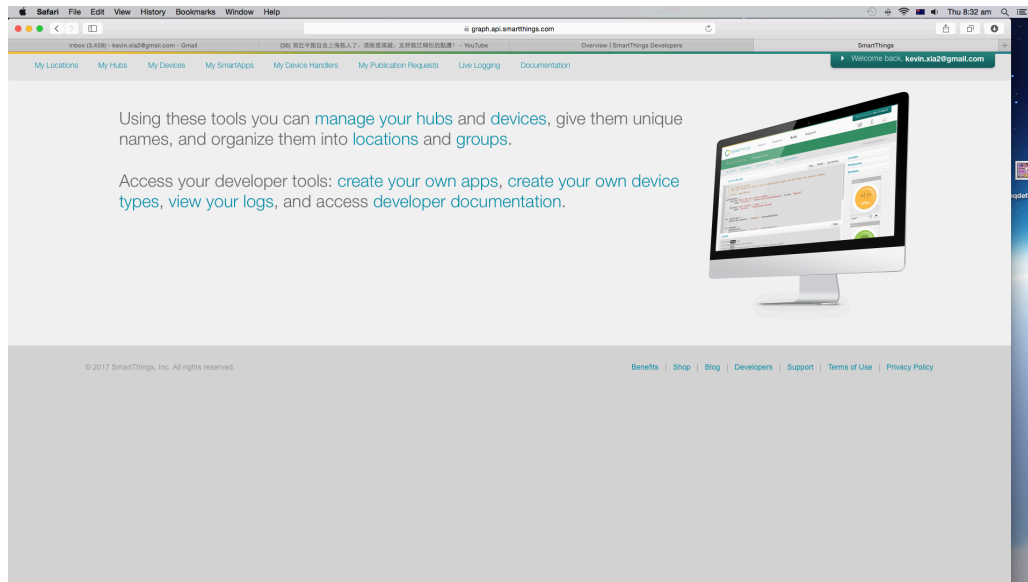
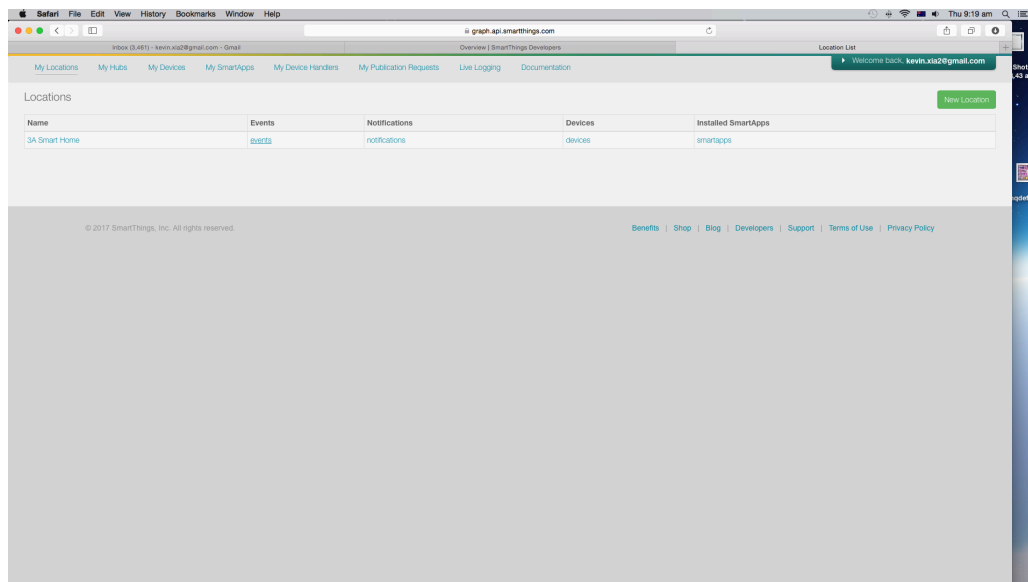


