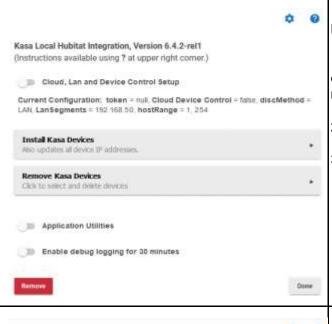
	•	Other Reference Location Links	
Installation Instructions		https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/install.pdf	
Update	Instructions	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/update.pdf	
Applicatio	n Description	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/appDesc.pdf	
Device	e Capabilities	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/cmdsAttrs.pdf	
	Preferences	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/prefs.pdf	
Troublesh	ooting Guide	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/trouble.pdf	
		Installation Instructions	
Caution	For the HS300 6-outlet multi-plug, the Kasa names for ALL of the outlets must not exceed 96 characters (about 16 characters per outlet). This is due to Hubitat comms limitation of a single return packet from the device. This limitation does not exist if you choose a cloud implementation.		
1	Install the device per the manufacturer's instructions using the Kasa Phone Application. After installing, verify the device works (simple on-off) using the Phone App.		
2	(Optional) Using your router, assign static IP addresses for your devices.		
3	Load the Application and Driver files a. HPM: Search by Keyword for Kasa ", Package is " Kasa Device Integration ". b. Manual: From GitHub site: https://github.com/DaveGut/HubitatActive/tree/master/KasaDevices c. Direct link using the Apps Code and Drivers Code edit page "Import" function using the links at the bottom of this page. During the Hubitat application running (below), you will be given a list of required drivers for your device(s). If you do not have the correct driver, the device will not be created.		
4	In Hubita App	s, select "Add User App". Select "Kasa Integration".	

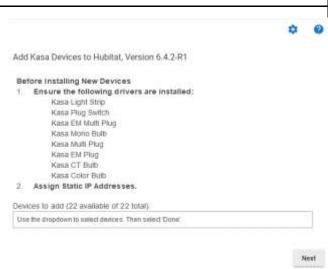
Notes on running the Application:

- a. Most users will not have to use functions other than Install Kasa Devices and Remove Kasa Devices. Exception is users with complex LAN topologies or (in rare cases) where a device is not LAN controllable. The LAN controllable device problem is handled in the troubleshooting section.
- b. Below describes the intended default installation using LAN for all communications.



Kasa Local Hubitat Integration Page

- 1. Open a log window in your browser. There should be no error log events (color code red) during the installation. If you encounter and can not install, contact the developer.
- 2. Select "Install Kasa Devices".
- 3. After several minutes the next page will appear.



Add Kasa Devices Page

- 1. Verify that the exact drivers from the list are installed into Hubitat.
- 2. Select your device(s) from the drop down menu.
- 3. Select Next.

Issue: All devices not found. Corrective Attempt: Press Next and then try the "Install Kasa Devices" again.

Issue: Devices still do not show up. You may have a non-LAN device. Corrective Attempt:

- a. Press "Next"
- b. Select "Cloud, Lan, and Device Control Setup"
- c. Select "Kasa Login and Token Update" and enter credentials. (More info on these pages at the Application Description link.)

Go to each device and assure you can properly control the device (simple on/off command). Issues on device control: See link to Troubleshooting.

File Location Links	
Kasa Integration App	https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/Application/KasaIntegrationApp_groovy
	https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/Plug-Switch.groovy
Single Plug with Energy Monitor (EM)	https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/EM-Plug.groovy
Dimming Switch	https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/DimmingSwitch.groovy
I MILLION WILLIAM EN	https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/Multi- Plug.groovy
I WILLIA WILL FIVE	https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/EM-Multi- Plug.groovy
Color Bulb	https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/ColorBulb.groov
Color Temperature Bulb	https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/CTBulb.groovy
Mono Bulb	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/DeviceDrivers/WhiteBulb.groovy
Light Strip	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/DeviceDrivers/LightStrip.groovy

