Hewlett Packard Enterprise

Predict and stop fraud before it occurs

HPE's Fraud Detection and Prevention for Financial Service.

Real-time, AI-enhanced predictive analytics platform for fraud detection

Unique capabilities for a better fraud-management solution

While other vendors offer fraud detection and prevention solutions, only HPE delivers a solution that:

- Is production-ready to deliver real-time fraud detection and prevention for electronic transactions including mobile banking, credit card transactions, online banking, online purchases, electronic payments, and more

- Converges AI and business intelligence (BI) building blocks in one complete fraud management solution that leverages talent across your organization

- Leverages the world's first deep-learning-optimized artificial intelligence (AI) engine based on joint innovation from **NVIDIA®**, **Kinetica**, and HPE, helping you stay ahead of fraud

- Provides the option for underlying infrastructure as a service for data collection, integration, and analytics with HPE Flexible Capacity. It prepares you for peak demand time periods such as Cyber Monday, Holidays, "Sales," National sporting events, etc.

From fraud-probable to fraud-prevented

Traditional fraud-management systems include risk models that only evaluate transactions against a set of "normal" transactions and then score them. Depending on the score, each transaction is accepted, declined, or submitted for additional analysis.

Today, however, a new set of challenges has emerged that traditional fraud-management systems are not designed to handle:

- The rise in disparate electronic transactions across multiple channels (face-to-face, online, and call center, for example) eliminates the option for manual review of suspicious transactions.

- Traditional data analytics tools have difficulty accurately analyzing escalating data volumes in real time.

- Increasingly sophisticated cyber-attacks create ever-changing challenges for enterprises in their battle against fraud.

- Progressively more complex regulations require automated reporting based on proof of state-of-the-art fraud prevention and detection monitoring.

Overcoming these obstacles requires new skill sets, data sets, technologies, and approaches to fraud management that must include predictive analytics-based fraud models and artificial intelligence (AI). Such models can result in:

- More accurate risk assessment at the speed of business

- Reduced false positives

- Faster detection—in real time—leading to fraud prevention

- Streamlined and accelerated investigations upon detection

Advanced fraud risks managed in real time

HPE delivers a solution that offers an innovative and resilient approach to fraud management. Built for the future, the HPE solution incorporates elements of AI—both machine learning algorithms and deep learning frameworks—to help with training and inference so you can not only detect breaches, but also prevent them.

Deploying right-fit technology

By leveraging in-memory databases and open source tools for machine learning and deep learning, accelerated by NVIDIA graphical processing units (GPUs), HPE's optimized predictive analytics platform allows you to

#1

HPE is the number one vendor for handling mission-critical private cloud workloads such as fraud detection and prevention, where it is critical to have secure, high-bandwidth connectivity to online transaction processing (OLTP), enterprise data warehouses, data lakes, and client records to deliver real-time actionable intelligence.

mSec **responses**

The HPE solution can return subsecond queries by converging AI and BI building blocks for fraud detection and prevention in a single in-memory platform.

[1] Q1 2016 IDC Server Tracker

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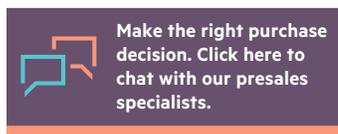
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rightsize your fraud detection and prevention solution with your choice of custom-made and commercial applications and tools. Backed by these advanced technologies, HPE's real-time, AI-enhanced fraud-management solution can:

- Identify fraudulent activity in subseconds
- Support all types of electronic transactions, including mobile banking, credit card transactions, online banking, online purchases, and electronic payments
- Reduce false positive rates
- Avoid costly losses, including customer refunds, investigations, and lost opportunities
- Improve your return on investment (ROI)
- Reduce the risk to your brand, reputation, and litigation exposure

The power of partnership

Working together to create a better solution for managing fraud and securing electronic transactions

Building the best solution means working with the best partners. HPE worked with NVIDIA, **Mellanox**, and Kinetica to develop a purpose-built, qualified, pre-tested, and validated high-performance computing (HPC) hardware platform, complete with software for HPC, Big Data, AI integration, analytics, visualization, and more.

To ensure you receive the service and support you need for your fraud-management solution, HPE's Center of Excellence provides hands-on support for tuning and optimizing the platforms to run specific applications and meet your business objectives.

In addition, **HPE Pointnext** and **HPE Systems Integrator** partners provide fraud-management expertise and data scientists to support solution design, implementation, and management.

Industry-leading components

Building on a proven framework
Creating a rock-solid fraud detection and prevention solution requires an unshakable

foundation—which is why HPE's Fraud Detection and Prevention solution is built on industry-leading servers:

- **HPE ProLiant DL380 Gen9 and Gen10 Servers**—The world's best-selling servers,[1] delivering the latest performance and expandability; reliability, security, serviceability, and near-continuous availability make the HPE ProLiant DL380 the ideal choice for any server use case—including fraud management.
- **HPE Apollo 2000 Gen10 Servers**— Enterprise bridge to HPC, with up to four nodes in 2U. Maximum density in a standard form factor and lower total cost of ownership (TCO) by leveraging shared power and cooling.
- **HPE Apollo 6500 Gen9**—Offering flexible dense computing accelerated with NVIDIA GPUs. Up to 8 GPUs in a 2U tray, the Apollo 6500 Gen9 delivers the right compute for the right workload in a small space.

Service expertise you can trust

HPE Pointnext—providing services to accelerate your digital transformation
Our Technology experts will work directly with you to ensure you have the right tools, processes, and support to achieve your business goals. Based on the Fraud Detection and Prevention reference architecture, which includes all components in the AI-engine, HPE Pointnext will help you implement your predictive analytics platform with all the proper datasets to train the model and configure the deep learning frameworks and traditional Fraud Detection packages with the quickest time-to-value—helping you predict and stop fraud before it occurs.

Learn more at
HPC Solutions for FSI
HPC Solutions
FSI Solutions