nanoleaf V1 Controller

Introduction

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

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.

which much thanks are due:) - see (https://github.com/software-2/nanoleaf)

Installation

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.

Prerequisites

The latest version of the plugin has been developed and tested on OS X El Capitan (10.11.6) and also tested on macOS Sierra (10.12.6).

Installation

Download and install the plugin as normal for Indigo plugins. **Plugin Configuration**

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

Configure nanoleaf

This Plugin controls nanoleaf devices.

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Max polls missed limit?: 1

Default timeout to use when discovering nanoleaf devices.

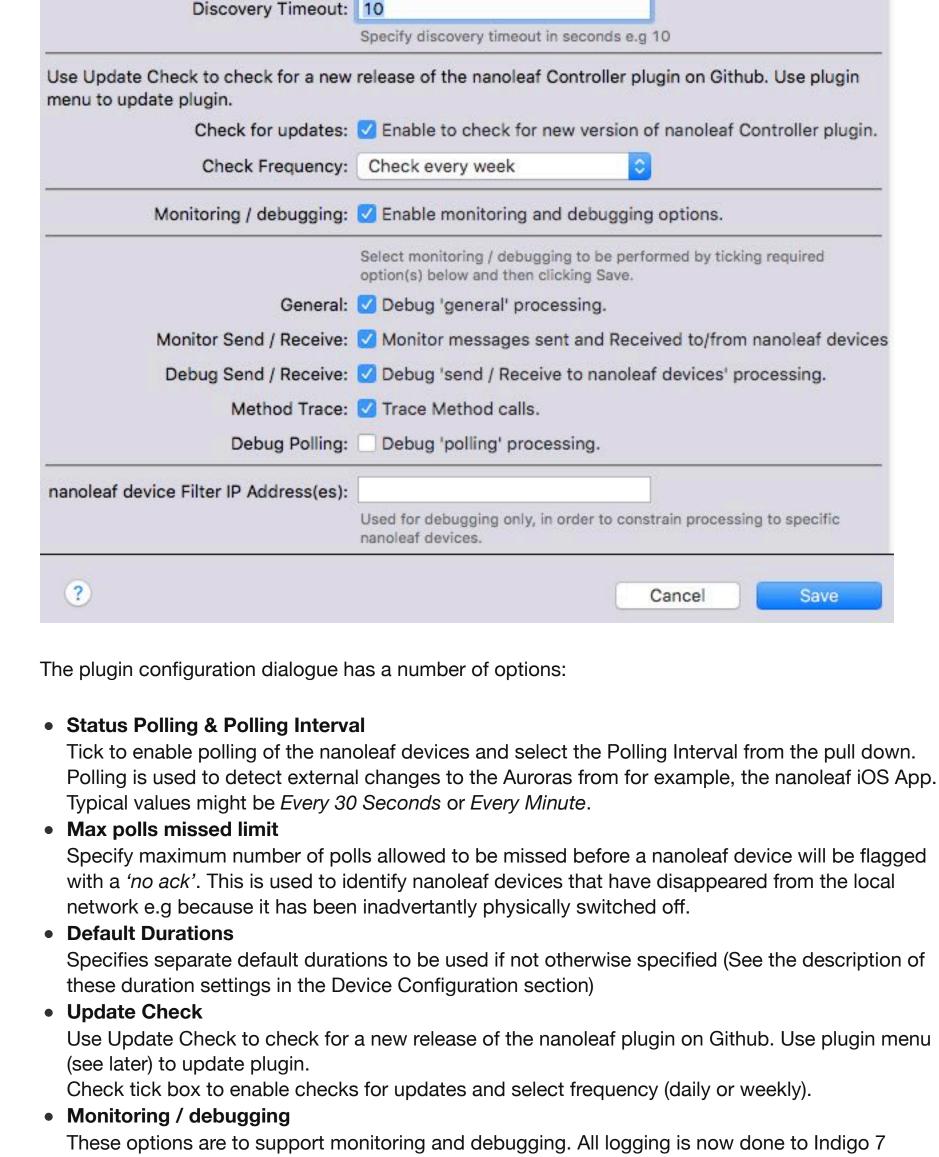
also available via the main Indigo menu *Plugins > nanoleaf > Configure...*

This Plugin needs some nanoleaf Auroras to control!

Use status polling to update the state of the nanonleaf device(s) periodically. Status polling: Enable polling of all nanoleaf devices. Polling Interval: Every 5 minutes

device will be flagged with a 'no ack'

Specify maximum number of polls allowed to be missed before a nanoleaf



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

logs from the previous five days.

nanoleaf device Filter IP Address(es)

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

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

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.

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

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

standards and to a separate file that can be accessed by clicking on the Show Events Logs Folder

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

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

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

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.

