



Disaster Recovery Service Offering



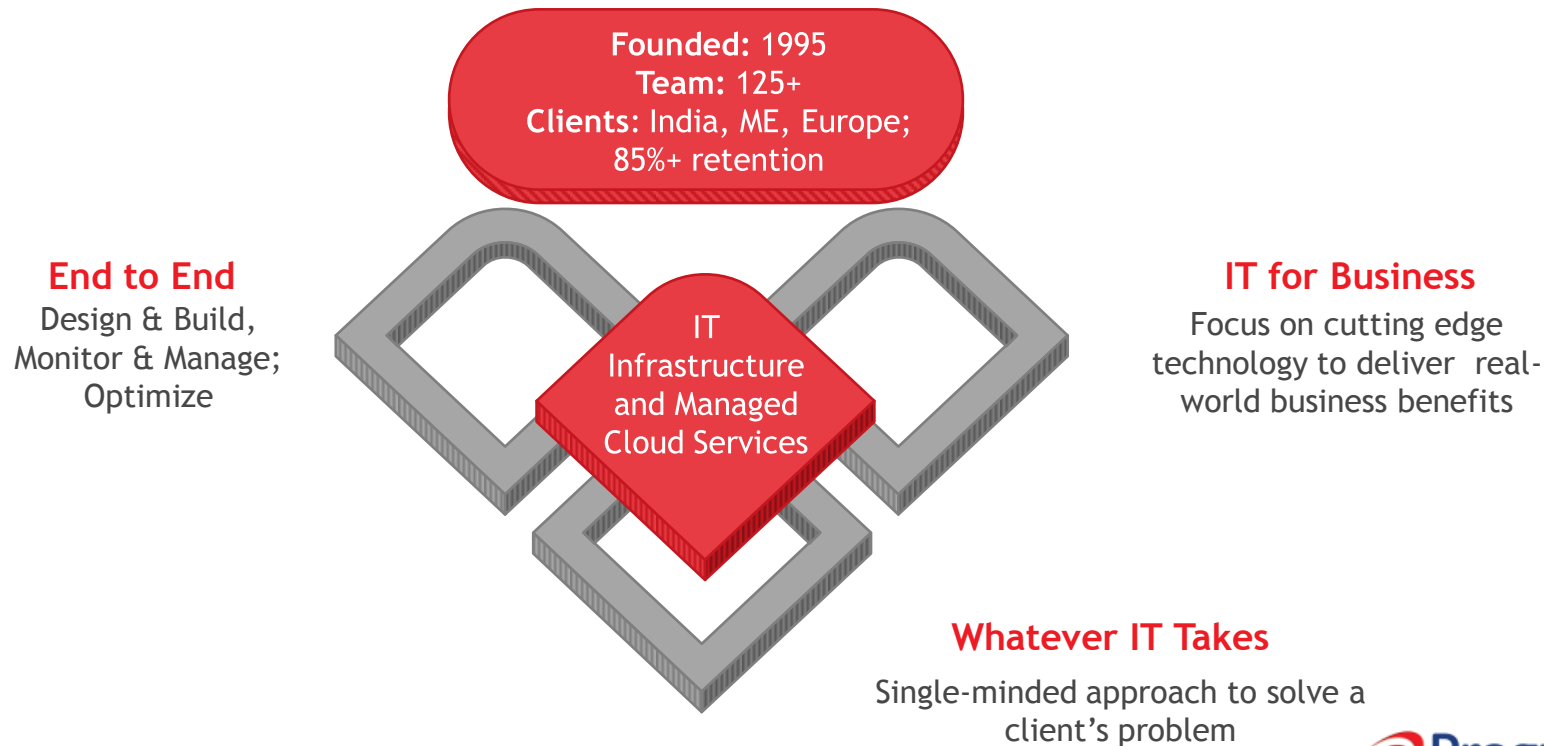
Content

- Who We Are
- Vision & Mission
- About Us
- Disaster in the Context of Data Centers
- Disaster Means Downtime for Business
- What's the Cost of Downtime?
- Progression DR
- Progression Disaster Recovery Offering
- Disaster Recovery Scenarios
- Our Approach to Disaster Recovery
- SRM reference architecture
- Key DRaaS Technologies
- Why DR with Progression
- Progression Success Story
- Key Relationships
- Awards



