

PARTNER SOLUTION OVERVIEW

Aruba & IP Video

Vape detection and environmental monitoring for smart buildings

In 2016, the U.S. Food and Drug Administration (FDA) mandated that electronic cigarettes (e-cigarette) products be regulated as tobacco products, and subsequently banned the sale of these products to minors. That same year, a World Health Organization (WHO) report recommended that e-cigarettes be banned in indoor areas and wherever smoking is prohibited. Since then, governments worldwide have enacted laws that prohibit e-cigarette usage (vaping) everywhere that smoking is banned.

The challenge has been how best to enforce no-vaping rules since the vapors can be difficult to detect. E-cigarette vapor contains ammonia, and the first vaping detection sensors simply detected when a preset level of ammonia was present and triggered an alarm. The problem is that many common products contain ammonia, resulting in a high false alarm rate.

A more reliable solution is to use two different sensors to detect ammonia and other chemicals present in e-cigarette vapors. These dual-trigger sensors have a much lower false alarm rate and raise confidence that a vaping alert is valid.

IP Video is a New York-based developer of smart building and physical security sensors. Their Halo Industrial Internet of Things (IIoT) Smart Sensor is a multi-function security and environmental monitoring device that contains chemical and environmental sensors, audio analytics, and a voice synthesizer.

WHY ARUBA & IP VIDEO?

- Dual vape detection sensors for reliable alerting and fewer false alarms
- Audio analytics for detection of aggression
- Air quality and environmental monitoring sensors included
- Leverages existing Aruba wired infrastructure
- Certified joint interoperability



Figure1: IP Video HALO smart sensor

Aruba and IPVideo have partnered to integrate Aruba wired infrastructure with IPVideo Halo IIoT sensors to better enforce no-vaping rules, and monitor for other signs of danger in education, hospitality, healthcare, and industrial applications.

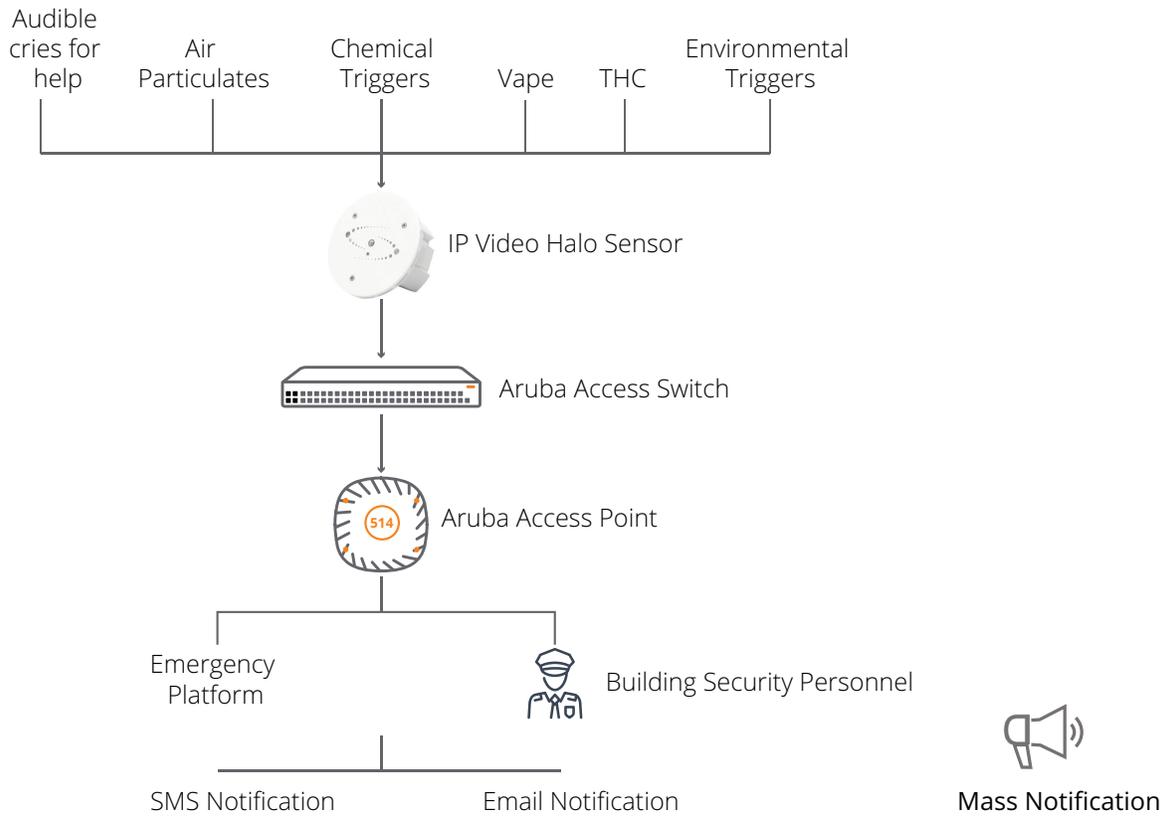


Figure 2: Aruba and IP Video joint solution diagram

HOW IT WORKS

IP Video and Aruba have collaborated to combat vaping through automated sensing and response. Powered by Aruba PoE pass-thru access points and PoE switches, IPVideo HALO smart sensors detects vaping and THC using dual-triggers to reduce false alarms. HALO incorporates multiple sensors so it can serve additional roles. On-board sensors can detect particulates, carbon dioxide, carbon monoxide, volatile organic compounds (VOCs), oxidizing agents, and ethanol. These features also make HALO well suited to air quality and environmental monitoring applications. Audio monitoring enables HALO to detect gunshots, cries for help, and

aggression using key word alerting, while a voice synthesizer lets HALO respond to occupants with context-appropriate messages, i.e., in response to a verbal request for “help” HALO can respond that “help is on the way”. Voice detection and response are processed locally, not in the cloud, to ensure that privacy is maintained. HALO also has a built-in tamper detection alert.

When the sensor is triggered, alerts can be sent by email or SMS text alerts to access control systems, 3rd party emergency platforms, or emergency personnel.



Figure 3: IP Video HALO sensor inputs

CERTIFIED INTEROPERABLE

We've taken the guesswork out of deploying IP Video HALO smart sensors. Set-up is a breeze. This certified joint solution allows deployments to be set up faster and simplifies maintenance of the completed solution.

SUMMARY

The Aruba and IP Video joint solution provides peace of mind to organizations across many industries in need of a reliable vaping, bullying, and environmental monitoring solution.

To learn more about Aruba network switches:
<https://www.arubanetworks.com/products/switches/>

DEPEND ON IP VIDEO



IP Video creates smart sensors for smart building and physical security. They are currently based out of New York, New York.

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