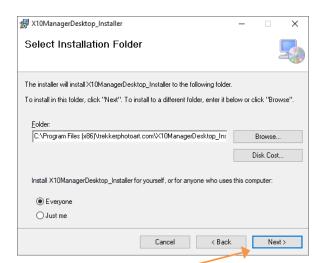
Note: Existing folders and their contents will be replaced.

Install "X10ManagerDesktop"

- 1) With "File Explorer" navigate to "C:\ X10ManagerDesktop_Installer"
- 2) Mouse-Right-Click "X10ManagerDesktop_Installer.msi"
- 3) Select "Install"

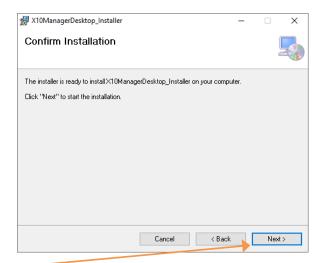


4) Select "Next"

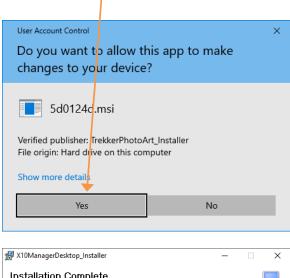


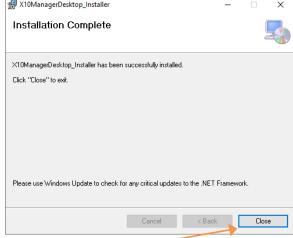
- 5) Use existing "Folder" location
- 6) Select "Everyone"
- 7) Select "Next"

Installation - continued



- 8) Select "Next"
- 9) In "User Account Control" window Select "Yes"





10) Select "Close" to finish Installation.

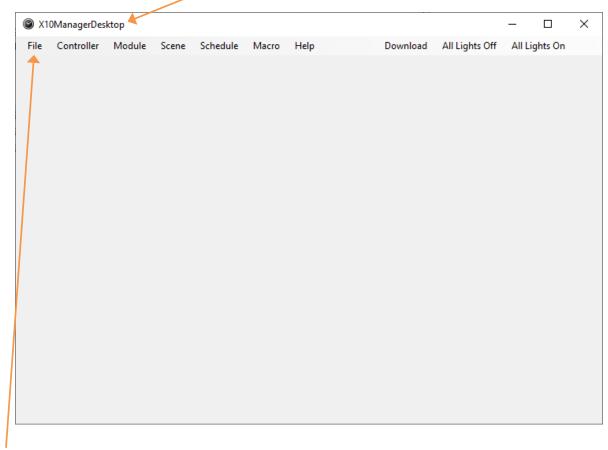
Setup

1st Time Setup

Launch "X10Manager Desktop" by Double-Clicking on it's Desktop Icon.



1st time **X10ManagerDesktop** program window will be displayed.



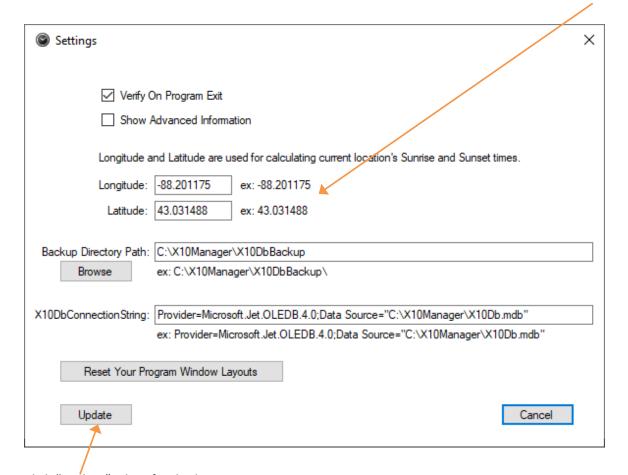
Setup - continued

1st Time Setup - continued

"Settings" Form is Displayed.

Your locations "Longitude" and "Latitude" need to be defined. These are used for calculating Sunrise and Sunset times used by Timer Events.

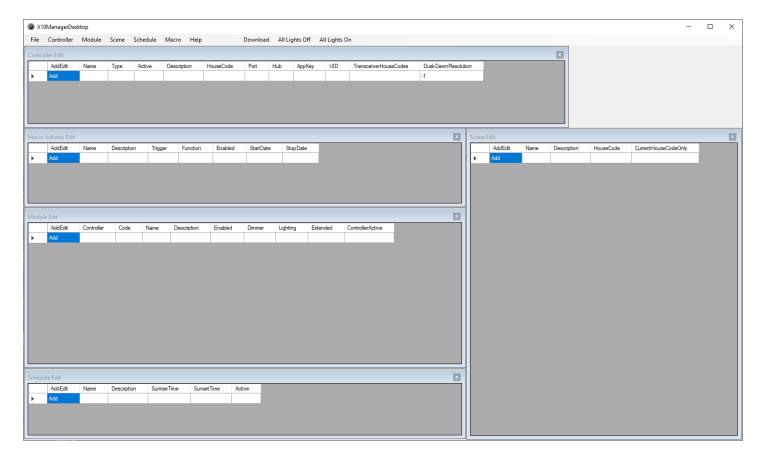
Sites such as "My Location" at https://my-location.org/ can be used to find your "Longitude" and "Latitude" coordinates.



Click "Update" when finished.

Setup - continued

Customize the X10Manager Desktop program Layout



Above shows an example of the **X10ManagerDesktop** program run for the 1st time. The layout is accomplished by selecting "Edit" from each menu drop down, then sizing and placing the displayed Edit Window as desired.

The Window size and positions will be automatically saved per user at program close/exit.

The following sections discuss adding Controllers, Modules, Scenes, Macro Initiators, Schedules and their Events.

For 1st time setup "Add" at least one item to each category using the following order:

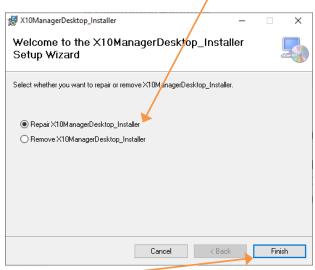
- 1) Controller
- 2) Module
- 3) Scene
- 4) Macro Initiator
- 5) Schedule
 - a. Event

Repair Installation

To Repair or Re-Install "X10ManagerDesktop"

- 1) With "File Explorer" navigate to "C:\ X10ManagerDesktop Installer"
- 2) Mouse-Right-Click "X10ManagerDesktop_Installer.msi"
- 3) Select "Install"

Select "Repair X10ManagerDesktop Installer"



Click "Finish"



In "User Account Control" window Select "Yes"

The program will be re-Installed.

Note: **X10ManagerDesktop** and **X10Manager** folders will be replaced with a fresh copy of all original installed files and a clean X10 database. Any additional or modified files and script customizations in these folders, and data in the X10 database will be cleared.

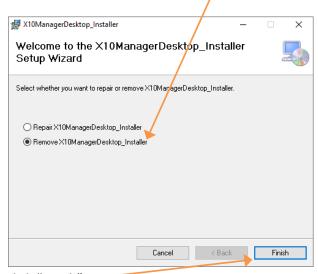
Refer to "<u>Preserve Files and X10 database</u>" section for details on how to preserve additional files, script customizations and data in the X10 database.

Remove Installation

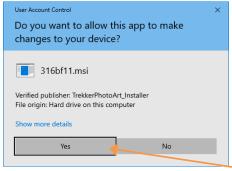
To Remove "X10ManagerDesktop"

- 1) With "File Explorer" navigate to "C:\ X10ManagerDesktop Installer"
- 2) Mouse-Right-Click "X10ManagerDesktop_Installer.msi"
- 3) Select "Install"

Select "Remove X10ManagerDesktop Installer"



Click "Finish"



In "User Account Control" window Select "Yes"

The program will be removed.

Note: **X10ManagerDesktop** and **X10Manager** folders will be removed. Any additional or modified files and script customizations in these folders, and the X10 database will also be removed.

Refer to "<u>Preserve Files and X10 database</u>" section for details on how to preserve additional files, script customizations and data in the X10 database.

Remove Installation - continued

Preserve Files and X10 database

A normal **X10ManagerDesktop** and **X10Manager** (command line) installation will create new folders in the following locations:

- C:\X10ManagerDesktop_Installer
- C:\Program Files (x86)\trekkerphotoart.com\X10ManagerDesktop_Installer
- C:\X10Manager

Note: Existing folders and their contents will be replaced.

"C:\Program Files (x86)\trekkerphotoart.com\X10ManagerDesktop_Installer" contains files needed for operation of **X10ManagerDesktop**.

- When a Repair or Remove Installation is performed, this folder and its contents are removed.
- A Repair Installation will re-create this folder and its contents.

Note: Do not add or modify files in this location.

"C:\X10Manager" contains files needed for operation of both X10ManagerDesktop and X10Manager (command line).

- When a Repair or Remove Installation is performed, this folder, its subfolders and its contents are removed.
- With a Repair Installation, the core files and some support command scripts (.cmd) are re-created.

The core files and subfolders within "C:\X10Manager" are:

- X10ManagerDesktop OperationsManual.pdf A copy of this Operations Manual

X10Db.mdb X10 Access database

X10Db_SetFilePermissions.cmd
 Resets X10 database file permissions (must use "Run as administrator")

X10Manager_backupX10Db.cmdX10Manager_restoreX10Db.cmd

- X10Manager createX10DbTables.cmd Resets X10 database, all existing data and settings are cleared

X10Manager.exe
 X10Manager (command line) executable
 X10Manager.exe
 Configuration file for X10Manager.exe

X10Include.dll Library file for X10Manager.exe
 X10IncludeCM.dll Library file for X10Manager.exe
 ParadoxReader.dll Library file for X10Manager.exe

X10Manager_downloadEventsToActiveControllers.cmd

X10Manager_exportModulesFromX10Db.cmdX10Manager_importModulesToX10Db.cmd

PurgeFiles.vbs Used by command scripts (.cmd) to purge script run-time log files

- C:\X10Manager\Examples Folder that contains example command scripts (.cmd)

C:\X10Manager\X10DbBackup Default X10 database backup / restore location.

