

# Integrations

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# Smart Appliances — LG, GE, Midea, Dyson, iQua, Orbit BHyve

## LG SmartThinQ Sensors

**Integration:** `smarthinq_sensors` (HACS) | **Status:** `setup_retry` | **Pending update:** v0.43.0

### Devices

| Device            | Model                                | Area         |
|-------------------|--------------------------------------|--------------|
| Refrigerator      | 2REF11EICD__2-FD (REFRIGERATOR)      | Kitchen      |
| WashTower (Dryer) | W3S1CVK2EVS_D_US-Dryer (TOWER_DRYER) | Laundry Room |
| Washer            | F3S1CWK__-FL (TOWER_WASHER)          | Laundry Room |

**Key entities:**

- `climate.fridge` / `climate.freezer` — fridge/freezer temperature control
- `sensor.dry_level` — dryer dry level
- `sensor.ge_profile_oven_srhv558129p_cook_mode` — oven state
- Wash/dry mode selectors, run state sensors

“ **Action required:** Apply HACS update v0.43.0 and restart HA.

## GE Home (SmartHQ)

# Devices

| Device                      | Model        | Area    |
|-----------------------------|--------------|---------|
| GE Profile Oven SRHV558129P | PCHS920YM3FS | Kitchen |

Key entities:

- `sensor.ge_profile_oven_srhv558129p_srhv558129p_cook_mode` — active cook mode
- `water_heater.ge_profile_oven_srhv558129p_srhv558129p_oven` — oven (water\_heater domain used for temp control)

“ Action required: Apply HACS update v2026.2.1 and restart HA.

# Midea Dehumidifier (LAN)

## Device

| Device            | Model                           | Area     |
|-------------------|---------------------------------|----------|
| Dehumidifier_71B6 | Midea Dehumidifier (sw 8.33.34) | Basement |

Entities:

- `humidifier.dehumidifier_71b6` — on/off, target humidity
- `fan.dehumidifier_71b6_fan` — fan speed
- `switch.dehumidifier_71b6_pump` / `switch.dehumidifier_71b6_pump_enabled`
- `sensor.dehumidifier_71b6_*` — humidity readings

# Dyson Pure Hot+Cool Link (Local)

# Device

| Device             | Model     | Area    |
|--------------------|-----------|---------|
| Pure Hot+Cool Link | Model 455 | Bedroom |

Entities:

- `fan.dyson_fan` — speed, oscillation, night mode
- `climate.pure_hot_cool_link` — heat mode, temperature
- `sensor.pure_hot_cool_link_filter_life` — HEPA filter remaining life
- Air quality sensors (PM2.5, VOC, NO2, formaldehyde)

Automation: `Heat Bedroom` uses this device.

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# iQua Water Softener

Integration: `iqua_softener` (HACS) | Status: loaded

# Device

| Device                           | Model          | Area     |
|----------------------------------|----------------|----------|
| Iqua Softener RHW4221-24178-4056 | Water Softener | Basement |

Entities:

- `switch.iqua_softener_rhw4221_24178_4056_water_shutoff_valve`
  - `select.iqua_softener_rhw4221_24178_4056_efficiency_mode`
  - Various water quality sensors
- 

# Orbit BHyve (Irrigation)

Integration: `bhyve` (HACS) | Status: loaded

# Devices

| Device               | Model                | Area         |
|----------------------|----------------------|--------------|
| Bhyve Hub            | BH1G2-0002 (fw 0056) | (unassigned) |
| Front Yard Tap Timer | HT34A-0001 (fw 107)  | Front Yard   |

Entities:

- `valve.*` — 4 irrigation zone valves
- `switch.*_program` — watering programs
- `switch.*_rain_delay` — rain skip
- `sensor.*_next_watering` — next scheduled run
- `binary_sensor.bhyve_hub_connected`
- `binary_sensor.front_yard_tap_timer_fault`

See [area-front-yard.md](#) for full irrigation zone details.

# LetPot (Hydroponic Gardens)

**Integration:** `letpot` | **Status:** `setup_retry` | **Account:** `jeeves5454@gmail.com`

## Devices

| Device           | Model         | Area       |
|------------------|---------------|------------|
| Chrome 1 - Right | LetPot Senior | Media Room |
| Chrome 2 - Left  | LetPot Senior | Media Room |

💡 Currently in `setup_retry` — likely an authentication/network issue.

## Notes / Gotchas

- Three integrations need HACS updates and HA restart: `smarththing_sensors` (v0.43.0), `ge_home` (v2026.2.1), `govee` (v2026.6.20).
- Dyson Local uses local LAN communication — does not require Dyson cloud account to function after initial setup.

- The iQua Water Shutoff Valve is a safety-critical entity — automations should NOT accidentally toggle it.

# Last Updated

2026-06-24

# Audio & Media

## Overview

The home has a rich multi-room audio and media setup anchored by **Music Assistant** (MA) as the central music server, with Amazon Alexa devices, Apple TV, Samsung TVs, Sony BRAVIA, and a VLC media player providing playback targets across every room.

## Music Assistant

**Integration:** `music_assistant` | **Add-on:** Music Assistant v2.9.3 | **Entry:**  
`01KGVC9C8528A127QZ3ZQSFCDH`

Music Assistant (MA) is a free, open-source media library manager that aggregates streaming services and plays to speaker groups.

## MA Players

| Player                                   | Source                   | Area          |
|------------------------------------------|--------------------------|---------------|
| Living Room                              | Apple TV 4K Gen3         | Living Room   |
| Kitchen                                  | Amazon Echo              | Kitchen       |
| Everywhere                               | Speaker Group            | (all rooms)   |
| Rajeev's Samsung Soundbar                | HW-Q930B                 | Media Room    |
| Bedroom                                  | Amazon Echo Show 5       | Bedroom       |
| Office Dot Clock                         | Echo Dot w/ Clock        | Office        |
| Media Room                               | Amazon Echo Dot w/ Clock | Media Room    |
| Guest                                    | Amazon Echo Dot          | Guest Bedroom |
| Rajeev's ecobee Smart Thermostat Premium | ecobee                   | Living Room   |
| Basement Alexa                           | Amazon Echo Dot          | Basement      |
| Garage                                   | Amazon Echo Dot          | Garage        |
| Rajeev's Samsung Soundbar S60B           | Samsung HW-S61B          | Living Room   |

| Player                      | Source                  | Area        |
|-----------------------------|-------------------------|-------------|
| Basement                    | Amazon Speaker Group    | Basement    |
| Full House                  | MA Sync Group           | (all)       |
| BRAVIA 4K UR2               | Sony BRAVIA             | Media Room  |
| Rajeev's TV                 | Amazon Fire TV          | Basement    |
| Soundbar                    | Samsung HW-Q930B        | Media Room  |
| Living Room soundbar        | Samsung HW-S61B         | Living Room |
| jeevesiy-ltmh242            | MacBook (AirPlay)       | (mobile)    |
| Rajeev's MacBook Air        | MacBook Air (AirPlay)   | (mobile)    |
| Music Assistant             | ShairportSync (AirPlay) | (system)    |
| Home Assistant Voice 0919e8 | ESPHome (AirPlay)       | Bedroom     |

**YT Music PO Token Generator** add-on (v1.3.1) provides YouTube Music authentication tokens for MA.

# Amazon Alexa Devices

**Integration:** alexa\_devices (HACS) | **Account:** jeeves5454@gmail.com

All Amazon Echo devices are integrated via the Alexa Devices integration, providing media player control and TTS announcements.

