

“PRIMEFLEX for Hadoop provides opportunities for analyzing large data volumes which signal the way ahead, enabling analytical evaluations to be used as the basis for smart data processing.”

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Photo: www.siemens.com/presse

Siemens uses a FUJITSU Integrated System PRIMEFLEX for Hadoop to analyze data sources. The results form the basis of threat analyses carried out by analysts.

At a glance

Country: Germany
Industry: Technology
Founded: 1847
Employees: 351,000
Website: www.siemens.com

Challenge

As a global corporation, Siemens is interested in identifying current and future security threats/risks to employees, sites, and projects, as well as to events and activities in many countries across the world. The company uses a range of internal and external sources to facilitate this.

Solution

The FUJITSU Integrated System PRIMEFLEX for Hadoop enables Siemens to prepare and process large and often unstructured data volumes in real-time, ensuring that analysts gain valuable knowledge for conducting threat and risk analyses.

Benefit

- Automated, auditable, and transparent processing of large data volumes
- Reduction of routine tasks for analysts, allowing them to focus on analytical evaluations
- High flexibility for dealing with the constantly changing demands of the working environment
- Opportunity to continually develop processes and analysis capabilities

Customer

Siemens AG is a leading high-tech corporation, active in over 200 countries chiefly in electrification, automation, and digitization. The company is a leading provider of efficient power generation and transmission solutions, and innovates infrastructure, automation, drive and software solutions. The company also provides medical imaging devices such as computer tomography and magnetic resonance tomography equipment, as well as lab diagnostics solutions and clinical IT.

Products and services

- FUJITSU Integrated System PRIMEFLEX for Hadoop
- FUJITSU Server PRIMERGY RX2540 M2
- Integration of Datameer analysis software
- Cloudera Hadoop distribution

Challenge

As a global player, Siemens takes a proactive approach to identifying the wide range of security threats and risks that might affect the company, using a variety of internal and external sources. Gerald Ulmer's team is responsible for the security in Siemens AG's Governance & Markets division and relies on PRIMEFLEX for Hadoop, a forward-looking platform providing innovative processing and analytical evaluation of this type of data, which is designed to support commercial interests and decisions.

Solution

Modern data gathering is no longer hampered by the lack, but rather the excess, of available information. Information about potential or actual security threats comes from a range of sources, including the company, service providers in the security field and the wide field of media analysis, from press releases all the way to social media. "We are particularly interested in media channels such as Twitter or Facebook because they respond very rapidly to events that could be relevant to Siemens in terms of security issues. Then there are our in-house analyses which are fed back into the process by the system. Nonetheless, critical evaluation largely remains the job of the analysts. IT systems only have a limited ability to evaluate the relevance of pieces of information," underlines Gerald Ulmer. FUJITSU Integrated System PRIMEFLEX for Hadoop is the platform which preselects and integrates the information, condensing, and channeling the volume of data.

"Analysts previously spent a lot of time collecting and sifting information before being able to evaluate it analytically," says Gerald Ulmer. Staff can now concentrate on analyzing and evaluating security threats and risks, which is what delivers added value. Transparent conclusions are a further advantage of automation. "Up to now, if analysts A and B were dealing with the same issue, it couldn't be assumed that the same pieces of information had been used. That is no longer the case," explains Gerald Ulmer. This is particularly relevant for compliance requirements. In other words, transparency now underpins analytical conclusions and the resulting measures.



To ensure that the solution generates equal value, Gerald Ulmer developed a range of innovative workflows tailored to his precise requirements. In his opinion, preparing and defining analytical processes is a very important step. This also encompasses the identification and selection of the most appropriate analysis tools. For instance, for Siemens, these include tools which enable geo-referencing and use metadata to enhance information, as well as speech analysis solutions for early detection of threats and risks. "The system provides us with a strong basis for fulfilling our specific requirements," explains Gerald Ulmer.

Benefit

"PRIMEFLEX for Hadoop's flexibility provides opportunities for analyzing large data volumes which signal the way ahead. We can work with a wide range of sources and formats and integrate them easily." PRIMEFLEX for Hadoop's interfaces are very well-designed, enabling the necessary tools to be deployed for the application in question. According to Gerald Ulmer: "The system allows us to access a flexible, high-performing solution which enables us to use a wide range of evaluation methods and tools (e.g. data visualization)."

Although it was designed to be a specific solution, Gerald Ulmer is certain that, "the underlying concept offers huge potential across a wide range of applications, when it is combined with innovative methods and workflows developed in-house, as well as with smart data processing and the normalization, harmonization, and integration of metadata, enriching the whole concept." With PRIMEFLEX for Hadoop, it is very easy to develop a platform that enhances cooperation and analytical capabilities within a large company, enabling diverse corporate units to be networked and deliver results which foster an integrated approach. Gerald Ulmer emphasizes that this strategy adds proportionate value to a diverse range of applications.

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