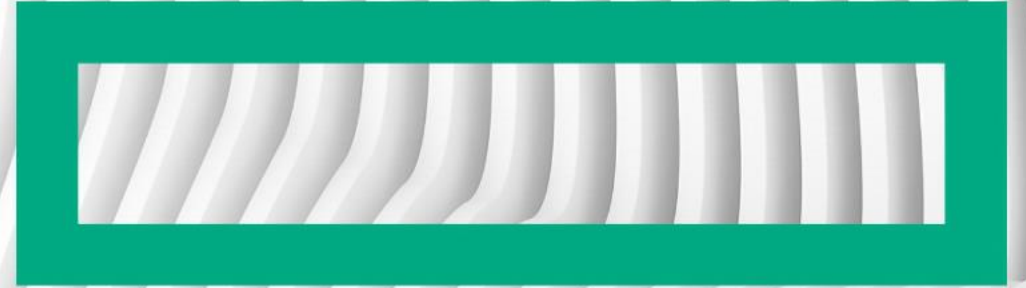




Hewlett Packard
Enterprise

NonStop 2Q 2024 Roadmap Update



Ian Inglis, NonStop Product Management

Berlin

April 9, 2024

Forward-looking statements

This is a rolling (up to three year) roadmap and is subject to change without notice.

- This document contains forward looking statements regarding future operations, product development, product capabilities and availability dates. This information is subject to substantial uncertainties and is subject to change at any time without prior notification. Statements contained in this document concerning these matters only reflect Hewlett Packard Enterprise's predictions and / or expectations as of the date of this document and actual results and future plans of Hewlett Packard Enterprise may differ significantly as a result of, among other things, changes in product strategy resulting from technological, internal corporate, market and other changes. This is not a commitment to deliver any material, code or functionality and should not be relied upon in making purchasing decisions.



TRENDS ACCELERATING DISTRIBUTED ENTERPRISE

92% of enterprises have adopted a multi-cloud strategy¹

70% of applications are outside the public cloud²

50% of datacenters will be operated via an as-a-service consumption model by 2024³

- 1 Flexera 2021 State of the Cloud Report
- 2 IDC Cloud Pulse
- 3 IDC's Worldwide Consumption-Based IT Infrastructure Taxonomy, 2020

CUSTOMER CHALLENGES

1 Turn data into business value
Breaking down data silos accelerates decision velocity and enables you to see around corners

2 Align cloud services to business objectives
Linking business logic with technology drives better decisions across costs, policies, and more

3 Securing apps and data
Centralized security and compliance processes reduce financial and reputational risk

4 Automating operations
Leveraging automation, through APIs and CLIs eliminates redundant, manual tasks and speeds time to value

5 Overcoming skill and resource gaps
Offloading the burden of operating IT frees resources to focus on innovation and growth

6 Working with fragmented toolsets
Unified operating environments and toolsets eliminate silos and accelerate app deployment

Empowering Customers with Choice

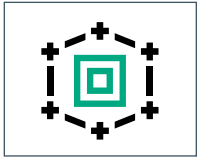
NonStop X

Today's proven converged solutions



Virtual NonStop

Private cloud solution



NonStop in Hybrid Cloud

Managed, secure, consumption choice



Next Generation Solution

Turn-key experience & flexibility



Ultimate data availability
and integrity



Security and
compliance



Innovation and reliability
convergence



Scalability
and resilience



HPE NonStop Roadmap highlights

	Current		Next		Future
Workload Solutions	Real-time Analytics	Smart Manufacturing	Counter Fraud	Smart Manufacturing 2	Future Workloads
	Digital Payments	Digital Resilience	Digital Resilience 2	NonStop as a Service	
Core Platform	NonStop OS RVU L23.08	Middleware Updates	L series OS release	Kernel Level Threading	L series OS release
	SQL/MX 3.8.2	Cloud Dev Environment	Transparent Data Encryption	e2e Cloud Dev Environment	NonStop on Ethernet
Infrastructure Solutions	Virtualized NonStop	Pay-per-Use on GreenLake	NonStop in Public Cloud	Next Generation Solution	NonStop in General Fleets
	NS2	NS4, NS8			



■ Shipping
 ■ Planned
 ■ Investigation
 ■ Available through HPE GreenLake & partners

Subject to change without notice

Workload Solutions



NonStop Smart Manufacturing



Data Centric

Fail Safe

As a Service

Data centric and AI powered architecture for manufacturing execution systems

Pain Points

- Reducing costs while increasing quality is the key challenge and balancing act in discrete manufacturing
- Discrete manufacturing or customizations at scale
- Disparate systems lacking real time data integration
- Disaggregated service providers