## Alexa Devices

| Device                                   | Model                      | Area          |
|------------------------------------------|----------------------------|---------------|
| Kitchen                                  | Amazon Echo (4th gen)      | Kitchen       |
| Rajeev's Samsung Soundbar S60B           | Samsung Soundbar S60B      | Living Room   |
| Basement Alexa                           | Amazon Echo Dot            | Basement      |
| Rajeev's ecobee Smart Thermostat Premium | ecobee (Alexa built-in)    | Living Room   |
| Everywhere                               | Speaker Group              | (all)         |
| Media Room                               | Amazon Echo Dot with Clock | Media Room    |
| Bedroom                                  | Amazon Echo Show 5         | Bedroom       |
| Guest                                    | Amazon Echo Dot            | Guest Bedroom |

| Device                    | Model                      | Area       |
|---------------------------|----------------------------|------------|
| Rajeev's TV               | Amazon Fire TV 2-Series    | Basement   |
| Garage                    | Amazon Echo Dot            | Garage     |
| Basement                  | Speaker Group              | Basement   |
| Rajeev's Samsung Soundbar | Samsung Soundbar Q930B     | Media Room |
| Office Dot Clock          | Amazon Echo Dot with Clock | Office     |

Each Alexa device exposes:

- `media_player.*` — play/pause/volume/track
  - `sensor.*.next_alarm` — next alarm time
  - `notify.*_speak` / `notify.*_announce` — TTS announcement
- 

# Apple TV

**Integration:** `apple_tv` | **Device:** Apple TV 4K Gen3 (tvOS 26.5) | **Area:** Living Room

| Entity                                           | Notes                              |
|--------------------------------------------------|------------------------------------|
| <code>media_player.living_room</code> (Apple TV) | Play/pause/volume/app control      |
| <code>remote.living_room</code>                  | Remote control (directional, menu) |

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# Samsung TVs

## Samsung Frame 55 (Living Room)

- Integrations:** `samsungtv_smart` (primary, HACS) + `samsungtv` (native) + `smartthings`
- Model:** QN55LS03BAFXZC
- Entities: `media_player.samsung_frame_55`, `remote.samsung_frame_55`
- SmartThings adds energy monitoring: `sensor.living_room_tv_energy`

## Living Room TV (via SmartThings)

- Integration:** `smartthings` | Model: QN55LS03BAFXZC

- `media_player.living_room_tv`

## Living Room Soundbar (HW-S61B)

- **Integration:** `smarththings` + `alexa_devices`
- Samsung soundbar model HW-S61B

## Media Room Soundbar (HW-Q930B)

- **Integration:** `smarththings` + `alexa_devices`
  - Samsung soundbar model HW-Q930B (firmware HW-Q930BWWB-1010.0)
- 

# Sony BRAVIA 4K UR2

**Integrations:** `androidtv_remote` + `cast` + `dlna_dmr` | **Area:** Media Room

The BRAVIA appears under three different integrations:

- `androidtv_remote` — full Android TV control (apps, directional, volume)
  - `cast` — Google Cast receiver
  - `dlna_dmr` — DLNA media renderer
- 

## VLC (Local Media Player)

**Integration:** `vlc_telnet` | **Add-on:** VLC v1.0.0 | **Area:** Media Room

VLC is available as a local media player target for TTS and audio playback:

- `media_player.vlc_telnet`
- 

## DLNA

Three DLNA DMS (media server) entries for the **Lusankya** NAS (3× UPnP discovery instances), plus a Giga Hub entry and HDHomeRun DMS.

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# Notes / Gotchas

- The Samsung Frame 55 is registered three times — use `samsungtv_smart` as the primary control path; the native `samsungtv` entry may conflict.
- Music Assistant and Alexa Devices both register `media_player` entities for Echo devices — this creates duplicate entities. Use the MA entity for music control and the Alexa entity for TTS announcements.
- Apple TV integration can lose connection when the TV enters deep sleep; a retry is handled automatically.

## Last Updated

2026-06-24

# Energy Monitoring

## Overview

Energy monitoring is multi-layered: **Emporia Vue** provides granular circuit-level monitoring across 12 household circuits, **CO2 Signal** (Electricity Maps) provides real-time grid carbon intensity for Ontario, and the **Ontario Energy Board** integration provides local energy tariff data.

## Emporia Vue

**Integration:** `emporia_vue` (HACS) | **Account:** Customer 233316 | **Device:** VUE003 (Vue3-812 firmware)

The Emporia Vue whole-home energy monitor is installed on the main panel. The system uses a single VUE003 unit with multiple CT clamp circuits.

## Monitored Circuits

| Circuit                 | Device Name          | Area         |
|-------------------------|----------------------|--------------|
| Main Panel (whole home) | Cornell Vue          | (unassigned) |
| Main Floor Plugs        | Main Floor Plugs     | Living Room  |
| Hot Water Heater / HRV  | Hot water Heater/HRV | Basement     |
| Furnace                 | Furnace              | Basement     |
| AC                      | AC                   | Basement     |
| 2nd Floor Plugs         | 2nd Floor Plugs      | Media Room   |
| Washer                  | Washer               | Laundry Room |
| Kitchen Appliances      | Kitchen Appliances   | Kitchen      |
| Microwave               | Microwave            | Kitchen      |
| Stove                   | Stove                | Kitchen      |
| Fridge                  | Fridge               | Kitchen      |
| Kitchen Plugs           | Kitchen Plugs        | Kitchen      |

| Circuit             | Device Name       | Area         |
|---------------------|-------------------|--------------|
| Kitchen Plug        | Kitchen Plug      | Kitchen      |
| Dishwasher          | Dishwasher        | Kitchen      |
| Dryer               | Dryer             | Laundry Room |
| Balance (remaining) | Balance           | (unassigned) |
| Third Floor Plugs   | Third Floor Plugs | Office       |
| Main Floor Lights   | Main Floor Lights | Living Room  |

“ The Kitchen has the most granular monitoring: 7 individual circuits (appliances + plugs).

## Key Entities

Each Emporia circuit exposes power ( `sensor.*.power` ) and energy ( `sensor.*.energy_today` ) sensors.

Notable:

- `sensor.cornell_vue_energy_today` — daily whole-home energy usage
- `sensor.ac_power` — HVAC power draw
- `sensor.furnace_power` — heating power

## CO2 Signal (Electricity Maps)

**Integration:** `co2signal` | **Device:** Electricity Maps

Provides real-time electricity grid carbon intensity data for the Ontario grid region.

| Entity                                 | Notes                              |
|----------------------------------------|------------------------------------|
| <code>sensor.electricity_maps_*</code> | Grid carbon intensity (gCO2eq/kWh) |

Useful for automations that shift non-essential loads to low-carbon grid hours.

## Ontario Energy Board

**Integration:** `ontario_energy_board` (HACS) | **Authors:** jrfernandes, n3rdp1um23

Provides Ontario Time-of-Use (TOU) electricity pricing data:

- On-peak, mid-peak, off-peak rate selectors
  - Schedule-aware — useful for automations that avoid running high-draw appliances during on-peak hours
- 

## Notes / Gotchas

- The Emporia Vue uses a cloud API — if Emporia cloud is down, data will be unavailable. Historical data is stored in HA's recorder database.
- For long-term storage and visualization, Emporia data flows into **InfluxDB** (add-on) and is visualized in **Grafana** (add-on).
- The HA Energy dashboard can be configured to use `sensor.cornell_vue_energy_today` as the grid consumption source.

