

Replication and Recovery of Mission-critical Data to the Cloud on VMAX/VNX Storage Arrays

Sungard Availability Services (Sungard AS) Recovery as a Service (RaaS) for EMC² is a data replication and recovery solution delivered in a secure, enterprise-class cloud infrastructure. In the event of a disruption or disaster, it provides faster access to data and protects applications to keep them up and running. Sungard AS RaaS for EMC² extends the investment in current VMAX/VNX infrastructure, mitigating further investment in hardware.

The explosive growth in data volume puts organizations at ever-greater risk of exposure to potential loss due to natural disaster, unplanned disruptions, and human error. A flood or a fire, a hardware failure, or a miscalculation by your IT team can compromise the mission-critical data, applications, and systems that are vital to business.

At the same time, IT teams are faced with flattening or declining budgets as they are pulled in different directions. There is a constant conflict between ongoing IT projects like disaster recovery and business-focused projects, such as enterprise-wide software upgrades.

Modernizing a disaster recovery program is a priority for many enterprises, but managing it on their own requires significant investment in capital, time, and expertise that often are not readily available. Those businesses that do not already have a replication and recovery plan in place can experience significant losses when the inevitable disaster or disruption takes place.

The uncertainty of DIY

Organizations that manage a disaster recovery program themselves typically take one of two approaches: Either they build a duplicate copy of their entire production infrastructure at a second site or they rent space in a co-location facility.

Regardless of which option you take, building a copy can provide fast recovery, but it is time-consuming and cost-prohibitive. It requires investing in another VMAX/VNX storage array to pair with the original unit, with associated network and bandwidth costs. There may not even be enough bandwidth to back up locally. Plus, your overtasked IT staff may simply lack the expertise to confidently maintain (and regularly test) the disaster recovery program.

Managing disaster recovery in-house discourages certainty that the plan will work when it is needed and makes it difficult to predict future capacity requirements. When an incident occurs, downtime can mean significant revenue loss. Yet a business' survival depends upon the high availability of its systems, data, and critical workload environments.

EMC²

One production array? No problem, with RaaS for EMC².

Together, Sungard Availability Services and EMC² deliver fully integrated data protection as a service and disaster recovery as a service solutions:

- Experience the optimum mix of flexibility and scale.
- Take advantage of affordable pricing options.
- Leverage a tiered approach that matches the right availability solution to each application's recovery time and recovery point needs.

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According to a recent Forrester report¹, almost half the companies polled said that they out-source their disaster recovery services.

RaaS for EMC² VMAX/VNX storage arrays

Sungard AS, a leader in disaster recovery services, and EMC², the leader in storage, security, and information infrastructure, have architected and pre-tested Sungard AS RaaS for EMC² VMAX/VNX storage arrays.

Sungard AS RaaS for EMC² is a fully managed replication and recovery solution delivered in a secure, enterprise-class cloud infrastructure that extends your current VMAX/VNX hardware, without requiring additional capital outlay for additional storage arrays.

A highly engineered solution, Sungard AS RaaS for EMC² is the only service available today that supports fully managed recovery to the cloud for EMC² VMAX/VNX arrays. It provides a level of performance comparable to what you currently experience in your data center.

The fully managed approach produces a Recovery Time Objective (RTO) of less than four hours for protected systems on average and realizes an almost real-time Recovery Point Objective (RPO) of 15 minutes on average. And it guarantees that contracted SLAs will be met or exceeded.

By entrusting replication and recovery of your mission-critical data to Sungard AS and EMC², you not only simplify recovery but also reduce your downtime risk of data loss. The burden is lifted from your IT team, for whom disaster recovery is probably not a core competency. Critical IT resources can therefore shift from mundane tasks related to day-to-

day infrastructure management and disaster recovery planning to more strategic initiatives that focus on your business. You can gain reasonable performance from your disaster recovery plan and truly reach required service levels.

Through the Sungard AS solution, customers can take advantage of both cloud-based and managed or unmanaged traditional recovery in a shared or dedicated infrastructure at a Sungard AS location. With approximately five million square feet of data center and operations space at more than 90 facilities worldwide, Sungard AS is uniquely positioned to take charge of your requirements for disaster recovery.

