CloudShield DATASHEET
DISASTER RECOVERY SERVICES
CloudShield is Calligo’s disaster recovery (DR) service for enterprises. It is a specially designed variant of CloudCore that allows clients to reserve the computing capacity they would need in a disaster scenario but only pay for it when it is needed.

CloudShield can be used to deliver DR protection for traditional on premise, or hosted, systems, as well as cloud services including CloudCore.

You reserve, and pay for, a small percentage of your live CPU and Memory resources in one of Calligo’s off shore clouds. Your production data is 100% replicated between the production and DR site and on invocation or testing the other resources, CPU and Memory, are provisioned to 100%.

REPLICATION OPTIONS
Organisations will have different DR requirements driven by their Recovery Time (RTO) and Recovery Point Objectives (RPO) as well as their budget and the existing technologies that they use. Accordingly Calligo offer a choice of replication and protection services.

The most comprehensive replication solution is Zerto Virtual Replication (ZVR). It is a software-only product that simplifies and automates the entire application protection lifecycle by utilising hypervisor based replication technology to deliver VM-level protection.

ENTERPRISE CLASS REPLICATION
Architecture: Scalable to thousands of VMs, multisite replication support, rapid deployment and hardware independence

Replication: Continuous, near synchronous replication, RPO of seconds, point-in-time recovery, built-in WAN compression, acceleration and resiliency

Automation: Automated failover and failback to a specific point-in-time, automated failover testing (even while protecting production VMs) and fast RTOs

Virtualisation: Ability to protect and recover specific VMs and create VM protection groups with block-level consistency to support vAPPs, HA, DRS, SDRS and vMotion

PROTECT AND RECOVER MULTI-TIER APPLICATIONS
Protecting multi-tier, mission-critical applications means ensuring quick and safe recovery of the entire application, including all components running on different servers and storage. For example, a business application may span across eight VMs deployed on multiple hosts using different data stores. To successfully recover such an application, full consistency between all application components is critical.

Zerto’s Virtual Protection Groups (VPGs) are a collection of VMs and their related VMDKs, which have dependencies and must be recovered with write-order fidelity. Zerto
VPGs ensure applications are replicated and recovered with consistency, regardless of the underlying infrastructure.

This enables deployment of the application across different physical devices to maximize performance and capacity, while reducing complexity.

- Group VMs and VMDKs into VPGs
- Maintain all properties of a VPG’s VMs
- Test recovery, failover and failback of the entire VPG
- Seamless support for vMotion, DRS and HA while replicating
- Application protection policy and QoS
- Leverage built-in support for VSS and VMware vApp objects

A TRUE DISASTER RECOVERY SOLUTION
Zerto eliminates the need to use different solutions for your DR needs. All required workflows are built-in with easy-to-follow and scalable wizards:

- Failover one or more VPGs, including automatic reverse replication
- Recover to a historic point-in-time with journal-based CDP
- Recover volumes instantly, in read-write format
- Test failover, including full remote recovery in a sandboxed zone
- Migrate workloads to a remote data centre
- Get comprehensive reporting on all system-wide activities

HYPERVERSOR-BASED REPLICATION
At the heart of Zerto’s replication technology is the Zerto Virtual Replication Appliance (VRA). A single, software-based VRA is quickly installed on each host, capable of protecting all the VMs on that host. The VRA continuously replicates data from VMs and VMDKs selected by the user, compressing it and sending it to the remote site over the WAN. Replication is performed in a near synchronous manner without a snapshot or CBT mechanism, avoiding any negative impact on application performance. VRAs on different hosts communicate between themselves, synchronizing replication to ensure block-level consistency between different VMs located on different hosts and storage arrays. Hypervisor-based replication is fully agnostic to storage source and destination, natively supporting all virtualisation platform features.

DOCUMENT CONTROL
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