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. Create New Device

Nanoleaf Device ✓ - Select nanoleaf device -

Authorise

Address:

IP Address:

Auth Token:

Authorise nanoleaf:

192.168.1.90

Configure nanoleaf Device

The IP address of the nanoleaf to be authorised.

Cancel

٥

Save

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

Type:

Name:

Notes:

Address: undefined

nanoleaf

Model: nanoleaf Device

Nanoleaf One

The configuration options are:

Nanoleaf Device:

Address:

IP Address: 192.168.1.90

Nanoleaf Device

0 0

To fully configu

Disable Reload

Configure...

About nanoleaf v1.0.0...

Check for Plugin Update

Check for Plugin Update

Device Configuration

The discovery period defaults to 30 seconds.

Update Plugin

Force Plugin

version available.

? ✓ Enable Indigo communication

message - No available nanoleaf devices discovered -

192,168,1,90

<PSEUDO MAC ADDRESS>

?

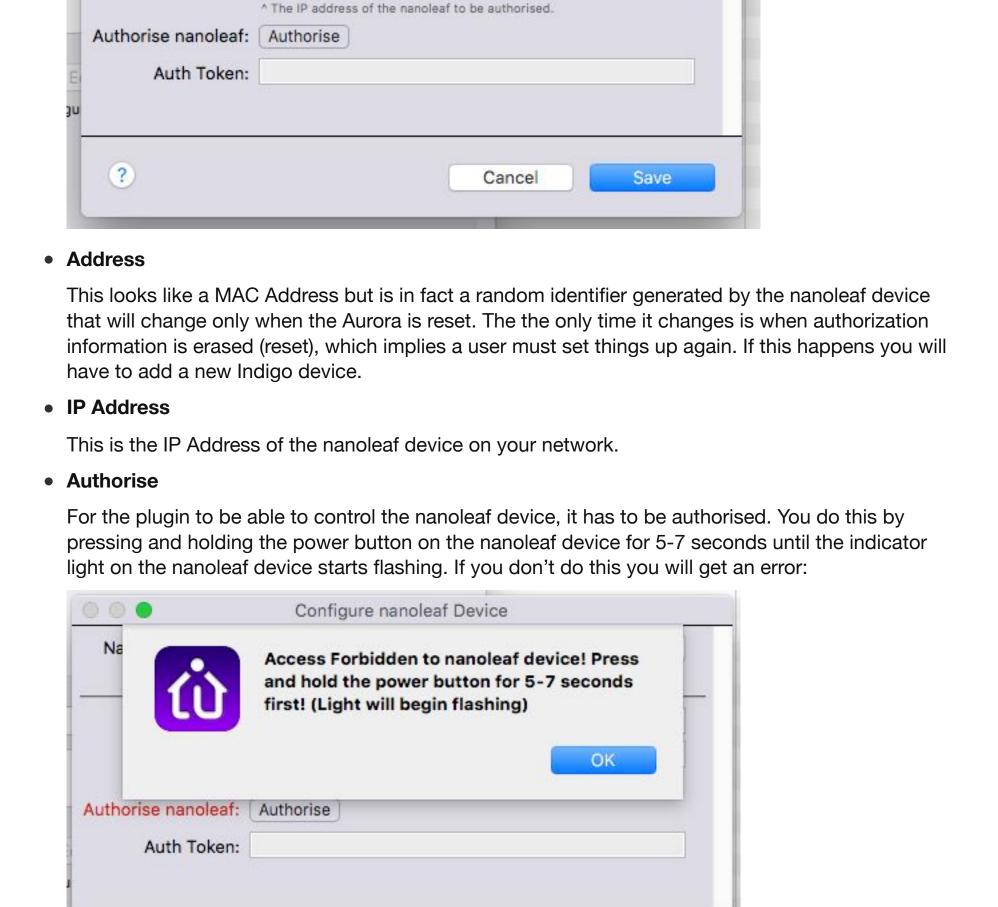
Select an available nanoleaf device that has been previously discovered by the plugin. If there are

no nanoleaf devices available to assign to the new Indigo device, then the list will show the

Once you have selected a nanoleaf device from the list, the configuration dialogue will show:

Select nanoleaf device to assign to this Indigo device.

Configure nanoleaf Device



Cancel

Configure nanoleaf Device

^ The IP address of the nanoleaf to be authorised.

<PSEUDO MAC ADDRESS>

Auth Token: zsJ1WE2cr1emBdVGMdg9UIZdTvM5sOTr

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.

Indigo UI Home Window Device Info

Select nanoleaf device to assign to this Indigo device.

192.168.1.90

Save

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.

Nanoleaf Device:

Address:

Authorise nanoleaf: Authorise

IP Address: 192.168.1.90

?