## Last Updated

2026-06-24

# Infrastructure Integrations — AdGuard, Tailscale, MQTT, ESPHome, NUT

## AdGuard Home

**Integration:** `adguard` | **Add-on:** AdGuard Home v6.2.0 (add-on), integration v6.1.3 | **Area:** Office

Network-wide DNS-based ad and tracker blocking. All DNS queries on the home network route through AdGuard.

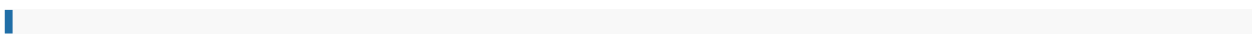
**AdGuard version:** v0.107.74

| Entity                                                     | Notes                       |
|------------------------------------------------------------|-----------------------------|
| <code>switch.adguard_home_protection</code>                | Master toggle               |
| <code>switch.adguard_home_parental_control</code>          | Parental controls           |
| <code>switch.adguard_home_safe_search</code>               | Safe search enforcement     |
| <code>switch.adguard_home_safe_browsing</code>             | Phishing/malware protection |
| <code>switch.adguard_home_filtering</code>                 | DNS filter list             |
| <code>switch.adguard_home_query_log</code>                 | Query logging               |
| <code>sensor.adguard_home_dns_queries_blocked_ratio</code> | % of queries blocked        |

## Tailscale

**Add-on:** Tailscale v0.28.1 | **Integration:** via hassio

Zero-config WireGuard-based mesh VPN. Provides secure remote access to HA and the home network from anywhere without port forwarding.



Tailscale is not exposed as HA entities — it runs as a network-level service. HA can be accessed via the Tailscale IP from any connected device.

# MQTT (Mosquitto Broker)

**Integration:** mqtt | **Add-on:** Mosquitto broker v7.1.0 | **Entry:** 01KHEMPP6F5Y28VAB029MPY33M

The local MQTT broker is the backbone for:

- Zigbee2MQTT device communication
- ESPHome device telemetry
- Frigate NVR events

**Zigbee2MQTT** publishes all Zigbee device state to MQTT topics ( zigbee2mqtt/<device\_name>/... ).

| Entity                                            | Notes         |
|---------------------------------------------------|---------------|
| sensor.zigbee2mqtt_bridge_signal_level            | Bridge signal |
| binary_sensor.zigbee2mqtt_bridge_connection_state | Bridge online |
| switch.zigbee2mqtt_bridge_permit_join             | Pairing mode  |

# ESPHome

**Integration:** esphome | 2 devices

| Device                      | Firmware          | Area    |
|-----------------------------|-------------------|---------|
| ratgdov2.5i e4d21f          | ESPHome 2023.12.9 | Garage  |
| Home Assistant Voice 0919e8 | ESPHome 2026.3.2  | Bedroom |

ESPHome devices communicate over local LAN via the native API — no MQTT required.

# Network UPS Tools (NUT)

**Integration:** nut | **Add-on:** Network UPS Tools v0.18.0 | **Host:** a0d7b954-nut:3493

Monitors the CPS CP1500AVRLCD UPS in the Media Room.

| Entity                                             | Notes              |
|----------------------------------------------------|--------------------|
| <code>sensor.media_room_ups_load</code>            | UPS load %         |
| <code>sensor.media_room_ups_battery_charge</code>  | Battery %          |
| <code>sensor.media_room_ups_battery_runtime</code> | Estimated runtime  |
| <code>sensor.media_room_ups_input_voltage</code>   | Grid input voltage |
| <code>sensor.media_room_ups_output_voltage</code>  | UPS output voltage |

**Automation:** `UPS Power Outage Notification` triggers when UPS switches to battery.

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## go2rtc

**Integration:** `go2rtc` (system) | **Status:** loaded

Camera stream proxying and WebRTC support for the HA frontend and Lovelace dashboards. Enables low-latency camera card viewing.

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## Chrony (NTP)

**Add-on:** chrony v6.0.1

Local NTP server for IP cameras. Cameras should point to the HA host IP as their NTP server to stay time-synchronized for accurate event timestamps.

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## Version Monitoring

Two `version` integration entries track HA version:

- `Current Version` — tracks the installed HA Core version
- `Docker Hub` — tracks the latest available version (for update notifications)

**Entity:** `binary_sensor.home_assistant_version_docker_hub_update_available`

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# InfluxDB & Grafana

**Add-ons:** InfluxDB v5.0.2 | Grafana v12.1.0

Long-term time-series storage (InfluxDB) and visualization (Grafana) for HA sensor data. Configured separately from HA's built-in recorder. Provides historical energy, climate, and sensor dashboards beyond what the HA frontend offers.

# iBeacon Tracker

**Integration:** `ibeacon` | **Status:** loaded

Passive BLE iBeacon tracking. Multiple `TELEMATIC-*` and vehicle-related iBeacon devices are detected in the environment (Rivian Phone Key, NIU scooter, vehicle telematics).

“ Most iBeacon devices visible in the registry are external/neighbouring devices detected passively, not intentionally tracked assets. The Rivian Phone Key ( `Rivian Phone Key DEEC` ) is the most relevant.

# Mobile App

**Integration:** `mobile_app` | **3 registered devices**

| Device        | Model               | OS          |
|---------------|---------------------|-------------|
| Iceheart      | iPhone 17 Pro       | iOS 26.5    |
| Bacta (iPad)  | iPad Pro (iPad16,2) | iPadOS 26.5 |
| Krytos (iPad) | iPad (iPad11,1)     | iPadOS 26.3 |

Provides:

- Presence detection ( `device_tracker.*` )
- Push notifications via `notify.iceheart` / `notify.mobile_app_*`
- Sensor data (battery, focus mode, location)

**Automation:** Multiple automations use `notify.mobile_app_iceheart` for push notifications.

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# IFTTT

**Integration:** `ifttt` | **Title:** IFTTT Webhook

Provides IFTTT webhook trigger capability. A button entity (`jeeves5454@gmail.com IFTTTtrigger-2 is pressed`) is exposed for IFTTT-initiated actions.

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# Pushover

**Integration:** `pushover` | **Status:** loaded

Push notification service as an alternative to the mobile app. Used for alerts where broader notification reach is needed.

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# Notes / Gotchas

- Mosquitto, Zigbee2MQTT, and MQTT integration must all be running for Zigbee to work. If any component restarts, the others may need re-initialization.
- NUT add-on version in the device registry shows v0.18.0 — this reflects the add-on version installed; the actual nut package may be newer.
- InfluxDB and Grafana are community add-ons (a0d7b954 repository) — they receive updates separately from core HA.

# Last Updated

2026-06-24

# Lighting Integrations — Lutron Caseta, Philips Hue, Govee

## Lutron Caseta

**Integration:** `lutron_caseta` | **Hub:** Smart Bridge 2 (L-BDGPRO2-WH) | **Area:** Media Room (hub location)

Lutron Caseta is the primary wired lighting control system in the home, covering dimmers and switches across all floors.