# How to add Nue ZigBee Switches to SmartThings Hub

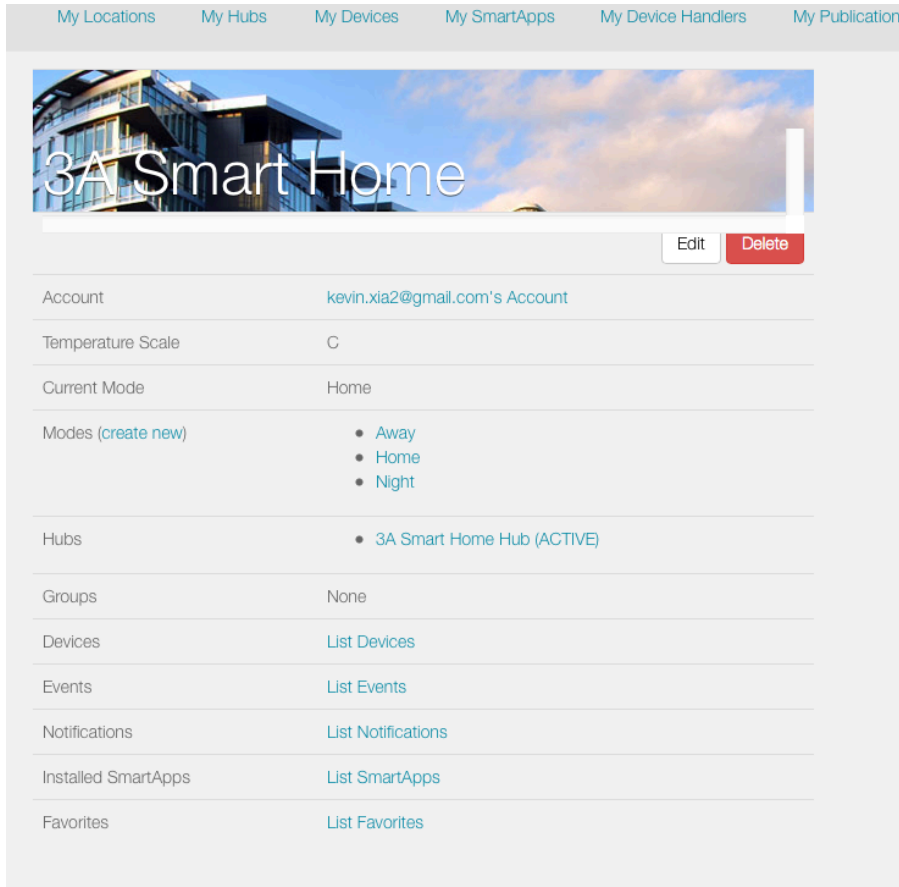
1. After setting up your SmartThings Hub, Login SmartThings Developer Tools from link below by using your SmartThings account  
<https://graph.api.smarththings.com>