The next page shows steps for preserving and restoring files and X10 database.

Remove Installation – continued

Preserve Files and X10 database - continued

BEFORE a Repair or Remove Installation is performed, contents of the X10 database and your additional or customized command scripts need to be preserved.

- 1) Perform a X10 database backup by double-clicking on C:\X10Manager\X10Manager_backupX10Db.cmd
- 2) Create a new folder, C:\X10Manager_SAVE
- 3) Create a new folder, C:\X10Manager_SAVE\X10DbBackup
- 4) Create a new folder, C:\X10Manager_SAVE\Examples
- 5) Copy C:\X10Manager*.cmd command scripts only to C:\X10Manager_SAVE
- 6) Copy C:\X10Manager\X10DbBackup*.* to C:\X10Manager_SAVE\X10DbBackup
- 7) Copy C:\X10Manager\Examples*.* to C:\X10Manager_SAVE\Examples

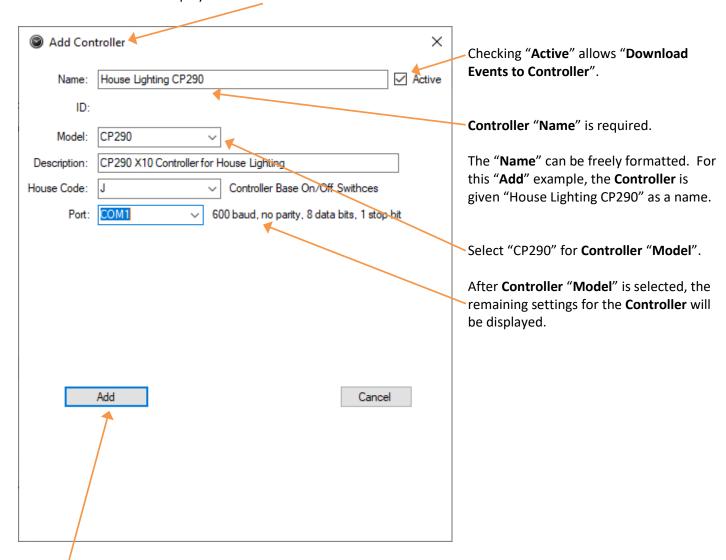
<u>After a Repair or Remove Installation is performed</u>, contents of the X10 database and your additional or customized command scripts can be restored ONLY if the above preserve steps were taken BEFORE the Repair or Remove Installation was performed.

- 1) Copy C:\X10Manager SAVE\X10DbBackup*.* to C:\X10Manager\X10DbBackup
- 2) Select "C:\X10Manager\X10Db_SetFilePermissions.cmd", right-mouse-click, select "Run as administrator"
- 3) Perform a X10 database restore by double-clicking on C:\X10Manager\X10Manager restoreX10Db.cmd
- 4) Copy ONLY scripts and files you have added or customized:
 - a. C:\X10Manager_SAVE*.cmd command scripts only to C:\X10Manager
 - b. C:\X10Manager SAVE\Examples*.* to C:\X10Manager\Examples

Controllers

Add CP290 X10 Home Control Interface

"Controller" - "Add" will display the "Add Controller" form.



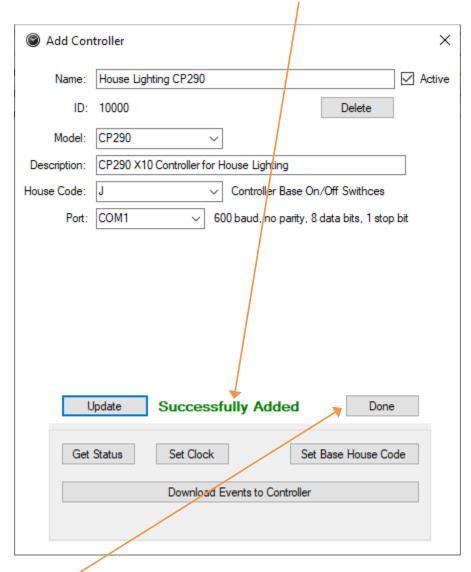
Click "Add" to finish adding Controller

Next page shows a "Successfully Added" result.

Controllers - continued

Add CP290 X10 Home Control Interface - continued

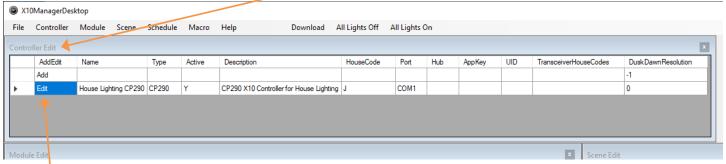
"Successfully Added" will be displayed in the status box.



Click "Done" to close "Add Controller" form.

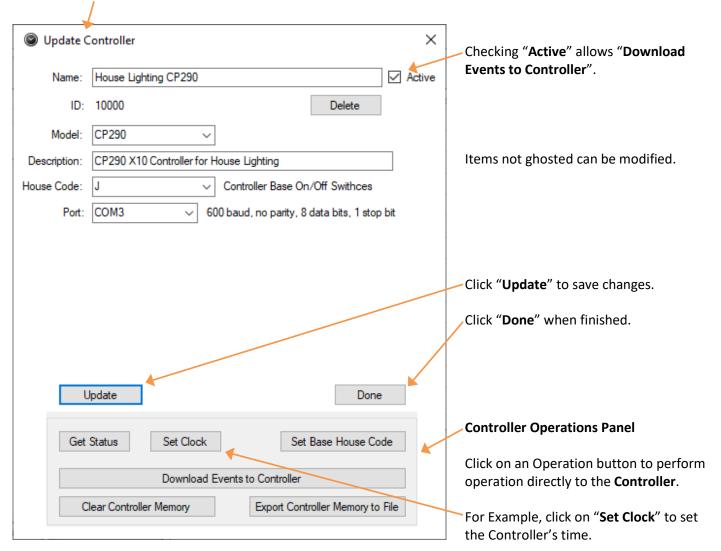
Edit CP290 X10 Home Control Interface

"Controller" – "Edit" will display the "Controller Edit" window containing a list of all added Controllers.



Click "Edit" on the row of the CP290 Controller to be edited.

The "Update Controller" form will be displayed



Add CM15A X10 ActiveHome Pro

Add Controller X	Checking "Active" allows "Download Events to Controller".
Name: House Lighting CM15A	
ID: Model: CM15A Description: CM15A Controller for House Lighhting	Controller "Name" is required. The "Name" can be freely formatted.
House Code: J	For this " Add " example, the Controller is given "House Lighting CM15A" as a name.
Transceiver House Codes	Select "CMA15A" for Controller " Model ".
□ A □ C □ E □ G □ I □ K □ M □ O □ B □ D □ F □ H ☑ J □ L □ N □ P Dusk/Dawn Resolution: 8 Days ✓	After Controller " Model " is selected, the remaining settings for the Controller will be displayed.
Add	" Port " – "port.hub"
	CM15A Controller must 1 st be connected to computers USB port and powered.
	If installing multiple CM15A Controllers, the " Port " – "port.hub" designation will be unique for each CM15A Controller.
	The CM15A Controller must be directly connected to a computer's USB port.

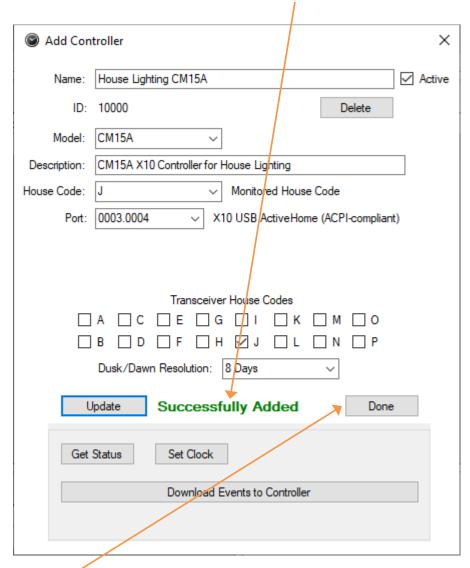
Next page shows a "Successfully Added" result.

Click "Add" to finish adding Controller

Controllers – continued

Add CM15A X10 ActiveHome Pro-continued

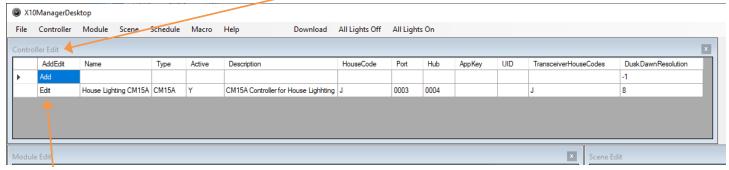
"Successfully Added" will be displayed in the status box.



Click "Done" to close "Add Controller" form.

Edit CM15A X10 ActiveHome Pro

"Controller" – "Edit" will display the "Controller Edit" window containing a list of all added Controllers.

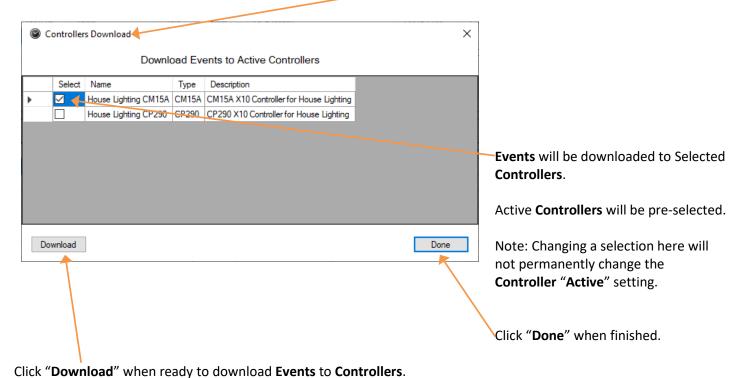


Click "Edit" on the row of the CM15A Controller to be edited.

