DELL EMC

Positive Business Outcomes of Dell EMC Converged Infrastructure Solutions[1]

- 41 percent less IT time spent keeping the lights on
- 4.4X faster time to market for services/products
- 4.6X more applications developed/delivered per year
- 96 percent less downtime

Dell EMC Vision Software Converged Infrastructure Health and Life Cycle Management Capabilities

- **Converged Health Management:** Provides a fast on-ramp for proactively identifying and addessing infrastructure issues that can impact the total health of converged systems and the workloads they support across your data centers and distributed sites.

- **Release Certification Matrix (RCM) Compliance Management:** Drives standardized, repeatable processes that keep your data center more stable and optimized through regular firmware/software upgrades.

- **Security Compliance Management:** Drives standardized, repeatable processes that identify vulnerable configuration settings so you can keep your data center more secure.

- **Security/Technology Alert Management:** Drives standardized, repeatbale processes that pinpoint newly discovered security and technical bugs and how to eliminate them.

DELL EMC VISION INTELLIGENT OPERATIONS

Dell EMC Intelligent Operations is Health and Life Cycle Management software for Dell EMC converged infrastructure systems. Its intelligence and visualization facilitate standardized, repeatable IT operations and system administration processes—making it easier to keep your data center/hybrid-cloud environment healthy, stable, optimized, and secure. The software's unique capabilities—combined with Dell EMC converged systems and the Dell EMC Vscale Architecture for scaling data centers—helps IT staff spend less time "keeping the lights on" and more time adding business value.

BUSINESS CHALLENGES AND THE DILEMMA OF IT OPERATIONS STATUS QUO

You feel the pressure to drive new initiatives and deliver more business value without over-burdening existing staff or adding new staff. But organizations like yours can spend up to 78 percent of operational resources just "keeping the lights on."[1] So how can you possibly spend less time managing and sustaining infrastructure and more time launching new applications and services?

This dilemma is largely the negative consequence of traditional, siloed IT infrastructure, processes and management tools that

- Inhibit proactive action against infrastructure/workload problems and impede time to resolution
- Lead to ad hoc, drawn-out maintenance windows and delays in firmware/software upgrades to assure data center stability and optimization
- Result in a weak security posture and impede time to remediate vulnerabilities

SOLUTION OVERVIEW

Vision Intelligent Operations software for Dell EMC converged infrastructure systems helps transform IT from siloed, ad hoc, inefficient process to more unified, repeatable, efficient processes. Its unique understanding and visualization of converged architecture reduces the time it takes to manage workload and infrastructure health, keep infrastructure upgraded with the latest firmware and hypervisor software releases, and keep infrastructure security hardened.

Industry studies show that Vision software can help reduce data center health monitoring up to 80%[2] and data center firmware/software upgrades from 32 to 5 days.[3]

This innovative software simplifies operations, improves IT agility and reduces risk by improving processes to

- Monitor data center health holistically and compute, storage, network and virtual technologies as a unified resource pool, rather than as a collection of discrete components.
- Regularly stabilize and optimize infrastructure with firmware/software upgrades with less effort, fewer maintenance windows, and without the high risk of outages.
- Maintain security-hardened infrastructure on a daily basis.

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[1] IDC White Paper, "The Business Value of VCE Vblock Systems: Leveraging Convergence to Drive Business Agility," April 2015
[2] EMA White Paper, "Digital and IT Transformation with Dell EMC Converged Infrastructure Systems and Software," 2016   [3] ESG Lab Review, "Simplifying Infrastructure Upgrades with Dell EMC Converged Infrastructure Systems and Dell EMC Vision Intelligent Operations Software," 2016

Vision Software Key Advantages and Differentiators

Health Management tells you the state of each converged systems' virtualization, compute, storage, and network components—and how they contribute to total system health as well as status of converged systems across different sites.

- Browser-Style Search: Easily finds, filters, and displays system component inventory and status, including individual and multiple systems' components by technology to manage them together as a pool of resources.
- Workload Fingerprinting: Visualizes all virtual machines, their underlying infrastructure components with their status for business-impact focused monitoring.
- Logs, Meta Data, KPIs: Collects logs, meta data, and key performance indicators for troubleshooting and escalating to staff and Dell EMC Customer Support.

Vision Intelligent Operations software simplifies and facilitates standard, repeatable processes for managing and sustaining converged infrastructure systems across data centers.

Release Certification Compliance (RCM) Management simplifies time-consuming steps required to keeping converged infrastructure systems' multi-vendor/multi-technology components current with the latest firmware and hypervisor software releases.

- Release Certification Matrix: Scheduled availability of system components' firmware/software updates—pre-validated to be interoperable and to mitigate risk of upgrade-induced system outages.
- RCM Compliance Assessments: Instantly validates release levels on your systems and what needs to be upgraded, then downloads new releases from the Dell EMC Customer Support portal and stages them on your systems.
- Upgrade Guide: Provides step-by-step directions to upgrade components for predictable, shorter maintenance windows.

Security Compliance Management simplifies the time-consuming steps typically required to keep infrastructure security-hardened according to component vendor and industry best-practices.

- Security Hardening Assessments: Instantly validates components' security setting compliance with policy and how you should reconfigure them if they do not comply.

Security and Technical Alert Management simplifies the time-consuming task of sorting through multi-vendor/multi-technology email alerts, manually validating their relevance and searching for a resolution.

- Alert Assessment: Instantly pinpoints components with security and technical bugs based on Dell EMC alerts; then downloads patches from the Dell EMC Customer Support portal for remediation.

Customer Support Connectivity assures optimal serviceability by providing up-to-date system information to Dell EMC Customer Support.

- Secure Remote Services: Sends full system inventory and RCM compliance information to Dell EMC Customer Support to speed triage and problem resolution.

Open Architecture based on a REST API, enables integration with other IT management software tools.

- Dell EMC Converged Management Pack for VMware vRealize Operations: a free solution that integrates converged infrastructure information from Vision software to VMware vRealize Operations dashboards.

Dell EMC Vscale Architecture Management Vision software provides unified Health and Life Cycle Management for the converged systems, network fabric and shared resources that comprise the Vscale Architecture—a modern architecture that provides the most flexible and optimal way to scale out data centers and share resources across converged infrastructure systems, hyper-converged systems and non-converged systems.

ABOUT DELL EMC

Dell EMC is the world market leader in converged infrastructure and converged solutions. Through VCE Converged Infrastructure and Solutions, Dell EMC accelerates the adoption of converged infrastructure and cloud-based computing models that reduce IT costs while improving time to market. Dell EMC delivers the industry's only fully integrated and virtualized cloud infrastructure systems, allowing customers to focus on business innovation instead of integrating, validating, and managing IT infrastructure. VCE solutions are available through an extensive partner network.
For more information, go to dellemc.com/ci and dellemc.com/vision

To learn more, contact your local representative or authorized reseller

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