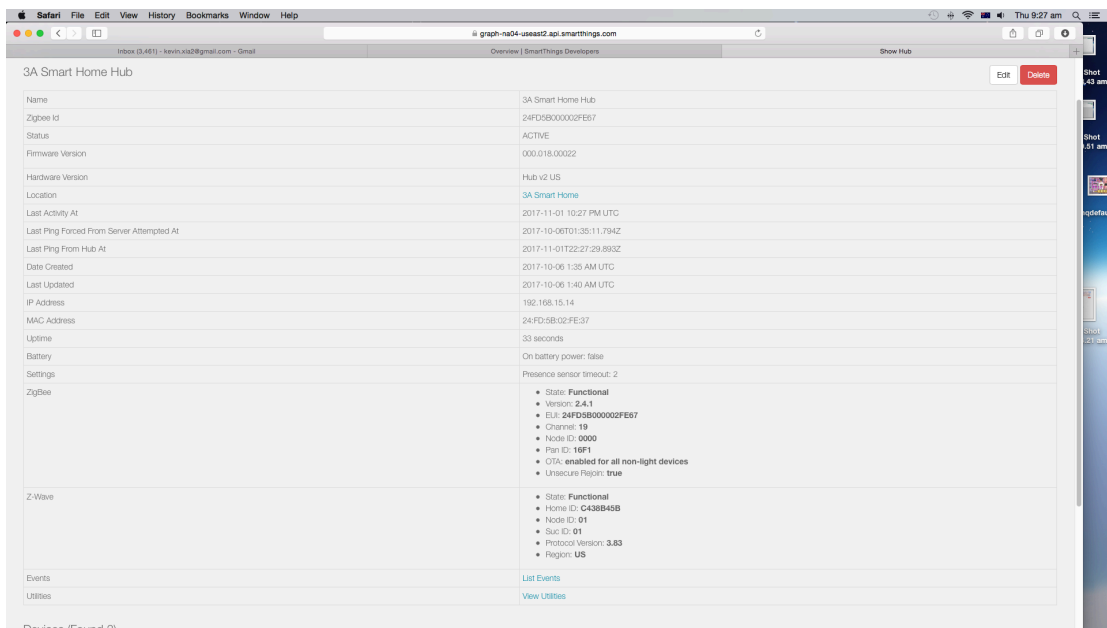
2. Click my location tab to open Location page



3. Click your hub name to open hub setting page



4. Click the hub link to view hub detail settings. For ZigBee, check the following setting correct or not  
 OTA: enabled for all non-light devices  
 Unsecure Rejoin: true



If not, click the view utilities link to change the ZigBee setting.

« Show Hub

### 3A Smart Home Hub

Z-Wave Utilities	<ul style="list-style-type: none"> <li>Z-Wave Exclude</li> <li>Join/Leave another Z-Wave network</li> <li>Repair Z-Wave network</li> <li>Disable Z-Wave Module</li> <li>Enable Z-Wave Module</li> </ul>
ZigBee Utilities	<ul style="list-style-type: none"> <li>Network Security             <ul style="list-style-type: none"> <li>Disable Unsecure Rejoin (Most Secure)</li> <li>Allow Unsecure Rejoin (Most Compatible)</li> <li>Retrieve Current Setting</li> </ul> </li> <li>ZigBee OTA             <ul style="list-style-type: none"> <li>Disable OTA</li> <li>Allow OTA</li> <li>Allow OTA for lights</li> <li>Retrieve Current Setting</li> </ul> </li> </ul>
Hub Commands	<ul style="list-style-type: none"> <li>Ping Hub</li> <li>Disconnect Hub</li> <li>Reboot Hub</li> <li>Send Hub Logs</li> </ul> <p>Send</p>
Presence Timeout	<ul style="list-style-type: none"> <li>Update Presence Timeout (Minutes) <span>Default</span></li> </ul> <p>Update</p> <ul style="list-style-type: none"> <li>Get Presence Timeout</li> </ul>