The "Update Controller" form will be displayed Checking "Active" allows "Download Update Controller Events to Controller". House Lighting CM15A ✓ Active Name: ID: 10000 Delete Model: CM15A Items not ghosted can be modified. Description: CM15A X10 Controller for House Lighting House Code: Monitored House Code Port: 0003.0004 X10 USB ActiveHome (ACPI-compliant) Click "Update" to save changes. Transceiver House Codes Click "Done" when finished. □ A □ C □ E □ G □ I □ K □ M □ O B D D F DH ØJ DL DN DP Dusk/Dawn Resolution: 8 Days Update Done **Controller Operations Panel** Click on an Operation button to perform "Set Clock" also sets Get Status Set Clock Monitored and Transceiver House Codes operation directly to the Controller. Download Events to Controller For Example, click on "Set Clock" to set the Controller's time. Clear Controller Memory Export Controller Memory to File

Download Events to Controller

"Controller" - "Download" will display the "Controllers Download" window containing a list of all added Controllers.



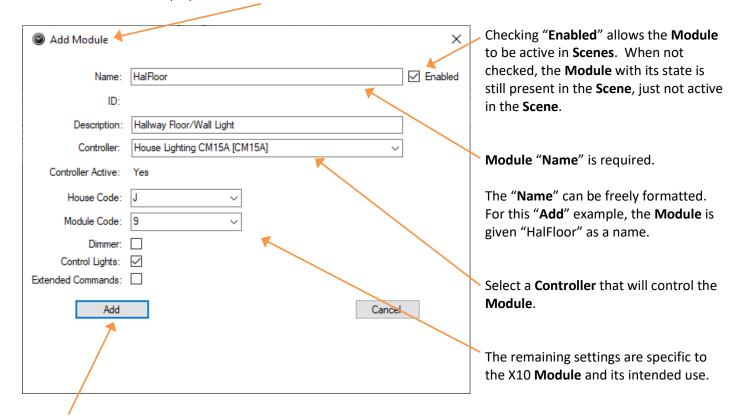
Notes:

- 8) "Download" on the main program Window will also display this "Controllers Download" window.
- 9) When editing a **Controller**, "**Download Events to Controller**" button will download to that **Controller**.
- 10) Refer to **X10Manager** (command line) section regarding setup of scheduled download **Events** to active **Controllers**.

Modules

Add X10 Module

"Module" - "Add" will display the "Add Module" form.



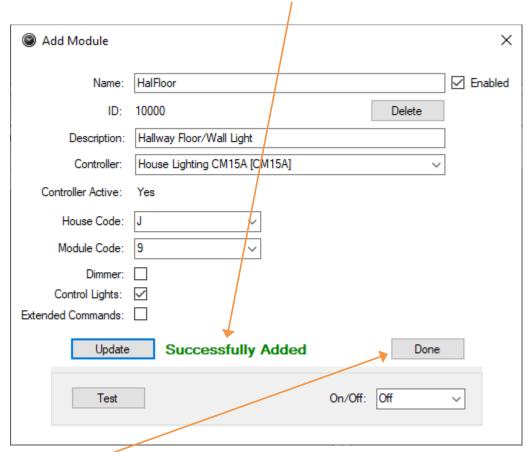
Click "Add" to finish adding Module

Next page shows a "Successfully Added" result.

Modules – continued

Add X10 Module— continued

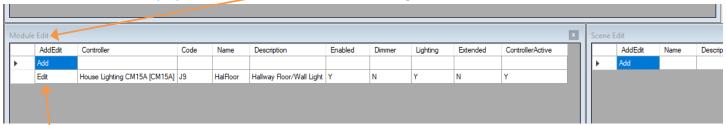
"Successfully Added" will be displayed in the status box.



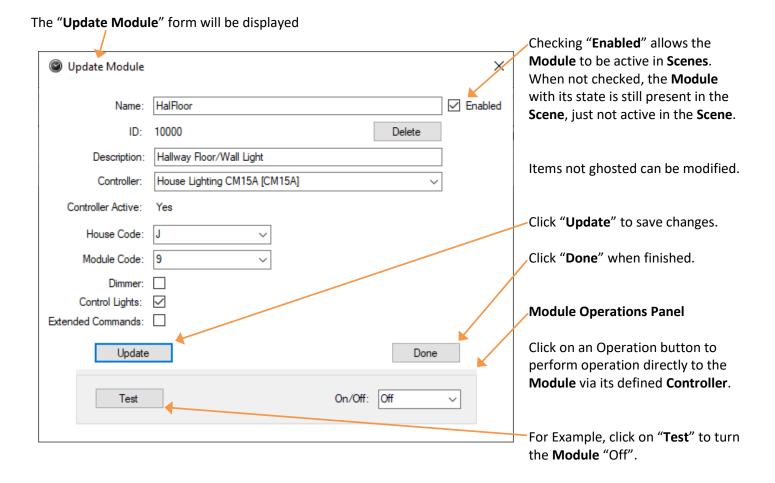
Click "Done" to close "Add Module" form.

Edit X10 Module

"Module" - "Edit" will display the "Module Edit" window containing a list of all added Modules.



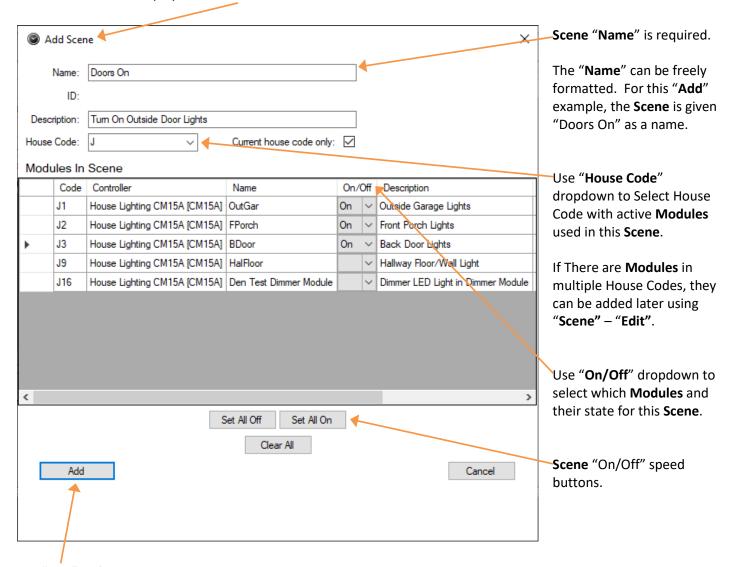
Click "Edit" on the row of the Module to be edited.



Scenes

Add Scene

"Scene" - "Add" will display the "Add Scene" form.



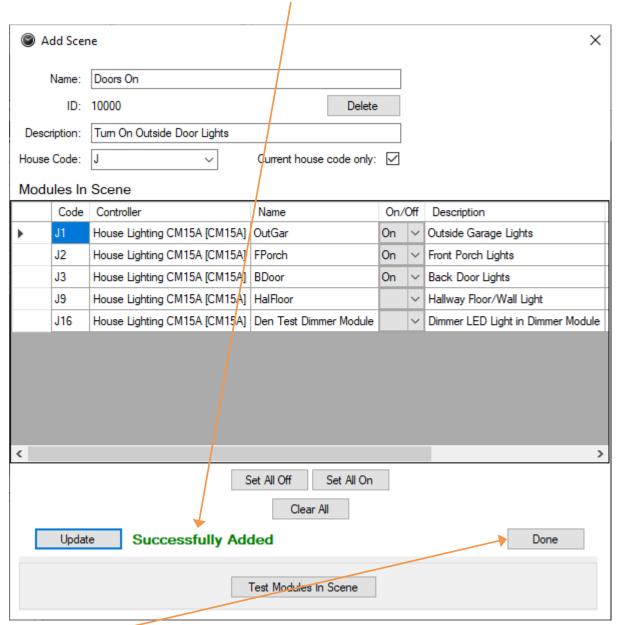
Click "Add" to finish adding Scene

Next page shows a "Successfully Added" result.

Scenes – continued

Add Scene-continued

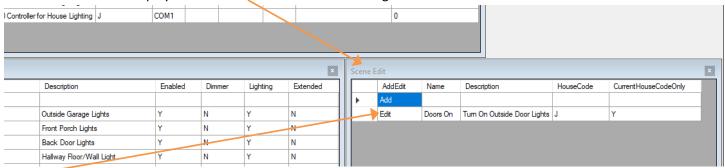
"Successfully Added" will be displayed in the status box.



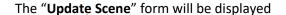
Click "Done" to close "Add Scene" form.

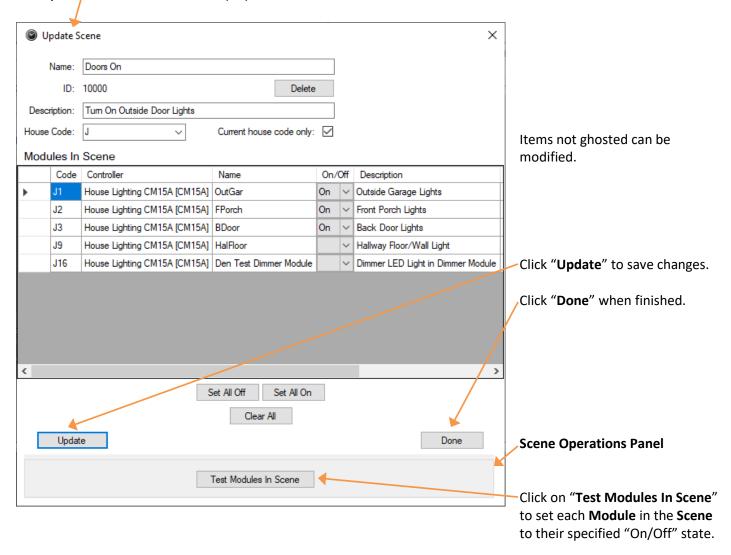
Edit Scene

"Scene" – "Edit" will display the "Scene Edit" window containing a list of all added Scenes.