### Devices (14 Lutron devices)

| Device                        | Model                      | Area             |
|-------------------------------|----------------------------|------------------|
| Smart Bridge 2 (hub)          | L-BDGPRO2-WH (SmartBridge) | Media Room       |
| Master Bedroom Lights         | DVRF-6L (DivaSmartDimmer)  | Bedroom          |
| Guest Bedroom Lights          | DVRF-6L                    | Guest Bedroom    |
| Upstairs Hallway Lights       | DVRF-6L                    | Upstairs Hallway |
| Kitchen Lights                | DVRF-6L                    | Kitchen          |
| Kitchen Under Cabinet         | DVRF-6L                    | Kitchen          |
| Hallway Lights                | DVRF-6L                    | Hallway          |
| Garage Lights                 | PD-8ANS-XX (WallSwitch)    | Garage           |
| Basement Lights               | PD-8ANS-XX (WallSwitch)    | Basement         |
| Living Room Main Spot Lights  | DVRF-6L                    | Living Room      |
| Living Room Powder Room Entry | DVRF-6L                    | Living Room      |
| Living Room Pendants          | DVRF-6L                    | Patio            |
| Office Lights                 | DVRF-6L                    | Office           |

| Device               | Model                                    | Area          |
|----------------------|------------------------------------------|---------------|
| Bar Spot Lights      | DVRF-6L                                  | Bar           |
| Kitchen Cabinet Pico | PJ2-1P-GXX (PaddleSwitchPico)            | Kitchen       |
| Kitchen Pico 1       | PJ2-1P-GXX                               | Kitchen       |
| Hallway Pico         | PJ2-1P-GXX                               | Hallway       |
| Master Bedroom Pico  | PJ2-3BRL-GXX-X01 (Pico3ButtonRaiseLower) | Bedroom       |
| Guest Bedroom Pico   | PJ2-1P-GXX                               | Guest Bedroom |
| Living Room Pico     | PJ2-3BRL-GXX-X01                         | Living Room   |

# Lutron Scenes (Smart Bridge 2)

Night · Notifications · Garage · Off garage · Movie downstairs

## Notes

- Garage Lights and Basement Lights are exposed as `switch` entities and then wrapped as `light` entities via the `switch_as_x` integration.
- The Smart Bridge 2 also exposes a "Smart Away" switch that randomly turns lights on/off when away.

# Philips Hue

**Integration:** `hue` | **Hub:** Jeeves Hue Bridge (fw 1.77.1977138000) | **Area:** Hub unassigned

The Hue ecosystem covers the Media Room almost exclusively — providing full RGBW color lighting, scenes, and entertainment sync.

# Devices (11 Hue lights + dimmer + 2 rooms + bridge)

| Device            | Model      | Area            |
|-------------------|------------|-----------------|
| Jeeves Hue Bridge | Hue Bridge | (hub — no area) |

| Device                    | Model                         | Area       |
|---------------------------|-------------------------------|------------|
| Color Lamp 1              | Hue color lamp                | Media Room |
| Color Lamp 2              | Hue color lamp                | Media Room |
| Colour Lamp 3             | Hue color lamp                | Media Room |
| Hue color lamp 2          | Hue color lamp                | Media Room |
| Ceiling White Lamp 1      | Hue white lamp                | Media Room |
| Ceiling White Lamp 2      | Hue white lamp                | Media Room |
| Media Room Ceiling Lamp 3 | Hue white lamp                | Media Room |
| Hue play 1                | Hue play (gradient)           | Media Room |
| Hue play 2                | Hue play (gradient)           | Media Room |
| Hue bloom 1               | Hue bloom                     | Media Room |
| Hue dimmer switch 2       | Hue dimmer switch (fw 2.85.1) | Media Room |
| Media room (Hue Room)     | Room group                    | Media Room |
| Basement (Hue Room)       | Room group                    | Basement   |
| Basement Entryway         | Hue white lamp                | Basement   |

# Hue Scenes (18 Media Room scenes)

Tropical twilight · Relax · Energize · Read · Bright · Rio · Nightlight · Concentrate · Epic Movie Night · Dimmed · Savanna sunset · Movie Night · Arctic aurora

## Notes

- Jeeves Hue Entertainment area 1 binary sensor tracks active Hue Entertainment mode (game/movie sync).
- Two Hue automations ( Hue dimmer switch 2 , Leaving home ) are managed in the Hue app but visible in HA as switch entities.

## Govee

Integration: govee (Cloud) + govee\_ble (Bluetooth) | Area: Bar

## Govee Cloud Devices

| Device          | Model              | Area |
|-----------------|--------------------|------|
| UnderBar Lights | H6159 (LED strip)  | Bar  |
| Bar Bulb 1      | H6008 (color bulb) | Bar  |
| Bar Bulb 2      | H6008 (color bulb) | Bar  |

**Features:** Full RGB color, brightness, Music Mode (audio-reactive lighting).

# Govee BLE Sensors

| Device     | Model                       | Area |
|------------|-----------------------------|------|
| H5075 0409 | Govee H5075 (Temp/Humidity) | Bar  |
| H5075 9768 | Govee H5075 (Temp/Humidity) | Bar  |

These use Bluetooth LE and connect via the host's Realtek Bluetooth adapter.

# Notes

- Govee cloud integration has a pending HACS update (v2026.6.20) — restart required.
- Govee BLE sensors are independent of the cloud integration and unaffected by the update.
- Music Mode is a switch entity per device; when on, the light syncs to ambient audio via the Govee cloud.

# Last Updated

2026-06-24

# Matter & Aqara

## Overview

Matter is handled by the **Matter Server add-on** (v9.0.2). The Aqara ecosystem provides the majority of Matter-bridged devices — two hubs bridge 15+ Aqara devices (water leak sensors, motion sensors, smart locks, wireless switch, temp/humidity sensor) into Home Assistant.

## Matter Hubs

| Hub                 | Model               | Firmware | Purpose                           |
|---------------------|---------------------|----------|-----------------------------------|
| Aqara Hub M2        | Aqara Hub M2        | 4.3.8    | Primary bridge hub (most devices) |
| Aqara Camera Hub G3 | Aqara Camera Hub G3 | 4.5.30   | Secondary bridge + camera         |

Both hubs act as Thread/Matter border routers and connect to HA via the Matter integration.

## Matter Devices

### Via Aqara Hub M2

| Device                       | Model                           | Area                              |
|------------------------------|---------------------------------|-----------------------------------|
| Aqara Water Leak Sensor (×4) | Aqara Water Leak Sensor (sw v6) | (unassigned — multiple locations) |
| Garage Smart Lock            | Aqara Smart Lock U100 (sw 31)   | Garage                            |

### Via Aqara Camera Hub G3

| Device                       | Model                           | Area         |
|------------------------------|---------------------------------|--------------|
| Aqara Water Leak Sensor (×2) | Aqara Water Leak Sensor (sw v6) | (unassigned) |

| Device                           | Model                              | Area             |
|----------------------------------|------------------------------------|------------------|
| Guest Bathroom Water Leak Sensor | Aqara Water Leak Sensor (sw v6)    | Guest Bathroom   |
| Bedroom Temp / Humidity Sensor   | Aqara Temp/Humidity Sensor (sw v5) | Bedroom          |
| Aqara Wireless Mini Switch       | Aqara Wireless Mini Switch (sw v2) | (unassigned)     |
| Upstairs Motion Sensor           | Aqara Motion Sensor P1 (sw v10)    | Upstairs Hallway |
| Garage Motion Sensor             | Aqara Motion Sensor P1 (sw v10)    | Garage           |
| Kitchen Smart Lock               | Aqara Smart Lock U100 (sw 300)     | Kitchen          |
| Downstairs Motion Sensor         | Aqara Motion Sensor P1 (sw v10)    | Media Room       |
| Hallway Aqara Motion Sensor P1   | Aqara Motion Sensor P1 (sw v10)    | Hallway          |

# Key Entity Types

## Water Leak Sensors

Each sensor provides:

- `binary_sensor.*.water_leak` — triggers `Water Leak Alert` automation
- Battery sensors (CR2032 type, voltage, %)

**Deployed locations:** multiple bathroom, kitchen, utility areas (exact sensor-to-location mapping should be labelled on the physical devices).