Edit Delete

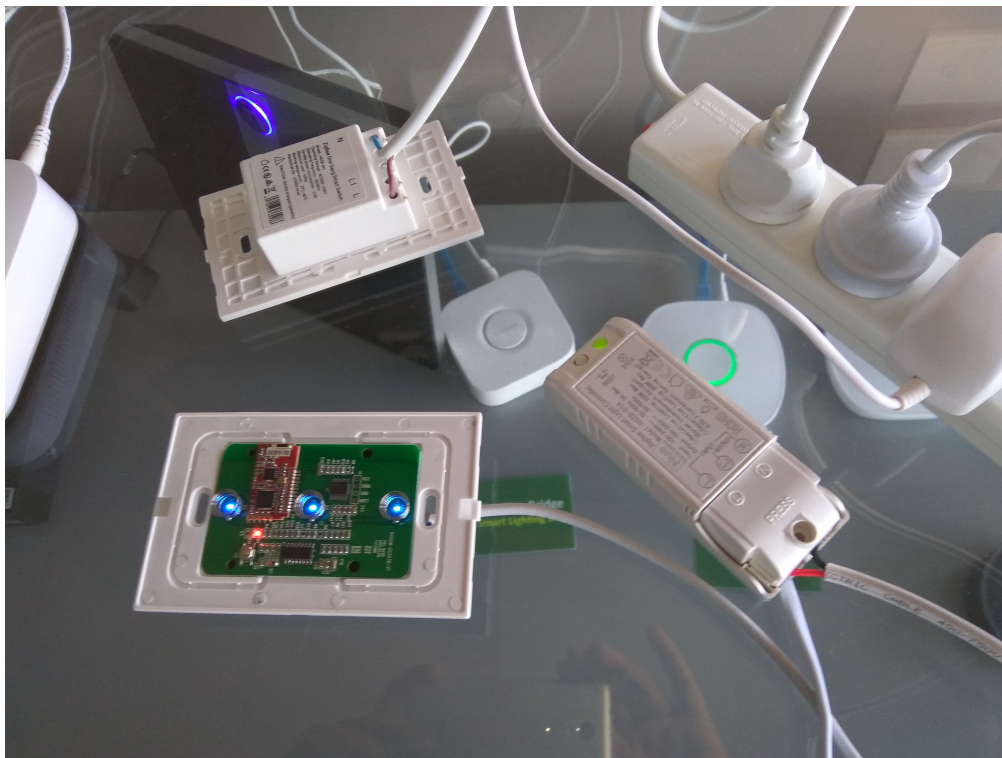
5. Go back my location page and click events link to open events page , click All to view all events

Time	Device	Event Type	Details	Event Name	Status
2017-11-01 5:11:15.780 AM UTC	HUB	zwaveInclude		Err 103: Z-Wave include timed out	false
2017-11-01 5:10:03.323 AM UTC	HUB	raw	raw-00000000000000000000, dnc00...	raw-00000000000000000000, dnc0000...	false
2017-11-01 5:09:44.087 AM UTC	HUB	ping	ping	ping	false
2017-11-01 5:05:27.149 AM UTC	DEVICE	ENTITY_UPDATE	DeviceCreated	Device [{"deviceName"}] created	false
2017-11-01 5:05:26.953 AM UTC	HUB	deviceAdd	deviceAdd	Thing added	true
2017-11-01 5:05:26.897 AM UTC	HUB	zjoin	zjoin: [{"id":"05AB","id":"00124B00ED..."}]	zjoin: [{"id":"05AB","id":"00124B00ED..."}]	false
2017-11-01 5:05:18.984 AM UTC	HUB	zstatus	include search	Z-Wave include search started	false
2017-11-01 5:05:10.700 AM UTC	APP	SOLUTION_SUMMARY	summary	Alarm system is null/clear/clear/dry	true
2017-11-01 5:05:10.564 AM UTC	APP	intrusionModeChange			true
2017-11-01 5:05:03.128 AM UTC	HUB	raw	raw-00000000000000000000, dnc00...	raw-00000000000000000000, dnc0000...	false
2017-11-01 5:04:42.832 AM UTC	HUB	ping	ping	ping	false
2017-11-01 5:04:11.563 AM UTC	HUB	ping	ping	ping	false
2017-11-01 5:03:40.311 AM UTC	HUB	ping	ping	ping	false
2017-11-01 5:03:09.069 AM UTC	HUB	ping	ping	ping	false
2017-11-01 5:02:37.812 AM UTC	HUB	ping	ping	ping	false
2017-11-01 5:02:06.556 AM UTC	HUB	ping	ping	ping	false
2017-11-01 5:01:35.308 AM UTC	HUB	ping	ping	ping	false
2017-11-01 5:01:04.059 AM UTC	HUB	ping	ping	ping	false
2017-11-01 5:00:32.820 AM UTC	HUB	ping	ping	ping	false
2017-11-01 5:00:01.567 AM UTC	HUB	raw	raw-E5A40000124B000CB566B9, dncE...	raw-E5A40000124B000CB566B9, dncE5A4...	false
2017-11-01 4:59:42.264 AM UTC	HUB	ping	ping	ping	false

6. Wire and power on your Nue Switch or Controller, place them close to your SmartThings Hub.



If the led near the switch reset key is off or the led light of the light controller is green, you need to hold the reset button until the led light turning red to reset the switch or controller.



