

ETITIET Your NonStop Partner



Advancements in backup and storage management, monitoring, MQ translation and workload automation.

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9/12/2023

3:45 PM - 4:45 PM

Denver 4







Data Protection

- BackBox®: Proven Virtual Tape Solution
- QoreStor®: Advanced Storage for BackBox

Management Solutions

- Sentinel: Dynamic Operations & Service Management
- C-Deep: Transaction Monitoring & Instant Search
- MQGate: IBM MQ Translator
- MultiBatch: Intelligent Workload Optimization



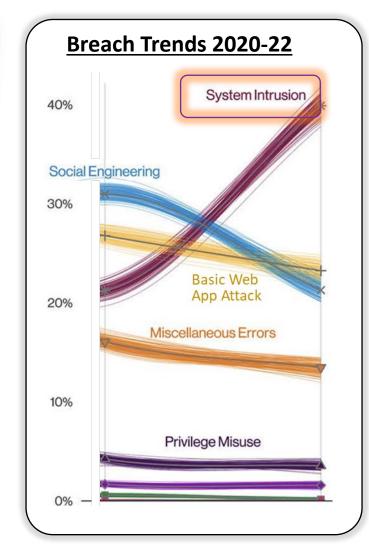
Your NonStop Partner.

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Top Cyber Criminal System Types & Targets



Verizon 2022
Data Breach
Investigations
Report



"When targeting companies, the criminals proceed to alter the company's backup so that they continue to run each night but no longer actually backup any data. This is where having those offline backups come in handy."

What to do to avoid becoming a target

"Keep a consistent schedule with regard to backups and be sure to maintain offline backups."





Advanced NonStop Backup & Storage Solution

Complementary Backup and Storage tools designed to Secure, Modernize, and Control NonStop data backup and restoration.



- Linear expandability & fault tolerance
- Multiple Disaster Recovery options
 - Multi-node on-site and geographic synchronization
 - Tape Catalog synchronization (Catsync)
 - Integrated storage management w/BackBox
 - 3-2-1-x best practice data protection adherence
 - HPE Solution (ProLiant, Service & Support)







NonStop Security Advancements

Meeting and exceeding NonStop security requirements through ETI-NET/HPE enhancements and BackBox/QoreStor functionality.

- System Build Snapshot (Bare-metal Restoration)
 - Saves and restores the \$SYSTEM image
 - Acts as the NonStop Media target for the \$SYSTEM image
 - *Places the image(s) in accordance corporate w/policy
 - *Restoration capability to select image from optimal location
- QoreStor with BackBox*
 - Integrated Storage
 - Data encryption in transit and at rest
 - Object (Cloud) Storage benefits: Immutability, off-site & off-line









Success story

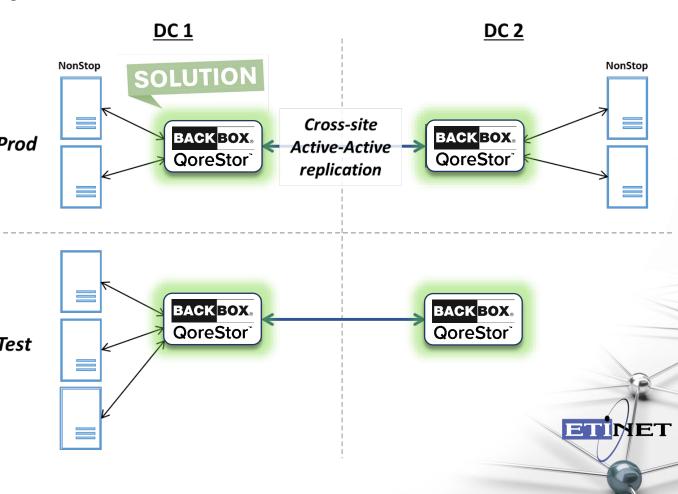


CHALLENGE

Immediate Backup Solution Replacement

Key Requirements:

- Robust data replication between sites
- Locally attached storage managed by VTC
- Data encryption at-rest (within the VTC) and in-transit (cross-site)
- Resilient connectivity to multiple NonStop systems via multiple FC
- Scheduling urgency: On-site and sustaining support (preferably from HPE) for installation, configuration, updates, and training







