Agile Network Uncontrolled Switch to Idle Mode

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Bulletin Applicability

This bulletin applies to Agile Wireless Fire Detection System, all brands, and all devices.

The Issue

Unexpected and uncontrolled switching of Agile network to idle mode while the gateway remains powered.

The Correction

Total loss of communication between gateway and back-up node has been identified as the root cause of the uncontrolled switching of Agile network to idle mode. This situation might occur when the backup node is too far or too close to the gateway.

Agile design guide (A05-0473-011) prescribes a minimum distance between all nodes of 1m, though an insufficient attenuation between two devices has been recorded even above 1m of distance in some environments, therefore resulting in antenna saturation and drop of message quality between two nodes.

The proximity link prescription therefore will be strengthened with two conditions:

- 1. minimum distance between nodes = 1meter
- 2. minimum attenuation between nodes = 20dB

This new prescription is especially critical for backup node. Not following 20dB attenuation prescription between gateway and back-up node might lead to network switch back to idle mode.

Document amendment

On page 9 of document A05-0473-011 Agile Wireless Fire Detection System, chapter "RF DO'S AND DON'TS" the sentence will be strengthened:

"Do ensure a minimum separation distance of 1m between neighbouring RF devices in all directions" AND "Do ensure a minimum attenuation of 20dB between neighbouring RF devices in all directions".

The picture associated with this point will be modified to include attenuation reading between to neighbouring nodes.



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