nanoleaf V1 Controller

Introduction

(http://indigodomo.com) that enables you to control nanoleaf devices from Indigo. It enables local LAN control of nanoleaf Devices without having to use an internet connection. The Version 1 series of the plugin is implemented using Indigo Dimmer Devices to control the

The Autolog nanoleaf Controller is a plugin for the Indigo (version 7+) home automation system

nanoleaf devices and fully supporting the new built-in RGBW controls in Indigo 7. In addition to the standard controls, the plugin provides a mechanism to discover nanoleaf devices and to set effects already defined on the nanoleaf device. The plugin makes extensive use of the code base (modified) of the nanoleaf library by Software-2 for

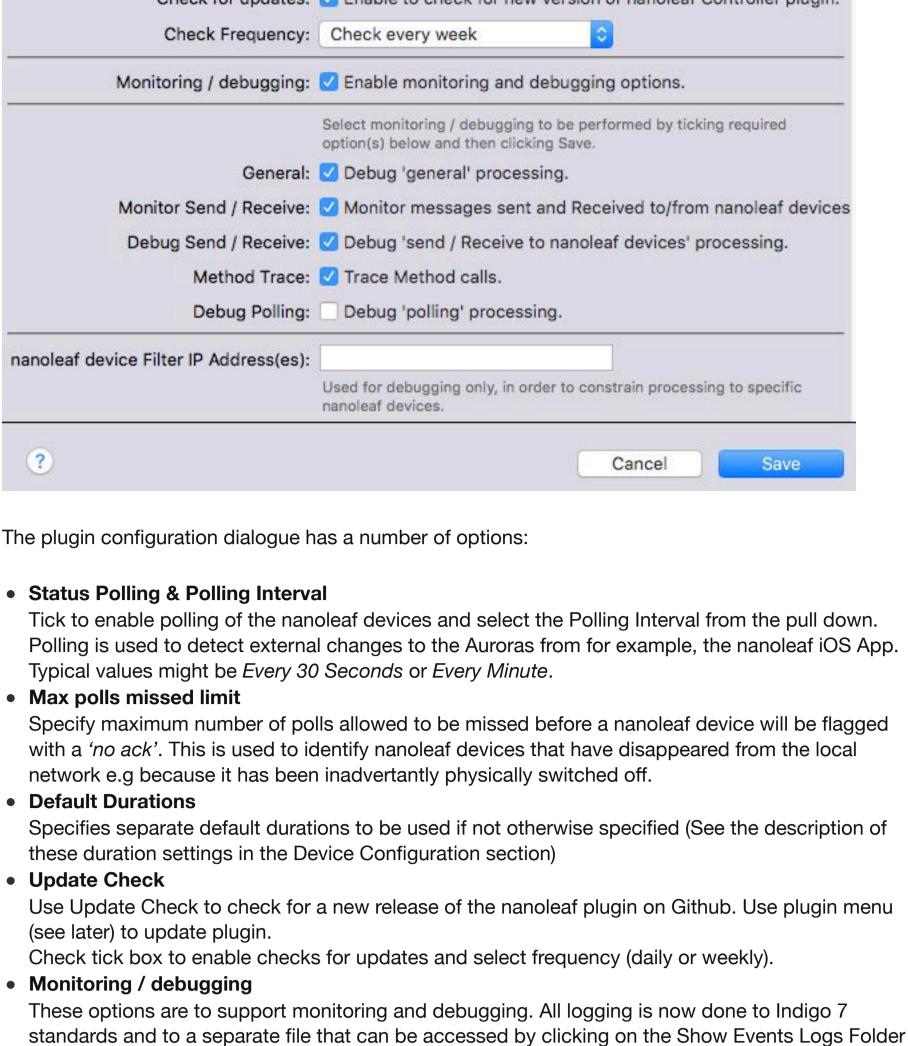
It is **strongly recommended** to read this documentation to familiarise yourself with the how the plugin works.

Installation

Download and install the plugin as normal for Indigo plugins.

When the plugin starts for the first time, the Configuration dialogue will be displayed. This dialogue is

device will be flagged with a 'no ack' Default timeout to use when discovering nanoleaf devices.



nanoleaf device while the filter is active, then this will cause an error warning message to be displayed in the Indigo Event log.

button in the Indigo Event Log window. The log file is plugin.log in the

Logging is not normally required but can be useful for fault finding and debugging.

Plugin Menu

About nanoleaf v1.0.0...

Check for Plugin Update

version available.