Value Proposition

- Fast and agile implementation of new factories
- Flexibly expandable for new product variants in your production
- Increased quality
- Real-time data and process control
- Digitalized processes in the Paperless Factory
- Low maintenance and service costs

NonStop Digital Resilience



Fundamental

Uncompromising

Protected

Deploy with confidence and have peace of mind against security threats

Pain Points

- Ever increasing cyber-crimes including ransomware attacks pose substantial risks for organizations of all sizes¹
- Understanding and navigating through complex regulations and standards like DORA, PCI DSS, and HIPAA presents a significant challenge^{2, 3}
- It demands considerable resources and expertise to interpret and execute compliance measures effectively
- Current recovery technologies do not meet the organizations' desired SLA's

Value Proposition

- Bolster digital resilience against cyber threats including ransomware attacks
- Mitigating the risk of penalties and legal consequences associated with non-compliance
- Minimize downtime, mitigate financial losses, and safeguard the organization's reputation

¹"Top 5 Cyber Predictions for 2024: A CISO Perspective", Zscaler, 2024

²"Top 3 Regulatory Concerns of European Organizations for the Next Two Years", 2023

³"7 Challenges That Stand in the Way of Your Compliance Efforts", CYREBRO, 2021

NonStop as a Service



Agile

Unified

Choice

Securely transform your IT focus from the manual and mundane to the strategic and value-add

Pain Points

- IT to be software defined, agile and be light on capital
- Costs of running IT not aligning with revenue streams
- Resource commitment for managing IT infrastructure instead of on business value
- Availability of skillsets to manage the HPE NonStop platform
- No one cloud meets all requirements; need hybrid or multi-cloud

Value Proposition

- Deploy NonStop workloads with a true hybrid cloud deployment experience
- Align with the corporate IT strategy with required level of control of IT assets and data
- Free resources away from managing the IT infrastructure and focus on business results
- Align IT costs with revenue and conserve capital

NonStop Counter Fraud Solution



Real time

Intelligent

Loss Mitigation

Advanced data transformation functions operating in real-time over streaming data against fraud

Pain Points

- Online payments, open banking and mobile payments exponential expansion combined with threats of AI powered security attacks require banks and retails to up their game constantly in fraud detection systems
- With many different systems of varying size, country domestic networks and local regulations, gathering data relevant to fraud detection requires enormous agility and speed of execution

Value Proposition

- Enhances fraud detection with richer datasets by connecting and correlating multiple sources of data simultaneously
- Speed matters, delivering sub-second data transformation, ensures data is used at the peak of its value
- Data, analytics and AI & ML can be combined to produce the most comprehensive and advanced fraud detection

Core Platform



NonStop Core Platform



Secure

Accelerated

Open

Modernizing the core of the platform to advance your capabilities

Value Propositions

- Transparent Data Encryption
 - Preventing unauthorized data access and preserving data privacy without hindering innovation
 - Comply with regulations such as PCI DSS 4.0, GDPR.
 - No application change to achieve higher protection than storage or volume level encryption
- Kernel Level Threading
 - Higher performance applications
 - Exploits parallelism and efficient core utilization
 - Capable of scale-out & scale-up
- e2e Cloud Development Environment
 - Liberates resources with a virtual environment
 - Completes a cohesive application development chain
 - No prepaid term licenses, Pay-as-you-go SaaS

Action Required: NSJ 8 is going out of support

- **For customers using NSJ 8 (Ported binaries on HPE NonStop Servers, Java SE 8)**
 - **Support for NSJ 8 stops in July 2025. There will be no more patches.**
 - No defect, including critical security defects, shall be patched
 - **Start upgrading to NSJ 11 Update 2 or NSJ 11 Update 3 now**
 - All releases of NSJ 8 will enter LIMITED¹ support status in July 2025. As announced in SPML February 2022
 - NSJ 11 and updates offer only a 64-bit JVM. NSJ8 Applications may be using 32-bit JVM.
 - **NSJ 8 Users must start upgrading now**
 - Move directly to NSJ11 U2 (or) NSJ 11 U3 instead of prior NSJ11 versions.
- **For customers using NSJ 11 and NSJ 11 Update 1**
 - **All users are advised to move to NSJ 11 U2 (or) NSJ 11 U3 at the earliest**
 - T3066 L11 ^AAC & prior SPRs are in MATURE state now. Will go to LIMITED state in July 2025
 - T3066 L11 ^AAD & later SPRs will go to MATURE state in August 2024
 - HPE will not ship any defect fixes, including security fixes, after July 2025 for AAC & earlier SPRs