Click "Edit" on the row of the Scene to be edited.





Macros

Macros Overview

Each Macros is entered using a three step process:

1) Macro Initiator

Note: A Macro Initiator can have multiple Macros

- A) Controller
- B) Enabled [Yes/No]
- C) Trigger [House Unit]
- D) Function [On/Off]

2) Macro

Note: A Macro can have multiple Macro Commands

- A) Macro Sort Order Order of execution
- B) RF (Radio Frequency) [On/Off] Note: "On" will allow sending RF Macro Commands.
- C) Delay Maximum 4 hours, 30 minutes (hh:mm:ss)
- D) Inhibit Retrigger [On/Off] Note: "On" disables sending both RF and Power Line Macro Commands.

3) Macro Command

- A) Macro Command Sort Order Order of execution
- B) Command
- C) Standard Commands
 - a. House Code
 - b. Unit(s)
 - c. Pre-Bright / Pre-Dim
 - d. Brights / Dims
- D) Extended Commands
 - a. House Code
 - b. Unit Code
 - c. Extended Command
 - d. Extended Data Byte

The following Macros sections "Add Macro Initiator", "Add Macro" and "Add Macro Command" show steps for adding an operational Macros.

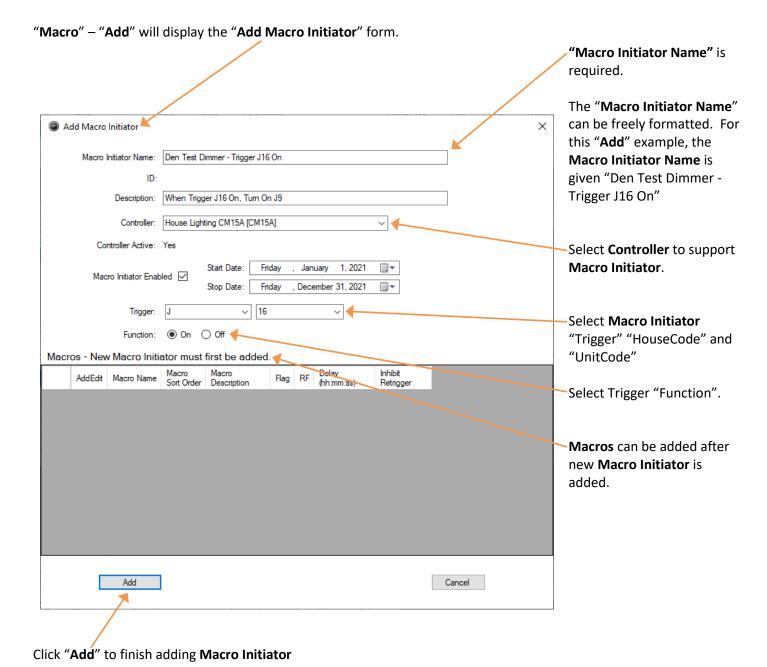
Note: Each Macro Initiator must include at least one Macro. Each Macro must include at least one Macro Command.

Macros sections "**Edit**" / "**Modify**" steps have the same relationships and similar screens.

Note: Example Macros sections "Edit" / "Modify" steps and screens have been omitted for document clarity.

X10ManagerDesktop Operations Manual

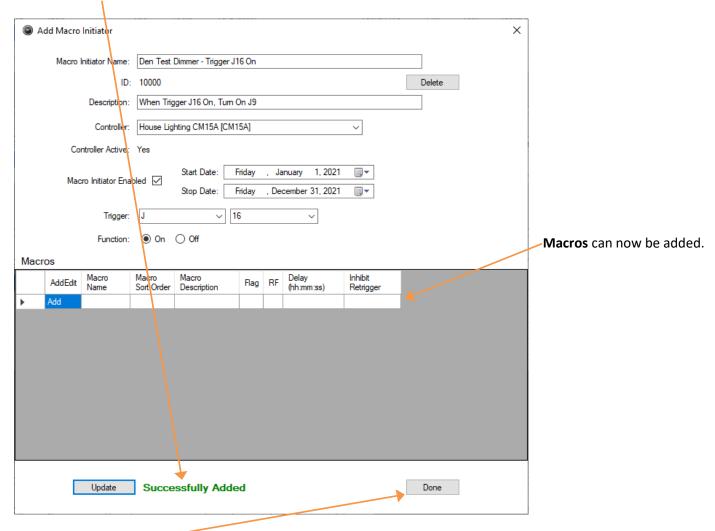
Add Macro Initiator



Next page shows a "Successfully Added" result.

Add Macro Initiator – continued

"Successfully Added" will be displayed in the status box

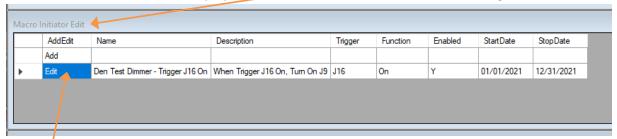


Click "Done" to close "Add Macro Initiator" form

Next page continues on with adding a **Macro** to this **Macro Initiator**.

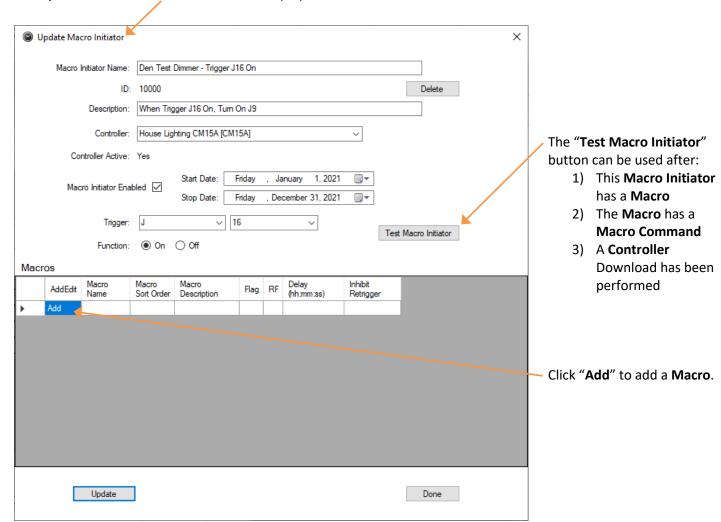
Add Macro

"Macro Initiator" - "Edit" will display the "Macro Initiator Edit" window containing a list of all added Macro Initiators.



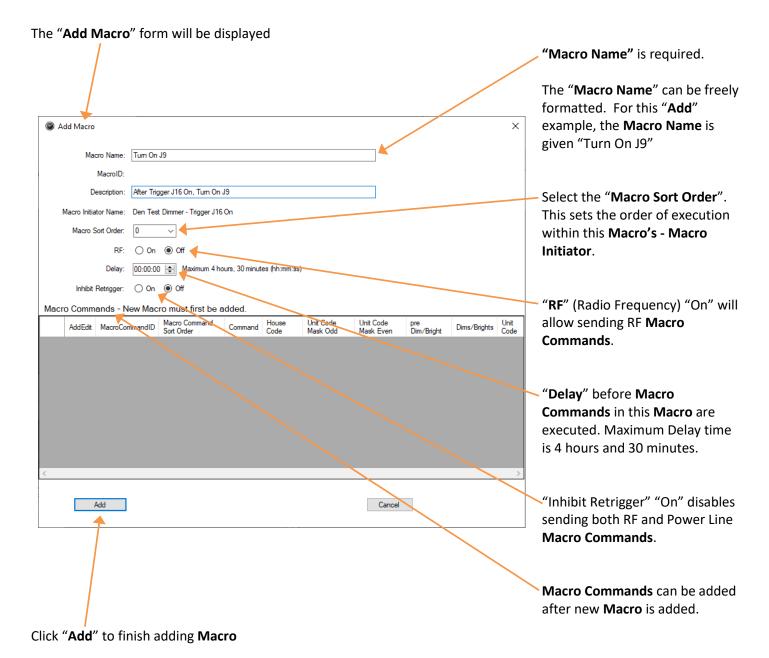
Click "Edit" on the row of the Macro Initiator to be edited.

The "Update Macro Initiator" form will be displayed



Next page shows "Add Macro" form.

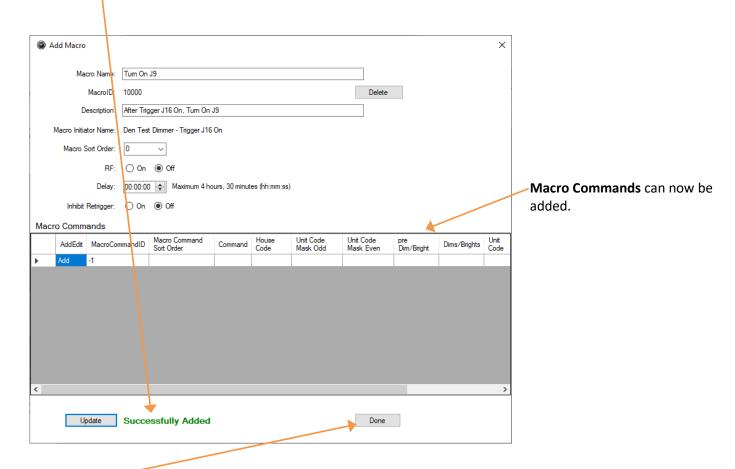
Add Macro - continued



Next page shows a "Successfully Added" result.