	asa iiileg	gration installation, Reference, and Troubleshooting	
		Other Reference Location Links	
Installation Instructions		https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/install.pdf	
Update Instructions		https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/update.pdf	
Application Description		https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/appDesc.pdf	
Device	e Capabilities	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/cmdsAttrs.pdf	
Device	Preferences	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/prefs.pdf	
Troublesh	ooting Guide	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/trouble.pdf	
		App and Driver Update Instructions	
Caution	The same ma	jor version for the App and Driver code is required to guarantee proper operation.	
Note	If your integration is working acceptably, strongly consider NOT upgrading. If you are having problems, upgrade and try again before going to troubleshooting.		
Update the	Code		
1	Hubitat Pack	age Manager: Update the package through HPM when prompted.	
2	Manual Application update a. Open the App Code. b. Copy the link on the definition line "importUrl"		
3	c. Save the cl d. When com addresses and	Oriver Code. ort and paste the link into that line. Select Import .	
Run the Ap			
1		stallation is complete, open the app and run reset the device database. This will cause the device to esses and run the Updated method in each driver.	
		File Location Links	
	1		
Kasa Inte	gration App	https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/Application/KasaIntegrationApp_groovy	
EM		https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/Plug- Switch.groovy	
Single Plug with Energy Monitor (EM)		https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/EM-Plug.groovy	
Dimming Switch		https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/DimmingSwitch.groovy	
Multi Plug without EM		https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/Multi- Plug.groovy	
Multi Plug with EM		https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/EM-Multi-Plug.groovy	
Color Bulb		https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/ColorBulb.groov Y	
Color Temperature Bulb		https://raw.githubusercontent.com/DaveGut/HubitatActive/master/KasaDevices/DeviceDrivers/CTBulb.groovy	
Mono Bulb		https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/DeviceDrivers/WhiteBulb.groovy	
Light Strip		https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/DeviceDrivers/LightStrip.groovy	

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Update Instructions	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/update.pdf
Application Description	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/appDesc.pdf
Device Capabilities	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/cmdsAttrs.pdf
Device Preferences	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/prefs.pdf
Troubleshooting Guide	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/trouble.pdf

Application Description

Kasa Local Hubitat Integration

Cloud, Lan, and Device Control Settings

Kasa Local Hubitat Integration, Version 6.4.2-rel1
(Instructions available using ? at upper right corner.)

Cloud, Lan and Device Control Setup

Current Configuration: token = null, Cloud Device Control = false, disc Method = LAN, Lan Segments = 192.168.50, hostRange = 1, 254

Install Kasa Devices
Also updates all device IP addresses.

Remove Kasa Devices
Click to select and delete devices

Application Utilities

Enable debug logging for 30 minutes

Description

This is the initial page when the application is started

Goes to the Application Details Page

Application Documentation Link

Cloud, Lan, and Device Control Setup (discussed later)

Current Configuration. The current application configuration settings, as set by the above.

Install Kasa Devices. When selected will search for Kasa devices and provide a list of discovered devices for installation selection. The default Configuration will work if your Hubitat Hub and devices are on the same LAN segment. This is normal for unless you have explicitly set up segments.

Remove Kasa Devices. List of devices for removal.

Application Utilities. Some user utilities.

Remove. Removes the application and all installed devs.

Done. Done with Application.

Enable debug logging fo 30 minutes

Cloud, Lan and Device Control Setup Current Configuration: token = null, Cloud Device Control = false, discMethod = LAN, LanSegments = 192.168.50, hostRange = 1, 254 Kasa Login and Token Update Click to enter credentials and get token After running Kasa Login and Token Update, refresh this page. Interface to Kasa Cloud for device control. Select from Discovery Options (LAN, CLOUB, BOTH) LAN Local with only. Lan Segments (ex. 192.168.50, 192,168.01) 192.168.50 Host Address Range (ex. 5, 100)

Remove

Description

Kasa Login and Token Update. For LAN control, you will need to provide your Kasa App credentials.

Note: Refresh browser when done to see token.

Interface to Kasa Cloud for device control. This option requires that you have created a Kasa Token (see Kasa Login and Token Update).

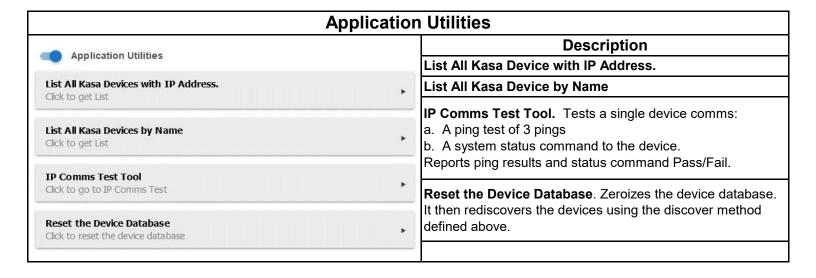
Select from Discovery Options: Allows to select LAN, CLOUD, or BOTH discovery Options

a. LAN. Takes several minutes. Can miss devices.

