

# IoT Security 360° Catalog powered by Microsoft

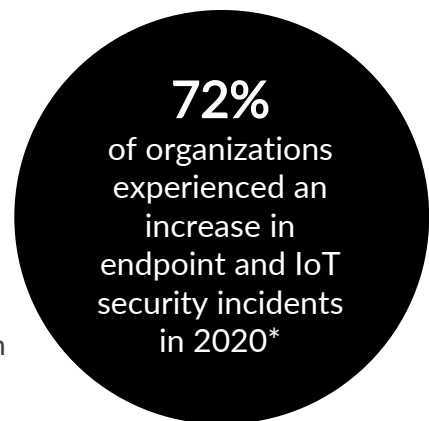
## A Comprehensive View of IoT Devices and Supporting Assets

It is estimated that 127 new IoT devices are connected to the internet every second<sup>1</sup>.

### How prepared are you to identify your endpoints and secure your IoT ecosystem?

With every new IoT device (conference room system, HVAC controller, electronic door lock, smart watch, camera, barcode scanner, etc.) that comes online and connects to your network, a new endpoint is introduced that must be secured and maintained. Often these devices are unmanaged or “unknown” to your IT and security staff, putting your organization’s network at risk and vulnerable to compromise.

Powered by Microsoft Azure, Protiviti’s IoT Security 360° Catalog is a comprehensive framework for analyzing your IoT ecosystem, preparing you to identify IoT vulnerabilities and close the gaps. Our thorough process identifies known and unknown IoT assets, policies, and documentation; setting the foundation for establishing your IoT security strategy and assessing your readiness for securing IoT devices in your network.



## Our Approach



### Inventory Your IoT Assets

- Leveraging Microsoft Azure Defender for IoT, we will compile a comprehensive catalog of your IoT devices – both actively managed and unknown<sup>^</sup> devices/assets connected to your network to provide visibility into future risks.



### Identify Policy & Procedure Gaps

- We’ll review your IoT security policies and procedures to identify incomplete standards or areas where you are out of compliance with the latest IoT cybersecurity standards per NIST, ISO, EST, and the IoT Security Foundation guidelines.



### Assess Your IoT Ecosystem

- We’ll evaluate maturity across 25 categories, providing visibility into the unknown risks and potential gaps that may impact your organization.



### Outline a Roadmap and Drive Accountability

- We’ll provide actionable recommendations and guidance for the appropriate next steps in your security journey.

<sup>1</sup> Security Today: The IoT Rundown For 2020: Stats, Risks, and Solutions

\*Cybersecurity Insiders: 2020 Endpoint IoT Zero Trust Security Report

<sup>^</sup>May require physical monitoring equipment

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## Securing the Ecosystem

After completing your Protiviti's IoT Security 360° Catalog, you will have visibility into your IoT assets, policy or procedural gaps, and IoT ecosystem maturity evaluated across 25 key categories. These results will provide guidance on recommended next steps, if any, to address key findings through one or more of these IoT lifecycle security stages:

### Risk Assessment



Evaluate exposure and impact of both business and technical risks, determine which compliance standards apply and benchmark your organization against those standards.

### Policy Creation and Adaptation



Address known gaps, develop and implement periodic review processes, and establish configuration management processes.

### Testing and Mitigation



Perform comprehensive security testing, including penetration and privacy. Evaluate real-world implementation of IoT devices against defined standards and controls. Provide pragmatic recommendations to address identified security issues.

### Proactive Monitoring



Implement monitoring tools, such as the Microsoft Azure Sentinel and Defender Suite, and instantiate or update monitoring programs. Enhance and scale SOC/NOV capabilities to tailor for IoT devices specifically.

## Global Hospitality Organization

### Client Challenge

Client was reimagining the connected hotel of the future. They wanted to utilize IoT sensors/devices throughout the hotel including door locks, thermostats, drapes, lights, connected TVs, occupancy sensors, etc. to revolutionize the customer hotel experience. The challenge was to ensure all IoT devices from disparate manufacturers would be interoperable, secure, controlled and maintained throughout their device, software, and contractual lifecycle.

### Solution

Protiviti's IoT Security 360° Catalog helped our client discover unique challenges and needs introduced through their IoT-driven experience, identified required governance and security documentation updates, and mapped their existing controls to relevant industry frameworks for their devices.

### Client Value

Client is now prepared to deploy their IoT devices across a non-homogenous organization, and has established stakeholder alignment, buy-in and ownership necessary to implement and maintain their updated IoT policies.

## Begin your IoT Security 360° Catalog

Contact us at [TechnologyConsulting@protiviti.com](mailto:TechnologyConsulting@protiviti.com) to discuss your organization's IoT security readiness.



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