



Simplifying data management complexity is essential to becoming data-first

Three actionable ways to accelerate your transformation starts here

Get started >



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Data is the life force that drives your business

Why addressing data management complexity is vital to success

A recent study from ESG found that 74% of the IT professionals surveyed acknowledged that their data management capabilities can't keep pace with business requirements.¹

There is a growing divide between organizations who've sprinted ahead—and those being left behind—in digital transformation. The divide is being widened by data because businesses are finding it difficult to unlock its value. Doing so is not easy. You must ensure data remains available 24x7 to power applications and that the business can run applications efficiently and effectively. You must protect data from ransomware, cyberattacks, and disruptions and make data accessible. And you must contend with ever-increasing complexity.

Complexity in data management takes many forms. It includes data silos, the need for specialized tools, constant firefighting, lengthy procurement processes, and provisioning cycles that hinder strategic business initiatives. Those challenges have only grown as IT resources and data have begun to span across the edge, core, and cloud.

For example, the average organization today relies on 23 different data management tools to manage the lifecycle of their data and data infrastructure.² In fact, a recent study from ESG found that 74% of the IT professionals surveyed acknowledged that their data management capabilities can't keep pace with business requirements.³

Data management complexity has the potential to hold customers back, with a cost to agility, innovation, and risk. That's why simplifying data management and data infrastructure is vital as you advance as a data-first business.

^{1, 3} [Why Being a Data-first Leader Matters, 2022](#). Data referenced was derived from ESG's Data Management Maturity Study of 750 IT Decision Makers, commissioned by HPE, November 2021, as summarized in this eBook

² [Why Data Management Complexity Is Inhibiting Innovation](#), ESG eBook commissioned by HPE, August 2021

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Use data-first modernization to simplify data management

Benefits of simplifying data management, a key essential to data-first modernization

- Eliminate siloed data and manual processes
- Streamline and automate management across the data lifecycle
- Protect and recover data
- Harness and scale data
- Manage data sprawl
- Enable data accessibility

Organizations undertake digital transformation so that they can do more with their data. Adopting a data-first approach can help them make decisions that will reduce data complexity.

Being data-first is about making data the focal point of every aspect of digital transformation so that transformation becomes focused more on data and the value it can create and less on simply modernizing infrastructure.

To help you become data-first, Hewlett Packard Enterprise has developed a data-first modernization approach comprising principles, strategies, services, solutions, and best practices. The data-first modernization approach can speed you up on the path to removing complexity from data management.

In this eBook, we'll look at three ways to simplify data management, because the challenge is less daunting when you know where to start.

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Transform faster with a cloud operational experience

2

Simplify data access by unifying data

3

Modernize data protection



Transform faster with a cloud operational experience

A critical step to removing the complexity that also helps you empower your end users.

91%

of IT professionals agree that mature cloud operations on-premises is the single most important step to eliminate complexity, according to recent research from ESG.⁴

The speed and agility of a cloud operational experience everywhere holds the key to removing complexity. Public cloud has set the standard for agility with a cloud operational model that enables the line of business (LOB) owners and developers to build and deploy new applications, services, and projects faster than before. This renders underlying infrastructure invisible, enabling a shift to app-centric operations.

Now, extending that idea further, organizations are seeking to bring the benefits of the cloud operational experience to wherever their data and app workloads live, from edge to on-premises to colocation. The challenge is that the ability to provide a cloud operational experience everywhere has been limited to date.

For starters, managed services come at a premium. Customized, managed service offerings are the right fit for large-scale customer deployments—but they come at a higher cost. Moreover, most storage-as-a-service (STaaS) offerings, which typically commit to four-nines availability, are not suitable for mission-critical applications that require six-nines or even 100% availability.

Finally, current on-premises STaaS vendors don't deliver self-service agility. They've introduced pay-as-you-go consumption, which is fine as far as it goes, but customers must still deal with a traditional storage management experience, including the need for storage domain expertise around Day 2 operations and beyond.

This is why HPE provides solutions such as STaaS that can help you succeed as a data-first business.

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⁴ Why Being a Data-first Leader Matters, 2022. Data referenced was derived from ESG's Data Management Maturity Study of 750 IT Decision Makers, commissioned by HPE, November 2021, as summarized in this eBook



STaaS from HPE empowers you to help eliminate complexity by bringing the speed and agility of a cloud experience to apps and data everywhere.