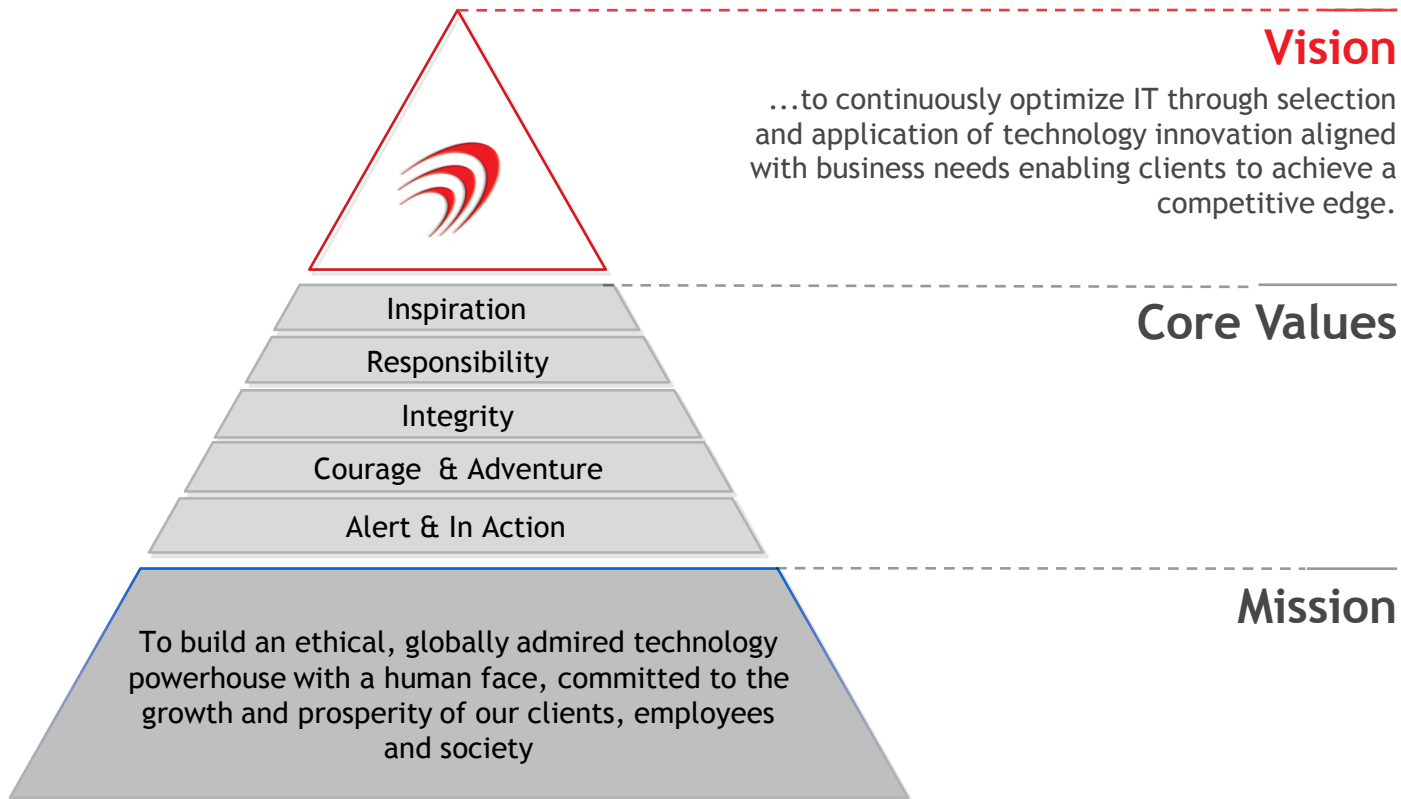
Who we are

Progression helps businesses across the world get more effective in managing their IT infrastructure and applications, while lowering the cost of running them