Add Macro - continued

"Successfully Added" will be displayed in the status box

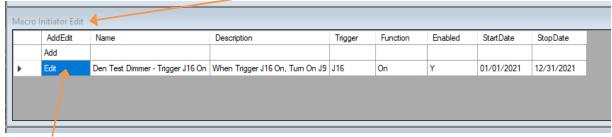


Click "Done" to close "Add Macro" form

Next page continues on with adding a Macro Command to this Macro.

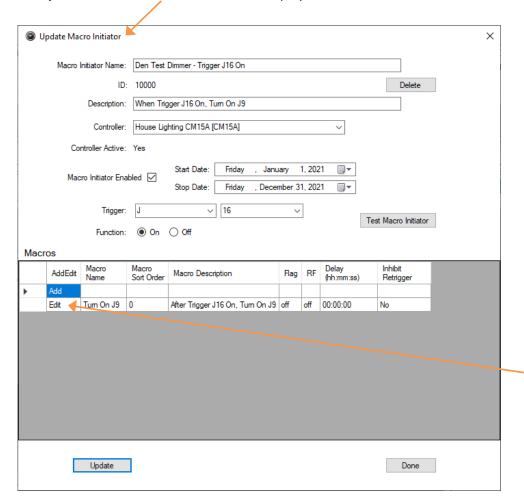
Add Macro Command

"Macro Initiator" - "Edit" will display the "Macro Initiator Edit" window containing a list of all added Macro Initiators.



Click "Edit" on the row of the Macro Initiator to be edited.

The "Update Macro Initiator" form will be displayed

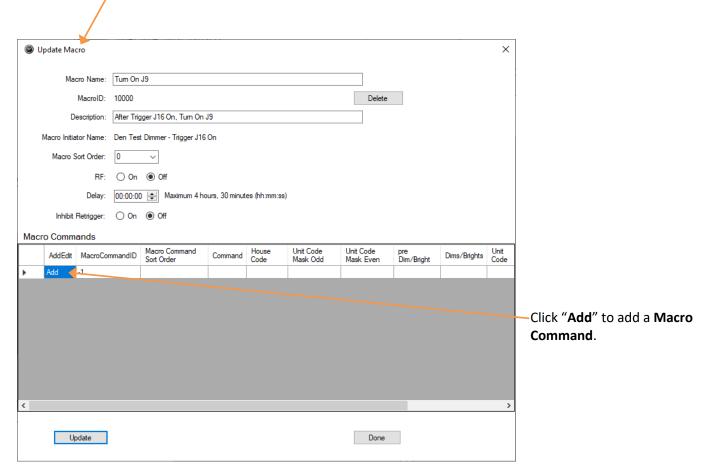


Click "Edit" on the Macro where the Macro Command is to be added.

Next page shows "Update Macro" form.

Add Macro Command – continued

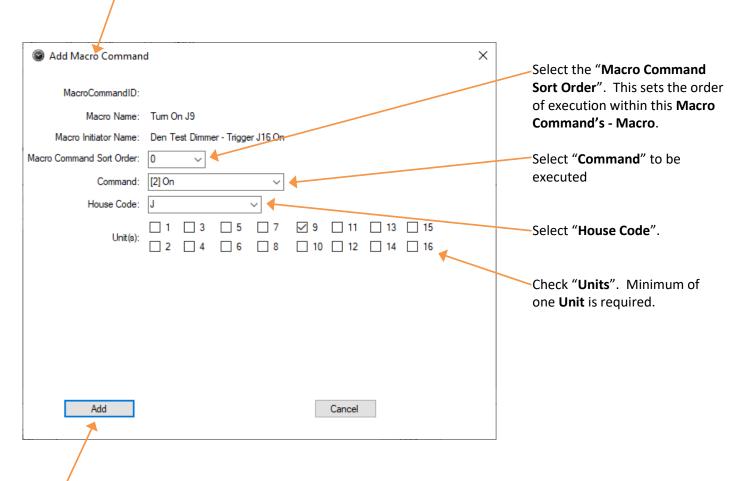
The "Update Macro" form will be displayed



Next page shows "Add Macro Command" form.

Add Macro Command - continued

The "Add Macro Command" form will be displayed

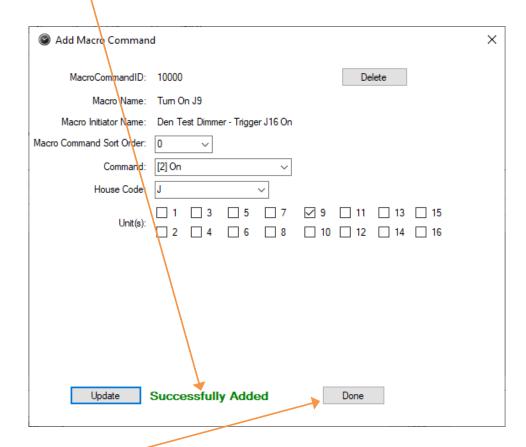


Click "Add" to finish adding Macro Command

Next page shows a "Successfully Added" result.

Add Macro Command – continued

"Successfully Added" will be displayed in the status box

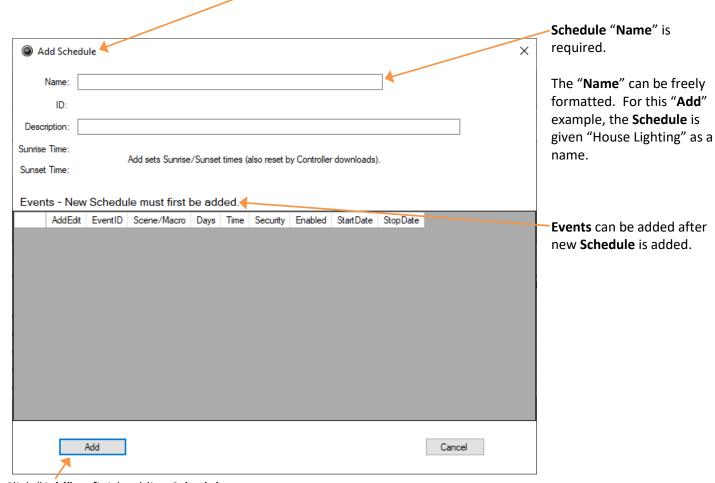


Click "Done" to close "Add Macro" form

Schedules

Add Schedule

"Schedule" - "Add" will display the "Add Schedule" form.

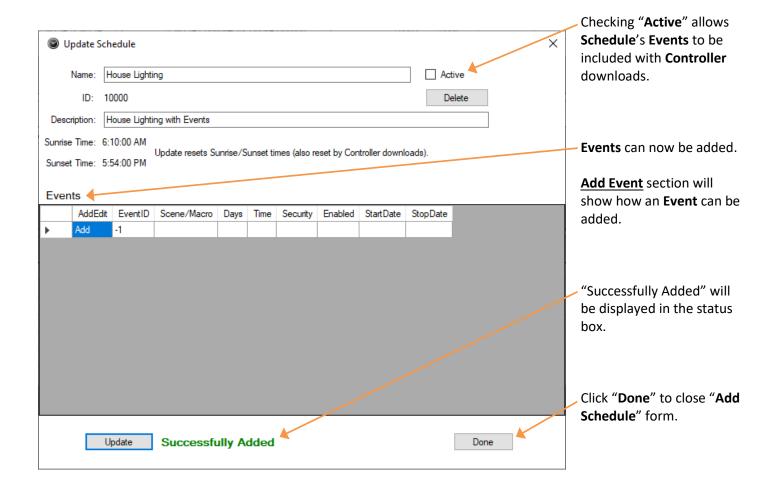


Click "Add" to finish adding Schedule

Next page shows a "Successfully Added" result.

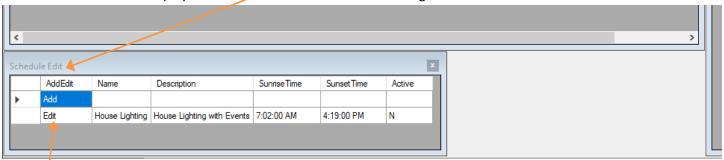
Schedules - continued

Add Schedule-continued



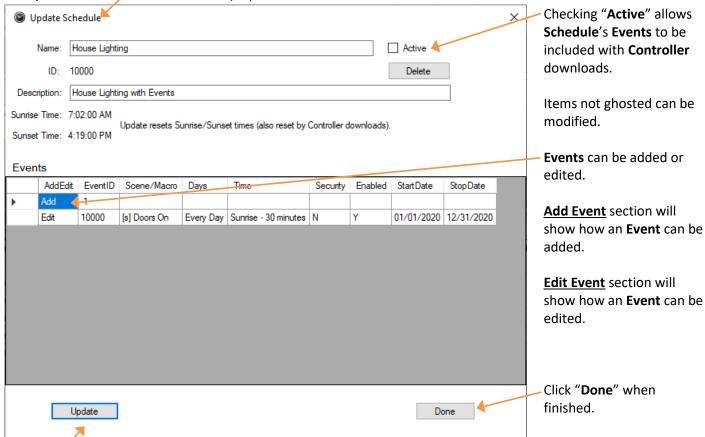
Edit Schedule

"Schedule" - "Edit" will display the "Schedule Edit" window containing a list of all added Schedules.



Click "Edit" on the row of the Schedule to be edited.

The "Update Schedule" form will be displayed

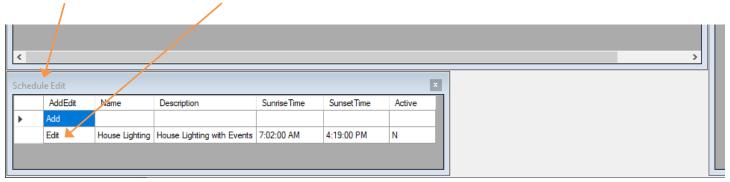


Click "Update" to save changes.