Infrastructure Solutions



HPE NonStop Solutions Family Today

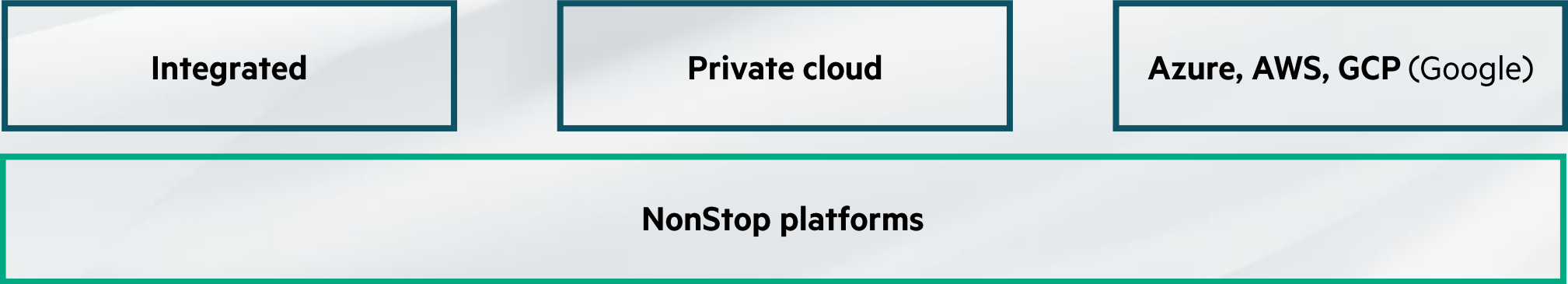
NonStop L-Series software		
NS8 Powerful and expansive	Virtualized NonStop Private cloud	NS7 Powerful and expansive
NS4 Entry-class	NS2 & vNS Entry-class	NS3 Entry-class
Massive scalability		
Highest fault tolerant availability for continuous computing		
NonStop – the only fully integrated, fault-tolerant compute on x86		