Sungard AS RaaS for EMC² utilizes EMC² storage and data protection platforms for cloud-based recovery services and can meet the unique needs of any hybrid IT environment.

Services Available with Sungard AS RaaS for EMC²:

Enterprise Storage Replication for EMC²: Enterprise Storage Replication (ESR) provides a replicated copy of all or part of an EMC² VMAX/VNX storage array, with the replicated data set residing in a Sungard AS data center. With this capability, you can quickly recover and resume business operations. ESR can be customized to fit your unique requirements and environment. You no longer need to pull together disparate disaster recovery solutions and deal with associated scripts and multiple dashboards, monitoring, and administration.

RecoverPoint Continuous Remote Replication (CRR): A key capability for ESR for EMC² is that it utilizes RecoverPoint Continuous Remote Replication, the industry's most intelligent software for continuous data protection at any recovery point.

Recover2Cloud[®] for SRM[™]: Sungard AS RaaS for EMC² leverages specialized recovery technologies, including Recover2Cloud for SRM[™] (Site Recovery Manager) for data replication on your shared VMAX/VNX storage array. This service speeds the recovery of large virtual environments and removes the burden of test management and disaster recovery.

Managed Recovery Program (MRP): Sungard AS' Managed Recovery Program (MRP) can be added to the Enterprise Storage Replication for EMC² solution to provide a comprehensive managed application recovery solution. MRP integrates several of Sungard AS' Recovery Services to provide the highest level of protection, helping to ensure that you can recover your critical systems and application data from unplanned disruptions or disasters.

Managed Internet Access with DDoS and Zero-Day Protection: Sungard AS Managed Internet Access provides high-performance, highly reliable "always-on access" Internet service with a 99.99% availability SLA. It provides a reliable network connection through Sungard AS MPLS (Multiprotocol Label Switching) backbone with auto detection and mitigation of Distributed Denial of Service (DDoS) attacks and Zero-Day exploits, backed by a team of certified experts to handle all monitoring and issue resolution.



Experience in data availability

Sungard AS has over 30 years of disaster recovery expertise and knows the pitfalls that can arise from developing a disaster recovery plan on your own. Thousands of customers have outsourced the management of data replication and recovery to Sungard AS. Likewise, EMC² has over 35 years of experience in enabling businesses and service providers to transform their IT operations.

Sungard AS and EMC² are committed to the development of this highly architected, flexible, and scalable solution. Sungard AS RaaS for EMC² offers a cost-effective, secure data replication and disaster recovery solution that leverages your current VMAX/VNX production environment to ensure high availability of data, systems, and workload environments.

Dedicated IT specialists will work with your team to review your security and compliance needs. We will help you determine which of your mission-critical applications—whether email, ERP, sharing/collaboration tools, custom applications—should be moved to the cloud and which should remain on your premises.

Our recovery experts will create a recovery plan, execute recovery testing, and manage the recovery lifecycle to ensure seamless recovery. Sungard AS RaaS for EMC² reduces the total length of a disaster recovery engagement from months (by doing it on your own) to weeks or just days.

No capital outlay

Sungard AS RaaS for EMC² is based on a pay-as-you-go model. It eliminates the need to pair new storage arrays for disaster recovery with your original VMAX/VNX storage

unit and mitigates the need for additional hardware and software.

The inherent flexibility of Sungard AS RaaS for EMC² means that capacity can be added as your needs change. Your IT team can align performance needs with the appropriate feature set. Data can be stored at a cost-per-gigabyte price, so you pay only for what you host. Pricing can be preset for the entire term of the contract, which means no surprises on cost overruns.

Sungard AS RaaS delivers economies of scale that would be difficult, if not impossible, to achieve merely by purchasing additional storage arrays. By avoiding related investments in software, maintenance, space, power, storage capacity, and the labor required to manage all of those investments, Sungard AS RaaS for EMC² shifts cost from CAPEX to predictable monthly OPEX, saving on Total Cost of Ownership (TCO) and cutting direct costs by between 20 percent and 30 percent. Savings will depend on protected capacity, change rate, and performance (IOPs) requirement. Typically, the lower the capacity is, the higher the percentage of savings.