## Motion Sensors (Aqara P1)

Each provides:

- `binary_sensor.*.occupancy` — used in motion lighting automations
- Battery sensors

| Sensor                         | Area             | Automation                           |
|--------------------------------|------------------|--------------------------------------|
| Upstairs Motion Sensor         | Upstairs Hallway | Motion Activation Upstairs Hallway 2 |
| Garage Motion Sensor           | Garage           | Motion Activation Garage             |
| Downstairs Motion Sensor       | Media Room       | —                                    |
| Hallway Aqara Motion Sensor P1 | Hallway          | Motion Activation Hallway Lights     |

# Smart Locks (Aqara U100)

| Lock               | Area    | State    |
|--------------------|---------|----------|
| Kitchen Smart Lock | Kitchen | locked   |
| Garage Smart Lock  | Garage  | unlocked |

Both provide:

- `lock.*` control entity
- `binary_sensor.*_actuator` — physical bolt status
- Operating mode selector

**Automation:** `Smart Lock Unlocked 30 Min Alert` monitors all locks.

## Wireless Mini Switch (Aqara)

- `event.aqara_wireless_mini_switch_button` — single, double, long press events
- Area: unassigned (portable button)

## Thread

The Thread integration is loaded (entry: `890ec7b4`) and supports Thread networking. The Aqara hubs function as Thread border routers, enabling Thread-based device connectivity in future expansions.

## Notes / Gotchas

- If either Aqara hub goes offline, all devices bridged through it become unavailable in HA. The Hub M2 and Hub G3 are both critical infrastructure.
- The 4 unassigned water leak sensors should be physically labelled and area-assigned in HA (Settings → Devices) to improve observability.
- Kitchen Smart Lock shows `sw v300` while Garage Smart Lock shows `sw v31` — different firmware tracks (U100 has multiple hardware revisions).

## Last Updated

2026-06-24

# Overview - Integrations

## Overview

97 integrations are configured in Home Assistant. 90 are loaded successfully, 5 are in `setup_retry`, and 2 are `not_loaded`. This page provides a complete inventory table.

## State Summary

| State       | Count |
|-------------|-------|
| loaded      | 90    |
| setup_retry | 5     |
| not_loaded  | 2     |

## Integration Inventory

| Integration          | Title                      | Domain           | State  | Source     |
|----------------------|----------------------------|------------------|--------|------------|
| Sun                  | Sun                        | sun              | loaded | import     |
| Google Cast          | Google Cast                | cast             | loaded | zeroconf   |
| Shopping List        | Shopping list              | shopping_list    | loaded | onboarding |
| Google Translate TTS | Google Translate TTS       | google_translate | loaded | onboarding |
| Met.no Weather       | Home                       | met              | loaded | onboarding |
| Radio Browser        | Radio Browser              | radio_browser    | loaded | onboarding |
| Lutron Caseta        | 067cfcc8                   | lutron_caseta    | loaded | zeroconf   |
| Bond                 | My Bridge                  | bond             | loaded | zeroconf   |
| Philips Hue          | Hue Bridge<br>00178826a08c | hue              | loaded | zeroconf   |
| ecobee               | ecobee                     | ecobee           | loaded | user       |

| Integration        | Title                              | Domain              | State              | Source                |
|--------------------|------------------------------------|---------------------|--------------------|-----------------------|
| SpeedTest          | SpeedTest                          | speedtestdotnet     | loaded             | user                  |
| Uptime             | Uptime                             | uptime              | loaded             | user                  |
| Home Assistant iOS | Home Assistant iOS                 | ios                 | loaded             | user                  |
| IFTTT              | IFTTT Webhook                      | ifttt               | loaded             | user                  |
| Version (Core)     | Current Version                    | version             | loaded             | user                  |
| Version (Docker)   | Docker Hub                         | version             | loaded             | user                  |
| DLNA DMS           | Lusankya (×3)                      | dlna_dms            | loaded             | ssdp                  |
| DLNA DMS           | Giga Hub                           | dlna_dms            | loaded             | ssdp                  |
| DLNA DMS           | HDHomeRun DMS                      | dlna_dms            | loaded             | ssdp                  |
| Android TV Remote  | BRAVIA 4K UR2                      | androidtv_remote    | loaded             | zeroconf              |
| HACS               | —                                  | hacs                | loaded             | user                  |
| SmartThinQ Sensors | LGE Devices                        | smarththing_sensors | <b>setup_retry</b> | user                  |
| Google Calendar    | jeeves5454@gmail.com               | google              | loaded             | user                  |
| Local Calendar     | 2074 Donald Cousens House Calendar | local_calendar      | loaded             | user                  |
| Local Calendar     | Car Service                        | local_calendar      | loaded             | user                  |
| Local Calendar     | Markham House Things               | local_calendar      | loaded             | user                  |
| TP-Link            | Smart Plug KP401                   | tplink              | loaded             | user                  |
| TP-Link            | Basement Switch 2 KS205            | tplink              | loaded             | integration_discovery |
| TP-Link            | Living Room Lamp Switch KS205      | tplink              | loaded             | integration_discovery |
| TP-Link            | Porch KS205                        | tplink              | loaded             | integration_discovery |
| TP-Link            | Christmas Plug KP125M              | tplink              | loaded             | integration_discovery |
| TP-Link            | Bathroom Towel Heater KS205        | tplink              | loaded             | integration_discovery |
| TP-Link            | Bathroom Shower Switch KS205       | tplink              | loaded             | integration_discovery |
| TP-Link            | Backyard Light KS205               | tplink              | loaded             | integration_discovery |
| TP-Link            | Bar Sign KP125M                    | tplink              | loaded             | integration_discovery |
| TP-Link            | New Christmas Switch HS103         | tplink              | <b>setup_retry</b> | integration_discovery |