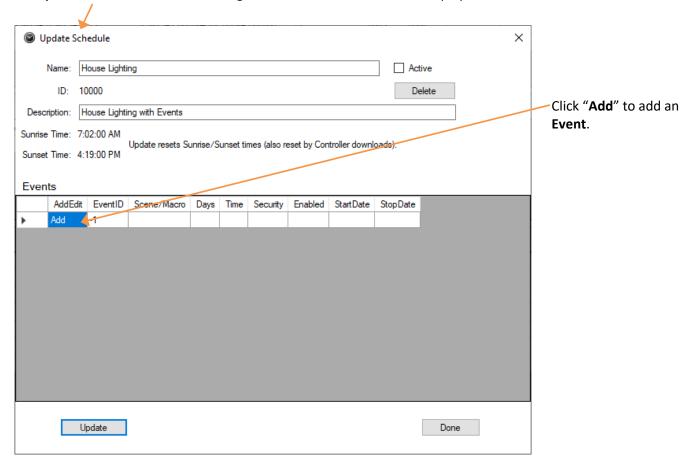
Events

Add Event

In "Schedule Edit" window, click "Edit" on the row of the Schedule that will contain the Event to be added.



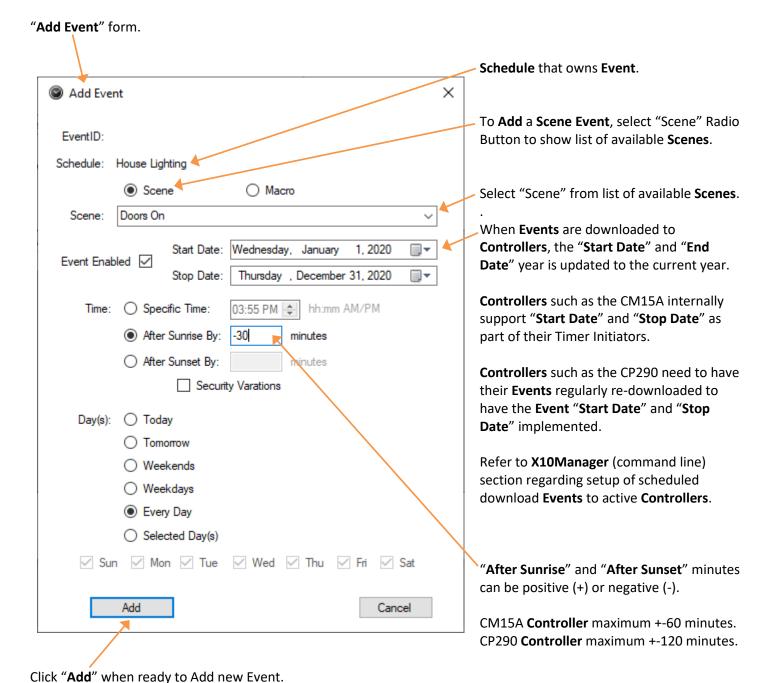
The "Update Schedule" form containing the selected Schedule will be displayed



Next page shows "Add Event" form.

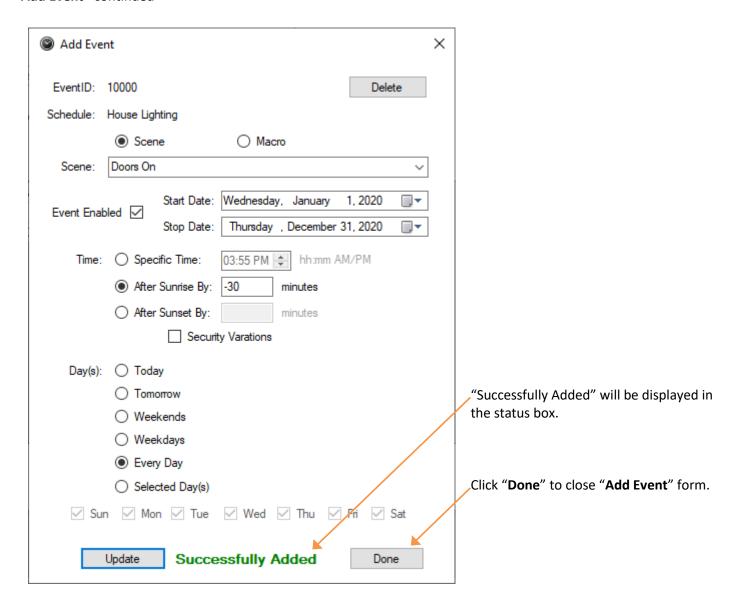
Add Event-continued

An **Event** can trigger a **Scene** or **Macro**. Adding a **Macro Event** uses the same steps as adding a **Scene Event** with the exception of selecting the "Macro" Radio Button, then selecting a **Macro** from the list of available **Macros**.



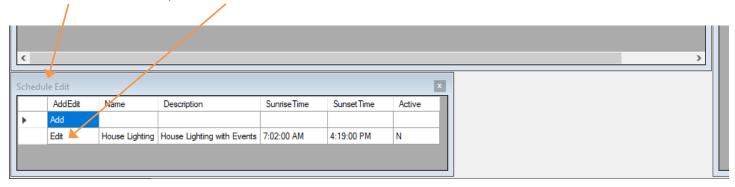
Next page shows a "Successfully Added" result.

Add Event-continued

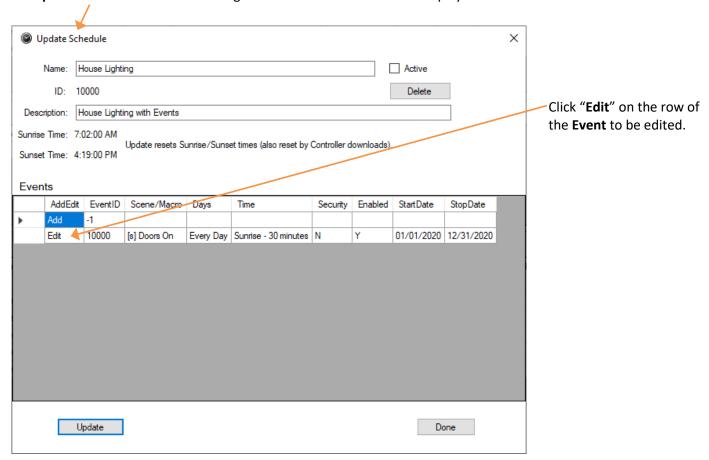


Edit Event

In "Schedule Edit" window, click "Edit" on the row of the Schedule that will contain the Event to be edited.



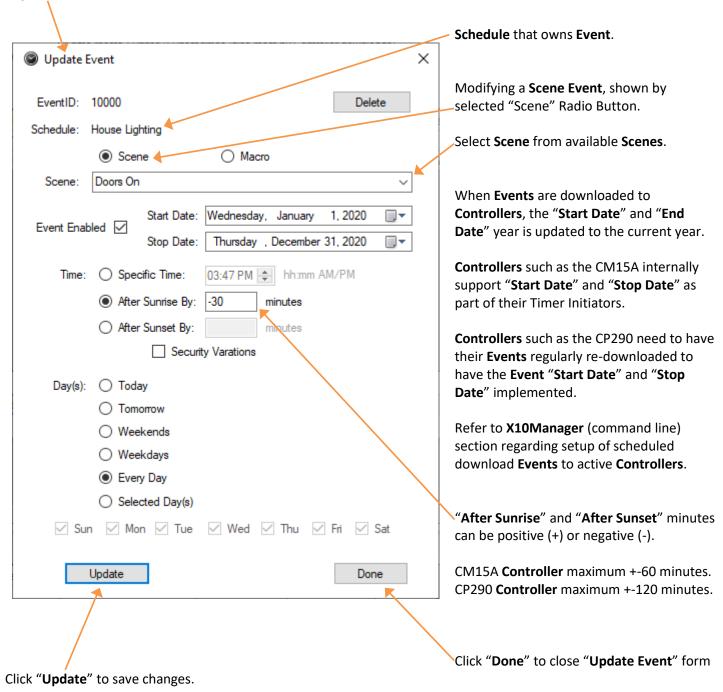
The "Update Schedule" form containing the selected Schedule will be displayed



Next page shows "Edit Event" form.

Edit Event-continued

"Update Event" form.



Note: Modifying a **Macro Event** uses the same steps as modifying a **Scene Event** with the exception of when the "Macro" Radio Button is selected, a list of available **Macros** will be displayed.

Appendix

X10Manager (command line)

X10Manager can be used to perform command line operations on X10 Database, X10 Controllers and X10 Modules.

After successful installation of **X10ManagerDesktop**, **X10Manager** (command line) is typically located at "C:\X10Manager". **X10Manager** Command Line settings and examples are found in **X10Manager.exe** section.

The Access Database "X10Db.mdb" used by **X10ManagerDesktop** and **X10Manager** (command line) must be in the same folder with "X10Manager.exe" and its operating support files "X10Manager.exe.config, ParadoxReader.dll, X10Include.dll and X10IncludeCM.dll".

X10Manager (command line) **Command Scripts** can be executed directly. -or-

X10Manager (command line) Command Scripts can be submitted to the "Windows Task Scheduler".

