

# Observability of Things with New Relic One

Don't leave your devices at the edge without complete observability

It's an exciting time to be in the Internet of Things (IoT) market. Organizations across a broad range of industries are reaching to the farthest edges of the cloud and using embedded technologies to push their applications closer to their end users.

But IoT systems are incredibly complex to manage and monitor. Composed of many moving parts, these systems generate vast amounts of data that must be consolidated, correlated, and analyzed in real time. You need a comprehensive view of the overall health of your embedded system with the ability to drill down to troubleshoot a specific device, region, or operating system.

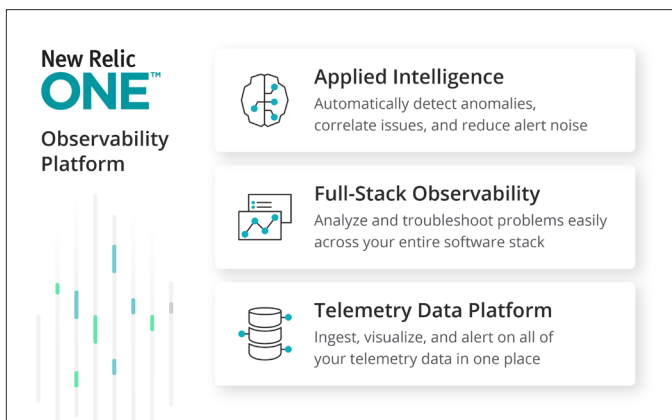
From the smallest embedded microcontroller to the largest industrial edge hardware, New Relic One helps IoT organizations deliver services with confidence at scale.

## Analyze physical device performance and availability in the context of the embedded systems

With millions of IoT devices dispersed across geographies, it's critical you collect, analyze, and act on the data those devices emit. With New Relic, you get real-time insight into the status of a device (e.g., location, temperature, battery life, connectivity) as well as data on device performance in the context of the overall system (e.g., enterprise response time, errors, bandwidth). IoT devices often use low bandwidth and non-IP communications, and New Relic One has the flexibility to monitor data across RF bands and closed systems. Using high-level, aggregate system data to correlate deep analytics on a specific region or device, you can pinpoint and troubleshoot issues faster.

With New Relic One, you can:

- See device health in real time.
- Monitor your entire fleet from a single console.
- Be notified of and resolve problems before they impact your customers.



**New Relic ONE™**  
Observability Platform

- Applied Intelligence**  
Automatically detect anomalies, correlate issues, and reduce alert noise
- Full-Stack Observability**  
Analyze and troubleshoot problems easily across your entire software stack
- Telemetry Data Platform**  
Ingest, visualize, and alert on all of your telemetry data in one place



Low bandwidth non-IP system reporting health metrics to New Relic.

## Optimize IoT systems using a massively scalable database

New Relic One is powered by the [Telemetry Data Platform](#), a massively scalable database that can readily accept critical IoT data—such as a temperature from a sensor or G-force from an accelerometer—with speed and flexibility at unlimited scale.

You'll use the same APIs and SDKs used for traditional application monitoring and benefit from flexible dashboarding and alerting capabilities that power actionable insights. To simplify incident detection and response, [Applied Intelligence](#) can initiate a workflow when device performance exceeds a certain threshold (e.g., if a freezer temperature rises) to automatically notify your IoT device or personnel to remediate the issue.



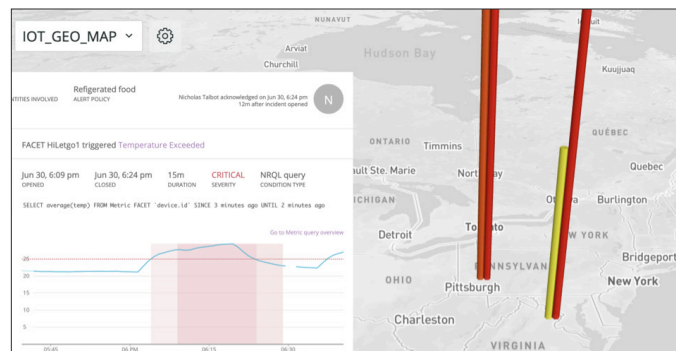
Correlate data to understand the health of your IoT environment in real time

## Get end-to-end visibility into IoT environments

The same platform that monitors the world's largest customer-facing applications scales to meet the demands of distributed embedded systems. Instrumentation is easy and scalable with out-of-the-box integrations for hundreds of services and open source tools, including Prometheus and OpenTelemetry, eliminating the cost and complexities of hosting, operating, and managing additional monitoring systems or data stores. We've created customizable visualizations, such as the GEO IoT map [below], using New Relic's open source, extensible interface.

With New Relic One, you can:

- Correlate IoT device issues with the systems they call.
- Tap into an ecosystem of custom apps—or build your own—to visualize your IoT environment.
- Connect software, hardware, and the physical world to business outcomes.



Use or build extensible applications to customize views and automate workflows

“While our initial use of New Relic was for traditional Web traffic and Web application monitoring, we’re now using it to monitor our telematics, our vehicle connectivity, and our GSM network footprint. We use it everywhere that we have data in text or number format that we can analyse.... Departments have dashboards running in the background on monitors, reloading automatically, just to follow development—New Relic is almost like a stock market ticker.”

**Erik Bak-Mikkelsen**

Head of Cloud Operations, Share Now

## Observability made simple

Contact us at [iot@newrelic.com](mailto:iot@newrelic.com) or sign up for a [free New Relic One account](#) today.