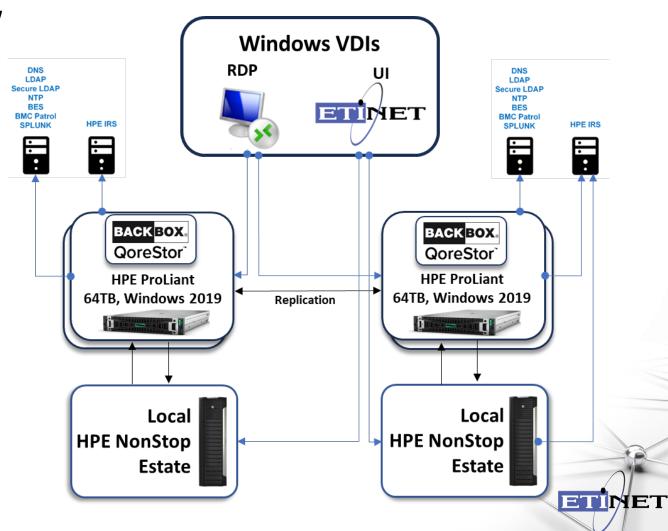
Success story



Production Solution Overview

4x VTCs / 12 NonStop Systems

- HPE ProLiant Servers
 - 64TB Storage (locally integrated)
 - Backbox (VTC MC & UI) runs in Windows
 - QoreStor runs as a VM in Hyper-V
 - 6 FC connections (per appliance)
- Windows VDIs deliver access to BackBox / QoreStor & NonStop
- Infrastructure HPE IRS remote monitoring to each VTC







Success Story - Results



Non disruptive NS system upgrade

Start to finish under 1Q to select, order, install, test, and deploy

Enhanced Security

Encryption at rest & in transit

Enhanced Support

- Streamlined (less time to answers)
- Common architecture (VTC & Storage)

Substantial Savings

- Common Platform for VTC & Storage
- GUI Modernization & Storage Control
- 88% Reduction in Data (added benefit)



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Success Story - Quotes



"The results of the project have been very successful; there were minimal issues encountered – very light touch. The BackBox-QoreStor de-duplication and compression delivers significant storage savings"

- Sr. NonStop IT Director

"When my customer had an issue with their Backup vendor going out of business, we knew from experience that the ETI-Net/HPE BackBox solution would be a great fit. The support we had from both ETI-Net and HPE Services Technical Consultants made the transitions to BackBox quick and painless and the benefits of QoreStor surpassed our expectations."

- Iain Liston-Brown, HPE NonStop Presales

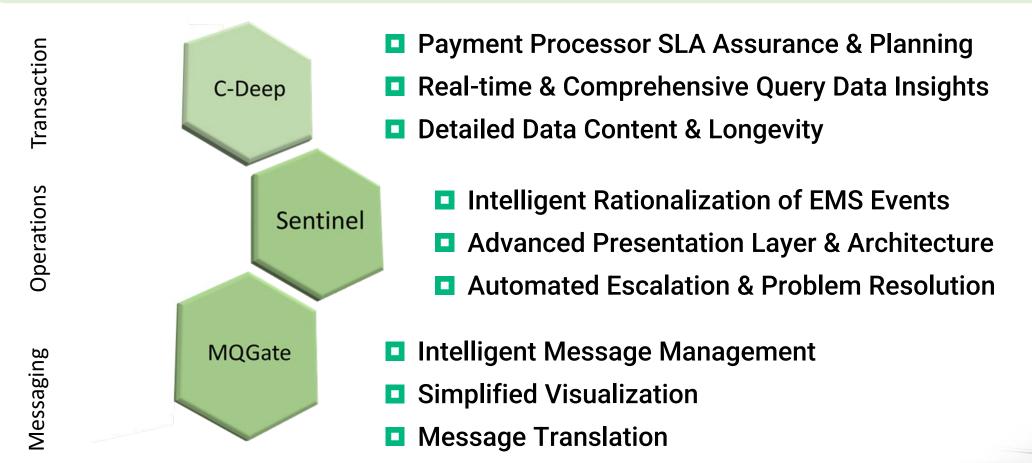
TIPLET





Advanced NonStop Management Tools

Complementary management solutions designed to modernize and enhance NonStop Operations, Transaction & Messaging Management.



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Sentinel for HPE NonStop

Sentinel Orestor*

Enterprise class NonStop system monitoring designed to simplify, rationalize, and deliver world-class operations and service management.

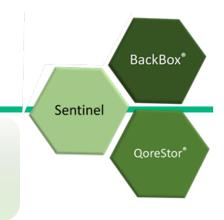
- Designed for operations to enhance monitoring of the entire NonStop environment and associated applications
 - Consolidation & object rationalization of EMS events
 - Global NonStop nodes, networks, subsystems, files and events
 - 3rd Party application support
- Real-time data rationalization & automation
 - Intelligent presentation of data
 - Automatic problem resolution
- Complementary suite of services
 - Automatic problem resolution
 - Software and Services part of the HPE NonStop Catalog
 - Intelligent monitoring of ETI-NET's suite of products