Modernized disaster recovery

Organizations like yours are often not satisfied with their current disaster recovery posture. They can't meet service level agreements and it takes too long to get back up and running after an incident has occurred.

With real constraints such as explosive data growth, tighter IT budgets, and human resources that are stretched thin among competing IT projects, you can't afford to cobble together disparate disaster recovery solutions and hope that the plan works when it is needed. A disaster or disruption can compromise the

data that drive your mission-critical applications and systems. There are too many inherent risks to managing the process on your own.

Sungard AS and EMC² understand the uncertainty and anxiety around disaster recovery planning. Sungard AS RaaS for EMC² presents a similar performance model to what you would experience in your own data center. However, it moves you away from unreliable tape backup and takes the burden of disaster recovery planning away from your IT department so they can focus on more strategic IT initiatives. Sungard AS RaaS for EMC² is dedicated to enterprise disaster recovery, simplifying the process of replication and recovery.

Because it is optimized to work with VMAX/VNX storage infrastructure as the source, Sungard AS RaaS for EMC² is an operational expense, with no need for further capital expenditure. It is ideal for organizations that are considering a cloud migration, since it doesn't require setting up, operating, and maintaining a second site array to pair with an existing VMAX/VNX array. You have the freedom to scale the capacity you want, and dictate when and how capacity is added.

Sungard AS RaaS for EMC² anticipates disasters and interruptions through periodic, non-disruptive testing that helps ensure that your IT infrastructure can handle a disruption. When a disruption does occur, you can get your system back up and running with fast and seamless failover, helping to ensure that SLAs and RTO/RPO goals will be met.

A disaster recovery program that you can rely upon is critical to your business' success and survival. Entrusting your disaster recovery plan to Sungard AS and EMC² will help you modernize your disaster recovery program and reallocate your capital, time, and resources to where they can be best utilized.



CASE STUDY

Explosive Data Growth Demands Dependable Protection

A managed services company specializing in electronic discovery in litigation needed a reliable method of preserving its data, the volume of which triples each year.

Its previous recovery services provider experienced constant outages, making it difficult to access the electronically stored information it needed. The company's RPO/RTO was more than 24 hours, exposing it to significant risk.

Faced with a steep CAPEX outlay for a secondary VNX storage array, the managed services company turned to Sungard AS RaaS on EMC². The Sungard AS and EMC² team reviewed the company's data growth over the previous two years and determined which workloads should reside in the cloud and which should continue to reside on the company's premises.

Sungard AS and EMC² designed a cost-per-month model for the company that matched growth over the next 24 months. The company also leveraged Sungard AS's consumption model to meet their own operational budget.

Additionally, they have achieved more than 30% in TCO savings compared to managing recovery on their own. Savings will usually depend on protected capacity, change rate, and performance (IOPs) requirement. Typically, the lower the capacity is, the higher the percentage of savings.

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Achieved RPO of less than 15 minutes, an RTO of less than four hours, and more than 30% in TCO savings.

About Sungard Availability Services

Sungard® Availability Services™ (Sungard AS) has more than 30 years of experience providing flexible availability services that help ensure organizations keep applications always on and always available. The company leverages its proven expertise to provide managed IT services, information availability consulting services, business continuity management software, and disaster recovery services to clients in North America, Europe, and India. Sungard AS helps customers improve the resiliency of their mission-critical systems by designing, implementing, and managing cost-effective solutions using people, process, and technology to address enterprise IT availability needs.

To learn more, visit www.sungardas.com or call 1-888-270-3667.

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About EMC²

EMC² Corporation is a global leader in enabling businesses and service providers to transform their operations and deliver IT as a service. Fundamental to this transformation is cloud computing. Through innovative products and services, EMC² accelerates the journey to cloud computing, helping IT departments to store, manage, protect, and analyze their most valuable asset—information—in a more agile, trusted, and cost-efficient way. Additional information about EMC² can be found at www.emc.com.

To learn more, visit www.emc.com or call 1-866-438-3622.

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