

CASE STUDY

Google Works with Voltaiq on Launch of Next-Generation Nest Products



Leveraging Voltaiq's software platform, Nest global battery engineering teams save over ten hours per engineer each week – and more than triple their velocity from testing through to analysis and insight, helping accelerate product launch



Overview

Nest Labs was founded in 2010, with the goal of creating products that allow homes to take care of the people inside them. Nest began with smart thermostats, and since the company was acquired by Google in 2014, their product family has grown to include a suite of devices that create a truly connected home – from smart locks and doorbells to security systems, speakers, routers and more.

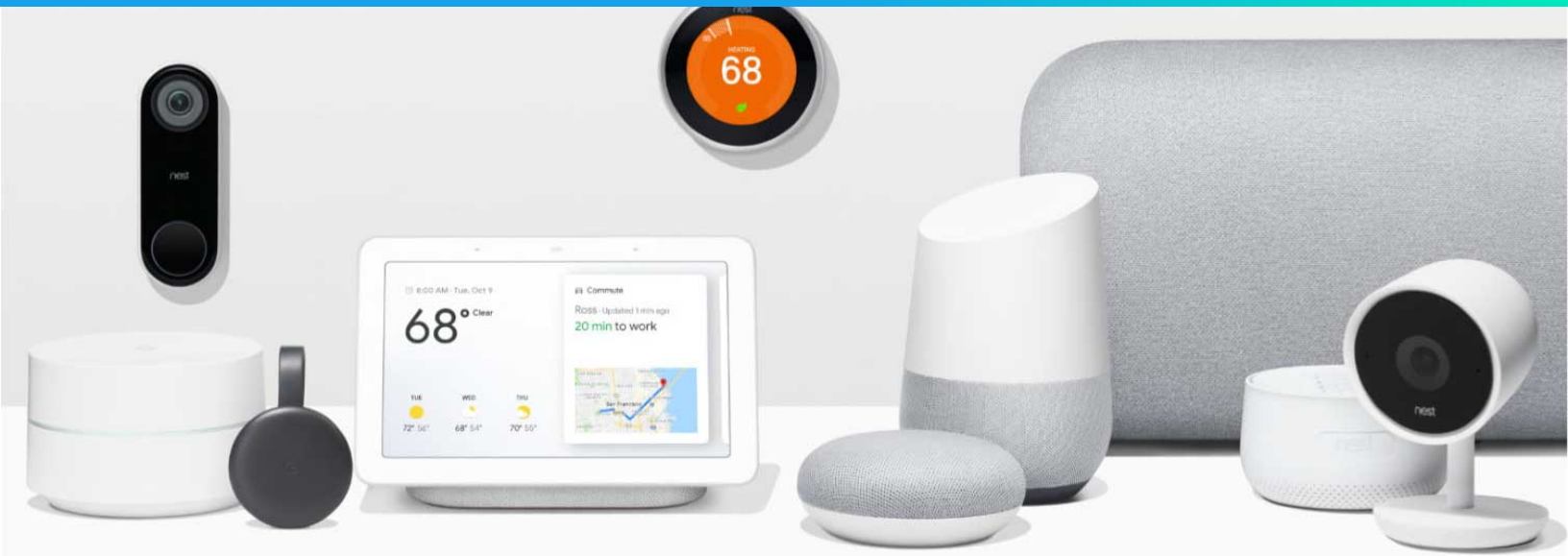
Over time, Google has found batteries to be an increasingly vital component of the Nest product line. Google has worked with Voltaiq since 2018 to ensure on-time product launches as they continue to expand the Nest product family.



Challenge

The Nest team at Google is tasked with launching a continuing series of innovative products under aggressive timelines – a particularly acute challenge for any product that includes a battery. A common pain point for launching battery-powered products is the long time frames for qualifying batteries. This pain point is compounded by the difficulties encountered in wrangling the data generated while testing the battery under every possible application scenario – across locations, formats and sheer volume. The time needed to extract key insights on battery performance adds yet another complication.

Sourcing the right materials, efficiently testing and qualifying batteries and the ability to quickly identify issues are all crucial to developing safe and reliable battery-powered products to consumers around the world.



Working Together

In order to maintain aggressive product launch goals for their Nest product family, Nest leveraged Voltaiq's purpose-built Enterprise Battery Intelligence™ software platform. This platform empowered them to seamlessly analyze large volumes of qualification and supplier data generated across facilities in the US and Asia into a single system of record.

The Voltaiq platform unlocks a host of benefits: rapid validation, root cause analysis, batch plotting, access to raw data and real-time notifications when outliers are detected — streamlining all-new product design.

When COVID-19 created mass disruption throughout the economy early in 2020, Nest's battery engineering teams around the world were able to access and share data remotely through the Voltaiq platform — despite not having physical access to their battery labs. Crucially, Nest was able to keep their product launch schedules on track without the delays that many other companies were experiencing due to pandemic restrictions.



Conclusion

As the race to electrify and decarbonize the global economy advances, it is increasingly clear that in order to succeed in a battery-powered world, complete visibility across a product's entire lifecycle is key. Accessible data housed in a single system of record is essential to the development of next-generation battery-powered products.

Voltaiq's Enterprise Battery Intelligence™ software platform is the first purpose-built solution to ingest data from across the battery product lifecycle and automatically surface key insights that optimize performance, quality, and time-to-launch. Leveraging Voltaiq's software platform, Nest global battery engineering teams save over ten hours per engineer each week and more than triple velocity from testing through to analysis and insight, helping accelerate product launch.

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About Voltaiq

Voltaiq has built the industry's first Enterprise Battery Intelligence (EBI) software platform, helping its customers optimize battery performance, reliability and financing, while avoiding costly recalls and catastrophic battery fires. Voltaiq's EBI platform is the only purpose-built, fully automated software solution that marshals vast quantities of battery data from across the full product lifecycle, providing a window into real-time battery function and a detailed view into future performance and behavior. Founded in 2012 by veteran battery and software entrepreneurs, Voltaiq's global customer base includes industry leaders in transportation, consumer electronics, energy storage, and the full battery supply chain. For more information, please visit www.voltaiq.com.