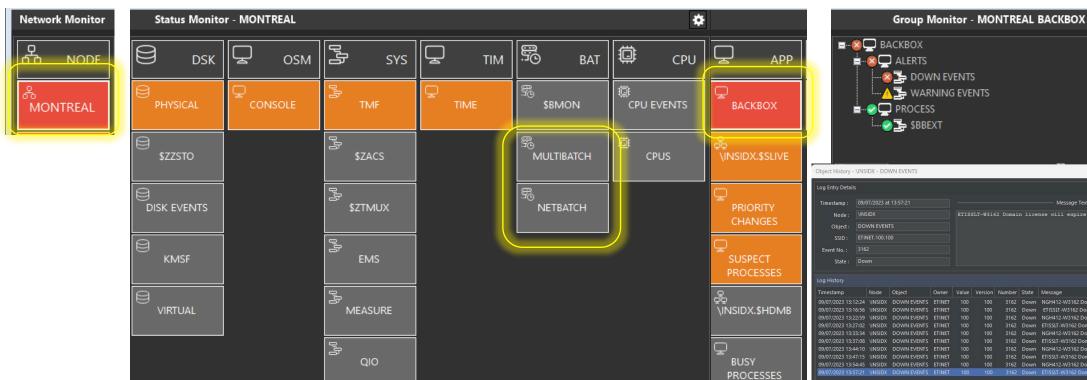


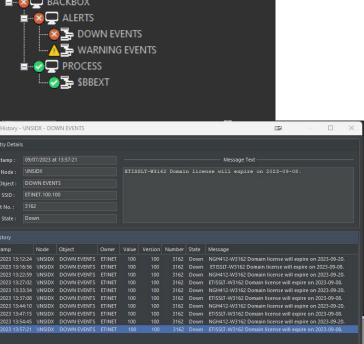


Sentinel Status Monitor & Drill Down

Delivering complete system monitoring covering all aspects of the NonStop environment.









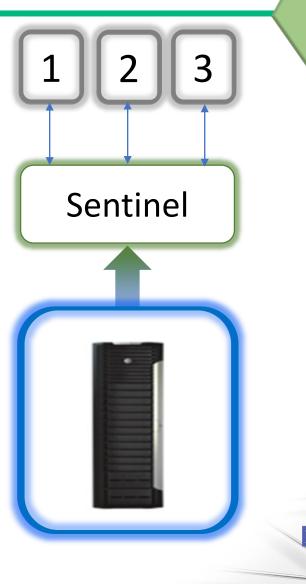
Success Story 1 of 2

Sentinel

CHALLENGE

Deliver Regional Monitoring of a Centralized NonStop System

- ID Relationship resource to region
- Utilize a standardized configuration of the processes to resource to associate to the correct region
- Utilize single team to monitor (consolidation)
- Real-time alerting





Success Story 2 of 2

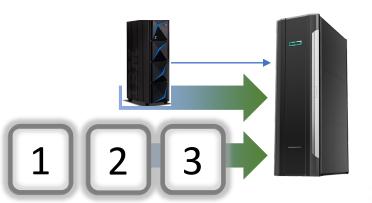
Sentinel

CHALLENGE

Confirmation of every file is processed within the stated SLA on NonStop

- Confirmation that files sent to NonStop from IBM mainframe and open systems have been processed
- Ability to establish and track thresholds in alignment with SLA requirement
- Ability to alert in real-time







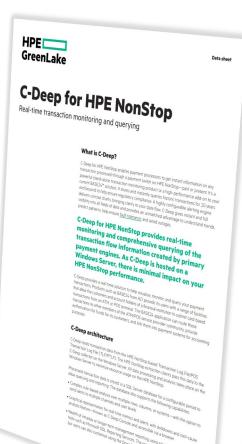


C-Deep for HPE NonStop

C-Deep

Powerful transaction flow tool allowing monitoring and query of every field and token created by primary payment engine applications.

- Built for payment processors operating POS | ATM application environments
- Operators get immediate information on delays in their payment infrastructure
- C-Deep can monitoring transactions by:
 - Volume
 - Card Type
 - Retailer
 - Response Code
 - Station Group
- Customized rules can be applied against any data source to alert to payment vulnerabilities to get ahead of the local regulator and proactively inform of any outages affecting customers





C-Deep Success Story (1 of 2)



CHALLENGE

Regulation Requirement (10Yrs. online transaction history)

- Real-time query of payment transaction data
- Easy to use (graphical)
- Concise search criteria
- Robust transaction data fields
 - Including complete token data
- Non-intrusive to NonStop System
- Able to load archive data into the live data repository









