Plugwise-HA project:

1. **Setup: Stretch 2.7** with 1 x Circle F+ and 6 x Circle F. Using HA Plugwise integration did not work due to issues with the Stretch firmware. After various tests I dismounted the Stretch USB stick.
2. **Setup: USB Stick in Windows PC**, latest version of Plugwise Source SW installed (obtained from Plugwise B.V.) Plugwise Network runs fine…al plugs detected and manageable. (Manual on/off, grouping, assigning rooms, various report hour/day/week/month), etc…(will refer to this as PC/USB in the future) After running this for a couple of days, I powered down the PC, disconnected the Plugwise USB stick and moved the stich to a HA Pi-4
3. **Setup: USB stick in Raspberry Pi 4** with latest version of HA and the Plugwise beta integration (version V09.4.a9 now) same number plugs 6xCircle and 1x Circle+. Used HACS to do the install of the Plugwise beta integration. This configuration runs, however from to time I lose one or more Circles in the configuration (greyed-out on the HA Overview Dashboard). Looking at the Sensor entities, the “value” is replaced by “Unavailable”. On the HA DevTools / States overview entities marked “unavailable” have attributes “restored: true” and “supported\_features: 0”

So far I have found no consistent procedure to activate the unavailable entities. I did have random successes with: Supervisor/system/ restart core or restart supervisor

Tried to experiment with a number of external conditions like:

Repositioning of a Circle in a another wall-outlet : Is grouding required? Is there a preferred position (phase/neutral switching)?

Are there known issues with interference from other Zigbee networks? I do use a Philips Hue bridge with a number of sensors and LED’s as well in the same rooms.

Ping value: Is this ping-timing between the Circle+ and other Circles, or is it between the Stick and the Circles (including the Circle+), noticed that longer ping times could increase the possibility of disconnecting a Circle.

What is the meaning of outbound RSSI and inbound RSSI entities? Is this the signal loss between the sending Circle+ and the receiving Circle, or is it between the Stick and various Circles? Can I use this to better position Circles? Are there min/max values?

What about meshing. I noticed that a disconnected Circle could be only 10 cm!! away from a Circle that remains active in the network.

As the Stretch had an external antenna, is this a known option for a single Stick as well?

Is there an option to force a rescan of the Plugwise network? Notices a retry counter in the HA Error log, with an error count of 3 as a max. Can this count be increased / adjusted?

Is there an option to manually add a Circle? Once it is lost.

Location of USB ports used on the Pi (one USB 3.0 port in use for (boot + storage) SSD