Vivint Drives Smart Home Automation With Datameer

Vivint Connected Homes Made Smarter Thanks To Datameer

Vivint Smart Home, a leading smart home company in North America, is leading the charge in the data-driven, connected home movement. Serving more than 1.5 million homes, Vivint's touchscreen panel, the hub through which all of their other products communicate, creates a streamlined network that connects all of the home's smart systems including security, HVAC, lighting, small appliances, video, and other devices.

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>
> Brandon Bunker, *Vice President of Engineering at Vivint Smart Home*

As a part of the Internet of Things and big data, Vivint's solutions enable homes to be smarter, safer, and more energy efficient for its customers. Intelligence is the center of the smart home and Vivint is using Datameer to shorten the time it takes to go from raw data to actionable intelligence that can be used to enhance their customer's home experience.

Vivint had selected Hadoop, an open source storage and compute technology, as their analytics infrastructure platform. They found that their team was spending too much time on mundane, technical tasks preparing and integrating the data rather than doing actual, value-added analysis. Vivint was looking for a solution that could make their staff more efficient and seamlessly integrate with their Hadoop platform rather than just retrofitted to work with Hadoop. Another key consideration was the ability to integrate and analyze not just raw data but also streaming data, which is a key component to their smart home analytics solution to big data for Internet of Things.

After reviewing a number of technology options, Vivint selected Datameer X as their data and analytics pipeline solution. Datameer X is used to join and analyze terabytes worth of data collected from its Internet of Things solution and various in-home automation, security, and energy management devices, including thermostats, smoke alarms, automatic locks and door and window sensors to better understand usage patterns and improve services. A daunting task with

with traditional systems, Vivint analysts use Datameer to parse, join and sessionize various complex data streams to determine occupancy and vacancy patterns in an e ort to reduce the number of false alarms and improve the overall efficiency of their devices.

"One of the challenges and opportunities with the Internet of Things is that there has been an explosion of stream data, which is unlike the traditional data we've worked with," said Brandon Bunker, Vice President of Engineering at Vivint Smart Home. "Instead of having one row per customer, there may be thousands or millions of rows per customer. Because Datameer X is purpose-built for Hadoop data lakes and it has an intuitive Excel-like user interface, my team was able to get up and running quickly."

Unlike most traditional business intelligence or data analytics tools that sit on top of traditional databases and require data modeling, Datameer X leverages the powerful, scalable storage and compute of Hadoop. This allows analysts to work with raw structured, semi-structured, and unstructured data sources fluidly when dealing with big data and Internet of Things. Because Vivint connected devices produce unstructured stream data, analysts at Vivint are relying on Datameer X to quickly and easily integrate data streams into their data lake and then join and analyze the data streams with Datameer's easy-to-use, spreadsheet-like interface in minutes.

Data-driven products that help homeowners manage their home safety and energy is the future in home automation because it improves the overall homeowner experience. Vivint continues to remain a leader in the industry and, together with Datameer X, is making strides to deliver the new status quo in the connected home movement.

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Brandon Bunker, Vice President of Engineering at Vivint Smart Home

About Datameer

Datameer provides hybrid-cloud analytics data management products that help organizations have successful, lower risk cloud journeys. Datameer X is an enterprise-grade data preparation, data pipeline and dataops platform that helps organizations gain greater business value from their data lakes, reduce analytics cycles by up to 90% and lower their data engineering costs. Datameer is a trusted platform at leading enterprises globally, including Citibank, Royal Bank of Canada, British Telecom, Aetna, Optum, National Instruments, Vivint and more. To learn more, please visit www.datameer.com.