| Integration            | Title                       | Domain                 | State                                   | Source                |
|------------------------|-----------------------------|------------------------|-----------------------------------------|-----------------------|
| TP-Link                | 2774 KS220M                 | tplink                 | <b>not_loaded</b><br>(ignored)          | ignore                |
| TP-Link                | None EP40M                  | tplink                 | <b>setup_retry</b>                      | integration_discovery |
| GE Home                | jeeves5454@gmail.com        | ge_home                | loaded                                  | user                  |
| Midea Dehumidifier LAN | Midea Air Appliance         | midea_dehumidifier_lan | loaded                                  | user                  |
| Emporia Vue            | Customer 233316             | emporia_vue            | loaded                                  | user                  |
| CO2 Signal             | CO2 Signal                  | co2signal              | loaded                                  | user                  |
| Mobile App             | Iceheart                    | mobile_app             | loaded                                  | registration          |
| Mobile App             | iPad (Bacta)                | mobile_app             | loaded                                  | registration          |
| Mobile App             | Rajeev's iPad (Krytos)      | mobile_app             | loaded                                  | registration          |
| go2rtc                 | go2rtc                      | go2rtc                 | loaded                                  | system                |
| ESPHome                | ratgdov2.5i e4d21f          | esphome                | loaded                                  | zeroconf              |
| ESPHome                | Home Assistant Voice 0919e8 | esphome                | loaded                                  | zeroconf              |
| Backup                 | Backup                      | backup                 | loaded                                  | system                |
| Orbit BHyve            | jeeves5454@gmail.com        | bhyve                  | loaded                                  | user                  |
| Motionblinds           | Motionblinds Gateway        | motion_blinds          | loaded                                  | user                  |
| Supervisor (HA OS)     | Supervisor                  | hassio                 | loaded                                  | system                |
| AdGuard Home           | AdGuard Home                | adguard                | loaded                                  | hassio                |
| Bluetooth              | Realtek (40:9C:A7:99:40:DF) | bluetooth              | loaded                                  | integration_discovery |
| Govee BLE              | H5075 0409                  | govee_ble              | loaded                                  | bluetooth             |
| Govee BLE              | H5075 9768                  | govee_ble              | loaded                                  | bluetooth             |
| Matter                 | Matter                      | matter                 | loaded                                  | user                  |
| iBeacon Tracker        | iBeacon Tracker             | ibeacon                | loaded                                  | bluetooth             |
| Ollama                 | http://192.168.1.85:1434    | ollama                 | loaded                                  | user                  |
| Xbox                   | jeeves54                    | xbox                   | loaded                                  | dhcp                  |
| ZHA                    | HA Connect ZBT-1            | zha                    | <b>not_loaded</b><br>(disabled by user) | hardware              |
| switch_as_x            | Garage Lights               | switch_as_x            | loaded                                  | user                  |

| Integration          | Title                           | Domain          | State              | Source   |
|----------------------|---------------------------------|-----------------|--------------------|----------|
| switch_as_x          | Basement Lights                 | switch_as_x     | loaded             | user     |
| switch_as_x          | porch                           | switch_as_x     | loaded             | user     |
| Wyoming              | Whisper                         | wyoming         | loaded             | hassio   |
| Wyoming              | Speech-to-Phrase                | wyoming         | loaded             | hassio   |
| Wyoming              | Piper                           | wyoming         | loaded             | hassio   |
| Wyoming              | openWakeWord                    | wyoming         | loaded             | hassio   |
| Music Assistant      | Music Assistant                 | music_assistant | loaded             | hassio   |
| Apple TV             | Living Room                     | apple_tv        | loaded             | zeroconf |
| Govee                | Govee (Cloud)                   | govee           | loaded             | user     |
| LetPot               | jeeves5454@gmail.com            | letpot          | <b>setup_retry</b> | user     |
| SmartThings          | My home                         | smarthings      | loaded             | user     |
| Eufy Security        | 127.0.0.1                       | eufy_security   | loaded             | user     |
| WebRTC Camera        | WebRTC Camera                   | webrtc          | loaded             | user     |
| IPP Printer          | Xerox B205                      | ipp             | <b>setup_retry</b> | zeroconf |
| MQTT                 | Mosquitto broker                | mqtt            | loaded             | hassio   |
| YoLink               | YoLink                          | yolink          | loaded             | user     |
| VLC Telnet           | core-vlc                        | vlc_telnet      | loaded             | hassio   |
| Alexa Devices        | jeeves5454@gmail.com            | alexa_devices   | loaded             | user     |
| Pushover             | Pushover                        | pushover        | loaded             | user     |
| Reolink              | Driveway                        | reolink         | loaded             | dhcp     |
| Reolink              | Front Yard                      | reolink         | loaded             | dhcp     |
| iQua Softener        | RHW4221-24178-4056              | iqua_softener   | loaded             | user     |
| Home Assistant Cloud | Home Assistant Cloud            | cloud           | loaded             | system   |
| Thread               | Thread                          | thread          | loaded             | zeroconf |
| Samsung TV           | Living room tv (QN55LS03BAFXZC) | samsungtv       | loaded             | zeroconf |
| Samsung TV Smart     | Samsung Frame 55                | samsungtv_smart | loaded             | user     |
| DLNA DMR             | Living room tv                  | dlna_dmr        | loaded             | ssdp     |
| DLNA DMR             | BRAVIA 4K UR2                   | dlna_dmr        | loaded             | ssdp     |
| Dyson Local          | Pure Hot+Cool Link              | dyson_local     | loaded             | user     |

| Integration      | Title             | Domain                         | State  | Source   |
|------------------|-------------------|--------------------------------|--------|----------|
| HA Connect ZBT-2 | HA Connect ZBT-2  | homeassistant_conne<br>ct_zbt2 | loaded | usb      |
| NUT              | a0d7b954-nut:3493 | nut                            | loaded | user     |
| Template         | Outdoor Humidity  | template                       | loaded | user     |
| Analytics        | Analytics         | analytics                      | loaded | system   |
| Zigbee2MQTT      | (via MQTT)        | zigbee2mqtt                    | loaded | mqtt     |
| ZHA (secondary)  | HA Connect ZBT-2  | zha                            | loaded | hardware |

# HACS Custom Integrations

The following integrations are installed via HACS (not built-in):

| Name                       | Author                  | Notes                  |
|----------------------------|-------------------------|------------------------|
| SmartThinQ Sensors         | ollo69                  | LG washer/dryer/fridge |
| SamsungTV Smart            | jaruba, ollo69          | Samsung Frame 55       |
| Emporia Vue                | magico13                | Energy monitoring      |
| GE Home (SmarthQ)          | simbaja                 | GE Oven                |
| Midea Air Appliances (LAN) | nbogojevic              | Dehumidifier           |
| Ontario Energy Board       | jrfernandes, n3rdp1um23 | Energy tariff data     |
| Dyson (local)              | libdyson-wg et al       | Dyson Pure Hot+Cool    |
| Eufy Security              | fuatakgun               | Camera system          |
| Alexa Media Player         | alandtse, keatontaylor  | Alexa integration      |
| Orbit BHyve                | sebr                    | Irrigation             |
| iQua Softener              | mutilator et al         | Water softener         |
| WiCAN                      | jay-oswald              | Vehicle CAN bus        |
| Epic Games                 | hudsonbrendon           | Game library           |
| Govee Cloud                | lasswellt               | Govee lighting         |

# HACS Frontend Plugins

| Name                         | Author       |
|------------------------------|--------------|
| Bubble Card                  | Cloooos      |
| Slider Button Card           | custom-cards |
| Comfortable Environment Card | argaar       |
| Keep Texts in Tabs           | elchininet   |
| Weather Chart Card           | mlamberts78  |
| Energy Sankey Card           | davet2001    |
| Zigbee2mqtt Networkmap Card  | azuwis       |
| TrashCard                    | idaho        |

# Last Updated

2026-06-24

# Security & Cameras — Eufy, Reolink, Frigate

## Overview

The home has a comprehensive security camera system combining **Eufy Security** (indoor/outdoor cameras + doorbells) and **Reolink** (PoE floodlight cameras), processed locally by **Frigate NVR** (add-on v0.17.1). All cameras stream via go2rtc (built-in) and WebRTC.