[Back to contents](#)

Vision & Mission



About Us

STANDARDS

ITIL 3
ISO 27001

CERTIFICATIONS

Certified in VMware,
HP, Oracle,
Microsoft, Cisco and
Check Point
technologies

DATA CENTER

Leading edge remote
monitoring NOC
located in our own
Tier 3+ data center

PARTNERS

vmware®

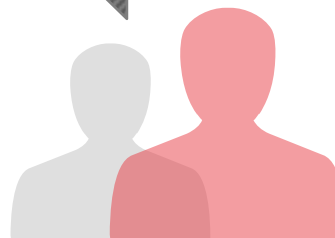
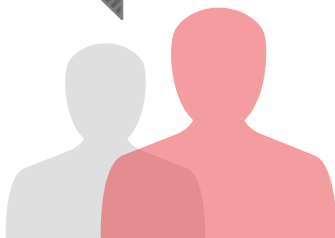
ORACLE



Microsoft®



Check Point
SOFTWARE TECHNOLOGIES LTD.



[Back to contents](#)



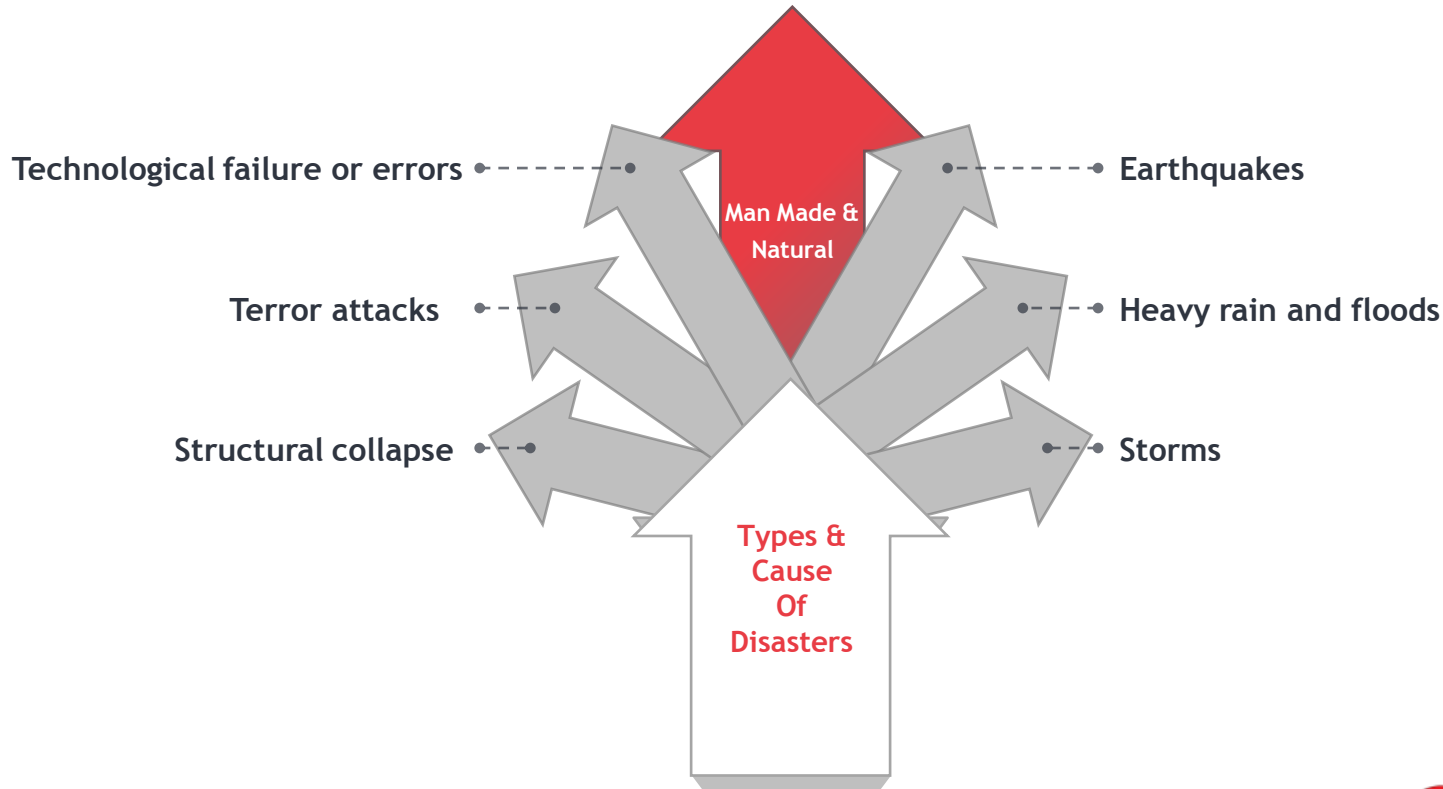
Disaster Recovery



[Back to contents](#)

Disaster in the Context of Data Centers

Disaster is a sudden, unforeseen event that brings your key IT infrastructure to its knees.



[Back to contents](#)

Disaster Means Downtime for Business



In 2013, healthcare.gov, the online insurance marketplace of the US government saw a series of hard and soft outages, that left the site barely functional, having a huge negative impact on President Obama's policy rollouts.



Hurricane Sandy left major devastation in its wake in October 2012. Loss estimates due to damage and business disruption were pegged at **\$65.6 billion**