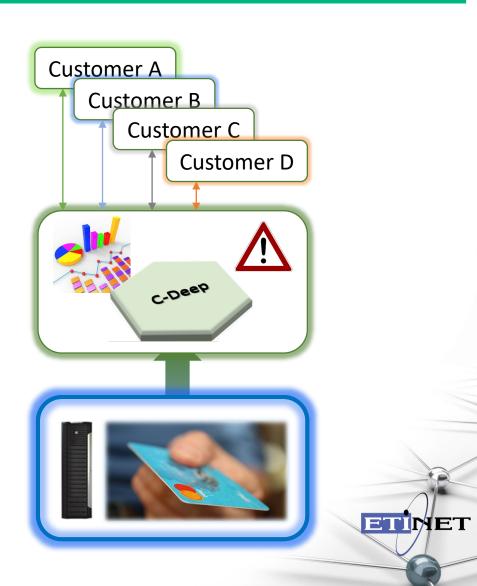
C-Deep Success Story (2 of 2)



CHALLENGE

Customer Satisfaction / SLA Adherence Requirements:

- Proactive Real-Time Payment Monitoring
- Customer Specific
- Graphical Dashboards
- Alerting
- **■** Non-intrusive to NonStop System



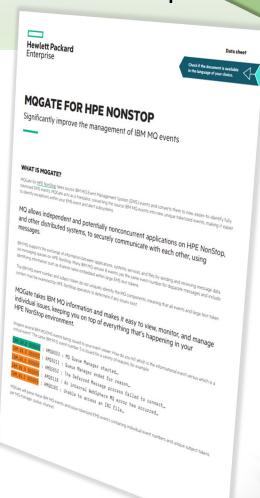


MQGATE for HPE NonStop

MQGate

Provides advanced management of communications between HPE NonStop applications, IBM and distributed systems.

- Differentiates between "identical" MQ events
- Includes an automated EMS template generator
- Convert existing MQ EMS events to unique, tokenized EMS events





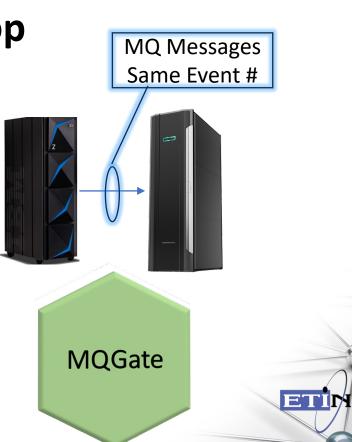
Success Story

MQGate

CHALLENGE

Improve operations understanding and ability to to quickly react to IBM MQ Events on NonStop

- Provide operators insight into IBM MQ events
- Improve operators' ability to react to MQ events





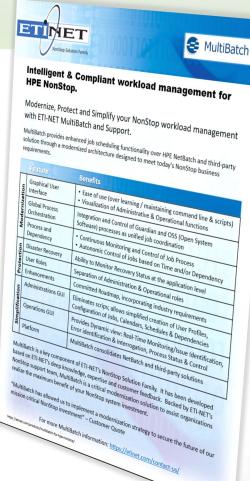
MultiBatch for HPE NonStop

MultiBatch

Modernized workload management designed to protect and simplify

your NonStop workload management.

- Modernization
 - Graphical User Interface
 - Global Process Orchestration
 - Continuous Processing & Automatic Control
- Protection
 - Disaster Recovery
 - Separation of Administrative & Operational Roles
- Integration
 - Consolidation with NetBatch and 3rd Party Solutions





Success Story



CHALLENG

IBM Scheduler NonStop End of Life & Complexity

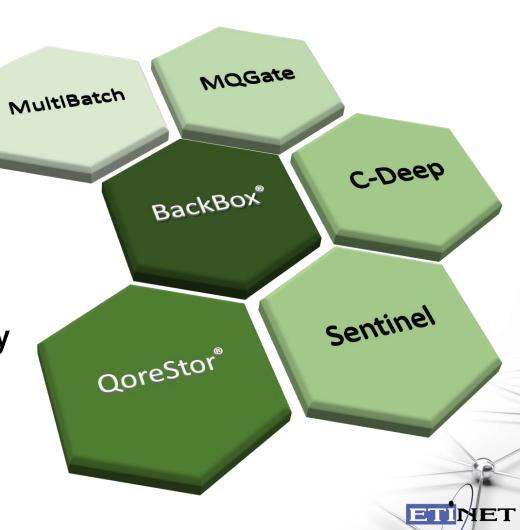
- Number of jobs
- Complexity of dependencies
- Easy to administer and operate
- Future platform for OSS system administration





ETI-NET NonStop Benefits Summary

- Best practice data protection
- Modernized architecture
- Regulatory compliance
- Service Level Agreement (SLA) Attainment
- Data insights (Customers & Operations)
- NonStop Database Management Complexity
- Intelligent processing
- HPE Service & Green Lake programs







Thank You



