Brochure

Cut costs, boost care

Avnet HealthPath solution on HP HAVEn

Healthcare providers face a formidable challenge when it comes to balancing core objectives. How do you reduce costs while also improving patient care? Can you simultaneously increase efficiency and achieve full regulatory compliance? How soon can you meet these objectives, and through what means?

Big Data analytics offers an answer. With the right Big Data solution, you can achieve all of these goals plus interoperability and a unified view of patient and operational data.

Healthcare providers face complex data challenges

Few would dispute that there is room for improvement in the U.S. healthcare system. According to the McKinsey Global Institute, "multiple studies have found that the United States spends about 30 percent more on care than the average Organization for Economic Cooperation and Development (OECD) country when adjusted for per capita GDP and relative wealth. Yet the United States still falls below OECD averages on such healthcare parameters as average life expectancy and infant mortality."[1]

Costs are too high. Mistakes happen. More than 500 people die per day in U.S. hospitals as a result of errors, accidents, and infections, according to Leah Binder, president and CEO of Leapfrog Group, which created a system that publicizes hospitals' performance in safety, quality, and efficiency.[2]

Paving the way for innovation

With the right Big Data analytics solution and corresponding organizational changes, healthcare providers can:

• Reduce costs

• Increase efficiency

• Improve care

• Achieve compliance

Healthcare data analytics can not only achieve the key objectives of reducing costs, increasing efficiency, and so on, but it can also pave the way for innovation—in patient care, medical research and development, and even in new models of assessing care-delivery performance and patient satisfaction.

[1] "Big data: The next frontier for innovation, competition, and productivity," McKinsey Global Institute, June 2011.
[2] "The Five Biggest Problems In Health Care Today," Forbes.com, February 21, 2013.

Healthcare organizations are positioned to reap a high return on their investments in Big Data. The McKinsey Global Institute estimates that the potential value from Big Data in the healthcare sector could be more than $300 billion USD a year, "two-thirds of which would be in the form of reducing national healthcare expenditures by about eight percent."[3]

Choosing the right tools to analyze the data, much of which is fragmented and/or resides in disconnected systems, is critical. Avnet HealthPath Analytics Platform, which runs on the HP HAVEn Big Data analytics platform, provides a flexible solution to help healthcare providers rapidly integrate medical, operational, and financial data from multiple systems to create a single, unified, secure view and analysis of patient information.

Avnet HealthPath Analytics Platform: Connecting healthcare data for improved patient care

Avnet HealthPath Analytics can be extended to include existing as well as future data sources that are unique to your environment. With modules targeted at various clinical practices, you will be able to address specific readmissions, population management, financial performance, and HIPAA compliance needs.

By harnessing the power of analytics with a unified and scalable platform, your healthcare organization can take leaps forward for not only improving patient care but also bolstering revenue.

The Avnet HealthPath Analytics Platform can help you:

- Speed delivery of clinical value and improve operational efficiency
- Gain real-time critical insights to make better informed decisions
- Offer deeper analysis into your business
- Accelerate overall interoperability and incorporate best practices
- Increase clinical value while lowering information management and integration risk

Avnet HealthPath Analytics Platform enables a cohesive view of a patient, regardless of where the data is stored within your infrastructure. The combination of Avnet HealthPath Analytics Platform and HP HAVEn delivers the ability to rapidly integrate systems across multiple operational and clinical areas such as cardiology, oncology, orthopedics, geriatrics, and neurosciences.

Healthcare organizations are not alone in eyeing the potential benefits of Big Data analytics. According to research commissioned on behalf of HP, nearly 60 percent of companies surveyed planned to spend at least 10 percent of their innovation budget on Big Data in 2013.[5] However, most organizations are still catching up when it comes to mastering the skills and tools required to exploit Big Data; the study found that more than one in three organizations has failed with a Big Data initiative. Finding the right partner to help select and implement the best Big Data analytics solution is a crucial first step.

The right partners and the right platform to profit from Big Data

HP's enhanced portfolio delivers the necessary services and solutions to facilitate the successful implementation of Big Data initiatives, and to enable enterprises to handle the growing volume, variety, velocity, and vulnerability of data that can become a stumbling block to success.

