SparkPost uses OpenText technology to help clients optimize their email marketing campaigns with powerful real-time analytics.

Who is SparkPost?
Clients rely on SparkPost to deliver nearly 40% of the world’s commercial email campaigns. The company’s email sending and deliverability platform helps the world’s largest brands reach billions of customers around the world and make data-driven decisions to improve their email performance. Headquartered in Columbia, Maryland, the company employs more than 200 people.

Managing Complexity at Scale
Delivering email is complicated, especially at scale. As an everyday email user, you just click “send” and the message is gone—but when you’re running a platform that delivers more than a billion emails per day, the ability to monitor delivery delays and bounces becomes critical. Moreover, clients want to know more than just whether and when an email was delivered—they want to be able to see if the recipient opened it, how long they spent reading it, what they clicked on, and whether they unsubscribed or reported the message as spam.

As SparkPost developed its cloud email sending and delivery platform, it realized that its ability to help clients answer these kinds of questions could be a key differentiator in the market. However, building flexible ad hoc analytics tools that would enable real-time analysis of high-volume, high-velocity streams of email event data was a major technical challenge.

“We saw Vertica (now part of OpenText™) as the most mature solution on the market, and it’s gotten even better over time. The support is great, the documentation is stellar, and the technology is extremely solid, especially in terms of real-time data loading and clustering.”

CHRIS MCFADDEN
VP of Engineering
SparkPost

At a Glance

- **Industry**
  Technology

- **Location**
  United States

- **Challenge**
  Differentiate SparkPost’s cloud email by offering clients best-in-class analytics tools for both delivery analysis and campaign optimization

- **Products and Services**
  Vertica Analytics Platform

- **Success Highlights**
  + Integrates third-party data to give clients insight into the relative performance of their email campaigns
  + Enables real-time streaming analytics at a velocity of more than 100,000 email events per second
  + Provides a horizontally scalable analytics platform capable of processing 100 billion events per month
  + Streamlines data storage, contributing to a 50% reduction in analytics costs per thousand emails
second, and volumes are growing at approximately 40% per year. To unlock the power of real-time insight for its clients, SparkPost decided to rethink its approach and build a scalable analytics architecture from scratch.

**Building for Scale**
SparkPost had previous experience of using the OpenText™ Vertica Analytics Platform in some of its earlier products and knew that OpenText™ Vertica™ offered all the features it needed to deliver real-time analytics across multiple metrics as well as ad hoc drill-down capabilities at massive scale.

“When we originally adopted it, we saw Vertica as the most mature solution on the market, and it’s gotten even better over time,” says Chris McFadden. “The support is great, the documentation is stellar, and the technology is extremely solid, especially in terms of real-time data loading and clustering.”

SparkPost’s new analytics architecture runs on the Amazon Web Services (AWS) cloud platform and has Vertica Analytics Platform at its core. It uses AWS Lambda to create a pipeline that loads data into the Vertica Analytics Platform in micro-batches, enabling real-time analysis. The Vertica Analytics Platform cluster can scale horizontally as data volumes increase, enabling SparkPost to deal with massive volumes of data at high velocity, without worrying about database performance.

Clients interact with the data in Vertica Analytics Platform via a user-friendly web application that makes it easy to monitor key metrics across marketing programs and campaigns, and understand the factors driving engagement, unsubscribes and spam reports. Beyond marketing, the tools also enable technical teams to troubleshoot any issues that are preventing delivery.

**Unlocking the Full Potential of Email Marketing**
As marketing becomes increasingly data-driven, companies want to understand the return on their investment in email marketing. SparkPost’s analytics platform makes it easier to evaluate the revenue generation potential of each campaign, while also optimizing its costs. The cost of analytics infrastructure for each email is a metric that SparkPost has been continuously improving over time.

“As our data volumes have grown, we’ve been able to use Vertica (now part of OpenText™) more efficiently instead of adding more and more servers to our cluster,” says Chris McFadden. “That’s contributed to a 50% reduction in CPM for analytics.”

The scalability of OpenText™ has also enabled SparkPost to stay ahead of rapidly increasing data volumes, and even integrate third-party data into its analytics to give clients unique insight into the relative performance of their email campaigns, compared to industry averages.

Chris McFadden concludes: “The analytics we can provide with Vertica [Vertica Analytics Platform] are an important differentiator for SparkPost, driving growth in active users and demonstrating the value we add for our clients.”

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Learn more at
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