B. CLOUD. Requires credentials. Fast.

LAN Segments: For complex topologies, the segments that will be searched during LAN discovery.

Host Address Range: Shortens search range from the entire segment to a select subset.



	Other Reference L	ocation Links
Installation Instructions	https://github.com/DaveGut/	/HubitatActive/blob/master/KasaDevices/Docs/install.pdf
Update Instructions	https://github.com/DaveGut/	HubitatActive/blob/master/KasaDevices/Docs/update.pdf
Application Description	https://github.com/DaveGut/F	HubitatActive/blob/master/KasaDevices/Docs/appDesc.pdf
Device Capabilities	https://github.com/DaveGut/H	ubitatActive/blob/master/KasaDevices/Docs/cmdsAttrs.pdf
Device Preferences	https://github.com/DaveGut	/HubitatActive/blob/master/KasaDevices/Docs/prefs.pdf
Troubleshooting Guide	https://github.com/DaveGut/	HubitatActive/blob/master/KasaDevices/Docs/trouble.pdf
	Device Cap	nahilities
	Hubitat Defined	
The below capabilities are	implemented in accordance with the Hu	•
Capability	Commands / Attributes	Devices / Notes
Actuator	none	All devices
Change Level	cmds : Start Level Change, Stop Level Change	Dimming Switch, All bulbs, Light Strip
Color Control	cmds: Set Color, Set Hue, Set Saturation attrs: RGB, color, colorName, hue, saturation	Color Bulb
Color Mode	attrs: colorMode	Color Bulb
Color Temperature	cmds: Set Color Temperature attrs: colorName, colorTemperature	Color Bulb, CT Bulb
Energy Meter	attrs: energy	EM Plug, EM Multiplug, all Bulbs
Level Preset	cmds: Preset Level attrs: levelPreset	Dimming Switch
Light	cmds: On, Off attrs: switch	All bulbs, Light Strip
Light Effects	cmds: Set Effect, Set Next Effect, Set Previous Effect attrs: effectName, lightEffects	Light Strip
Power Meter	attrs: power	EM Plug, EM Multiplug, all Bulbs
Refresh	cmds: Refresh	All devices
Switch	cmds: On, Off attrs: switch	All devices
Switch Level	cmds: Set Level attrs: level	Dimming Switch, All bulbs, Light Strip

Custom Capabilities		
The below capabilities are custom capabilities unique to this integration		
Capability	Commands / Attributes	Notes
Bulb Presets	cmds: Bulb Preset Create, Bulb Preset Delete, Bulb Preset Set	Color Bulbs, Light Strips / Create bulb presets with name based on current settings. Command preset by Name. Coordinate presets with other color bulbs. Execute through rule machine or other means. Presets are stored in state bulbPresets.
Circadian Mode	cmds: Set Circadian / circadianState	Color and CT Bulbs / Sets device-internal circadian mode.
Connection	attrs: connection	All devices / LAN or CLOUD connection controlled via preferences.
Energy Statistics	attrs: currMonthTotal, currMonthAvg, lastMonthTotal, lastMonthAvg	EM Plug, EM Multiplug, all Bulbs
LED Control	cmds: Led On, Led Off attrs: led	Plugs, Multiplugs / Sets the faceplate LED for the device on/off. Results will vary.
Light Effect Preset	cmds: Effect Create, Effect Delete, Effect Set	Light Strips / Create strip presets with name based on current settings. Command preset by Name. Coordinate presets with other light strips. Execute through rule machine or other means. Presets are stored in state effectPresets.
Quick Polling	cmds: Set Poll Interval	All devices / Allows poll interval control from rule machine. Function allows syncing HE with manual switch use. Reports corrent through state pollInterval.