Device Configuration

The discovery period defaults to 30 seconds.

On starting the plugin for the first time, the plugin will:

Force Plugin

Disable Reload

Configure...

logs from the previous five days.

nanoleaf device Filter IP Address(es)

Update Plugin Force Plugin Update The plugin menu, in addition to the standard items, has additional items for update checking:

com.autologplugin.indigoplugin.nanoleafcontroller folder. This folder also contains date stamped

Used to filter the processing to one or more nanoleaf devices (mainly for testing and debugging purposes). If a nanoleaf device's IP address is specified, any messages sent to or received from

other devices not in the list will be ignored. If you send a command (e.g. Turn On) to another

 Check for Plugin Update Select this item to perform an immediate check for a plugin update Update Plugin

Select this item to perform a plugin update. The update will only proceed if there is a newer

there isn't a newer one available or update to a newer one if there is.

Start discovery to detect nanoleaf devices on the local network.

Create New Device

0 0

?

Select this item to force a plugin update. The update will effectively refresh the current version if

All nanoleaf devices on the local network are discovered automatically by the plugin when it starts up.

Nanoleaf Device ✓ - Select nanoleaf device -

Authorise

192.168.1.90

Configure nanoleaf Device

The IP address of the nanoleaf to be authorised.

Cancel

Save

Once the plugin has discovered nanoleaf devices, this is reported in the Indigo log. To create a new nanoleaf device, perform the standard New... device option form the Indigo UI.

Type:

Model:

?

Address: undefined

Name: Nanoleaf One Address: IP Address: Notes: Authorise nanoleaf: Auth Token: To fully configu

✓ Enable Indigo communication

nanoleaf

nanoleaf Device

The configuration options are: Nanoleaf Device

Authorise nanoleaf: Authorise Auth Token: ? Cancel Save Address This looks like a MAC Address but is in fact a random identifier generated by the nanoleaf device that will change only when the Aurora is reset. The the only time it changes is when authorization information is erased (reset), which implies a user must set things up again. If this happens you will have to add a new Indigo device. **IP Address** This is the IP Address of the nanoleaf device on your network. **Authorise** For the plugin to be able to control the nanoleaf device, it has to be authorised. You do this by pressing and holding the power button on the nanoleaf device for 5-7 seconds until the indicator light on the nanoleaf device starts flashing. If you don't do this you will get an error: Configure nanoleaf Device Na Access Forbidden to nanoleaf device! Press and hold the power button for 5-7 seconds first! (Light will begin flashing) OK

IP Address: 192.168.1.90 ^ The IP address of the nanoleaf to be authorised. Authorise nanoleaf: Authorise Auth Token: zsJ1WE2cr1emBdVGMdg9UIZdTvM5sOTr

?

nanoleaf device.

Usage

Start Up

follows:

State

with the nanoleaf device.

Device Name

User specified.

User specified.

Address

Notes

Folder

Model

o NL22

Protocol

nanoleaf:)

Address:

<PSEUDO MAC ADDRESS>

The UI Status of nanoleaf devices will initially be shown as 'No Ack' (No Acknowledgement). Once a status update has been received, the standard light on or light off symbols will be shown as appropriate. **Indigo UI Home Window Device Info**

The discovered nanoleaf devices reside in whatever folder was used when the device was created

within the Indigo Home Window (that lists device). The relevant Device info listed in the Window is as

Shows nanoleaf device state, normally an on or off icon and dimming state from 0 to 100. Can

also be a red dot with 'No Ack' (No Acknowledgement) indicating communication has been lost

Cancel

You should see the unique genearted *Auth Token* which the plugin will use when communicating

with the nanoleaf device. Now press Save to let the plugin complete the setup of the Indigo

When Indigo is restarted or the pluguin is reloaded, the plugin will run a Discovery of nanoleaf

devices on the local network (as previously noted in the section above).

The name of the specified by you when the device was created.

The random identifier address of the physical nanoleaf device.