- **Go faster with self-service agility:** Simplify on-premises storage with the speed and agility of an AI-driven cloud operational experience. This makes underlying infrastructure invisible while shifting operations to be app-centric, not infrastructure-centric. LOB and database admins can effortlessly procure and provision storage to accelerate app deployment—freeing up IT resources to work on strategic, higher-value initiatives.
- **Reduce risk by running any app without compromise:** Meet your SLAs for any app, from traditional to modern, with the right performance, resiliency, and efficiency. Simply choose the service levels that your workloads require with an as-a-service portfolio of proven, enterprise-grade, on-premises cloud data services, nothing to hold you back, and everything you need to accelerate. Make the best choice for your critical enterprise applications with a STaaS solution that guarantees 100% data availability for mission-critical apps, as well as six-nines for all other workloads.⁵
- **Speed time to value and slash costs by consuming as a service:** Shift from buying and maintaining data infrastructure to simply accessing and utilizing it in a flexible, as-a-service consumption model.



⁵ [HPE Storage Substantiation](#), HPE, 2022



Simplify data access by unifying data

Creating a single, unified point of access to all your enterprise's data yields a host of benefits.

Benefits of creating a unified access point to your data

- Eliminate barriers that arise when data is distributed across multiple physical locations
- Establish a simple way to onboard new data sources
- Provide real-time access to data to meet the expectations of data consumers
- Enable your data consumers' tools easily to analyze multiple data types
- Achieve this with a finite set of resources

When businesses can access their data and apply analytics, machine learning (ML), and artificial intelligence (AI), they can gain insights into customer behavior, improve operational efficiency, and predict future outcomes. But different data types stored across multiple physical locations continue to grow, creating numerous hurdles.

Placing large amounts of data into a cloud, data lake, or warehouse does not automatically create meaningful insights. What you need is an innovative approach to manage and glean value from data.

Depending on your business's unique needs, an HPE expert might recommend a solution such as data fabric technology.

Data fabric technology is seeing rapid adoption across global enterprises. Data fabric solutions incorporate autonomous functions to accelerate data intelligence by making advanced automation easier. The functions simplify data access enterprise-wide and facilitate the integration of both legacy and modern technologies, allowing their data to reside in their native format within the data fabric.

To simplify data management, data fabric technology provides real-time access to comprehensive data required by data scientists, engineers, and other data consumers to generate trusted insights and innovations. A data fabric unifies different data types, formats, and platforms into a single logical data source without complex ETL processes and copying of data.



Modernize data protection

Get the peace of mind that your data is rapidly recoverable, is always secure, and provides value to your business without compromise.

Data protection modernization provides your organization with an opportunity to:

- Simplify backup and recovery operations to make it easier to protect data across every SLA
- Protect data from ransomware attacks effectively while complying with data protection regulations
- Align infrastructure to actual use to optimize the use of resources and avoid costly overprovisioning
- Eliminate silos by streamlining data protection operations across on-premises and hybrid cloud

As you make more data readily accessible, protecting it is a key element in data management. And when it comes to data protection modernization, most businesses realize they cannot afford to wait.

Recent research shows

57%

of organizations expect to increase spending on data protection in 2022.⁶

26%

of organizations rated improving data backup and recovery as a top 5 area of data center modernization planned for the next 12 to 18 months.⁷

The DPaaS offerings from HPE have redefined backup and recovery with the simplicity and flexibility of the cloud experience. Cloud-native services can help eliminate the complexity of protecting your data and free you from the day-to-day hassles of managing the backup infrastructure. The innovative approach to backup lets you meet SLAs in hybrid cloud environments and simplifies your infrastructure, driving significant value for your organization.

^{6, 7} [Modernize Data Protection with HPE GreenLake for Data Protection](#), ESG Impact Validation Report commissioned by HPE, March 2022



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Simplifying data management is essential

Get on the fast path and avoid falling too far behind.

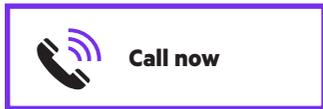
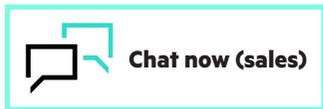
Data is the life force that activates next-generation operating and business models to move your business forward, faster. But to unlock your data's value, you must eliminate the data and infrastructure management complexity, silos, and risks across edge to cloud that slow you down.

HPE can help you simplify data management with cloud operations everywhere, unify and simplify data access, and modernize protection for your data. Our data-first modernization approach enables you to unleash the power of your data, increase your business's agility and innovation, and accelerate your digital transformation journey.

Learn more about how to:

- Transform faster with a cloud operational experience: [HPE GreenLake for File Storage](#) and [HPE Alletra](#)
- Simplify data access: [HPE Ezmeral Data Fabric](#)

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