

# Indoor air quality audit service

Two-week audit provides clear direction



## 1. Solution overview

The OpenBlue Indoor Air Quality (IAQ) Audit Service combines Johnson Controls technology and deep expertise to help building owners unlock the full value of their people, resources and investments.

Sensors are used to measure key IAQ factors and transmit the data to a cloud-based platform where it's analyzed by AI and Johnson Controls air quality specialists. IAQ site analyses and recommendations for improvements are provided to the customer so they can maintain and enhance the IAQ in their facility.



The power behind **your mission**

## 2. General cybersecurity features – architecture and data flow

The OpenBlue Indoor Air Quality (IAQ) Audit Service is designed to operate independently of your network; avoiding the introduction of additional risk impacting your sensitive data.

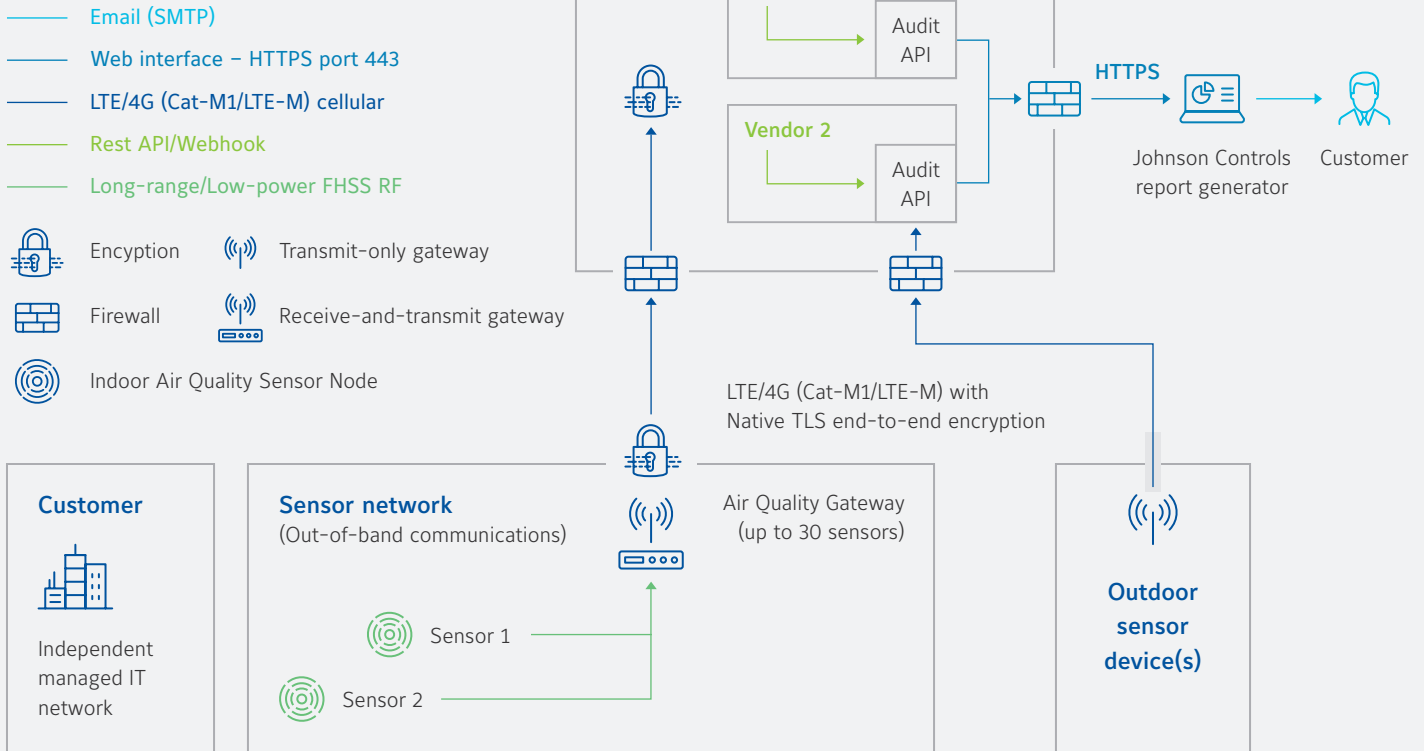
- **Isolated temporary service:** no connection to your network
- **Local encryption:** IEEE802.15.4 wireless sensor network (EDCH 128-bit AES)
- **Edge to cloud encryption:** no interpretation of data is made in the middle
- **Cellular LTE data delivery to cloud:** no firewall ports to open (HTTPS/TLS1.2 encryption)
- **Data obfuscation:** data sent by serial number and mapped later in the cloud
- **No privacy data:** no personal identifiable information will be obtained or stored
- **No video or audio recording:** only measures decibel levels in the noise sensor
- **Automatic updates:** security patches applied automatically with no interaction

# Cybersecurity sheet

## 3. Architecture and data flow

The security data flow diagram below shows where IAQ data is collected, stored and accessed. Please note the specifics of this flow depend on the components chosen by our customer and how the solution is deployed in their facility.

### Cloud – Data ingested into:



Sensor device(s) collect a myriad of data points and report into a central gateway/hub device via proprietary long-range/low-power FHAA RF transmission, all while maintaining a completely segregated and out-of-band network from the host infrastructure or host facility's current IT networks. Air Quality Gateway device solely connects to cloud delivery service through LTE/4G cellular connect.

The OpenBlue Indoor Air Quality Audit Service is part of a suite of solutions that can make a dramatic difference to the health, comfort and productivity of building occupants.

For more information visit the Johnson Controls OpenBlue Indoor Air Quality website:  
[www.johnsoncontrols.com/openblue/openblue-healthybuildings/iaq-as-a-service](http://www.johnsoncontrols.com/openblue/openblue-healthybuildings/iaq-as-a-service)

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