This will allow automation of back-end tasks such as:

- Setting a Controllers time and day clock
 C:\X10Manager\Examples\X10Manager_setX10Time_xxxxxxx.cmd
- 2) Get a Controllers operating status C:\X10Manager\Examples\X10Manager_getControllerStatus_xxxxxxx.cmd C:\X10Manager\Examples\X10Manager_getX10DuskDawn_CM15A_xxxxxxxx.cmd C:\X10Manager\Examples\X10Manager_getX10TransceiverSetup_CM15A_xxxxxxxx.cmd
- 3) Change a Controllers settings or operating status
 C:\X10Manager\Examples\X10Manager_updateX10ControllerToX10Db_xxxxxxxx.cmd
 C:\X10Manager\Examples\X10Manager_putX10TransceiverSetup_CM15A_xxxxxxxx.cmd
 C:\X10Manager\Examples\X10Manager_clearX10Memory_CM15A_xxxxxxxx.cmd
 C:\X10Manager\Examples\X10Manager_downloadX10BaseHousecode CP290 xxxxxxxx.cmd
- 4) Download Event Timers and Macros to Controllers

 C:\X10Manager\Examples\X10Manager_downloadEventsToActiveControllers.cmd

 C:\X10Manager\Examples\X10Manager_putTimersAndMacrosToX10Memory_CM15A_xxxxxxxx.cmd

 C:\X10Manager\Examples\X10Manager_getX10DbTimersPutX10_CP290_xxxxxxxx.cmd
- 5) Directly execute Module Commands
 C:\X10Manager\Examples\X10Manager_sendSceneUnitCommands.cmd
 C:\X10Manager\Examples\X10Manager_sendUnitCommand_xxxxxxxx.cmd
 C:\X10Manager\Examples\X10Manager_sendUnitExtendedCommand_xxxxxxxxx.cmd

Above and additional Command Script (.cmd) examples can be found at "C:\X10Manager\Examples".

Note: Run-time Command Scripts (.cmd) must be placed in "C:\X10Manager".

X10Manager (command line) - continued

X10Manager.exe

/O:Operation

Operations common to all Controllers

[addX10ControllerToX10Db|backupX10Db|compileTimersFromX10DbEventsPlaceInX10Db| createX10DbTables|downloadEventsToActiveControllers|exportModulesFromX10Db| getControllerStatus|getX10MemoryPutToFile|getSerialPortsPutX10Db|getUSBPortsPutX10Db|importModulesToX10Db|restoreX10Db|sendAllLightsOff|sendAllLightsOn| sendAllUnitsOff|sendAllUnitsOn|sendSceneUnitCommands|sendUnitCommand| setX10Time|updateX10ControllerToX10Db]

CM15A Controller specific Operations

[clearX10Memory|getX10DuskDawn|getX10MemoryVersionStamp|getX10TransceiverSetup|putX10TransceiverSetup|putTimersAndMacrosToX10Memory|sendUnitExtendedCommand|sendMacroInitiatorTrigger|setX10TimeClearBatteryTimers|setX10TimeClearMonitoredStatus|setX10TimePurgeTimers]

CP290 Controller specific Operations

[compareX10TimersToX10Db|downloadX10BaseHousecode|getX10DbTimersPutX10]

/F:Filename

/N:X10ControllerName

/T:X10ControllerType [CP290|CM15A]

/D:X10ControllerDescription

/E:Enabled [Y/N]

/P:Port [COMn| for USB ex: "0003"]

/B:Hub [for USB ex: "0004"]

/C:SceneName

/H:HouseCode [A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P]

/M:ModuleCode [comma delimited List within double quotes of numbers 1-16. ex: "1,3,5,7,9,16" or just a code ex: "10"] /1:Dimmer [Y]

/2:OnOff [Off|On|100|94|88|81|75|69|63|56|50|44|38|31|25|19|13|6]

/0:BrightenDim [B|D] (B=Brighten, D=Dim)

If BrightenDim not specified, Dimmer Module will pre-brighten then Dim. Note: CP290 is not supported

/1:Dimmer [N]

/2:OnOff [Off|On]

/3:StandardExtended [S|E] (S=Standard transmission, E=Extended transmission)

/4:ExtendedData [Extended transmission Data byte as string]

/5:ExtendedCommand [Extended transmission Command byte as string]

/6:MemoryAddrLow [byte as string]

/7:MemoryAddrHigh [byte as string]

/8:TransceiverHouseCodes

[comma delimited List within double quotes of House Codes. ex: "A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P"]

/9:DuskDawnResolution [dusk/dawn resolution in Days as number. Use multiples of 8. ex: For every 8 Days, enter "8"]

X10ManagerDesktop Operations Manual

X10Manager (command line) - continued

Operations common to all Controllers

addX10ControllerToX10Db

Caution: There are no defaults. All values for each Controller Type MUST be specified as shown in the following examples.

X10Manager.exe/O:<Operation>/T:<X10ControllerType>/N:<X10ControllerName>/D:<10ControllerDescription>/E:<Active>/H:<HouseCode>/P:<USBPort>/B:<USBHub>/8:<TransciverHouseCodes>/9:<DuskDawnResolution>

X10Manager.exe /O:"addX10ControllerToX10Db" /T:"CM15A" /N:"House Lighting CM15A" /D:"CM15A X10 Controller House Lighting" /E:"Y" /H:"K" /P:"0003" /B:"0004" /8:"J,K" /9:"8"

X10Manager.exe /O:"addX10ControllerToX10Db" /T:"CP290" /N:"House Lighting CP290" /D:"CP290 X10 Controller House Lighting" /E:"Y" /H:"K" /P:"COM3"

backupX10Db

Backups by default are placed in "C:\X10Manager\ X10DbBackup".

Use X10ManagerDesktop-"File"-"Settings" to change backup folder location.

X10Manager.exe /O:<Operation>

X10Manager.exe /O:"backupX10Db"

compileTimersFromX10DbEventsPlaceInX10Db

Timers are compiled from Active Schedules, Enabled Events, Enabled Modules, Active Controllers

X10Manager.exe /O:<Operation>

X10Manager.exe /O:"compileTimersFromX10DbEventsPlaceInX10Db"

createX10DbTables

Caution: This operation clears/resets X10 database.

All Controllers, Modules, Scenes, Schedules, Events and Macros will be removed.

X10Manager.exe /O:<Operation>

X10Manager.exe /O:"createX10DbTables"

downloadEventsToActiveControllers

Steps performed on Controllers marked "Active":

- 1) Set Controllers Time
- 2) Set new Sunrise and Sunset times
- 3) compileTimersFromX10DbEventsPlaceInX10Db
- 4) Reset CP290 Controller Base House Code
- 5) Download Event Timers to Controllers CP290 Timers and CM15A Timer / Macro Initiators
- 6) Compare Event Timers in X10 database to Controllers CP290 Timers and CM15A Timer / Macro Initiators

X10Manager.exe /O:<Operation>

X10Manager.exe /O:"downloadEventsToActiveControllers"

exportModulesFromX10Db

X10Manager.exe /O:<Operation> /F:<Filename>

X10Manager.exe /O:"exportModulesFromX10Db" /F:"X10Db_Modules.csv"

X10Manager (command line) - continued

Operations common to all Controllers - continued

getControllerStatus

X10Manager.exe /O:<Operation> /T:<X10ControllerType> /N:<X10ControllerName> X10Manager.exe /O:"getControllerStatus" /T:"CM15A" /N:"House Lighting CM15A" X10Manager.exe /O:"getControllerStatus" /T:"CP290" /N:"House Lighting CP290"

getX10MemoryPutToFile

X10Manager.exe /O:<Operation> /T:<X10ControllerType> /N:<X10ControllerName> /F:<Filename> X10Manager.exe /O:"getX10MemoryPutToFile" /T:"CM15A" /N:"House Lighting CM15A" /F:"getX10MemoryPutToFile_CM15A_HouseLightingCM15A.txt" X10Manager.exe /O:"getX10MemoryPutToFile" /T:"CP290" /N:"House Lighting CP290" /F:"getX10MemoryPutToFile_CP290_HouseLightingCM15A.txt"

getSerialPortsPutX10Db

X10Manager.exe /O:<Operation>
X10Manager.exe /O:"getSerialPortsPutX10Db"

getUSBPortsPutX10Db

All USB connected Controllers, such as the CM15A, must be connected and powered on.

X10Manager.exe /O:<Operation>
X10Manager.exe /O:"getUSBPortsPutX10Db"

importModulesToX10Db

CSV Import File Format:

Comma Delimited, each Cell with Double Quotes.
".csv" Extension for file name. Example: X10Db_Modules.csv

Header Row:

"ControllerName","UnitCode","UnitName","UnitDescription","UnitEnabledYN","UnitDimmerYN","UnitLightingYN","UnitExtendedCommandsYN"

Data Row Examples:

"House Lighting CP290","J1","OutGar","Outside Garage Lights","Y","N","Y","N"
"Test CP290","J16","Den Test Dimmer Module","Dimmer LED Test Light in Dimmer Module","Y","Y","N"

X10Manager.exe /O:<Operation> /F:<Filename> X10Manager.exe /O:"importModulesToX10Db" /F:"X10Db_Modules.csv"

restoreX10Db

Backups by default are placed in "C:\X10Manager\ X10DbBackup".

Use X10ManagerDesktop-"File"-"Settings" to change backup folder location.