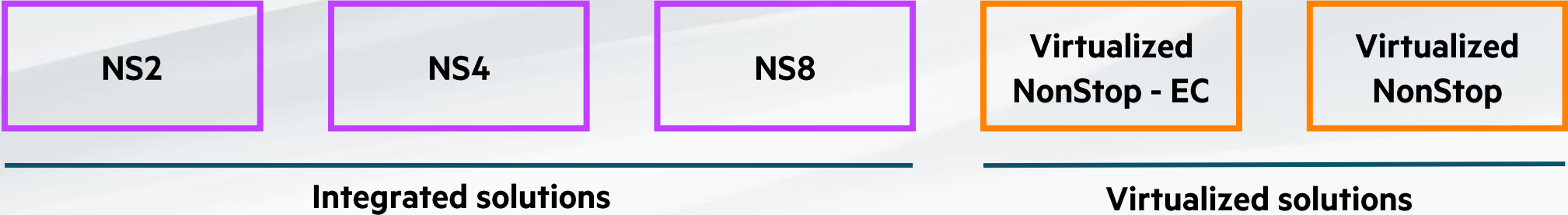
HPE NonStop Solutions Direction

Common approach – multiple deployment architectures

Future

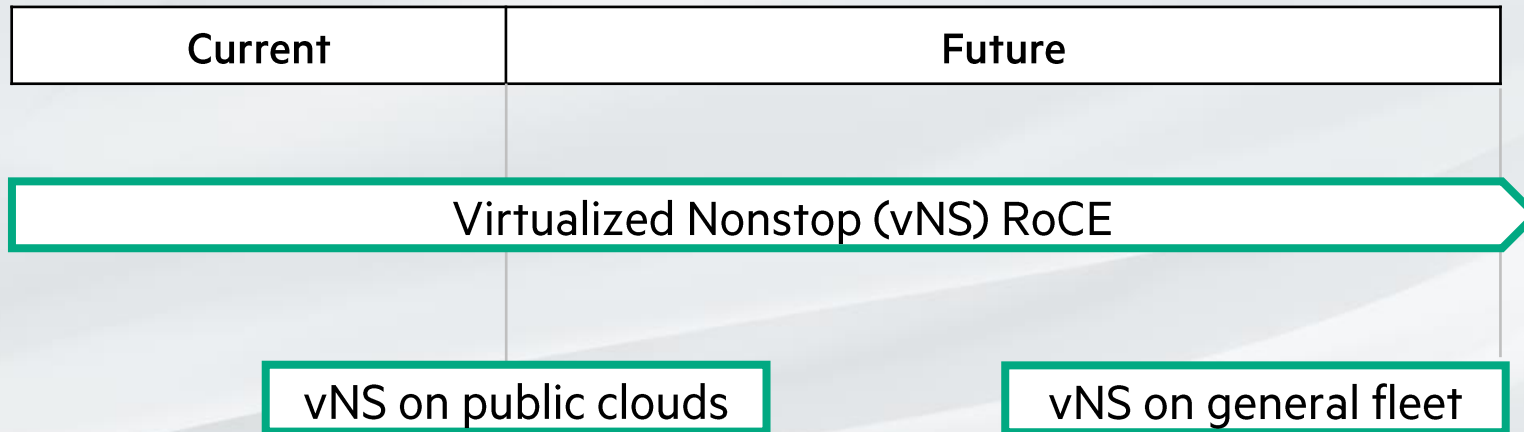


Today



Solutions Platform Roadmap

NonStop Virtualized Solutions



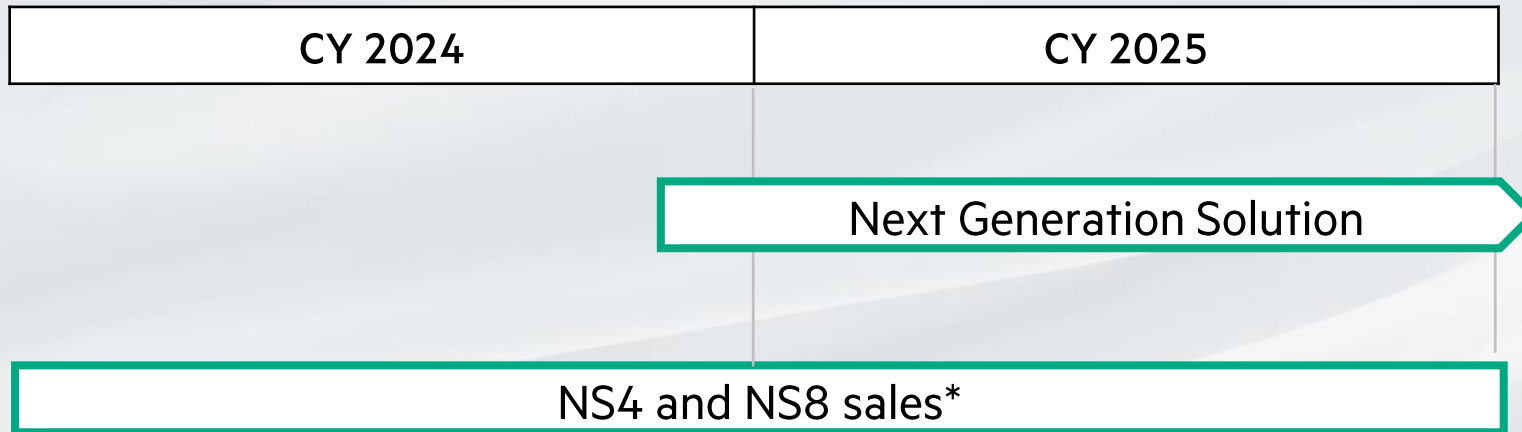
Subject to change without notice

*Subject to availability



Solutions Platform Roadmap

NonStop Integrated Solutions



Subject to change without notice

*Subject to availability



NonStop Next Generation Solution



Compatibility

Turnkey

Flexibility

Another generation of NonStop delivering the same fundamentals & experience

Value Proposition

- Runs the L-series RVU
- Fully integrated turnkey solution ala the NS2, NS4, and NS8
 - Built on HPE industry standard hardware
- Uses the Linux KVM hypervisor
 - Transparent to the customer
 - Leverages the power of virtualization
 - Fully managed and deployed as part of the RVU
- 100% application binary compatibility
- Same management tools as NS4 and NS8
- Same NonStop fundamentals of availability, scalability, and security

“Say Hello” Next Generation Solution

Next Gen TACL Session

Next Gen Solution Prototype

Management Window for the OSM Service Connection

The screenshot displays the HPE OSM Service Application interface. On the left is a tree view of the system components, including Physical System VACES, Monitored Service LAN Devices, Root X and Y Fabric Switches, SAS Disk Enclosures, vHost Collection (vHost SZZCIP.VHOST000-007), System VACES (Internal X and Y Fabric, CLIM Attached Disks), and CLIMs (CLIM SZZCIP.NCLM000-006 and SCLM000-007). The main area shows a detailed view of vHost SZZCIP.VHOST007, including its Innovation Engine (IE) version (2.5), Logical attributes (CIP Software Version, Configured Operation Mode, Connection Status, Device State, Down Physical Network Interfaces, Linux Version, Maintenance Interface IPv4 Address, Temperature Status, Up Physical Network Interfaces, X Fabric Connection State, Y Fabric Connection State, I/O DNS Name, I/O IPv4 Address, I/O Link Pulse State), and Physical attributes (Model: ProLiant DL380 Gen11, Part Number: P53534-821, Serial Number: 2K240302SR, Physical Location).



Empowering Customers with Choice

Thank you eGTUG, Berlin

Contact: Ian Inglis (ian.inglis@hpe.com), NonStop Product Management

