Solution brief

HP and Microsoft put the power of Big Data in everyone’s hands

HP ConvergedSystem 300 for Microsoft Analytics Platform
Empower your people with a scalable, finely tuned Big Data analytics platform that can be deployed quickly and cost-effectively with confidence from HP and Microsoft.

Competitive differentiation

Integrated business insight
The only purpose-built appliance customized for Data Warehouse (DW), Hadoop, with the HP Support Pack.

Near real-time insights
- 100x faster queries\(^1\)
- 30% better scan rate\(^1\)

Scale with your business
- Up to 6 PB for DW\(^2\)
- Up to 1.2 PB for Hadoop

Deploy with confidence
Factory-built information appliance pre-loaded with Microsoft Analytics Platform System—designed by HP and Microsoft

New opportunities for better business insight

Organizations are moving to Big Data in a big way. They want the benefits of being able to rapidly process vast amounts of data from a multitude of information sources to provide new advantages to their business. The challenge with Big Data is that it’s been complex and expensive to implement. You want a system that you can quickly migrate to with zero risk of disruption, and manage easily for a fast return on investment (ROI). It needs to be on a workload optimized platform with proven performance and high availability. And it has to be cost-effective from the start, while scaling as your requirements change to support analytics, data warehousing, and applications.

The HP ConvergedSystem 300 for Microsoft\(^\circledR\) Analytics Platform (APS) is purpose-built, factory-integrated, and tuned for the data-intensive workloads you require for your Big Data, business intelligence (BI) and analytics applications.

Joint development for simplicity and performance

Microsoft is the recognized leader in the BI/DW market, and HP is a worldwide leader in servers and storage. We have a rich history of developing Big Data and data warehousing solutions, and successfully bringing them to a global market. In 2010, we began with the HP Enterprise Data Warehouse Appliance and have evolved to the new HP ConvergedSystem 300 for Microsoft Analytics Platform. We continue our joint commitment to develop solutions that enable organizations of all sizes to conveniently and cost-effectively implement Big Data with confidence from two market leaders.

1 Compared to previous generations based on HP and Microsoft performance benchmarks
2 Based on 5:1 compression
Data management solutions to meet your business needs

The HP ConvergedSystem 300 for Microsoft Analytics Platform is flexible so as to meet your needs both today and in the future. The modular design allows you to deploy it either as a dedicated, massively parallel relational data warehouse, or as a mixed platform that analyzes data from Hadoop non-relational data sources. You can start small and grow the appliance as your information needs change along with your business.

If you already have an HP ConvergedSystem 300 for Microsoft Analytics Platform or the HP AppSystem for Microsoft SQL Server 2012 Parallel Data Warehouse (PDW), you can easily upgrade to include additional scale units for SQL Server PDW or HDInsight, Microsoft’s Hadoop distribution, based on the Hortonworks Data Platform for Microsoft Windows® that brings a 100 percent Apache Hadoop solution to the data warehouse.

Any data. Any source. Any type.
The HP ConvergedSystem 300 for Microsoft Analytics Platform is simple to use despite the potential complexities of the underlying data. Your Hadoop data can be queried without having to first load it into the data warehouse. And standard SQL Server queries can be used to access and join your Hadoop data with your relational data.

Accelerated information time-to-value
HP ConvergedSystem 300 for Microsoft Analytics Platform, built on the foundation of HP ProLiant Gen9 servers and in-memory functionality, provides improved query performance of up to 100x at one of the lowest price data warehouse appliance per terabyte in the industry. This means that you can expand the user base of your analytics system, and put the power of information into the hands of more people throughout your organization for increased productivity.

Our solution partners

Standard tools for accelerated insight
By using standard Microsoft tools—such as Excel or Power-BI already deployed in your organization, your users can quickly make use of your new platform without having to go through a training cycle. This means that as soon as your HP ConvergedSystem 300 for Microsoft Analytics Platform is delivered and configured, your organization can begin to reap the benefits of integrated business insights.

Fast time-to-value
As a pre-built, factory integrated solution, HP ConvergedSystem 300 for Microsoft Analytics Platform is delivered as a pre-configured and tested appliance, installed and tested at your site by a team of HP and Microsoft engineers for rapid deployment.

Scale easily as your data needs change
With linear scalability of up to 6 PB for relational data warehouse data and 1.2 PB for Hadoop data, it’s easy to scale out by adding new scale units as your data volumes increase. You can be confident that your new, expanded capacity nodes will be seamlessly integrated and your entire installation fine-tuned for performance.

HP Support Pack for diagnostics and lifecycle management
Keeping the HP ConvergedSystem 300 for Microsoft Analytics Platform running at peak performance is critical. But maintaining the overall health and versioning of the appliance infrastructure—servers, storage, and networking—and their associated firmware and drivers can be daunting. Each appliance is validated and tested to run a specific combination of software firmware and drivers, with updates as new features and enhancements are added over its lifespan.

Included with the purchase of the appliance, the free HP Support Pack includes a suite of tools designed to help customers with lifecycle management, including appliance validation, diagnostics, and tested firmware and driver packages to simplify updates for an increased ROI.

Collaborative support approach
Each HP ConvergedSystem 300 for Microsoft Analytics Platform is delivered along with a unique collaborative support agreement between HP, Microsoft, and you as the customer. With a unified solution support experience, disruptions are minimized and unnecessary downtime avoided. You have the full assurance that risks are mitigated to meet the service-level agreements with your analytics users all across your organization.

HP and Microsoft—partners you can trust
HP and Microsoft’s 30-year partnership is one that you can rely on. From your initial investigation through to deployment and support, we’ll be there for you 24x365 no matter where you are in the world. With over 29,000 joint HP/Microsoft partners and HP’s 48,000 Microsoft-trained professionals, you can rest assured that you’re in the best hands.

Integrated data management—let’s do it together
With data volumes increasing and new data sources presenting new opportunities, you know that you need to branch out and explore the potential that integrated insight can bring to your business. And if you’ve already started on that journey, you want to reap the benefits of integrated, near real-time data analytics across both relational and non-relational data sources as quickly as possible.

The HP ConvergedSystem 300 for Microsoft Analytics Platform was designed to help you realize your vision as rapidly and painlessly as possible. Why not investigate further to find out how it can fit into your business? We know you’ll like what you see!

Learn more at hp.com/go/convergedsystem/cs300aps