7. Open your SmartThings APP from your mobile phone,, Click Add a Thing to add new devices. After a while, you can see the switch reset light off or turning green. It means the switches have been added to the SmartThings Hub.

8. Go back your computer Events page, you should see zb\_join events. For Dimmer Switch, you can see **catchall event**.

Date	Source	Type	Name	Value	User	Displayed Text	Changed
2017-11-01 6:08:45:022 AM UTC 15 hours ago	HUB		activity	inactive		Your SmartThings Hub at 3A Smart Home is ...	true
2017-11-01 6:08:45:570 AM UTC 15 hours ago	HUB		hubStatus	inactive		Your SmartThings Hub at 3A Smart Home is ...	true
2017-11-01 6:07:50:232 AM UTC 15 hours ago	APP	NOTIFICATION	message			Your SmartThings Hub at 3A Smart Home is ...	false
2017-11-01 6:03:50:335 AM UTC 16 hours ago	HUB		hubStatus	disconnected		Your SmartThings Hub at 3A Smart Home is ...	true
2017-11-01 6:02:50:842 AM UTC 16 hours ago	HUB		ping	ping		ping	false
2017-11-01 6:02:19:440 AM UTC 16 hours ago	HUB		ping	ping		ping	false
2017-11-01 6:01:48:035 AM UTC 16 hours ago	HUB		ping	ping		ping	false
2017-11-01 6:01:16:642 AM UTC 16 hours ago	HUB		ping	ping		ping	false
2017-11-01 6:00:45:233 AM UTC 16 hours ago	HUB		ping	ping		ping	false
2017-11-01 6:00:13:838 AM UTC 16 hours ago	HUB		ping	ping		ping	false
2017-11-01 5:59:42:443 AM UTC 16 hours ago	HUB		ping	ping		ping	false
2017-11-01 5:59:11:053 AM UTC 16 hours ago	DEVICE		switch	on		Nue Light Controller switch is on	true
2017-11-01 5:59:10:246 AM UTC 16 hours ago	COMMAND			on		on command was sent to Nue Light Controller	true
2017-11-01 5:59:05:449 AM UTC 16 hours ago	HUB		catchall	0000 8038 00 00 01 04 00 0000...		catchall: 0000 8038 00 00 01 04 00 0000 00...	false
2017-11-01 5:59:05:071 AM UTC 16 hours ago	DEVICE		switch	off		Nue Light Controller switch is off	true
2017-11-01 5:59:04:251 AM UTC 16 hours ago	COMMAND			off		off command was sent to Nue Light Controller	true
2017-11-01 5:59:03:121 AM UTC 16 hours ago	DEVICE		switch	on		Nue Light Controller switch is on	true

9. Click the **zb\_join** or **catchall** event link (the left side with date and time) to view the details. You should see the details  
 zbjoin{"dni":"9CF0","d":"00124B000AE76565","capabilities":"8E","endpoints":{"simple":"10 0104 0002 00 04 0000 0005 0004 0006 01 0000"},"application":"","manufacturer":"Feibit Inc co.",  
 "model":"FB56+ZSW1GKJ1.7"}

```

zbjoin: {"dni":"05AB","d":"00124B000BD6D2C4","capabilities":"8E","endpoints":{"simple":"10 0104 0002 00 04 0000 0005 0004 0006 01 0000"},"application":"","manufacturer":"Feibit Inc co.", "model":"FB56+ZSW05HG1.2"},"parent":"FFFF","joinType":255}
  
