Hubitat Installation Instructions							
	I installation from the GitHub Site. A pdf copy of these instructions						
Note	are contained at the GitHub location: "https://github.com/DaveGut/Hubitat-TP-Link-Integration"						
1			ironment (HE) and go				
2	<del> </del>		the upper right-hand				
3				en the application, and copy all of the code.			
4		• •	e app window on HE.	· · · · · · · · · · · · · · · · · · ·			
5			Code" on HE.				
6		Go to the DeviceDrivers folder on GitHub. Reference the list below for the drivers you will need to install. For each of those drivers, complete the following steps.					
7	Select "Ne	w Driver" i	n the upper right-han	d corner			
8	Open the I	relevant dri	ver on the GitHub fol	der and copy all of the code.			
9	Paste the	code into th	ne window on HE. Se	elect Save.			
10	When don	When done installing the required drivers, go the the HE "Apps" page.					
11	"Select Ad	"Select Add User App" and select the app "TP-Link Integration" from the list.					
Note	The app will take about 3 minutes to load. Because of the discovery method, it is HE resource intensive. The resources will fully recover after about 5 minutes; however, during that time, HE performance may be impacted.						
Note	The discovery method is rather arcane and during discover, you will see a lot of "Error occurred with UDP message: SocketTimeoutException: Receive timed out". This is normal and only occurs during the start-up of the application.						
12	On the TP-Link/Kasa Device Manager page, select "Install Kasa Devices".						
13	Select the devices to install and select DONE.						
Note	If you sele	ct no devic	es, exit the application	on using the "App List". Otherwise you will get an error.			
REC	RECOMMEND that you assign a STATIC IP address in your router for your TP Link Devices. See note "Updating IP Addresses" for more information.						
			Hubitat Driv	ver File Nomenclature			
TP	-Link Mode	el	Command Group	Driver File			
HS-100	HS-103	HS-105	1	TP-LinkPlug-Switch(Hubitat).groovy			
HS-200	HS-210	KP-100		, , , , , , , , , , , , , , , , , , ,			
HS-107	KP-200	KP-400	1	TP-LinkMulti-Plug(Hubitat).groovy			
HS-220			2	TP-LinkDimmingSwitch(Hubitat).groovy			
HS-300			3	TP-LinkEM-Multi-Plug(Hubitat).groovy			
HS-110	HS-115		3	TP-LinkEM-Plug(Hubitat).groovy			
KB-100	LB-100	LB-110	4	TP-LinkWhiteBulb(Hubitat).groovy			
KL-110	LB-200			, , , , , , , , , , , , , , , , , , ,			
LB-120	KL-120		5	TP-LinkCTBulb(Hubitat).groovy			
KB-130	LB-130	KL-130	6	TP-LinkColorBulb(Hubitat).groovy			
LB-230							

IP Address Update						
Note	Routers will occasionally change IP addresses; particularly when they reboot. When this occurs, the device will not be controllable through HE without first running the TP-Link Integration application. To preclude this, it is <u>strongly recommended</u> that the TP-Link devices be assigned <b>static IP addresses</b> in your router. To update the addresses if you do not do this, do the following procedures.					
1	Go to the HE Apps page.					
	Select and run TP-Link Integration					
	After the discovery completes, select "DONE". This will update the addresses.					

Commands						
Commands	Input	Note				
On/Off		Groups: All.				

Refresh		Groups: All.
Set Level	Level (percent)	Groups: 2, 4, 5, 6.
Start Level Change	up / down	Groups 4, 5, 6. Change level by 2% every 1/2 second.
Stop Level Change	'	Groups 4, 5, 6.
Set Circadian		Groups 5, 6. Starts bulb-internal Circadian Program which sets the Color Temperature to match natural daylight (sort of).
Set Color Temperature	Color Temp	Groups 5, 6. Sets the color temperature. Group 5 range: (2700 to 6500) Group 6 range: (2500 to 9000)
Set Color	hue, saturation, level (percent)	Group 6.
Set Hue	hue (percent)	Group 6. Changes hue while maintaining current level and saturation
Set Saturation	saturation (percent)	Group 6. Changes saturation will maintaining current level and hue
Commands		
		Attributes
Attribute	Value	Note
switch	on/off/OFFLINE	Groups: All. OFFLINE, if persistent, indicates a device or device IP problem that should be resolved.
level	percent	Groups 2, 4, 5, 6
circadian State	normal / circadian	Groups 5, 6
colorTemperature	Range of command	Group 5, 6
color	hue, saturation, level	Group 6
colorMode	CT / RGB	Group 6.
colorName		Group 6. Programmed color or color temperature name.
power	Watts	Group 3.
energy	Kilo-watt Hours	Group 3. Energy used today.
currMonthTotal	Kilo-watt Hours	Group 3. Total as of end of previous day.
currMonthAvg	Kilo-watt Hours	Group 3. Total divided by days in month minus 1
LastMonthTotal	Kilo-watt Hours	Group 3. Last month total hours.
LastMonthAvg	Kilo-watt Hours	Group 3. Last month total/days. Will be low for incomplete months.
		Preferences
Device IP (0	Current = )	Groups: all. Appears only during a manual installation.
Number of the plug	(00, 01, 02, etc.)	All multi-plugs. Note that the numbering starts at 00 (from device data). In the Kasa App, the number starts at 1
Device Ref	resh Rate	Groups: all. The basic refresh rate for the device. Default is 30 minutes.
Default Transition	time (seconds)	Groups 4, 5, 6. Period of time for a bulb to fade on or off.
High Resolution	on Hue Scale	Group 6. Used to define if a controlling application uses high resolution hue, vice the bulb low resolution.
Enable deb	ug logging	Groups: all. Turns on a detailed level of logging. Default is false.
Enable descripti		Groups: all. Turns on a description test logging. Default is true.
Synchroniz	re Names	Groups: all. Enables updating naming between the Kasa App and Hubitat when preferences are saved. Default is "Don't Synchronize". Options: Kasa (device) alias master: The Hubitat label (name) will be changed. Hubitat label master: The Kasa alias (name) will be changed.
short	Poll	Plug-switch and EM plug only. Not recommended. Sets 5 second polling as follows:  a. for the standard plug-switch: polls on-off state to capture some turning on/off switch.  b. for the EM plug: polls power level to determine (for example) if a dryer cycle has finished.

Enable energy monitoring features

EM Plug and EM Multi-Plug only. Default is false. Enable the collection of energy statistics for the device.