

## Cloud Solutions for Continuous Backup, Migrations, Disaster Recovery & More

### Background

Prestige Technology Solutions (Prestige) is an experienced technology company formed in 1989, renowned for delivering expert technology and infrastructure solutions for hundreds of UK businesses of all sizes. Push Button Recovery Limited (PBR) has a Management Team with deep domain expertise in disaster recovery and a commercial relationship with Prestige that spans over 20 years. PBR has built a software application called Remis to deliver faster, better and more cost effective availability solutions.

Prestige is an authorised reseller and distributor of Remis. Using software-as-a-service pricing models, Prestige offers end customers cloud based solutions underpinned by Remis that address near continuous backup, archiving, migration, high availability, disaster recovery and more. These solutions are quick to install, easy to use and deliver total peace of mind.

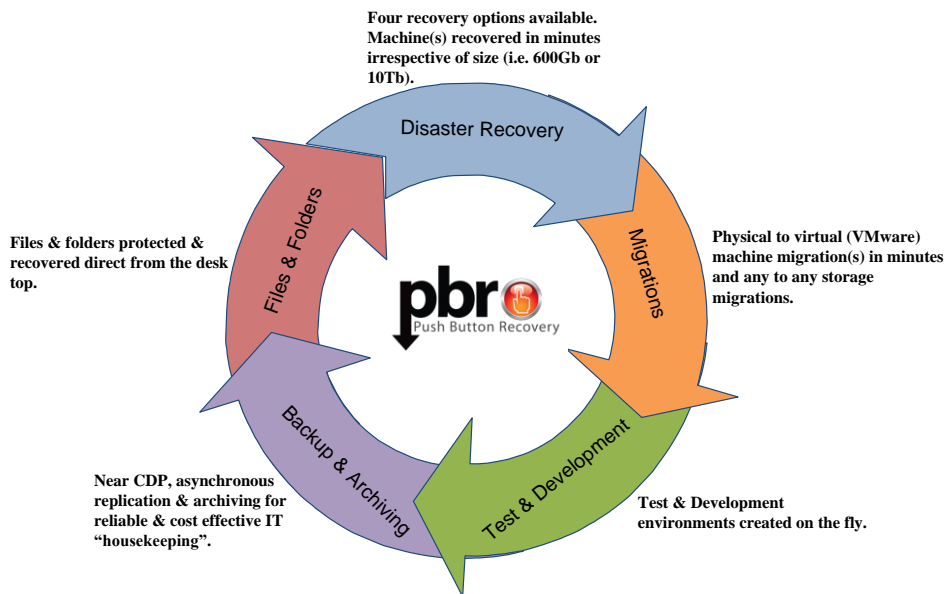
### Context

How much time, effort and money can be saved in IT Departments if an application was available to orchestrate the following?

- Recovery of machines locally or remotely in minutes;
- Migration from physical machines to virtual (VMware) machines in minutes;
- Creation of test and development environments on the fly;
- Protection of mission critical data via replication to target machines located anywhere;
- Elimination of backup windows, tape management and off-site tape storage headaches through the use of near continuous data protection.

Most would agree the cost savings and efficiency gains would be significant!

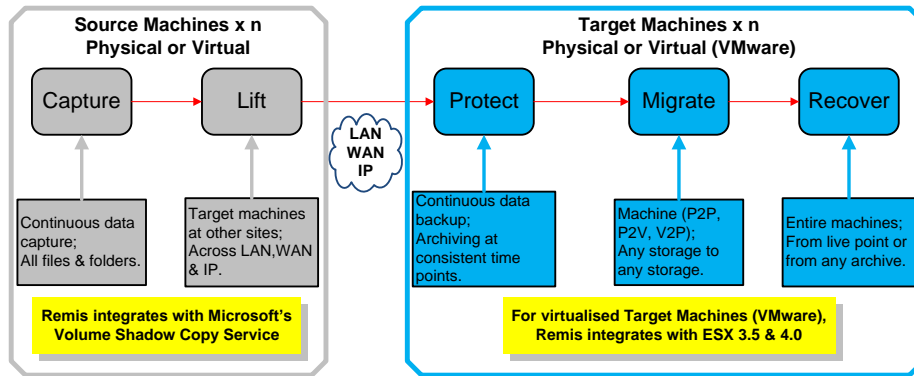
Remis delivers all this and more in one consolidated application. Remis moves, migrates and recovers data and machine(s) around the enterprise when and where they are needed to address IT availability, cost cutting and regulatory demands.



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**Remis: Concept of Operation**