## Camera Inventory

| Camera               | Manufacturer  | Model                    | Integration   | Area         |
|----------------------|---------------|--------------------------|---------------|--------------|
| Living Room          | Eufy Security | T8416                    | eufy_security | Basement*    |
| Basement             | Eufy Security | T8410                    | eufy_security | Basement*    |
| Backyard             | Eufy Security | T8424                    | eufy_security | Backyard     |
| Garage               | Eufy Security | T8441                    | eufy_security | Garage       |
| Front Door           | Eufy Security | T8530                    | eufy_security | (unassigned) |
| Back door doorbell   | Eufy Security | T8214                    | eufy_security | (unassigned) |
| Front Doorbell Chime | Eufy Security | T8021                    | eufy_security | (unassigned) |
| Driveway             | Reolink       | Elite Pro Floodlight PoE | reolink       | Garage       |
| Front Yard           | Reolink       | E1 Outdoor SE PoE        | reolink       | Front Yard   |

\*Living Room (T8416) and Basement (T8410) cameras are physically in those rooms but associated with the Eufy HomeBase in the Basement.

## Eufy Security

**Integration:** `eufy_security` (HACS) | **Host:** 127.0.0.1 | **Add-on:** eufy-security-ws v3.0.1

The Eufy integration connects via the local WebSocket server (eufy-security-ws add-on), providing camera streams and sensor data without relying on cloud.

# Infrastructure

| Device        | Model | Firmware |
|---------------|-------|----------|
| Eufy HomeBase | T8030 | 3.8.3.4  |
| Eufy Passport | T87B2 | 1.5.6    |

“ The HomeBase is the central hub for all Eufy cameras. It must be running for any Eufy entity to be available.

# Per-Camera Features

Each Eufy camera exposes:

- camera.\* — live stream
- image.\*.event\_image — last motion event snapshot
- alarm\_control\_panel.\* — arm/disarm (all currently armed\_home )
- Motion detection switches (Human, Pet, Vehicle, etc.)
- Notification switches (Person, Pet, Crying, Sound)
- RTSP stream switch
- Microphone / Speaker switches (where applicable)
- Audio Recording switch

# Doorbells

| Device               | Model | Notes                                                           |
|----------------------|-------|-----------------------------------------------------------------|
| Front Door           | T8530 | Video doorbell; Front Yard area                                 |
| Back door doorbell   | T8214 | Video doorbell; Back door                                       |
| Front Doorbell Chime | T8021 | Wireless chime;<br>alarm_control_panel.front_doorbell_chi<br>me |

# Reolink

**Integration:** `reolink` (native HA) | **Source:** DHCP discovery

## Driveway Camera

- **Model:** Elite Pro Floodlight PoE
- **Firmware:** v3.2.0.5932\_2601201959
- **Area:** Garage
- **Entities:** Driveway Fluent (RTSP), Driveway Floodlight, Driveway Siren, Driveway Volume, Vehicle/Person/Pet binary sensors, Infrared mode, AI Detection type selector, Motion sensitivity number

## Front Yard Camera

- **Model:** E1 Outdoor SE PoE
- **Firmware:** v3.1.0.5223\_2510172104
- **Area:** Front Yard
- **Entities:** Front Yard Camera, Floodlight, Siren, Auto tracking, Guard return, AI detection, Motion sensitivity, FTP/Email/Push notification switches

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## Frigate NVR

**Add-on:** `ccab4aaf_frigate` v0.17.1 | **State:** started

Frigate provides local real-time object detection for IP cameras using hardware-accelerated inference. It integrates with HA via the MQTT integration and the `frigate` integration (HACS).

“Frigate configuration (cameras, detectors, zones, objects) is managed in the Frigate add-on config file, not in HA directly.

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## go2rtc & WebRTC

**go2rtc** is a built-in HA integration (system) that provides camera stream proxying, RTSP-to-WebRTC conversion, and low-latency viewing in the HA frontend.

**WebRTC Camera** (HACS, AlexxIT) provides enhanced WebRTC card support for dashboards.

---

# Notes / Gotchas

- All Eufy cameras depend on the HomeBase. Power-cycle or network loss of the HomeBase will take all Eufy entities offline simultaneously.
- Front Door (T8530) and Back Door Doorbell (T8214) have no area assignment — these should be added to appropriate areas for better dashboard organization.
- Reolink cameras are discovered via DHCP — ensure they have static IP reservations in the router to prevent config entry issues after reboots.
- The Eufy integration uses a local WebSocket bridge (eufy-security-ws) — avoid using the Eufy cloud app to log out or change account settings, as this can invalidate the local bridge credentials.

## Last Updated

2026-06-24

# Voice & AI Integrations

## Overview

The home runs a fully **local voice pipeline** using HA's Assist framework. All components — wake word detection, speech-to-text, text-to-speech, and LLM conversation — run on local hardware with no cloud dependency. HA Cloud is also configured as a fallback/alternative.

## Voice Pipeline Architecture

```
Microphone (HA Voice PE)
    ↓
Wake Word: openWakeWord
    ↓
STT: Whisper (local) or Speech-to-Phrase (local) or HA Cloud
    ↓
Intent / LLM: Home Assistant Assist OR Ollama (qwen3:4b)
    ↓
TTS: Piper (local) or Google Translate or HA Cloud
    ↓
Speaker (HA Voice PE)
```

## Hardware

### Home Assistant Voice PE

**Device:** Home Assistant Voice 0919e8 | **Manufacturer:** Nabu Casa | **Model:** Home Assistant Voice PE | **ESPHome:** 2026.3.2 | **Area:** Bedroom

The dedicated voice satellite device for local Assist.

| Entity                                                                     | Notes              |
|----------------------------------------------------------------------------|--------------------|
| <code>assist_satellite.home_assistant_voice_0919e8_assist_satellite</code> | Satellite control  |
| <code>media_player.home_assistant_voice_0919e8</code>                      | Audio playback     |
| <code>light.home_assistant_voice_0919e8_led_ring</code>                    | LED ring indicator |
| <code>switch.home_assistant_voice_0919e8_mute</code>                       | Microphone mute    |
| <code>switch.home_assistant_voice_0919e8_wake_sound</code>                 | Chime on wake      |
| <code>event.home_assistant_voice_0919e8_button_press</code>                | Physical button    |
| <code>select.home_assistant_voice_0919e8_assistant_2</code>                | Pipeline selector  |

# Wake Word Detection

**Add-on:** openWakeWord v2.1.0 | **Wyoming protocol**

openWakeWord is an open-source wake word detection library. It processes the audio stream locally to detect activation phrases before sending to STT.

| Integration                         | Entry                                   |
|-------------------------------------|-----------------------------------------|
| <code>wyoming</code> (openWakeWord) | <code>01KSAJTKT9G4SPH8F262Y0R656</code> |

**Entity:** `wake_word.openwakeword`

# Speech-to-Text (STT)

Two local STT options + HA Cloud:

| Option                  | Add-on                | Version | Notes                            |
|-------------------------|-----------------------|---------|----------------------------------|
| <b>Whisper</b>          | core_whisper          | 3.2.0   | General-purpose neural STT       |
| <b>Speech-to-Phrase</b> | core_speech-to-phrase | 1.4.3   | Fast, intent-optimized local STT |
| <b>HA Cloud</b>         | —                     | —       | Nabu Casa cloud fallback         |

**Recommended:** Speech-to-Phrase for speed; Whisper for accuracy with free-form speech.

# Text-to-Speech (TTS)

| Option           | Add-on            | Notes                      |
|------------------|-------------------|----------------------------|
| Piper            | core_piper v2.2.2 | Local neural TTS (English) |
| Google Translate | —                 | Cloud TTS (en-com)         |
| HA Cloud         | —                 | Nabu Casa cloud TTS        |

**Entity:** `tts.piper`, `tts.google_translate_en_com`, `tts.home_assistant_cloud`

---

## Conversation / LLM

### Home Assistant (Assist)

**Entity:** `conversation.home_assistant` — built-in intent recognition for HA commands.

### Ollama (Local LLM)

**Integration:** `ollama` | **Host:** `http://192.168.1.85:11434` | **Model:** `qwen3:4b-instruct` | **Firmware:** 4b-instruct

Ollama runs a local LLM on the home server at 192.168.1.85. The `qwen3` model (4B parameters, instruction-tuned) handles natural language conversations and complex commands beyond Assist's built-in intents.