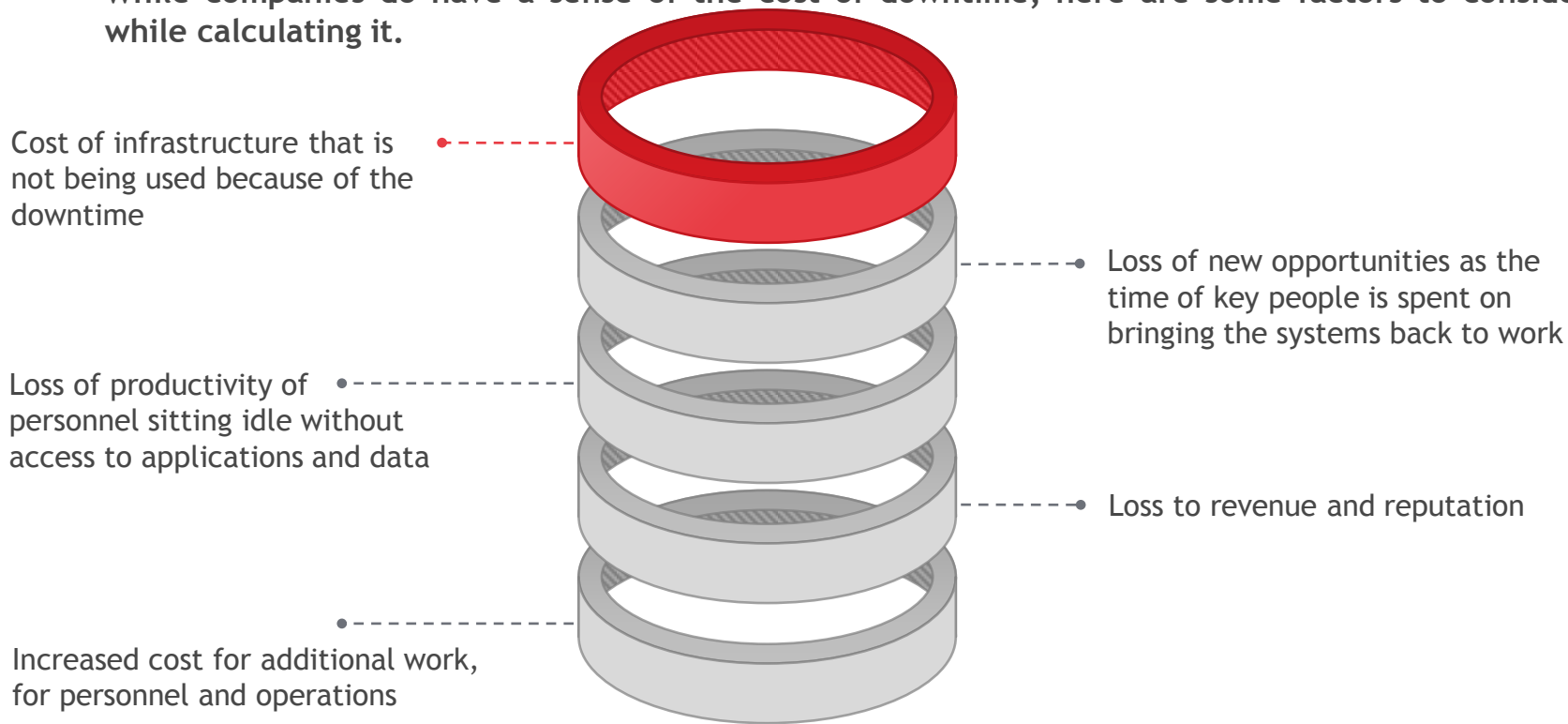


India saw two severe blackouts in July 2012 which left 22 states in the country powerless. Train services and traffic signals were affected. Most businesses had to rely on DG sets to get back to business, increasing cost of operations considerably



What's the Cost of Downtime?