?

Usage

Start Up

appropriate.

follows:

State

with the nanoleaf device.

Device Name

Address

brightness = 97 colorMode = hs

connected = true effect = *Solid* hue = 289

saturation = 70

Turn Off

Turn ON

RGB

W

Temp

Brighten by %

Match Brightness

Set RGBW Levels

• Dim by %

Action.

colorTemperature = 6500

ipAddress = 192.168.1.90 manufacturer = Nanoleaf name = Nanoleaf Aurora nanoleafOnOffState = on nanoleafOnState = true

serialNo = S17192A0072

Brightness Level

The various built-in controls are described below:

Will turn off the nanoleaf device

Will turn on the nanoleaf device

required in the adjacent field.

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 nanoleaf device.

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

status update has been received, the standard light on or light off symbols will be shown as

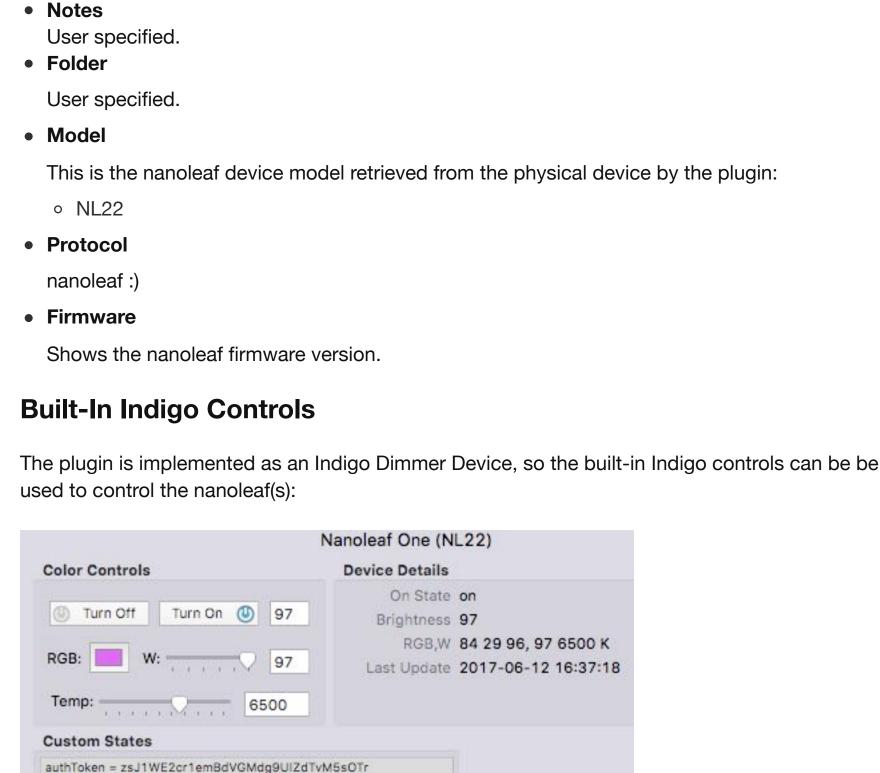
The UI Status of nanoleaf devices will initially be shown as 'No Ack' (No Acknowledgement). Once a

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



(color temperature) mode. You can also directly enter the White Temperature (Kelvin) required in the adjacent field. This will also be adjusted according to the above table **Device Actions**

The field next to the *Turn On* button contains the overall nanoleaf *brightness level*

nanoleaf device and put the device into hs (hue/saturation) mode.

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*

Note that communication must have been successfully made to the nanoleaf device for t he dynmaic effect list to be built for selection in the action. **States**

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

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f device. When you run the action the effect will be run on the nanoleaf device. Edit Action Group "Nanoleaf Effect - Northern Lights" Name: Nanoleaf Effect - Northern Lights

Device: Nanoleaf One

Notes:

To Be Advised

Scripting

The plugin provides the following states:

Edit Action Settings...

set effect

Set Effect (nanoleaf Actions)

The nanoleaf devices can be controlled using the built-in standard Indigo Device Actions > Light/Appliance Controls: All Off All Lights On All Lights Off • Turn On Turn Off Toggle On/Off Set Brightness

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

Select nanoleaf effect -

Cancel

Save

Color Burst

Inner Peace

Flames Forest

Nemo Effect Name ✓ Northern Lights

Romantic

Snowfall

nanoleaf Actions The Plugin provides two additional actions under 'nanoleaf Actions': * Set Effect * Discover nanoleaf Devices **Discover nanoleaf Devices (Action)** 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 from the main UI to add a new device. **Set Effect (Action)** Use this action to select an availbale effect already defined on the physical nanolea

Scripting example to follow