Hewlett Packard Enterprise

SkyMedia found the speed it needs

IT consultant drives innovation by enhancing its document and knowledge management offerings with the HPE IDOL and HPE Vertica solutions

Objective
Support corporate customers that need to leverage increasingly large, increasingly complex data and document repositories to accelerate business processes and decisions

Approach
Integrate the HPE IDOL and HPE Vertica big data analytics solutions into proprietary document and knowledge management platforms

IT matters
- Retrieve speeds on 500,000 indexed sections 99% faster than SQL searches
- Deliver complex query results on 600,000 health records in five seconds—5x faster than SQL searches
- Return data mining matrices over 20x faster than Oracle 11g and SQL relational database servers

Business matters
- Accelerate business processes
- Improve relevancy of big data search results supports better business decisions
- Fully unlock business value of data and document repositories

One of Italy's leading IT consultants is SkyMedia Ltd. Document and knowledge management services are one of SkyMedia's marquee offerings. "Managing document and data repositories is a growing area of concern for today's corporations," notes Ciro Borrelli, Corporate Technology Officer, SkyMedia. "On the one hand, the information stored in these repositories is more business-critical than ever before. On the other hand, the repositories themselves are larger, more complex and more difficult to manage."

To help these businesses, SkyMedia invests in cutting-edge technology designed to drive value from big data document assets. And today, a cornerstone of that technology is the big data software from HPE: the HPE IDOL enterprise search and data and the HPE Vertica Analytics Platform.

Accelerating big data search results—and cutting through complexity

One of SkyMedia's primary offerings is its Expert Support System 2 (ExS^2) Software as a Service platform. This web Java EE application, which is deployed on Red Hat JBoss servers, supports litigation management workflow, decision support, document generation and review, and related functionality.

To support these processes, ExS^2 must access tax, litigation and administrative documents across each customer's document landscape, which typically includes both Internet-based and proprietary databases. Often, the documents are written in either Italian or English; it's also common for material to be French, Spanish or Russian. In addition, the document repositories are updated continually with new documents added and existing documents modified on a daily or even hourly basis.

With this environment, SkyMedia equips its ExS^2 platform with robust and flexible big data search, analytics and security functionality including continuous indexing, automated classification against customizable taxonomies and strict access controls. The solution must support the organization of documents into knowledge bases. And it needs to

Customer at a glance

Industry
- IT Services

Primary software
- HPE IDOL enterprise search and data platform
- HPE Vertica Analytics Platform
- SkyMedia Expert Support System 2 (ExS²) platform

help users quickly identify conceptually relevant search results.

Retrieve speeds 99% faster than SQL—data mining matrices 20x faster

Last year, SkyMedia began seeking a big data search platform to integrate with ExS². It looked at Cogito, but after comparing that tool to HPE IDOL, SkyMedia decided that the HPE Software solution was a better fit. "HPE IDOL offers a rich menu of language and functional configurations that are ready to use as soon as you install it," Borrelli explains. "It is simple to update configurations and reorganize indices." Because it would be so much easier and faster to put HPE IDOL to work, SkyMedia decided to integrate the HPE unstructured data analytics solution with its ExS² platform.

After implementing the HPE IDOL solution, SkyMedia was very pleased with the solution's performance. "We used HPE IDOL to search a repository of mostly scientific and legal indexed documents," says Borrelli. "With more than 500,000 indexed sections, our retrieve speeds were 99% faster than SQL searches."

Another market SkyMedia supports is healthcare, where SkyMedia customers need to perform fast searches on digital health records. Because healthcare data repositories can grow extremely large, SkyMedia paired HPE IDOL with HPE Vertica to support fast query times. The results

were impressive. "We benchmarked a collection of 600,000 health records, and obtained complex query results in less than five seconds," says Borrelli. "Our HPE Vertica searches were five times faster than SQL searches. And what really surprised us is that HPE Vertica also produces data mining matrices more than 20 times faster than other relational database servers, such as Oracle 11g and SQL."

"HPE big data analytics solutions provide the cutting edge functionality that we need to be a leading IT services provider."– Ciro Borrelli, Corporate Technology Officer, SkyMedia

"As corporate data and document repositories grow in size and complexity, companies need better ways to find what they need, when they need it," Borrelli concludes. "By leveraging the HPE IDOL and HPE Vertica solutions, SkyMedia delivers exactly what our customers require."

Learn more at
hpe.com/idol
hpe.com/vertica

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