

DataEdge for HPE NonStop

Experience the next generation of analytics delivery

Bring an edge to your transaction data

In today's world, the infrastructure supporting a business environment is quickly becoming complex and diverse. This is due to the increasing number of supported services plus the growing number of transactions and business events that are produced from different sources. The trend is bound to continue given the sheer volume and variety of data that continues to become available. As a result, managing such an environment requires a consistent, service-oriented, and enterprise-fluent approach.

DataEdge for HPE NonStop is the product to successfully address this trend head-on. With DataEdge, you are equipped with one product for centralized monitoring and management requirements of different event sources. A very common use case for DataEdge is financial transaction analysis. Some examples of these sources include ATM and POS transactions. DataEdge streamlines these disparate sources, provides you the information through a user-friendly interface, and enables you to manage and analyze the massive streams of data that are received, as seen in Figure 1.



Figure 1. Screenshot of a graph of the number of denied transactions over time and their details

DataEdge at a glance

DataEdge is a data integration and streaming analytics product that enables you to normalize a variety of data and deliver analytics. The purpose of DataEdge is to empower you with enhanced operational business intelligence through innovative features and functionality. By constantly monitoring and managing your numerous business transaction environments, DataEdge naturally assists in increasing your profitability, availability, and customer satisfaction.

- Real-time monitoring and operational BI
- Enterprise focused
- Robust data security and privacy
- Disparate data stream support
- Scalable architecture
- Mobile first focus
- Anomaly detection
- Predefined business bundles
- Real-time change data capture

Modern architecture

Enterprise focused

DataEdge is beneficial for various departments. It helps mitigate data silos and enables various decision support systems.

Scalable

Flexible and scalable service-oriented architecture to meet growing business requirements.

Tailored to your environment

With support for out-of-the-box bundles, you can be up and running in no time. Examples include ACI BASE24® Classic/EPS and FIS Connex®.

Secure

DataEdge enforces authentication, privacy, data integrity, authorization, and audits for the services.



Figure 2. Dashboards with relevant business and operational KPIs



Innovative front-end features

Administer the product with ease

Introducing Data Builder: A centralized user interface used to configure your own metrics, formulas, entities, data sources,¹ and connections.² This intuitive and user-friendly area of DataEdge requires minimal technical skills to administer and prepare statistical data.

Create custom metrics

With DataEdge, you are now in the driver's seat and can define different custom metrics for different entities. Save time and improve operational efficiencies by replicating, altering, or even deactivating metrics directly within the interface.

Detect anomalies

Monitor certain metrics based on how their current behavior stacks against their normal or expected behavior learnt over a period of time. Out-of-the-box norm profiles are formulated on specific hours and days to capture cyclical patterns over time. Anomalous values for a metric can be monitored, detected, and alerted based on a percent or absolute deviation from the norm profile.

Manage product health

Observe important health KPIs of your environment to aid in problem detection and help ensure all components of DataEdge are performing as expected. Manage overall space utilization by data interval, stats database, active data sources, and top entity types by instance count through this robust dashboard.

Preview before saving

Enables you to preview your configured entities, metrics, data sources, and connections prior to saving them in the user interface. The metric history area presents an additional form of preview where you can explore the user-defined metrics and the associated data that has been collected over time.

Apply flexible filters and custom logic

Apply filters to entities and metrics in the user interface or use filters at the data source level to only process data that adheres to your requirements. Build robust conditions through custom logic to perform precise statistical calculations from your different data sources.

Maintain and retain your data

DataEdge empowers you to determine aggregation intervals for each entity type and manage the retention requirements for your data via the user interface. Control the repair process and rebuild data at any time with on-demand repair capabilities.

Unleash the power of alerts

A simple three-step process in the DataEdge user interface clearly defines alert policy paths.

- Create sophisticated threshold conditions
- Create and/or customize alert messages
- Distribute alert messages to individuals or groups

¹, ² Configuring data sources and connections outside of the business bundles may require additional user licenses



ACI BASE24 Classic ATM and POS package use case

Real-time ingestion and enrichment of data

The DataEdge Extract, Transform, Load (ETL) layer streams BASE24 Transaction Log File (TLF) and POS Transaction Log File (PTLF) transaction logs in real-time from the HPE NonStop platform to the Microsoft SQL database. This process helps ensure delivery in the correct sequential order of each record in the source with exactly-once processing (E1P). The data received from the transaction sources are also enriched with reference data coming from other data sources. Examples of this include additional information on acquirers or issuers.

Figure 3 illustrates the screen where a data connector is configured.