X10Manager.exe /0:<Operation>
X10Manager.exe /0:"restoreX10Db"

X10Manager (command line) - continued

Operations common to all Controllers - continued

sendAllLightsOff

X10Manager.exe /0:<Operation> X10Manager.exe /0:"sendAllLightsOff"

sendAllLightsOn

X10Manager.exe /O:<Operation>
X10Manager.exe /O:"sendAllLightsOn"

sendAllUnitsOff

X10Manager.exe /O:<Operation>
X10Manager.exe /O:"sendAllUnitsOff"

sendAllUnitsOn

X10Manager.exe /O:<Operation> X10Manager.exe /O:"sendAllUnitsOn"

sendSceneUnitCommands

X10Manager.exe /O:<Operation> /C:<SceneName> X10Manager.exe /O:"sendSceneUnitCommands" /C:"Hallway Floor Off"

sendUnitCommand

X10Manager.exe /O:<Operation> /T:<X10ControllerType> /N:<X10ControllerName> /H:<HouseCode> /M:<ModuleCode> /0:<Brighten> /1:<Dimmer> /2:<OnOff> /3:<StandardExtended>

X10Manager.exe /O:"sendUnitCommand" /T:"CM15A" /N:"House Lighting CM15A" /H:"J" /M:"1,2,3,10" /1:"N" /2:"Off" /3:"S"

X10Manager.exe /O:"sendUnitCommand" /T:"CM15A" /N:"House Lighting CM15A" /H:"J" /M:"1,2,3,10" /1:"N" /2:"On" /3:"S"

X10Manager.exe /O:"sendUnitCommand" /T:"CM15A" /N:"House Lighting CM15A" /H:"K" /M:"6,7" /1:"Y" /2:"25" /3:"S"

X10Manager.exe /O:"sendUnitCommand" /T:"CM15A" /N:"House Lighting CM15A" /H:"K" /M:"6,7" /0:"Y" /1:"Y" /2:"50" /3:"S"

X10Manager.exe /O:"sendUnitCommand" /T:"CP290" /N:"House Lighting CP290" /H:"J" /M:"9" /1:"N" /2:"On" /3:"S"

X10Manager.exe /O:"sendUnitCommand" /T:"CP290" /N:"House Lighting CP290" /H:"J" /M:"16" /1:"Y" /2:"50" /3:"S"

X10Manager.exe /O:"sendUnitCommand" /T:"CP290" /N:"House Lighting CP290" /H:"J" /M:"16" /1:"Y" /2:"Off" /3:"S"

setX10Time

X10Manager.exe /O:<Operation> /T:<X10ControllerType> /N:<X10ControllerName>

X10Manager.exe /O:"setX10Time" /T:"CM15A" /N:"House Lighting CM15A"

X10Manager.exe /O:"setX10Time" /T:"CP290" /N:"House Lighting CP290"

updateX10ControllerToX10Db

Values for ControllerName and ControllerType cannot be changed using this command.

User **X10MangerDesktop** – "Controller" – "Edit" to change values for ControllerName and ControllerType

Caution: There are no defaults. All values for each Controller Type MUST be specified as shown in the following examples.

X10Manager.exe/O:<Operation>/T:<X10ControllerType>/N:<X10ControllerName>/D:<10ControllerDescription>/E:<Active>/H:<HouseCode>/P:<USBPort>/B:<USBHub>/8:<TransciverHouseCodes>/9:<DuskDawnResolution>

X10Manager.exe /O:"updateX10ControllerToX10Db" /T:"CM15A" /N:"House Lighting CM15A" /D:"CM15A X10 Controller House Lighting" /E:"Y" /H:"K" /P:"0003" /B:"0004" /8:"J,K" /9:"8"

X10Manager.exe /O:"updateX10ControllerToX10Db" /T:"CP290" /N:"House Lighting CP290" /D:"CP290 X10 Controller House Lighting" /E:"Y" /H:"K" /P:"COM3"

X10Manager (command line) - continued

CM15A Controller specific Operations

clearX10Memory

Caution: This operation will Clear all Timer and Macro Initiators from CM15A Controller.

A downloadEventsToActiveControllers or putTimersAndMacrosToX10Memory operation will need to be performed.

X10Manager.exe /O:<Operation> /T:<X10ControllerType> /N:<X10ControllerName> /F:<Filename>

X10Manager.exe /O:"clearX10Memory" /T:"CM15A" /N:"House Lighting CM15A" /F:"clearX10Memory_CM15A_HouseLightingCM15A.txt"

getX10DuskDawn

X10Manager.exe /O:<Operation> /T:<X10ControllerType> /N:<X10ControllerName> X10Manager.exe /O:"getX10DuskDawn" /T:"CM15A" /N:"House Lighting CM15A"

getX10MemoryVersionStamp

X10Manager.exe /O:<Operation> /T:<X10ControllerType> /N:<X10ControllerName> X10Manager.exe /O:"getX10MemoryVersionStamp" /T:"CM15A" /N:"House Lighting CM15A"

getX10TransceiverSetup

X10Manager.exe /O:<Operation> /T:<X10ControllerType> /N:<X10ControllerName> X10Manager.exe /O:"getX10TransceiverSetup" /T:"CM15A" /N:"House Lighting CM15A"

putX10TransceiverSetup

X10Manager.exe /O:<Operation> /T:<X10ControllerType> /N:<X10ControllerName> X10Manager.exe /O:"putX10TransceiverSetup" /T:"CM15A" /N:"House Lighting CM15A"

putTimersAndMacrosToX10Memory

Steps performed on specified Controller with Enabled Events in all Active Schedules:

- 1) Set Controller Time
- 2) Set new Sunrise and Sunset times in X10 database
- 3) compileTimersFromX10DbEventsPlaceInX10Db
- 4) Download Event Timer / Macro Initiators to Controller Memory
- 5) Compare Event Timers in X10 database to Timer / Macro Initiators in Controller Memory

 $X10 Manager. exe \ /O:<Operation>/T:<X10 Controller Type>/N:<X10 Controller Name>/F:<Filename>/F:<All Controller Name>/F:<All Controller Name>/F:<Al$

 $X10 Manager. exe \ /O: "put Timers And Macros To X10 Memory" \ /T: "CM15A" \ /N: "House Lighting CM15A" \ And Macros To X10 Memory" \ And Macros To X10 Memory \ And Macros To X10 Me$

 $/F: "putTimersAndMacrosToX10Memory_CM15A_HouseLightingCM15A.txt" \\$

sendUnitExtendedCommand

X10 Manager. exe / 0: "send Unit Extended Command" / T:< X10 Controller Type> / N:< X10 Controller Name> / H:< House Code> / M:< Module Code> / 1:< Dimmer> / 2:< On Off> / 3:< Standard Extended> / 4:< Extended Data> / 5:< Extended Command> / 1:< Dimmer> / 2:< On Off> / 3:< Standard Extended> / 4:< Extended Data> / 5:< Extended Command> / 1:< Dimmer> / 2:< On Off> / 3:< Standard Extended> / 4:< Extended Data> / 5:< Extended

X10Manager.exe /O:"sendUnitExtendedCommand" /T:"CM15A" /N:"House Lighting CM15A" /H:"J" /M:"9" /1:"N" /2:"Off" /3:"E" /4:"0" /5:"15"

sendMacroInitiatorTrigger

X10Manager.exe /O:<Operation> /T:<X10ControllerType> /N:<X10ControllerName> /H:<HouseCode> /M:<ModuleCode> /2:<OnOff> X10Manager.exe /O:" sendMacroInitiatorTrigger" /T:"CM15A" /N:"House Lighting CM15A" /H:"J" /M:"9" /2:"Off"

X10Manager (command line) - continued

CM15A Controller specific Operations – continued

setX10TimeClearBatteryTimers

X10Manager.exe /O:<Operation> /T:<X10ControllerType> /N:<X10ControllerName> X10Manager.exe /O:"setX10TimeClearBatteryTimers" /T:"CM15A" /N:"House Lighting CM15A"

setX10TimeClearMonitoredStatus

X10Manager.exe /O:<Operation> /T:<X10ControllerType> /N:<X10ControllerName> X10Manager.exe /O:"setX10TimeClearMonitoredStatus" /T:"CM15A" /N:"House Lighting CM15A"

setX10TimePurgeTimers

X10Manager.exe /O:<Operation> /T:<X10ControllerType> /N:<X10ControllerName> X10Manager.exe /O:"setX10TimePurgeTimers" /T:"CM15A" /N:"House Lighting CM15A"

X10Manager (command line) - continued

CP290 Controller specific Operations

compareX10TimersToX10Db

X10Manager.exe /O:<Operation> /T:<X10ControllerType> /N:<X10ControllerName> X10Manager.exe /O:"compareX10TimersToX10Db" /T:"CP290" /N:"House Lighting CP290"

downloadX10BaseHousecode

Caution: This operation will Clear all Timers from CP290 Controller.

A downloadEventsToActiveControllers -or- getX10DbTimersPutX10 operation will need to be performed.

X10Manager.exe /O:<Operation> /T:<X10ControllerType> /N:<X10ControllerName> /H:<HouseCode> X10Manager.exe /O:"downloadX10BaseHousecode" /T:"CP290" /N:"House Lighting CP290" /H:"J"

getX10DbTimersPutX10

Steps performed on specified Controller with Enabled Events in all Active Schedules:

- 1) Set Controller Time
- 2) Set new Sunrise and Sunset times in X10 database
- 3) compileTimersFromX10DbEventsPlaceInX10Db
- 4) Reset Controller Base House Code
- 5) Download Event Timers to Controller
- 6) Compare Event Timers in X10 database to Timers in Controller

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X10Manager (command line) - continued

Email Notifications

X10Manager (command line) can use a SMTP server to send Email Notifications when run-time errors occur.

To enable Email Notifications:

- 1) Using "Windows" "Accessories" "Notepad" open "C:\X10Manager\X10Manager.exe.config"
- 2) In the <appSettings> section, add an Email Address to <add key="MailErrorsTo" value="">

```
For example:
```

```
<add key="MailErrorsTo" value="trekkerphotoart@gmail.com" />
```

3) Modify the SMTP server host and logon credentials information in section

```
<system.net> - <mailSettings> - <smtp deliveryMethod="network">
```

defaultCredentials example:

```
<network host="127.0.0.1" port="25" defaultCredentials="true" />
```

username and password example:

```
<network host="127.0.0.1" port="25" userName="username" password="secret" defaultCredentials="false" />
```

- 4) Save the edited X10Manager.exe.config file
- 5) Exit the text editor

Credits

ParadoxReader.DLL (ParadoxReader) contains source code from "Code Project", "Paradox database native .NET reader" by Petr Bříza, March 17, 2011, v1.2.

Modifications have been added by Alan Wagner that allow ParadoxReader, as used in X10ManagerDesktop and X10Manager, to read X10 Lighthouse Scene BLOB data.

Original ParadoxReader source code is Licensed under: "The Code Project Open License (CPOL) 1.02"

Credits - continued

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