

All OS versions

CC26XX radio modules (Texas instruments) freeze / hang / crash

Known problem for a long time

What happened?

CC2652P, CC2652P7, and CC2674P10 have a critical bug in the SDK and may hang, especially under high load.

Main symptom: "Error: SRSP - SYS - ping after 6000ms" error, i.e. the radio module is no longer sending any traffic.

In this state, the radio module may also not respond to RST pin, so sometimes this requires a physical power cycle.

Solution

Partial solution: limit traffic in the ZigBee network, remove spamming ZigBee devices. This will postpone the problem but will not solve it completely.

Complete solution: no complete solutions have been found yet.

Spontaneous device reboots: TASK_WDT

What happened?

The device reboots from time to time with the reboot reason TASK_WDT.

Solution

Usually the cause is spam mDNS traffic on your network.

The device can handle traffic of up to about 1000 multicast packets per second, if the flow is higher the device will reboot after a while.

To resolve this you need to do one of the following:

Disabling mDNS

Completely disable mDNS traffic at the router level or on the "Network" page in the coordinator settings.

Will work if you are not using mDNS and are not using Thread.

Finding the source of multicast traffic

Yes, you need to analyze and find the device that is spamming the network. What to do with this device is up to you. Usually, the device that generates such traffic have a bug in its firmware.

Additional router settings

IGMP Snooping in combination with the settings in the card below can help

IGMP Snooping ⓘ



Networks

PRIVATE (1) TEST (100) GASTEN (101)
UNTRUSTED (112)

Querier Selection ⓘ

☒ Primary / Failover  ☐ Advanced ⓘ ☐ Off (3rd Party Switches)

Primary

USW Pro Max 16 PoE

[Add Failover](#)



Auto Unknown Traffic Handling ⓘ



Fast Leave ⓘ

PRIVATE (1) TEST (100) GASTEN (101)
UNTRUSTED (112)

Switch Subscription Pool ⓘ

☒ All ☐ Custom

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