```

Name	Value
archivable	true
date	2017-11-01 5:59:05:447 AM UTC (2017-11-01T05:38:05.447Z)
description	zbjoin: {"dni":"05AB","d":"00124B000BD6D2C4","capabilities":"8E","endpoints":{"simple":"10 0104 0002 00 04 0000 0005 0004 0006 01 0000"},"application":"","manufacturer":"Feibit Inc co.", "model":"FB56+ZSW05HG1.2"},"parent":"FFFF","joinType":255}
displayed	false
eventSource	HUB
hubId	61084e8b-d8d3-44ec-81e7-18031ud89f6e
id	45991170-bec6-11e7-90bc-660c690d07a
isStateChange	false
isVirtualHub	false
linkText	3A Smart Home Hub
locationId	45b4683-0c5c-42a2-a2dc-3901a93a1b00
name	zbjoin: {"dni":"05AB","d":"00124B000BD6D2C4","capabilities":"8E","endpoints":{"simple":"10 0104 0002 00 04 0000 0005 0004 0006 01 0000"},"application":"","manufacturer":"Feibit Inc co.", "model":"FB56+ZSW05HG1.2"},"parent":"FFFF","joinType":255}
rawDescription	zbjoin: {"dni":"05AB","d":"00124B000BD6D2C4","capabilities":"8E","endpoints":{"simple":"10 0104 0002 00 04 0000 0005 0004 0006 01 0000"},"application":"","manufacturer":"Feibit Inc co.", "model":"FB56+ZSW05HG1.2"},"parent":"FFFF","joinType":255}
translatable	false
unixTime	150951488547
value	zbjoin: {"dni":"05AB","d":"00124B000BD6D2C4","capabilities":"8E","endpoints":{"simple":"10 0104 0002 00 04 0000 0005 0004 0006 01 0000"},"application":"","manufacturer":"Feibit Inc co.", "model":"FB56+ZSW05HG1.2"},"parent":"FFFF","joinType":255}
viewed	false

10. Create a new device from My Devices→New Device, You can create your own device name, i.e. Switch 1, The ZigBee id is from the above event, i.e the above device 00124B000AE76565, The Device Network ID is from the above event as well, i.e. 9CF0. As for the Type, select ZigBee Switch or Zigbee Dimmer. For the version, you can select “Self-Published”

The screenshot shows a 'Create Device' form with the following fields and values:

- Name \***: Switch 1
- Label**: (empty)
- Zigbee Id**: (empty)
- Device Network Id \***: (empty)
- Type \***: ZigBee Switch
- Version \***: Self-Published
- Location**: (empty)
- Hub**: (empty)
- Group**: (empty)

A blue 'Create' button is located at the bottom of the form.

11. Create your device handler from My Device Handlers --> Create a new device handler.--> From Code: Copy and paste the scripts below to create your device handler.

```
/**  
* Copyright 2015 SmartThings
```

