

Application



Failure (F1): Android app shows D3 as a sensor instead of a lamp.

1

Failure (F2): Android app crashes after trying to turn off D3.

2

F2 Root Cause: Bug in the Android app code

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Cloud



F2 Candidate Cause: Compatibility issue of the home automation server and G2

3

Edge



G1



G2

Failure (F3): D3 has been misidentified by the G1 gateway.

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F1&F3 Root Cause: Bug in the firmware of the gateway device

7

F1&F3 Solution: Reset the gateway and lamp and pair them again.

8

Device



D1



D2



D3

F1 Candidate Cause: Device-gateway pairing process

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F1 Candidate Cause: Device payload data format

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