	Hubitat Installation Instructions						
Note	These instructions are based on a manual installation from the GitHub Site. A pdf copy of these instructions are contained at the GitHub location: "https://github.com/DaveGut/Hubitat-TP-Link-Integration"						
Important	You must first install the device using the TP-Link Kasa Application. That is the only way to connect the device to the local LAN.						
	Load the Application and Data Files onto your Hubitat System.						
1	Hubitat Package Manager: * Search By Keyword: "Kasa". * Package: Kasa Device Integration (the other package is deprecated and available for updates)						
	b. Go to GitHub Site and manually download files (see below) Link: https://github.com/DaveGut/HubitatActive/tree/master/KasaDevices						
	* Integration Application: https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/Application/KasaIntegrationAppl.groovy						
	* Plug Switch Driver: https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/Plug-Switch.groovy						
	* Energy Monitor Plug Driver: https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/EM-Plug.groovy						
	* Dimming Switch Driver: https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/DimmingSwitch. groovy						
	* Multi Plug Driver: https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/Multi- Plug.groovy						
	* Energy Monitor Multi Plug Driver: https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/EM-Multi- Plug.groovy						
	* Color Bulb Driver: https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/ColorBulb.groov y						
	* Color Temperature Bulb Driver: https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/CTBulb.groovy						
	* Mono Bulb Driver: https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/DeviceDrivers/WhiteBulb.groovy						

Hubitat Driver File Nomenclature						
TP-Link Model Examples			Command Group	Driver File		
HS-100	HS-103	HS-105	1	TP-LinkPlug-Switch(Hubitat).groovy		
HS-200	HS-210	KP-100	'	TF-EllikFlug-Switch(Hubitat).groovy		
HS-107	KP-400	KP-200	1	TP-LinkMulti-Plug(Hubitat).groovy		
HS-220			2	TP-LinkDimmingSwitch(Hubitat).groovy		
HS-110	KP-115		3	TP-LinkEM-Plug(Hubitat).groovy		
HS-300			3	TP-LinkEM-Multi-Plug(Hubitat).groovy		
KB-100	LB-100	LB-110	4	TP-LinkWhiteBulb(Hubitat).groovy		
KL-110	LB-200	KL-50	4	TF-EllikvviliteBuib(Hubitat).groovy		
LB-120	KL-120		5	TP-LinkCTBulb(Hubitat).groovy		
KB-130	LB-130	KL-130		TP-LinkColorBulb(Hubitat).groovy		
LB-230			6	TF-EITINGOIOI BUID(HUDILAL).GIOOVY		
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"Select Add User App" and select the app "Kasa Integration" from the list.

- a. Use Alternate Lan segments. This is for when your LAN is set up where the Hubitat is on one LAN segment and the devices on another. NOT NORMALLY USED.
- b. Interface to Kasa Cloud. DO NOT USE unless you want to use the slower, less private Kasa Cloud communications. This is for some users who have updated Kasa firmware that eliminated the LAN communications capability.

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- c. Install Kasa Devices / Update Kasa Devices. Normal selection.
 - * The next page will take several seconds to load while the search is completed.
 - * The search process can miss devices. If some are missing, try again.
 - * Note the Note on drivers to insure are installed. If you do not have a driver, the install fails.
 - * In the drop-down, select the devices to install, then select "Next"
 - * After selecting Next, the devices will be installed and the app will return to the main page.
 - * CRITICAL: Select DONE on the main page or the installation will be messed up.
- d. Go to the Hubitat Device's page and check that each device installed and is working per your expectations.

Command Reference

With reference to the device table above and the column Command Group, the functionality of each device described

Commands	Input	Note
On/Off		Groups: All.
setPollInterval	5 s to 30 min	Groups: All. Polling gets current system status, including energy monitor data (if available)
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		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
Secrite	nao (porcont)	

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
commsError	true/false	All groups. If true, there is a communicactions error active.
communications LAN / CLOUD		All Groups. If not present, will cause comms to fail.
circadian State normal / circadian		Groups 5, 6
colorTemperature	Range of command	Group 5, 6
color hue, saturation, leve		Group 6
colorMode	CT / RGB	Group 6.
colorName		Group 6. Programmed color or color temperature name.
power	Watts	Group 3, 4 ,5, 6.
energy	Kilo-watt Hours	Group 3, 4 ,5, 6. Energy used today.
currMonthTotal	Kilo-watt Hours	Group 3, 4 ,5, 6. Total as of end of previous day.
currMonthAvg	Kilo-watt Hours	Group 3, 4 ,5, 6. Total divided by days in month minus 1
LastMonthTotal	Kilo-watt Hours	Group 3, 4 ,5, 6 Last month total hours.
LastMonthAvg	Kilo-watt Hours	Group 3, 4 ,5, 6. Last month total/days. Will be low for incomplete months.
		Preferences
Enable Ener	gy Monitor	Groups 3, 4, 5, 6. If true (blue) the energy monitor functions are active. Default is false (white)
30 minutes of o	debug logging	Groups: all. 30 timed minutes of debug logging.
Enable Informa	ation Logging	Groups: all. Enable information text logging.
Default Transition	time (seconds)	Groups 4, 5, 6. Period of time for a bulb to fade on or off.
High Resolutio	on Hue Scale	Group 6. Used to define if a controlling application uses high resolution hue, vice the bulb low resolution.
Kasa Cloud	d Binding	Groups: All. If LAN connected, allows you to disconnect your device from the Kasa Cloud. To connect your device to the Kasa Cloud requires that "Interface to Kasa Cloud" is selected in the APP. You can also connect a disconnected device using the Kasa phone app.
Use Kasa cloud fo	or device control	Groups: All. Only appears if Kasa Cloud Binding is true (blue). If true, changes communications to use the Kasa Cloud.
Led St	tatus	Groups: 1,2,3. Allows changing the devices Led display to on or off.
Reboot I	Device	Groups: All. Reboots the device. For multiplugs it reboots the entire power strip.