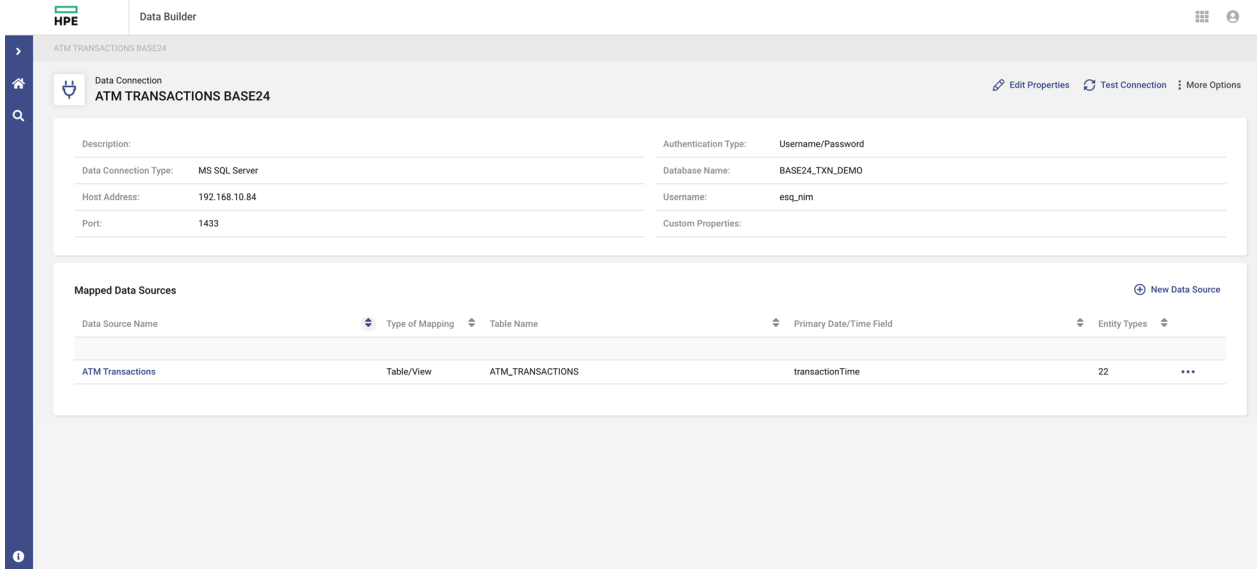


Figure 3. Data Builder interface with the overview of the properties of a data connector

Aggregated business KPIs and metrics

Business statistics play a very important role in educated decision-making process. DataEdge extracts raw information from the transaction stream and calculates statistics based on metric definitions. These metrics would have been previously defined in the user interface and can be based on absolute values or norm references. The information received is then aggregated and summarized on a time scale such as per minute, hour, day, week, month, or year. Finally, the information as KPIs is presented in the user interface through visually appealing dashboards with drill-down capabilities.

Business-critical KPIs

- Number and percentage of transactions by various entities (for example, acquirer, issuer, network)
- Number and percentage of approved/denied transactions
- Number and percentage of timeout transactions
- Response time of transactions
- Interchange response time
- Node, logical network, acquirer, and issuer transaction details
- Transactions Per Second (TPS)
- Reason for denial of transactions
- Transaction type analysis
- Response code analysis



System requirements

Table 1. Minimum hardware and software requirements

Server	Hardware and software requirements
Database	Minimum 64 GB of RAM 3 GHz, 16 core Minimum disk space 1 TB, SSD recommended Windows Server 2019 64-bit or above SQL Server 2019 or later, with Service Pack 3 Microsoft ODBC Driver 11 Microsoft sqlcmd (Command Line Utility 11 for SQL Server)
Application server	Minimum 64 GB of RAM 3 GHz, 16 core Minimum disk space 80 GB Windows Server 2019 64-bit JRE 1.8 with the latest updates Microsoft ODBC Driver 11 or above Microsoft SQL Server Native Client for SQL 2019 or above Microsoft .NET Framework 4.0 (64-bit) and 4.6.2 (64-bit) IIS 8.0 or later
Web server	Minimum 32 GB of RAM 3 GHz, 12 core Minimum disk space 80 GB Windows Server 2019 64-bit JRE 1.8 Microsoft .NET Framework 4.6.2 (64-bit) IIS 8.0 or later

Hardware requirements and sizing will vary based on the following factors:

1. Volume of data being processed
2. Entity type instances & metrics configured
3. Number of users

Ordering information

Table 2. HPE NonStop servers running the HPE NonStop L-series OS

SKU	SKU description
BE033AW	DataEdge for HPE NonStop Core Software
BE096AL	DataEdge for HPE NonStop Core 32-core ATM License
BE097AL	DataEdge for HPE NonStop Core 32-core POS License
BE034AC	DataEdge for HPE NonStop Integration and Analytics SW for ATM devices
BE035AC	DataEdge for HPE NonStop Integration and Analytics SW for POS devices
BE036AC	DataEdge for HPE NonStop Integration and Analytics SW for ATM and POS devices



Data sheet

Table 3. HPE NonStop servers running the HPE NonStop J-series systems

SKU	SKU description
QDECORE	DataEdge for HPE NonStop Core Software
QDECATM	DataEdge for HPE NonStop Core 32c ATM License
QDECPOS	DataEdge for HPE NonStop Core 32c POS License
QDEIAATM	DataEdge for HPE NonStop Integration and Analytics SW for ATM devices
QDEIAPOS	DataEdge for HPE NonStop Integration and Analytics SW for POS devices
QDEIAPA	DataEdge for HPE NonStop Integration and Analytics for SW ATM and POS devices

Training and education

Gain the skills you need with training and certification from Hewlett Packard Enterprise. With HPE NonStop training, you accelerate your technology transition, improve operational performance, and get an excellent return on your HPE investment.

Our training is available when and where you need it, through flexible delivery options and a global training capability. More trainings and webinars can be found at nonstop-academy.com.

HPE Financial Services

HPE Financial Services: Creating investment capacity to accelerate digital transformation.

HPE Financial Services helps organizations create the investment capacity they need for digital transformation, in an innovative and sustainable way. HPEFS partners with customers to develop a playbook for their entire IT asset portfolio (from edge to cloud to end user), one that is unique to their aspirations and size. Our financial and asset management solutions are anchored by best-in-class tech upcycling services. For more information, visit: hpe.com/us/en/services/financial-services.html.

HPE Services

Leverage one of the most comprehensive support solutions tailored to meet your specific data center support requirement. HPE Services offers a wide choice of proactive and reactive service levels covering requirements ranging from basic to complex business critical environments. For more information, visit: [HPE Contractual Support Portfolio for HPE NonStop Systems at a glance](#).

Learn more at

[HPE.com/info/NonStop](https://hpe.com/info/NonStop)

Visit [HPE GreenLake](#)



Chat now (sales)