

PTC IoT Vignette

The 'roost' Smart Battery

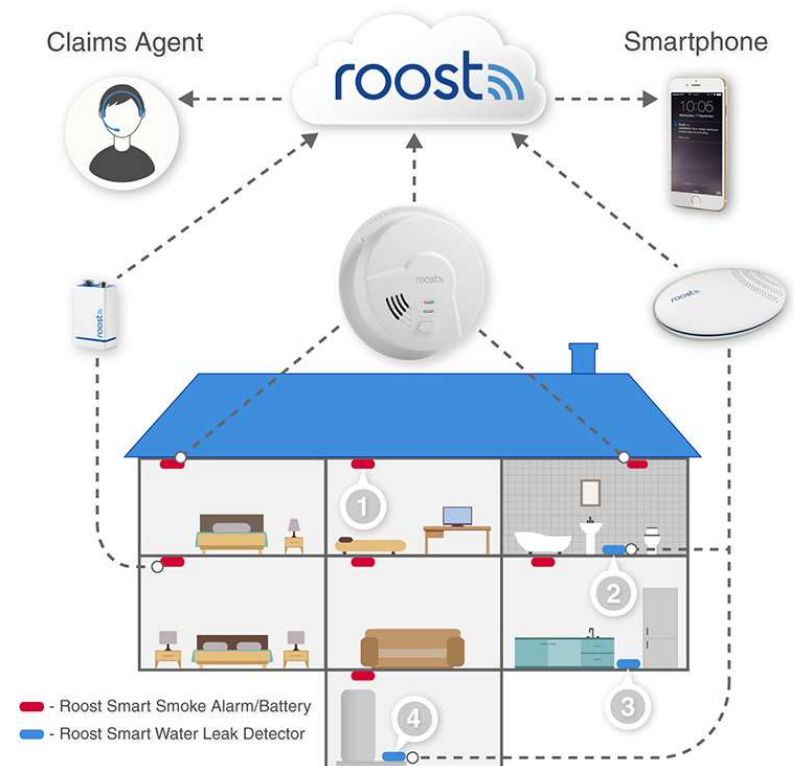


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Enhancing the protection of your home against fire and water damage

- Fit the 'roost' smart battery to your existing smoke and water leak detectors and
 - Get notified when an alarm is triggered when you are away from the house
 - Get notified when the batteries need replacing
 - Ask your insurance company for a better rate now you've improved your fire and water leak detection



Components of the **roost** Smart Battery?

➤ *Physical*

- *A smart replacement for a standard 9V battery*
- *A plug & replace retrofit for existing alarms*

➤ *Sensors*

- *Detect battery low voltage*
- *Detect Alarm activation*

➤ *Connectivity*

- *WiFi*
- *Access 'roost' over the Internet with an accompanying smartphone app*
 - *download the app for free on iOS or Android*



Capabilities of the **roost** Smart Battery

✓ Monitoring

- ✓ *'roost' detects activation of the alarm it is fitted to and sends notification via the cloud to the accompanying smartphone app*
- ✓ *'roost' monitors itself and sends notification to the smartphone app when its charge is running low*

✓ Control

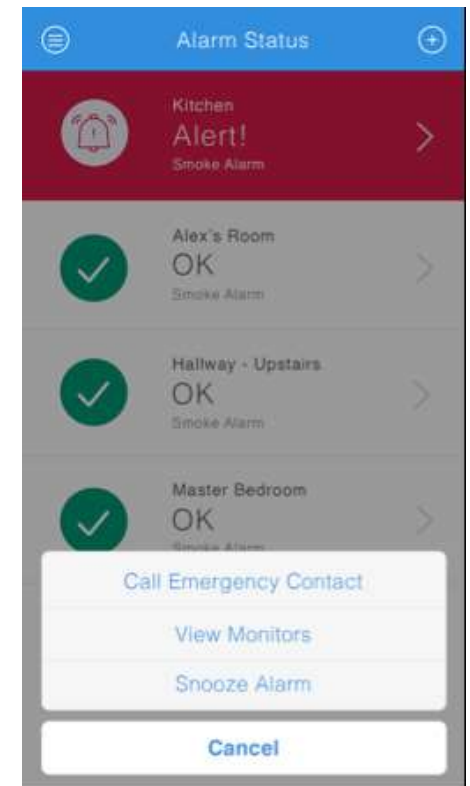
- ✓ *False alarms such as smoke from cooking can be silenced from the app – no need to get a step ladder or stand on a chair to reach the alarm cancel button*

✓ Optimise

- ✓ *Solution could be expanded to include other sensors – eg. carbon monoxide detectors*

✓ Automate

- ✓ *The emergency alert can also be sent to trusted 3 parties such as friends or family for peace of mind when you are away from home*



Why makes sense

- In 2008, battery-powered smoke alarms failed to operate in 36% of UK fires where a smoke alarm was present, mainly because of missing or flat batteries. Ref > [BRE](#) DG525
- In the third quarter of 2013 alone, over £270 million of damage to domestic property in the UK was caused by fire. Ref > AXA
- *Some fire protection services offer a battery replacement notification service – simply enter you mobile phone number or email address and the date the alarm battery was installed on a form on their website they will send you a reminder to replace it.*