Trada iiito;	Stree Defenses Leasting Links
	Other Reference Location Links
Installation Instructions	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/install.pdf
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Device Preferences	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/prefs.pdf
Troubleshooting Guide	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/trouble.pdf
	Device Preferences
Note: Not all preference a Device's Edit page.	re applicable for your individual devices. All available preference are in the preferences section of the
1 3	Common Preferences to all devices
30 minutes of debug	
logging	Used for troubleshooting only. Provides detailed logging of normal events.
Enable Information Logging	Will log whenever a device attribute changes. Also logs when device settings are updated.
Kasa Cloud Binding	A. When false (white), your device is in Local Control Only and can not be controlled through the Kasa Cloud. The Kasa Phone App can control if the phone is on your local wifi. B. When true, the device is in kasa default control and can be controlled from the Kasa Cloud. The Kasa Phone App can control the device world-wide. To transition from False to True, Kasa Credentials and a Token must first be set up in the Hubitat Kasa Integration App.
Appears in preferences section only when Kasa Cloud Binding is true. When false, all device control is LOCAL LAN only and the attribute connection = "LAN" To be true (and to go from false to true), the "Interface to Kasa Cloud for device control" must be selected in the App. When selected, all device control is through the Kasa Cloud and connection = "CLOUD"	
Reboot device	Used for troubleshooting only. Use sparingly. Reboots the Kasa device.
	Energy Monitor Devices
Enable Enery Monitor	Enables the Energy Monitor function.
	Bulbs and Light Strips.
Default Transition Time (seconds)	Used for a smooth transition from one state to another.
Color Bulbs and Light Strips Only. I have created an ability to define and name bulb color / color temperature presets that can then be shared with other color bulbs. You can then set the color by name. This function will overwrite the bulb preset data in other bulbs of the same device with the data store for this device.	
Sync Effect Preset Data Light Strip Only. I have create the capability to define light strip effects. You can then set these is the bulb by the effect name. This function will overwrite the light Effect preset data in other light stripss with the data stored for the light strip.	

		Other Reference Location Links	
Installatio	on Instructions	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/install.pdf	
	te Instructions	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/update.pdf	
	on Description	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/appDesc.pdf	
	ce Capabilities	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/cmdsAttrs.pdf	
	ce Preferences	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/prefs.pdf	
	shooting Guide	https://github.com/DaveGut/HubitatActive/blob/master/KasaDevices/Docs/trouble.pdf	
Troubles	shooting Guide	ittps://github.com/DaveGut/HubitatActive/blob/Hlaster/KasaDevices/Docs/trouble.pur	
		Troubleshooting	
		Installation Issues	
1	A. Use the Kar B. Verify your If it does, n C. Press "Nex D. Press "Nex 1) Go to "K 2) Select d	an add devices list. Is a Phone app and verify the device is operational (on/off cycle). If OK, continue. In network configuration is a single segment and does not have security lockouts. In nodify the "Cloud, Lan and Device Control Setup" as appropriate. It and try rerunning installation. If not successful, continue It and open "Cloud, Lan, and Device Control Setup" It and open "Cloud, Lan, and Device Control Setup" It and Token Update" and enter username and password In one. Then refresh this page and make sure the token is on the page. It all Kasa Devices".	
2	A selected device does not install. A. Make sure the appropriate Drivers (as listed on the Add Devices Page) are installed into Hubitat. B. Retry the installation.		
		Operations Issue	
1	Try the command again. Although comms are good, this is a wifi or web interface and errors sometimes occur. If the error is repetitive, continue.		
2	Open the Kasa Phone App and verify the device is operational via on/off cycle. If OK, continue.		
3	Open the Hubitat Kasa Integration application and reset the device database (which will check the IP address and update as required.		
4	Using the device IP, run the Application Utility "IP Comms Test Tool". A. Ping test should show a Success of 100%. Otherwise, there may be issues with your Network configuration (device location, faulty device in the Hubitat - device chain). B. If Ping is 100%, the Device Command Test should be PASS. If not, the possibilities are: 1) The device is faulty (try running the device through the Kasa Integration App). 2) The device is on the list that TP-Link has protected from LAN control. In that case, you must: a) App: obtain a Kasa Token and set "Interface to Kasa Clloud for device control" to true. b) Device: Bind the device to the Kasa Cloud and set "Use Kasa Cloud for device control" to true.		
5	B. Copy these	ata. evices previous logs and look for errors and warnings. and provide those lines along with your Device Type/Model and a description of what is happening. vate Message, provide the above to @davegut.	
		Network Simplification	
		unications issues due to the complexities of the Network. If normal troubleshooting fails, the idea is the device that is failing,	
	T	Settled to the discount of the control of the contr	
1	Insure the Hub	itat hud is on the same segment as the propiematic device.	
1 2		ange extenders or gateway-external switches (in the devices are faulty).	