DATACENTER MODERNIZATION

REDUCING COMPLEXITY AND INCREASING EFFICIENCY WITH CONVERGED INFRASTRUCTURE

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THE DAYS OF CONVERGED INFRASTRUCTURE AS A HYPOTHETICAL, NEWLY EMERGING TECHNOLOGY IS NOW IN THE PAST.

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RECENT FINDINGS BY IDC REVEAL THAT DEPLOYING CONVERGED INFRASTRUCTURE CAN POTENTIALLY LOWER COSTS PER UNIT OF IT WORKLOAD BY AS MUCH AS 60%. READ MORE FOR AN UPDATE ON CONVERGED-INFRASTRUCTURE SOLUTIONS IN 2015.

Enterprises stand at a crossroads in 2015. Demands on infrastructure in the data center continue to increase as business challenges mount, putting pressure on both the business domain and the IT domain to find a holistic solution. To address these concerns and to modernize these data centers, enterprises are turning to converged infrastructure solutions to deliver tangible benefits to the business while mitigating IT's costs and management requirements.

This article discusses the state of converged infrastructure in 2015 as well as opportunities and challenges related to it. In particular, HP ConvergedSystem stands out among converged infrastructure offerings, which have become more attractive to the business domain since significant cost benefits and greatly improved agility are now possible with today's breed of converged-infrastructure solutions from HP.

1. WHERE DOES CONVERGED INFRASTRUCTURE STAND IN 2015?

The concept of converged infrastructure in general is hardly a new, disruptive force. Infrastructure convergence has been on the radar of data centers for several years, but the difference between the nascent years of converged infrastructure and where this deployment model stands today lies in the measurable value to the business domain. The days of converged infrastructure as a hypothetical, newly emerging technology is now in the past.

As such, nearly every major player in the data center infrastructure space has developed some sort of converged infrastructure solution that seeks to lower the total cost of ownership, improve business agility, and simplify IT's management requirements to simply "keep the lights on." Today, enabling a flexible, agile data center via further infrastructure convergence is quickly becoming the go-to strategy for enterprises searching for ways to cut costs.

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CONVERGED INFRASTRUCTURE CAN LOWER THE TOTAL COST OF OWNERSHIP BY AS MUCH AS 40%.

40%

The numbers speak for themselves. If deployed and implemented well, converged infrastructure in a modern data center can potentially lower the total cost of ownership by as much as 40%. Even better, enterprises can now upgrade their data centers to a converged infrastructure solution with the top products on the market today, such as HP ConvergedSystem and HP OneView, in as short as 30 days in some instances.

ENTERPRISES CAN NOW UPGRADE THEIR DATA CENTERS IN AS SHORT AS 30 DAYS IN SOME INSTANCES.

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2. OPPORTUNITIES OF CONVERGED INFRASTRUCTURE

Today, the benefits and opportunities of converged infrastructure have taken a step forward. Deploying converged infrastructure still affords enterprises the benefit of simplifying the management of compute, storage, networking, and server resources. However, the difference between yesterday's iterations and today's solutions lies in the level of convergence that is now possible. Certainly, enterprises now require a higher level of infrastructure convergence and optimization to enable cost benefits, like those previously noted.

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DEPLOYING CONVERGED INFRASTRUCTURE STILL AFFORDS ENTERPRISES THE BENEFIT OF SIMPLIFYING THE MANAGEMENT OF COMPUTE, STORAGE, NETWORKING, AND SERVER RESOURCES.

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HP CONVERGED SYSTEM PROVIDES THE UNDERLYING INFRASTRUCTURE CONSOLIDATION THAT ENTERPRISES CAN LEVERAGE AS THE UNDERPINNINGS OF CLOUD DEPLOYMENTS.

A study by IDC poignantly outlines the opportunities and subsequent challenges that still lie ahead. Enterprises can expect up to 10 times the number of users to support alongside a deluge of data that simply shows no signs of slowing down. Likewise, services and applications now need to be managed faster than ever before, in a matter of days and weeks, not months. At its core, complexity and the need to improve agility are the driving forces behind these opportunities to deploy converged infrastructure.

COMPLEXITY AND THE NEED TO IMPROVE AGILITY ARE THE DRIVING FORCES TO DEPLOY CONVERGED INFRASTRUCTURE
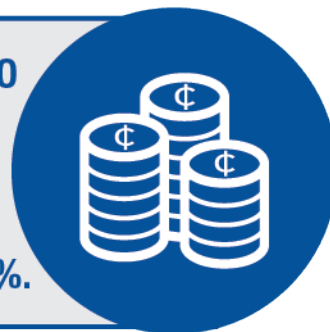
3. HP CONVERGEDSYSTEM AND HP ONEVIEW: CONVERGED INFRASTRUCTURE FOR A MODERN DATA CENTER

Modernizing data centers with converged infrastructure solutions, what HP now calls hyper-converged infrastructure, can address many challenges moving forward. However on a granular level, the key to unlocking the business value and IT value of converged infrastructure boils down to how enterprises manage pooled IT resources to optimize their data centers.

From now on, the overarching challenge will revolve around this question: Which converged-infrastructure solution on the market today can provide a single, holistic view of any environment (virtual or physical)? HP OneView and HP ConvergedSystem products provide precisely this capability. According to IDC, companies that turn to converged infrastructure can potentially lower costs per unit of IT workload by as much as 60%, depending on their current level of infrastructure convergence.

COMPANIES THAT TURN TO CONVERGED INFRASTRUCTURE CAN POTENTIALLY LOWER COSTS PER UNIT OF IT WORKLOAD BY AS MUCH AS 60%.

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HP ConvergedSystem provides standard building blocks that simplify deployment of datacenter infrastructure by including compute, network, and storage components in optimized configuration to meet business objectives.

By integrating core HP technologies with pre-optimized solutions, HP ConvergedSystem can simplify any data center environment via converged infrastructure. HP ConvergedSystem provides the underlying infrastructure consolidation that enterprises can leverage as the underpinnings of cloud deployments, but HP OneView is an equally important tool in a modern data center.

OneView is the solution to "deployment day plus one," by addressing operation support needs of the converged infrastructure solutions. OneView provides policy driven lifecycle configuration management for all of the components included in the HP converged infrastructure, which allows operational staff to maintain the converged environment through a more standardized methodology. OneView provides base level fault management but more importantly provides OS image control and full firmware version control for all components included in the HP converged infrastructure offerings, thereby dramatically reducing OPEX cost for the HP Converged Infrastructure.

HP OneView provides the management software to orchestrate HP ConvergedSystem. HP OneView is at its core a powerful resource-management platform that eliminates the need to implement multiple resource-management software that may or may not provide administrators with the tools they need to meet business demands. Via a user-intuitive dashboard, HP OneView optimizes infrastructure configurations to free up IT resources and simplify management.

For over 25 years, International Integrated Solutions (IIS) has provided professional, end-to-end consulting and technology implementation services to enterprises across a wide swath of industries. As a trusted consultancy with a partner ecosystem to develop holistic solutions, IIS stands ready to guide enterprises toward the next era of converged infrastructure alongside HP.

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ONEVIEW IS THE SOLUTION TO "DEPLOYMENT DAY PLUS ONE"

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