

# DELL EMC CONTINUOUS AVAILABILITY ADVISORY SERVICE

## Laying the path for a transformative journey

### ESSENTIALS

The Dell EMC Continuous Availability Advisory Service helps clients assess readiness for a new approach that:

- Combines production, high availability, and disaster recovery into a single solution
- Helps IT service organizations avoid high availability and disaster recovery failover
- Makes more efficient use of personnel, and delivers better availability with fewer server hardware platforms

### THE BUSINESS CHALLENGE

CIOs are facing increasing demands to build and maintain an “always-on-and-available” IT service capability. The need for 24x7 availability has become magnified by globalization and recent natural disasters, which have highlighted the importance of around-the-clock services, business processes, and technologies to generate revenue and meet objectives. Also, investors, customers, and boards of directors are becoming more interested in management’s capability to continue operations through a disruption.

In response, IT service organizations have created a labyrinth of different solutions and techniques—including disaster recovery and high availability—to eliminate single points of failure in their data centers. By doing so, they have created enormously complex environments that are difficult to manage and maintain.

Dell EMC helps CIOs and technology leaders—faced with limited resources and diminishing budget allocations—to address their organizations’ continuous struggle with the growing availability challenge.

### A NEW APPROACH TO AVAILABILITY

Through our combined business knowledge and industry leading strength in technology enablement, Dell EMC is able to help you take a fresh look at your existing disciplines and architectures for business continuity and disaster recovery. The Dell EMC Continuous Availability Advisory Service combines production, high availability, and disaster recovery into a single solution.

Through continuous availability, you can simplify your availability environment, eliminate downtime, and reduce operating expense. Additionally, your IT service organization can avoid high availability and disaster recovery failover, and can offer redundant services up and down the stack without expensive custom solutions.

### BUILD AN EFFECTIVE AND AGILE PROGRAM

The Dell EMC Continuous Availability Advisory Service helps you identify the appropriate approach and technology roadmap for your journey to continuous availability. We work with you to review your current hardware and application architectures and identify changes needed to enable your continuous availability environment. As part of this service, Dell EMC:

- Examines your architecture and the economic feasibility of a continuous availability strategy
- Develops an architectural overview of application changes and infrastructure required to support a continuous availability strategy

- Creates a resource estimate (financial and human) as well as a roadmap to implementation
- Establishes a business case defining the capital and operational impacts of continuous availability versus the current state

## OUR APPROACH

We employ an Active/Active architecture construct in the data center to help you realize continuous availability. We achieve Active/Active with a technique called “Stretch,” where we literally stretch assets between sites using some of the following strategies and technologies:

- Load distribution between sites using technologies such as Cisco LISP, F5 Global Load Distribution, NetScaler, etc.
- Web, presentation, and application farms that have been traditionally served by a local load balancer or LTM now have traffic distributed to the farm in a site with a GTM (or LISP if you are a Cisco shop)
- VMware® vSphere® Compute Farms and vSphere Metro Storage Cluster (vMSC)
- VLANs with layer-2 adjacency products such as Cisco OTV or IETF Standard VPLS
- Clustered DB products such as Oracle RAC
- Stretchable clustered NAS heads such as Quantum StorNext for CIFS and NFS based access over block storage under VPLEX™
- Stretched RAID mirrors between sites using VPLEX for block access

With the release of VPLEX Metro and the certification of vSphere Metro Storage Cluster (vMSC), Oracle RAC, and StorNext NAS Heads, customers for the first time have “off-the-shelf” components to realize the promise of continuous availability. Prior to these capabilities, continuous availability Active/Active could only be achieved with custom applications and multi-phased commit logic.

## REALIZE THE BENEFITS

Continuous availability makes more efficient use of personnel, and delivers better availability with fewer server hardware platforms, enabling:

- Reduced acquisition and hardware maintenance, as well as software maintenance and deployment costs
- Near elimination of idle assets
- Elimination of disaster recovery and high availability failover
- Fewer downtime scenarios
- A simplified environment with fewer servers to maintain and monitor with faster problem resolution
- Use of off-the-shelf technology

Dell EMC is the only services provider able to offer both services and technologies to manage the entire assured availability framework. We have the people, processes, and

leading-edge technologies to design, deploy, enable, and manage an assured availability solution on a global scale.

## CONTACT US

To learn more, contact your local representative or authorized reseller.



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