



Objective

Ensure business continuity for mission-critical e-commerce business transactions encompassing more than 60% of the domestic market in European country of Georgia

Approach

Evolve HPE NonStop servers and ACI BASE24 payment engine to an active-passive data center configuration leveraging HPE NonStop Shadowbase data replication

IT Matters

- Continuous availability of mission-critical BASE24 payment engine
- 50% cost savings in data replication solution
- Zero data loss with complete site failover in just a few hours

Business Matters

- Assured business continuity to maintain bank's revenue streams
- Guaranteed operational stability to process commercial payments 24/7
- Elevated bank's reputation, leading to future growth opportunities

Cartu Bank ensures continuous availability of payment services for Georgian businesses

HPE NonStop servers run mission-critical BASE24 payment engine 24/7



Payment processing at the heart of national economy

With more than 60% of all e-commerce transactions in the European country of Georgia going through Cartu Bank's payment switch, you can be sure this bank understands the need for continuous availability. Cartu Bank is a leading force in the Georgian economy, enabling manufacturing plants,

hotels, merchants, and businesses of all kinds to process payments every day. Each transaction, whether from a point-of-sale device, via electronic funds transfer (EFT), or through an e-commerce site, passes through Cartu Bank's ACI BASE24 payment engine. That's precisely why the bank has relied on Hewlett Packard Enterprise (HPE) and HPE NonStop servers to run BASE24 for nearly two decades.

“HPE has been an important technology partner to Cartu Bank for many years. We know we can rely on NonStop servers, and trusted HPE to provide a solution that meets both our high availability and business continuity requirements.”

— David Galuashvili, Chief Operating Officer, Cartu Bank

However, following years of delivering continuous availability for BASE24, Cartu Bank’s legacy NonStop servers were reaching the end of their support life and required upgrading. This also meant moving to the latest BASE24 release to ensure maximum performance and stability on the new server platform. But the bank still wanted to take its business continuity strategy to another level.

Cartu traditionally ran its payment switching operation out of a single production data center where the fault-tolerant NonStop servers did their job to prevent unplanned application downtime. But to protect against natural disasters or major outages like a power failure that could take down the entire production site, the bank needed a second site for disaster recovery (DR).

David Galuashvili, Cartu Bank’s chief operating officer, explains, “As the main processing point for commercial payment transactions across Georgia, Cartu Bank must ensure continuous availability of our BASE24 system. If for any reason this system was not available, more than half the businesses in the country could not operate.”

He continues, “HPE has been an important technology partner to Cartu Bank for many years. We know we can rely on NonStop servers, and trusted HPE to provide a solution that meets both our high availability and business continuity requirements.”

Ensuring availability of payment services that cannot fail

To address its critical need for assured business continuity, Cartu Bank worked with HPE and an HPE partner, Capsys, to create a multi-site architecture based on HPE Integrity NonStop NS2300 Servers. One NonStop server is deployed in the bank’s production facility and a second NonStop server is installed at a disaster recovery site about 8 kilometers away. Both servers run the latest version of an BASE24 Classic and use HPE NonStop Shadowbase for real-time data replication between the two sites.

Case study

Cartu Bank

Industry

Financial services

Customer at a glance

Application

- ACI BASE24 payment processing system

Hardware

- HPE Integrity NonStop NS2300 Servers

Software

- HPE NonStop Operating System
- HPE NonStop Database
- HPE NonStop Shadowbase

Services

- NonStop SDI Professional Services

Giorgi Ioramashvili, head of Cartu Bank's IT department, remarks, "It was important to our solution to have replication software like Shadowbase integrated with the NonStop servers. We looked at Oracle Goldengate, which also could replicate BASE24, but because Shadowbase operates natively within the NonStop operating environment, it was more stable and easier to work with. Plus, Shadowbase was 40% to 50% less expensive than Oracle Goldengate."

Guaranteed operational stability and data preservation

With the HPE Integrity NonStop servers deployed in an active-passive data center configuration, Cartu Bank now has the highest levels of BASE24 availability and business continuity to maintain 24/7 payment processing and keep its revenue streams flowing. While the IT team is still testing automated DR failover, Ioramashvili is confident the bank can achieve rapid recovery of business operations in the rare event of a site loss.

"We expect to achieve full business recovery in no more than a few hours if we needed to fail over operations," he predicts. "Since data is continuously replicated in practically real time, we anticipate zero data loss in the recovery process. This is critical to our corporate customers and to the Georgian economy overall."

Galuashvili adds, "Our corporate customers know we have servers with the highest availability and a disaster recovery strategy that guarantees operational stability and data preservation. This elevates Cartu bank's reputation in the industry, which should bring additional growth opportunities for the bank in the future."

He concludes, "With the latest improvements to our payments infrastructure, Cartu Bank is in a prime position to make a substantial contribution to the prosperity of the Georgian economy by providing companies with exceptional quality, reliability, and efficiency in our payment services."

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