While companies do have a sense of the cost of downtime, here are some factors to consider while calculating it.





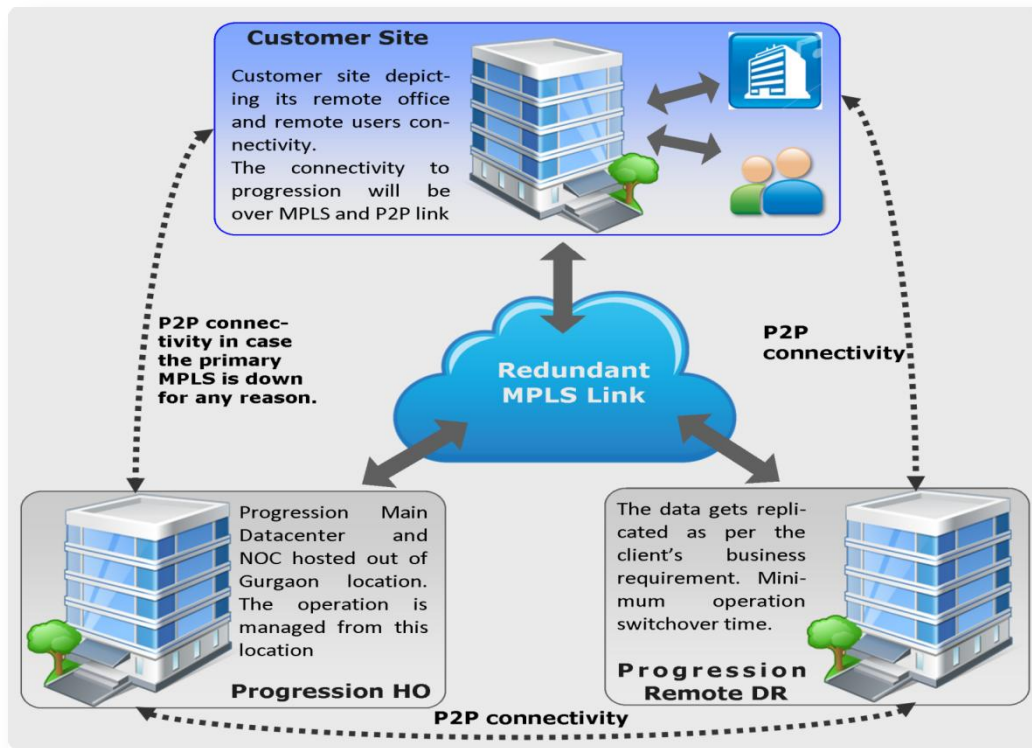
Progression DR as a Service



[Back to contents](#)

Progression DR

Progression offers full function DR which ensures Business Continuity for the client in case of any disaster situation. The DR is located at Chennai & managed from Progression NOC at its HO in Gurgaon.



