Affected Product
Johnson Controls has identified products that are impacted by the Bluetooth "KNOB" vulnerability. These directly affected products are identified on the main JCI product security web page: https://www.johnsoncontrols.com/cyber-solutions/security-advisories. The PSA IDs for each product specific advisory has common root followed by ".x" where x is the instance number (JCI-PSA-2019-08.x)

Overview
A researcher has identified a vulnerability that affects Bluetooth devices that employ Bluetooth BR/EDR Bluetooth Core specification versions 1.0 through 5.1. This vulnerability could allow an unauthenticated user to compromise the integrity of the encryption key used by such devices.

Impact
The KNOB vulnerability can potentially cause information disclosure and/or escalation of privileges via adjacent access.

Mitigation
Refer to respective Product Security Advisories.

For products that provide the ability to disable Bluetooth, we recommend that Bluetooth be disabled. Disabling may require a software configuration, a hardware switch, removal of the module or removing power to the module. If Bluetooth cannot be disabled on a product with this wireless interface, we recommend that the component be taken out of service until an update that addresses this issue is made available by the developer of the relevant Bluetooth radio. Refer to the affected product advisories as noted above for product specific mitigation details.

Scope
The scope of this mitigation is limited to the intended functionally and documented use of a product or solution. Any use of Bluetooth on a computer or device beyond what is supported by Johnson Controls will need to be addressed independently with the manufacturer of that component.

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Resources
Please visit the Cyber Solutions Website [https://www.johnsoncontrols.com/cyber-solutions/security-advisories](https://www.johnsoncontrols.com/cyber-solutions/security-advisories) to access security advisories.

Find out more about CVE-2019-9506 from [NIST National Vulnerability Database (NVD)](https://nvd.nist.gov/vuln/detail/CVE-2019-9506) and [MITRE CVE® List](https://cve.mitre.org/

Where can I go for the authoritative version of the Bluetooth research paper? [https://www.usenix.org/conference/usenixsecurity19/presentation/antonioli](https://www.usenix.org/conference/usenixsecurity19/presentation/antonioli)