**Entity:** `conversation.ollama_conversation`

“ The Ollama server at 192.168.1.85 must be running for this conversation agent to be available. HA Assist falls back to the built-in agent if Ollama is unreachable.

## Home Assistant Cloud (Nabu Casa)

**Integration:** `cCloud` | **Status:** loaded

Nabu Casa Cloud provides:

- Remote access (no port forwarding required)
  - Cloud STT/TTS as fallbacks
  - Google Assistant / Amazon Alexa voice control relay (if configured)
  - Webhook relay for IFTTT and mobile notifications
- 

## Notes / Gotchas

- The `select.home_assistant_voice_0919e8_assistant_2` entity allows switching the Voice PE between different conversation pipelines (e.g., Assist built-in vs Ollama).
- Whisper accuracy improves with higher model variants — the add-on may be configured with a small model for speed; check the add-on config for model selection.
- Speech-to-Phrase is purpose-built for HA commands and significantly faster than Whisper for home control tasks.
- Google Translate TTS requires internet access; Piper works fully offline.

## Last Updated

2026-06-24

# Zigbee — Zigbee2MQTT + ZHA + HA Connect ZBT-2

## Overview

Zigbee is the primary short-range wireless protocol for sensors and smart plugs. The home uses a single **HA Connect ZBT-2** USB stick as the Zigbee coordinator, running **Zigbee2MQTT** (the primary active stack). ZHA is also installed but is **disabled by the user** to avoid coordinator conflicts.

## Hardware

| Component      | Details                                  |
|----------------|------------------------------------------|
| Coordinator    | Home Assistant Connect ZBT-2 (Nabu Casa) |
| IEEE Address   | 44:e2:f8:ff:fe:8c:7d:98                  |
| Firmware       | EmberZNet Zigbee 7.5.1.0                 |
| Active Stack   | Zigbee2MQTT 2.12.0                       |
| Disabled Stack | ZHA (disabled_by: user)                  |

## Zigbee2MQTT

**Add-on version:** 2.12.0-1 | **Bridge device:** 723747744690709ec853190a975e567b

Zigbee2MQTT communicates via the **Mosquitto MQTT broker** add-on. All Zigbee device data flows through MQTT topics.

## Zigbee2MQTT Devices

| Device | Manufacturer | Model | Area |
|--------|--------------|-------|------|
|--------|--------------|-------|------|

|                              |               |                                 |              |
|------------------------------|---------------|---------------------------------|--------------|
| Zigbee2MQTT Bridge           | Zigbee2MQTT   | Bridge                          | (system)     |
| Bedroom Gen1 Soil Sensor     | Third Reality | Smart Soil Moisture Sensor      | (unassigned) |
| Living Room Gen1 Soil Sensor | Third Reality | Smart Soil Moisture Sensor      | (unassigned) |
| Media Room Gen1 Soil Sensor  | Third Reality | Smart Soil Moisture Sensor      | (unassigned) |
| Outdoor1 Gen2 Soil Sensor    | Third Reality | Smart Soil Moisture Sensor Gen2 | (unassigned) |
| Outdoor2 Gen2 Soil Sensor    | Third Reality | Smart Soil Moisture Sensor Gen2 | (unassigned) |
| Outdoor3 Gen2 Soil Sensor    | Third Reality | Smart Soil Moisture Sensor Gen2 | (unassigned) |
| Generic Gen2 Soil Sensor     | Third Reality | Smart Soil Moisture Sensor Gen2 | (unassigned) |
| Living Room 4 Button Switch  | Tuya          | Wireless 4-button switch        | Living Room  |
| Christmas Lights Living Room | Third Reality | Zigbee/BLE smart plug           | (unassigned) |
| Upstairs Hallway Switch      | Third Reality | Zigbee/BLE smart plug           | (unassigned) |

Bridge entities:

- `switch.zigbee2mqtt_bridge_permit_join` — enable Zigbee device pairing
- `binary_sensor.zigbee2mqtt_bridge_connection_state`
- `sensor.zigbee2mqtt_bridge_signal_level` (Bar Shelves sensor)

# Soil Sensors

Third Reality soil moisture sensors are the backbone of the **Plants dashboard**. They report temperature, humidity, and soil moisture levels.

| Sensor           | Generation       | IEEE                             |
|------------------|------------------|----------------------------------|
| Bedroom Gen1     | Gen1 (3RSM0147Z) | <code>0xfffffb40e0605ce4d</code> |
| Living Room Gen1 | Gen1 (3RSM0147Z) | <code>0xfffffb40e0605cc50</code> |
| Media Room Gen1  | Gen1 (3RSM0147Z) | <code>0xfffffb40e0605e062</code> |
| Outdoor1 Gen2    | Gen2             | <code>0x7c3e82d6dc780000</code>  |
| Outdoor2 Gen2    | Gen2             | <code>0x7c3e82d6f52a0000</code>  |
| Outdoor3 Gen2    | Gen2             | <code>0x7c3e82d716ef0000</code>  |
| Generic Gen2     | Gen2             | <code>0x7c3e82d6f3ff0000</code>  |

These sensors also have ZHA registrations (Soil Sensor 1, 2, 3) — this is because the same coordinator serves both Zigbee2MQTT and ZHA paths, but ZHA is disabled. The ZHA sensor entities may appear but are likely inactive.

## ZHA (Disabled)

ZHA is configured but **disabled by the user** (`disabled_by: user`). The original entry `01KGV9QD6568DF9P3S4JQE53X8` (HA Connect ZBT-1) is not loaded.

A second ZHA entry for the ZBT-2 (`homeassistant_connect_zbt2` hardware integration) is loaded but only provides the hardware device — Zigbee traffic goes through Zigbee2MQTT.

## Notes / Gotchas

- Do not enable ZHA while Zigbee2MQTT is active — both cannot share the same coordinator simultaneously.
- The `permit_join` switch should be turned off when not actively pairing devices (security best practice).
- Third Reality Gen1 soil sensors (3RSM0147Z) appear in both ZHA device registry (paired historically) and Zigbee2MQTT — the active entities are the Zigbee2MQTT ones.
- Upstairs Hallway Switch (Third Reality Zigbee plug) acts as a Zigbee mesh router, extending coverage to the 3rd floor.
- Christmas Lights Living Room (Third Reality plug) is seasonal and may be physically disconnected.

## Last Updated

2026-06-24