Progression DR

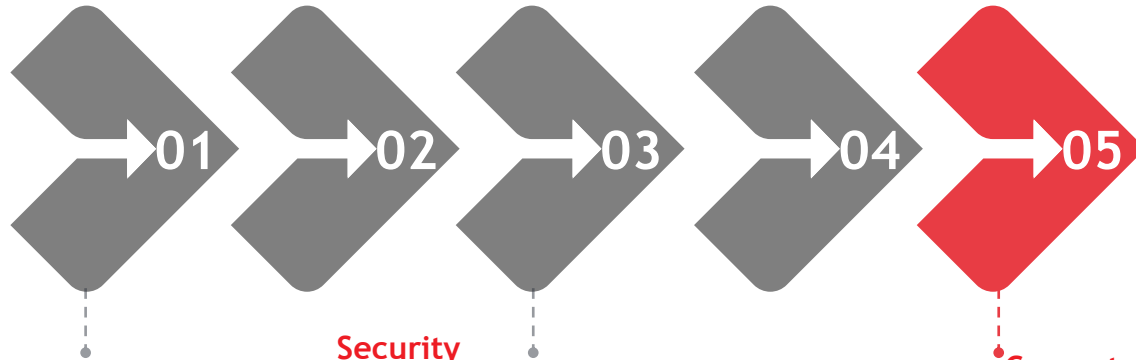
We operate a full function state of the art Tier3 compliant data center from Gurgaon, and have a remote Disaster Recovery facility.

Physical Infrastructure

N+N PAC for cooling with cyclic redundancy mode, humidity control, separate hot & cold aisle, optimized rack and cable arrangement to ensure smooth air flow and cooling. Efficient fire suppression system to automatically initiate, in case of exigency.

Connectivity & Bandwidth

Progression has a high-speed, multi-megabit, redundant network backbone serviced by multiple top-tier ISPs. The setup is constantly monitored by ISPs and by Progression's specialists through our NOC



Power

Completely redundant power supply with grid (Utility Power) and redundant generator backup for 24x7 operation. N+N source distribution of power to racks and equipments through multiple UPS configuration.

Security

We have incorporated the best of the physical and logical security. With biometric devices and CCTVs in place and with guards manning the setup, physical security is ensured. We use state of the art firewall, IDS/IP, content filters, and spam filters to manage the various aspect of logical security.

Compute, Storage and Networking

High-end, current-generation servers, storage and networking device deliver a high-performance environment



[Back to contents](#)

Progression Disaster Recovery Offering

End to End Managed DR Solution

- Both Primary and DR site are hosted by Progression
- Primary and DR managed by Progression

Hybrid DR Solution

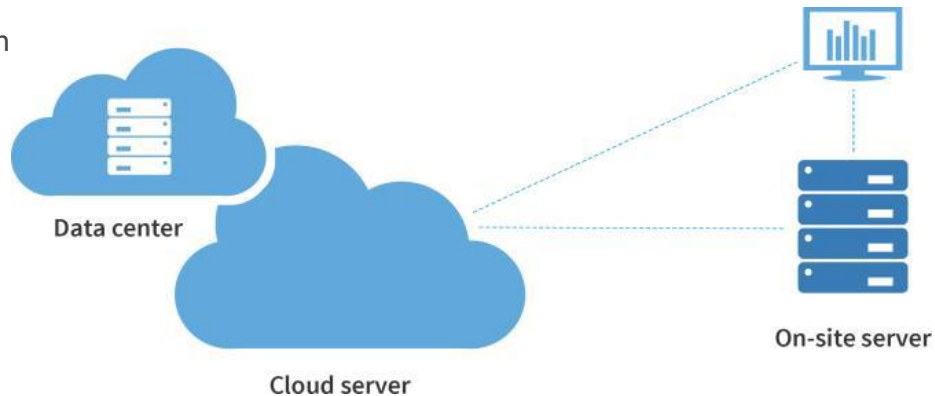
- Primary site is at customer location and DR with Progression
- DR managed and maintained by Progression