\*  
 \* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except  
 \* in compliance with the License. You may obtain a copy of the License at:  
 \*  
 \* <http://www.apache.org/licenses/LICENSE-2.0>  
 \*  
 \* Unless required by applicable law or agreed to in writing, software distributed under the License is distributed  
 \* on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License  
 \* for the specific language governing permissions and limitations under the License.  
 \*  
 \*/

```

metadata {
  definition (name: "ZigBee Switch", namespace: "smarththings", author:
"SmartThings", ocfDeviceType: "oic.d.switch") {
    capability "Actuator"
    capability "Configuration"
    capability "Refresh"
    capability "Switch"
    capability "Health Check"

    fingerprint profileId: "0104", inClusters: "0000, 0003, 0004, 0005, 0006"
    fingerprint profileId: "0104", inClusters: "0000, 0003, 0006", outClusters:
"0003, 0006, 0019, 0406", manufacturer: "Leviton", model: "ZSS-10",
deviceJoinName: "Leviton Switch"
    fingerprint profileId: "0104", inClusters: "0000, 0003, 0006", outClusters:
"000A", manufacturer: "HAI", model: "65A21-1", deviceJoinName: "Leviton
Wireless Load Control Module-30amp"
    fingerprint profileId: "0104", inClusters: "0000, 0003, 0004, 0005, 0006",
outClusters: "0003, 0006, 0008, 0019, 0406", manufacturer: "Leviton", model:
"DL15A", deviceJoinName: "Leviton Lumina RF Plug-In Appliance Module"
    fingerprint profileId: "0104", inClusters: "0000, 0003, 0004, 0005, 0006",
outClusters: "0003, 0006, 0008, 0019, 0406", manufacturer: "Leviton", model:
"DL15S", deviceJoinName: "Leviton Lumina RF Switch"
    fingerprint profileId: "0104", inClusters: "0000, 0003, 0004, 0005, 0006",
outClusters: "0003, 0006, 0008, 0019, 0406", manufacturer: "Feibit Inc co.",
model: "FB56+ZSW1GKJ1.7", deviceJoinName: "Nue ZigBee Switch"
    fingerprint profileId: "0104", inClusters: "0000, 0003, 0004, 0005, 0006",
outClusters: "0003, 0006, 0008, 0019, 0406", manufacturer: "Feibit Inc co.",
model: "FB56+ZSW05HG1.2", deviceJoinName: "Nue ZigBee Light Controller"
  }

  // simulator metadata
  simulator {
    // status messages
  }
}

```

```

status "on": "on/off: 1"
status "off": "on/off: 0"

// reply messages
reply "zcl on-off on": "on/off: 1"
reply "zcl on-off off": "on/off: 0"
}

tiles(scale: 2) {
  multiAttributeTile(name:"switch", type: "lighting", width: 6, height: 4,
canChangeIcon: true){
    tileAttribute ("device.switch", key: "PRIMARY_CONTROL") {
      attributeState "on", label:'${name}', action:"switch.off",
icon:"st.switches.light.on", backgroundColor:"#00A0DC", nextState:"turningOff"
      attributeState "off", label:'${name}', action:"switch.on",
icon:"st.switches.light.off", backgroundColor:"#ffffff", nextState:"turningOn"
      attributeState "turningOn", label:'${name}', action:"switch.off",
icon:"st.switches.light.on", backgroundColor:"#00A0DC", nextState:"turningOff"
      attributeState "turningOff", label:'${name}', action:"switch.on",
icon:"st.switches.light.off", backgroundColor:"#ffffff", nextState:"turningOn"
    }
  }
  standardTile("refresh", "device.refresh", inactiveLabel: false, decoration:
"flat", width: 2, height: 2) {
    state "default", label:"", action:"refresh.refresh",
icon:"st.secondary.refresh"
  }
  main "switch"
  details(["switch", "refresh"])
}
}

// Parse incoming device messages to generate events
def parse(String description) {
  log.debug "description is $description"
  def event = zigbee.getEvent(description)
  if (event) {
    sendEvent(event)
  }
  else {
    log.warn "DID NOT PARSE MESSAGE for description : $description"
    log.debug zigbee.parseDescriptionAsMap(description)
  }
}

def off() {
  device.endpointId ="10"
  zigbee.off()
}

```



```

def on() {
    device.endpointId = "10"
    zigbee.on()
}

/**
 * PING is used by Device-Watch in attempt to reach the Device
 */
def ping() {
    return refresh()
}

def refresh() {
    zigbee.onOffRefresh() + zigbee.onOffConfig()
}

def configure() {
    // Device-Watch allows 2 check-in misses from device + ping (plus 2 min lag
    time)
    sendEvent(name: "checkInterval", value: 2 * 10 * 60 + 2 * 60, displayed: false,
    data: [protocol: "zigbee", hubHardwareId: device.hub.hardwareID])
    log.debug "Configuring Reporting and Bindings."
    zigbee.onOffRefresh() + zigbee.onOffConfig()
}

```

11. Save and publish your device handler by selecting “For me”

12. Refresh your SmartThing APP, then you can see the new added device and control the device.