The HP HAVEn Big Data analytics platform includes proven technologies from HP Software, including Autonomy, Vertica, and ArcSight, all of which run on commercial, off-the-shelf hardware. HAVEn also extends HP technologies with key industry initiatives such as the Hadoop

Tackling preventable readmissions

Although many people associate the Affordable Care Act, enacted in March 2010, with protecting people with pre-existing conditions from being denied health insurance, the law also includes provisions aimed at slowing the growth in healthcare costs. One of these is the Hospital Readmissions Reduction Program, which requires the Centers for Medicare & Medicaid Services (CMS) to reduce payments to inpatient prospective payment system (IPPS) hospitals with excess readmissions, effective for discharges beginning on October 1, 2012. CMS credits the Hospital Readmissions Reduction Program with falling readmission rates,[4] which likely means U.S. healthcare providers must not only continue to comply, but also find more effective, affordable ways to ensure compliance indefinitely.

[3] "Big data: The next frontier for innovation, competition, and productivity," McKinsey Global Institute, June 2011.
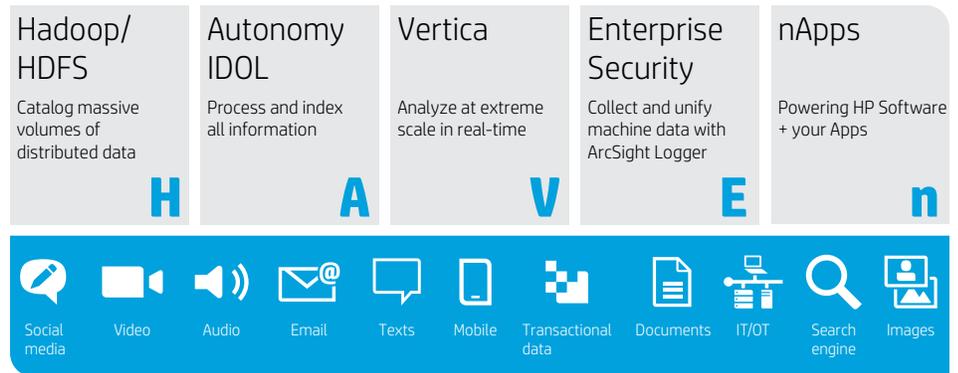
[4] "New Data Shows Affordable Care Act Reforms Are Leading to Lower Hospital Readmission Rates for Medicaid Beneficiaries," Centers for Medicare & Medicaid Services, December 6, 2013.

[5] "Big Data and Cloud," Coleman Parkes Research, Ltd., May 2013.

distributed file system. Together these solutions provide the capability to handle 100 percent of the data within your organization as well as external to it—structured, unstructured, and semi-structured—and securely deliver actionable intelligence from that data in near real time.

• **Hadoop:** Support for all leading Hadoop distributions with HP's open strategy

• **Autonomy Intelligent Data Operating Layer (IDOL):** Seamless access to 100 percent of enterprise data, whether human or machine-generated

• **Vertica:** A massively scalable analytics platform, custom-built for real-time SQL and NoSQL analytics on petabyte-sized datasets

• **Enterprise Security—ArcSight:** Real-time collection and analysis of logs and security events from a wide range of devices and data sources, bridging both operational and security intelligence

• **nApplications:** The combination of patented Big Data engines and more than 700 out-of-the-box connectors enables HAVEn to support a wide range of HP and third-party applications, content management systems, and databases. ISVs, integrators, and partners have adopted HAVEn to build new applications that address horizontal and industry-specific needs for information management and analytics. Avnet HealthPath Analytics Platform is just such an application. It leverages the components of HAVEn to offer healthcare providers a complete Big Data analytics platform that presents a central view of quality and compliance, operations, and financial data across all clinical areas.

Figure 1. HAVEn platform and ecosystem

Hadoop/ HDFS	Autonomy IDOL	Vertica	Enterprise Security	nApps
Catalog massive volumes of distributed data	Process and index all information	Analyze at extreme scale in real-time	Collect and unify machine data with ArcSight Logger	Powering HP Software + your Apps
H	**A**	**V**	**E**	**n**

Social media | Video | Audio | Email | Texts | Mobile | Transactional data | Documents | IT/OT | Search engine | Images

Choosing the right guide to your Big Data analytics journey
You need technology partners who understand the complexity of implementing an analytics solution in a healthcare setting and can help you identify the right questions to answer, the appropriate data sources to aggregate and fuse together, the proper algorithms to tailor, and how to navigate the implementation process. By partnering with Avnet and HP, you can achieve peace of mind knowing that a solution is just right for your data and IT environments. You can also choose from a variety of consultative services to accelerate and streamline your analytics deployment.

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