DR on Cloud

- Disaster Recovery to the Cloud services using vCenter Site Recovery Manager

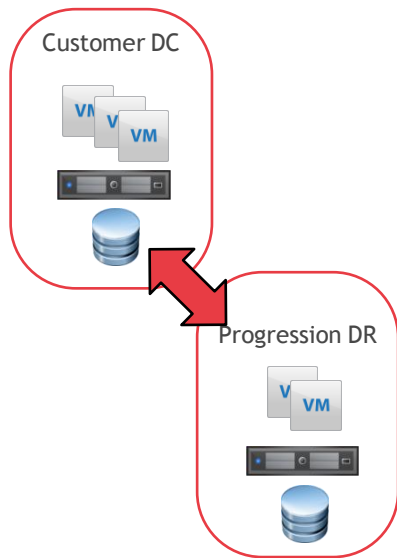
Co-located DR Solution

- Customer hardware hosted at Progression DR location
- DR managed and maintained by Progression



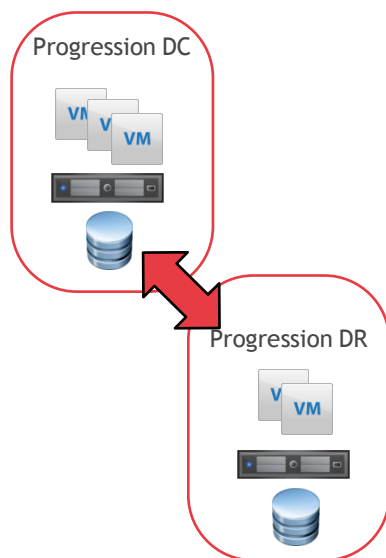
Disaster Recovery Scenarios

Scenario 1



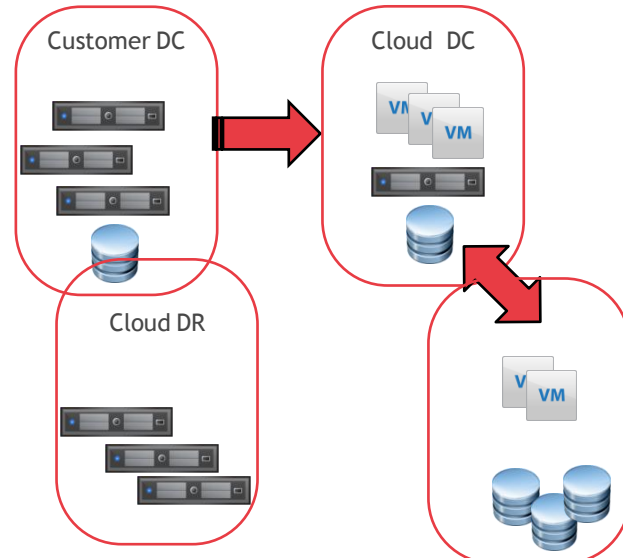
- Customer has own DC and is already using VMware cloud
- DR on Progression Cloud - local or remote

Scenario 2



- Customer is existing user of Progression Cloud DC
- DR will be on remote Progression Cloud