Save

used to control the nanoleaf(s): Nanoleaf One (NL22) Color Controls **Device Details** On State on (ii) Turn Off Turn On (U) 97 Brightness 97 RGB,W 84 29 96, 97 6500 K Last Update 2017-06-12 16:37:18 and the second

This is the nanoleaf device model retrieved from the physical device by the plugin:

Light/Appliance Controls: All Off

- Use this action to select an availbale effect already defined on the physical nanaol eaf device. When you run the action the effect will be run on the nanoleaf device.

from the main UI to add a new device. **Set Effect (Action)**

The Plugin provides two additional actions under 'nanoleaf Actions':

Temp

* Set Effect * Discover nanoleaf Devices **Discover nanoleaf Devices (Action)**

Action.

nanoleaf Actions

States The plugin provides the following states:

Scripting example to follow

To Be Advised

Scripting

The nanoleaf plugin's ID is 'com.autologplugin.indigoplugin.nanoleafcontroller'.

the adjacent field. This will also be adjusted according to the above table The nanoleaf devices can be controlled using the built-in standard Indigo Device Actions > All Lights On All Lights Off Turn On Turn Off Toggle On/Off Set Brightness Brighten by % • Dim by % Match Brightness Set RGBW Levels Note: Pending a further required Indigo update (to be available post version 7.0.3) to resolve an issue with how the plugin can understand the user input, it is not possible to set the color via an

Running this action will cause the plugin to try and discover nanoleaf devices on the local network. Once new nanoleaf devices are found, You can use the *NEW...* command

- nanoleaf device and put the device into hs (hue/saturation) mode. W required in the adjacent field. **Device Actions**
- Brightness Level The field next to the *Turn On* button contains the overall nanoleaf *brightness level* RGB
- Will turn off the nanoleaf device Turn ON Will turn on the nanoleaf device
- The various built-in controls are described below: Turn Off The color swatch represents the current colour of the nanoleaf device. Clicking on the color swatch launches the Color Picker. You can choose different color modes e.g. RGB Sliders, HSB Sliders etc. The plugin handles the translation of the nanoleaf color model (HSBK) to and from the Indigo color model (RGBW). Whilst there is for the most part a vey good correlation between the two models, there can at times be slight deviations. Adjusting the sliders will alter the color of the W represents White Level and adjusting this alters the brightness of the nanoleaf device and puts the nanoleaf device into ct (color temperature) mode. You can also directly enter the White level This is the *White Temperature (kelvin)* of the nanoleaf device and puts the nanoleaf device into *ct* (color temperature) mode. You can also directly enter the White Temperature (Kelvin) required in
- **Firmware** Shows the nanoleaf firmware version. **Built-In Indigo Controls** The plugin is implemented as an Indigo Dimmer Device, so the built-in Indigo controls can be be **Custom States** authToken = zsJ1WE2cr1emBdVGMdg9UIZdTvM5sOTr brightness = 97 colorMode = hs colorTemperature = 6500 connected = true effect = *Solid* hue = 289 ipAddress = 192.168.1.90 manufacturer = Nanoleaf name = Nanoleaf Aurora nanoleafOnOffState = on nanoleafOnState = true saturation = 70 serialNo = \$17192A0072

Select an available nanoleaf device that has been previously discovered by the plugin. If there are no nanoleaf devices available to assign to the new Indigo device, then the list will show the message - No available nanoleaf devices discovered -Once you have selected a nanoleaf device from the list, the configuration dialogue will show: Configure nanoleaf Device ٥ Nanoleaf Device: 192,168,1,90 Select nanoleaf device to assign to this Indigo device. <PSEUDO MAC ADDRESS> Address: IP Address: 192.168.1.90 ^ The IP address of the nanoleaf to be authorised. Authorise nanoleaf: Authorise Auth Token: ? Cancel Save As soon as the indicator light on the nanoleaf device starts flashing, you can let go of the power button (the light will stop flashing) and you can then press the Authorise button. Assuming the authorisation works, then the dialogue will show the following. Configure nanoleaf Device Nanoleaf Device: 192.168.1.90 Select nanoleaf device to assign to this Indigo device.

- **Prerequisites** This version of the nanoleaf Plugin controls nanoleaf Aurora devices running at least version 1.5.0 of the firmware. You may need to do a firmware update when you first get your nanoleaf Aurora device. This Plugin needs some nanoleaf Auroras to control! Configure nanoleaf This Plugin controls nanoleaf devices. Status polling: Enable polling of all nanoleaf devices. Polling Interval: Every 5 minutes Max polls missed limit?: 1 Discovery Timeout: 10 Specify discovery timeout in seconds e.g 10
- Copyright @ 2017 Autolog Use status polling to update the state of the nanonleaf device(s) periodically. Specify maximum number of polls allowed to be missed before a nanoleaf Use Update Check to check for a new release of the nanoleaf Controller plugin on Github. Use plugin menu to update plugin. Check for updates: Enable to check for new version of nanoleaf Controller plugin.