



Solution brief

Drive GenAI productivity

Unify enterprise knowledge for trusted GenAI with HPE Private Cloud AI, co-developed with NVIDIA as part of the NVIDIA AI Computing by HPE portfolio, and Internal Blockify Data Optimization



Unlock enterprise knowledge for AI at scale

Across industries, enterprises are racing to harness GenAI to boost productivity, streamline operations, and unlock new value. But most face a critical barrier: Business knowledge is fragmented, buried in legacy systems, and scattered across disconnected documents and applications.

Without a unified, governed way to structure and contextualize this information, agentic GenAI models struggle to deliver accurate, trustworthy results. The consequence is hallucinations that lead to low adoption and limited ROI.

Traditional approaches like document “chunking” fall short. They’re brittle, expensive, and prone to retrieval failures, especially when content is outdated or poorly organized.

Enterprises need more than infrastructure. They need a way to make their knowledge AI-ready.

That’s where HPE, NVIDIA, and Iternal Technologies come in. Together, HPE Private Cloud AI, accelerated by NVIDIA GPUs, and Iternal Blockify data optimization technology offer a powerful foundation for secure, scalable GenAI, paired with intelligent information management that is purpose-built for today’s AI demands and tomorrow’s AI agents.



Elevate GenAI outcomes with intelligent knowledge structuring

HPE Private Cloud AI, co-developed with NVIDIA as part of the NVIDIA AI Computing by HPE portfolio, delivers the secure, high-performance foundation enterprises need to operationalize GenAI at scale. Built for regulated industries and complex workloads, it combines the flexibility of cloud-native architecture with the control of on-premises infrastructure, enabling organizations to run AI where their data lives, with full governance, cost efficiency, and enterprise-grade reliability. But infrastructure alone isn't enough. To unlock real productivity gains, GenAI must be fed with clean, contextualized, and trustworthy knowledge.

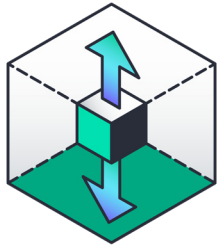
Internal Blockify data optimization technology amplifies the value of NVIDIA GPU-accelerated HPE Private Cloud AI by transforming fragmented enterprise content into modular, governed IdeaBlocks. IdeaBlocks are structured units of knowledge optimized for GenAI and agentic search and retrieval. This intelligent layer bridges raw data and AI workflows, dramatically improving accuracy, trust, and performance. IdeaBlocks are:

- **Structured-first:** Documents are decomposed into metadata-rich blocks of information, which are far more precise than traditional text chunks.
- **Governed and auditable:** Each block is versioned and traceable, reducing compliance risk and enabling trusted GenAI inputs while keeping humans in the loop.
- **Optimized for retrieval augmented generation (RAG) and agentic search:** Blockify makes internal data clean, contextualized, and accessible, which is critical for RAG and other enterprise AI agents to deliver relevant, real-time answers that can be trusted.
- **Token and infrastructure savings:** Blockify data distillation and optimization can reduce the input token requirements for an AI system by up to 300% (3X reduction) meaning the compute costs required to process AI queries can be substantially optimized for energy and financial savings.¹



By preparing enterprise knowledge this way, Blockify solves a core GenAI challenge: Enabling models to access trusted live, business-specific information, instead of noisy, disorganized, and outdated enterprise data.

¹ Internal, [What is Blockify](#), accessed October 2025.



Learn more at

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Strategic synergy for scalable, trusted GenAI

Together, HPE Private Cloud AI, NVIDIA GPUs, and Internal Blockify deliver a high-impact foundation for enterprise GenAI that combines infrastructure, governance, and intelligent data structuring to accelerate results.

- **Faster AI deployment:** Blockify streamlines ingestion, enabling rapid rollout of GenAI apps on the ready-to-run HPE Private Cloud AI platform, co-developed with NVIDIA as part of the NVIDIA AI Computing by HPE portfolio.
- **Trusted knowledge at scale:** With up to 78X improved accuracy, Blockify reduces hallucinations and ensures AI taps into governed, structured data via HPE's unified fabric.¹
- **Efficient performance:** Intel® CPU acceleration and NVIDIA GPU acceleration, modular architecture, and Blockify "Intelligent Distillation" enable scalable, cost-effective AI workloads with up to a 3X reduction in input token processing.¹
- **Cloud agility with control:** On-premises HPE Private Cloud AI, co-developed with NVIDIA as part of the NVIDIA AI Computing by HPE portfolio, paired with Blockify preserves data sovereignty while delivering cloud-native flexibility.

This integrated approach empowers enterprises to unlock GenAI productivity—securely, accurately, and at scale.

Take the next step

GenAI success starts with the right foundation. HPE Private Cloud AI, accelerated by NVIDIA GPUs, delivers secure, high-performance infrastructure, while Internal Blockify makes your enterprise knowledge structured, governed, and AI-ready at scale.

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