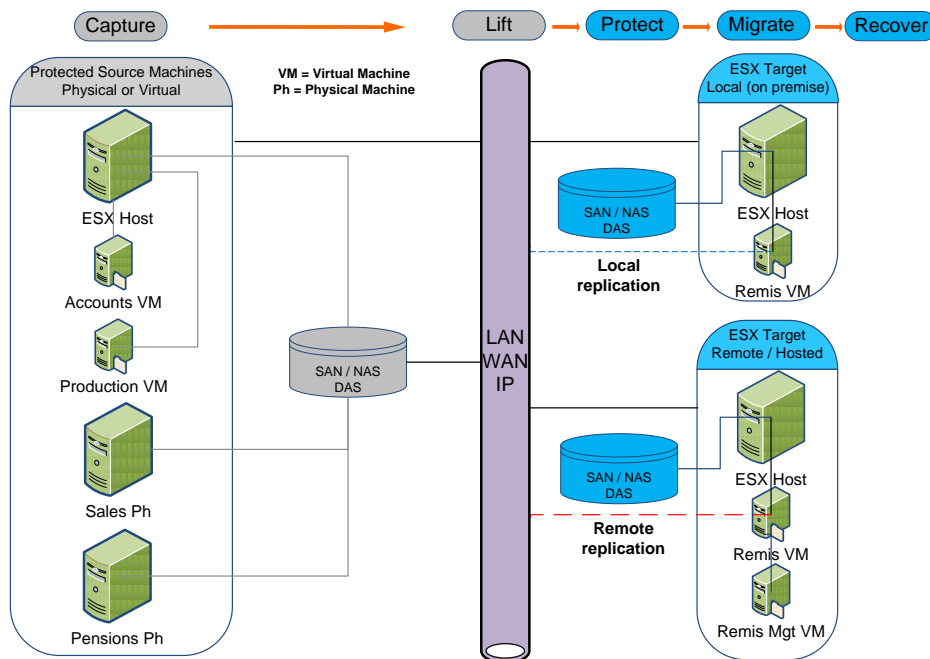
The picture below illustrates the core functions of Remis. By way of explanation, “source machines” (in grey) represent production machines which require protection and from where all system data is “captured” and then “lifted” by Remis to “target machines” (in blue) which can be located on premise and/or in different sites, countries or even continents. The target machine(s) is where the “protection”, “migration” and “recovery” functions of Remis are executed.



Remis delivers “lights out” automation in areas such as near continuous data protection, asynchronous replication, archiving, migration, virtualisation & operational recovery. Remis eliminates manual intervention & expensive IT skills in all these areas. It is both easy to install and use thereby accelerating customer payback. Remis can be deployed as an on premise or hosted application (or a combination of the two).

**Remis: A Single Solution for Backup, Migration, Disaster Recovery & More**

In the picture below source machines are being protected by Remis on 2 target machines, one based locally for high availability, and one based remotely (a secondary site or a hosted site supplied by Prestige) for full disaster recovery protection.



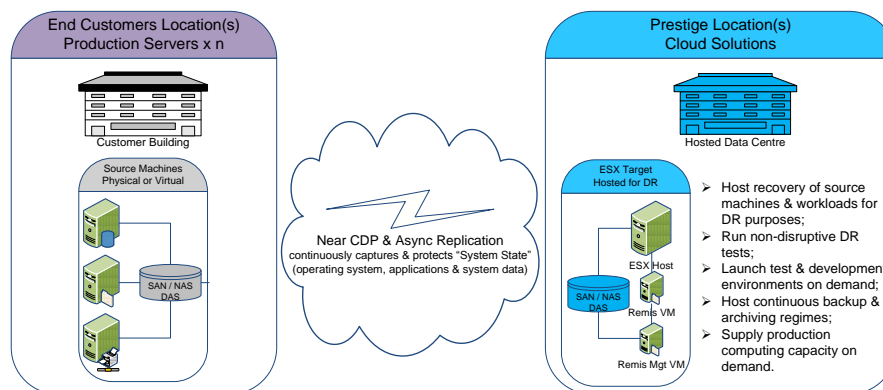
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Remis software is installed on every source machine that requires protection using non-intrusive silent install procedures. Remis integrates with Microsoft's Volume Shadow Copy Service (VSS) on the source machines. VSS creates recoverable copies of the operating system, applications and system data which Remis then replicates to target machine(s). On completion of the initial synchronisation, only incremental changes on the source machine(s) are replicated to the target machine(s), thus ensuring that Remis constantly captures and protects each source machine's "system state". Where network bandwidth between sites is limited, Remis supports throttling which allows administrators to run replication "in the background". On the target machine(s), Remis creates virtualised workload images in the VMware Virtual Machine Disk Format (VMDK). When migrating or recovering any of the protected source machine(s), Remis runs the VMware hypervisor to achieve this.

### Cloud Solutions

Because Remis continuously captures and protects the "system state" over IP, it serves as a platform to support end customers with a fully outsourced range of cost effective cloud based solutions to address recovery, administration and production scenarios.

- Recovery scenarios might include recovering one or more failed servers or an entire data centre.
- Administration scenarios might include bringing test environments on line for patch validation or performance tuning or providing near continuous backup and archiving solutions, without impacting end customer operations.
- Production scenarios might include the supply of computing resource (servers and storage) to meet ad hoc (seasonal) demand for additional production capacity.



Prestige can supply end customers with complete turnkey solutions to include target servers and storage, Remis and VMware licenses as well as highly secure Hosted Data Centre's. Furthermore, Prestige can operationally manage and monitor these solutions giving end customer's total peace of mind and enabling them to focus on their core business.

### Scalability & Performance

By leveraging VMware virtualisation on target machine(s), Remis provides a flexible and highly scalable enterprise class solution supporting the needs of all computer dependent organisations from SME's through to global enterprises. Remis can recover not just one but many source machines on each target machine in parallel. Precise numbers will vary depending on the target machine specification and other factors but 20 or more per target machine is not an unreasonable assumption.

The actual recovery time can be measured in literally minutes and is essentially the same for a 600 gigabyte workload as it is for a 10 terabyte workload because all the protected data is fully replicated to the target machine(s) and is thus immediately available.

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### **Supported Platforms**

The Remis functions described are supported on source machines running the following Windows operating systems. All applications and system data under these operating systems are supported.

- All Windows 2003 Server editions;
- All Windows 2008 Server editions;
- Windows XP;
- Windows 7;
- Windows Vista.

Target machines can either be physical machines or virtualised machines running VMware vSphere. Additionally, VMware ESX 3.5 is supported.

### **Contact**

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