Scenario 3



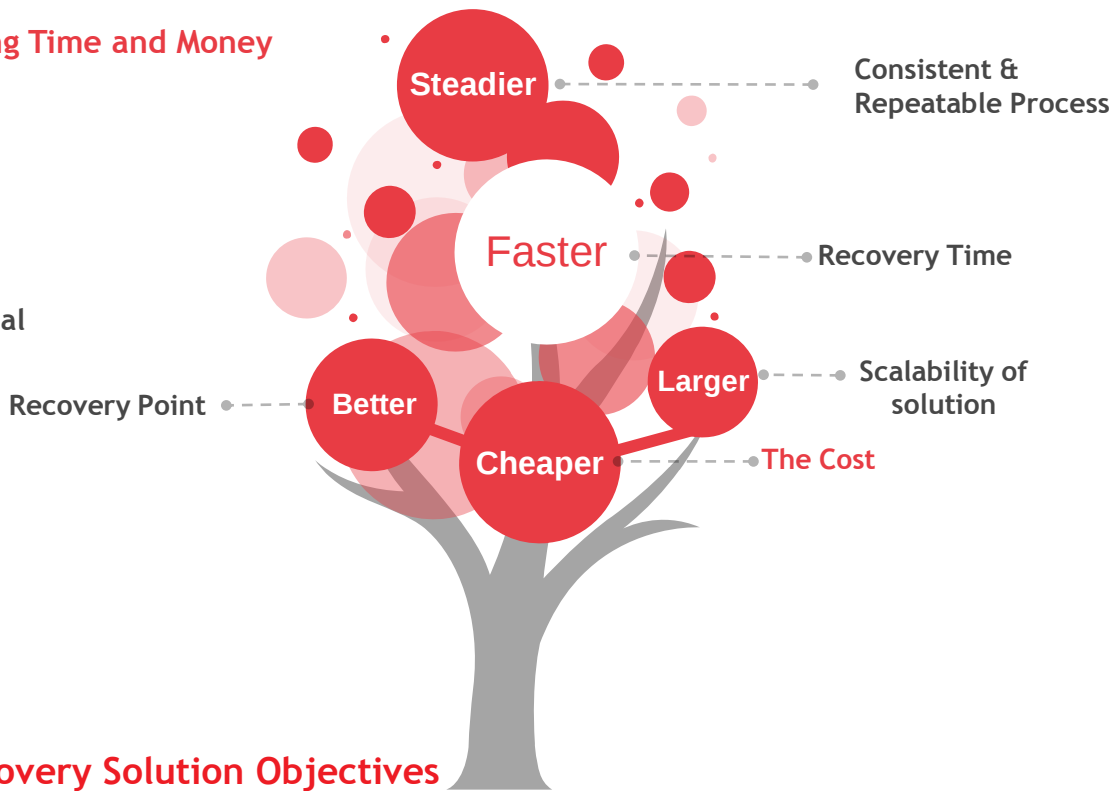
- Customer has own DC and Physical Infra
- 'Cloud DC' can be Customer or Progression
- DR can be Local or Remote



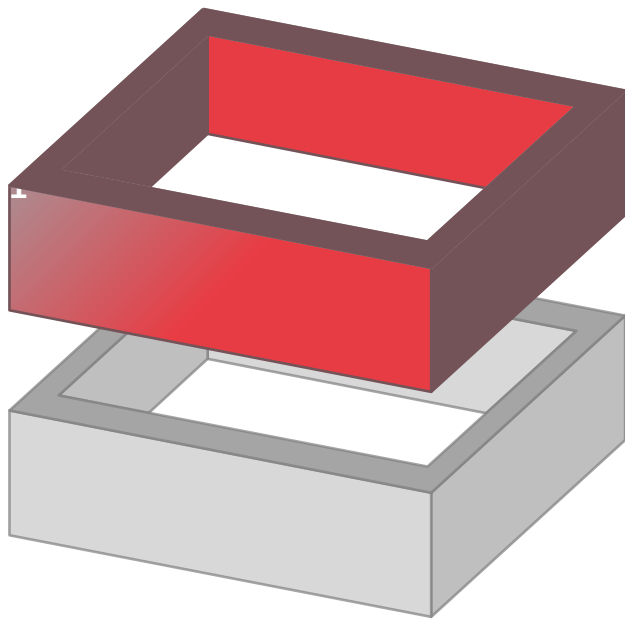
Our Approach to Disaster Recovery

Progression Recommendations for Saving Time and Money

- **Standardize**
 - IT Practices- Settings and Configurations
 - Hardware- Servers / Processors
 - Software- OS / Database
- **Automate**
- **Define Rules for Backup of Mission Critical Data**



Our Approach to Disaster Recovery



Inputs Required for a Good DR Plan

- Security Audit & Advisory
- Streamlined Processes and Procedures
- Define Priority of Data and Applications
- Consolidation of Servers

DR Testing

- Don't plan the tests, TEST the PLAN
- There's no tool that replaces testing. Tools provide the status but not the actual recovery
- Helps to find the gaps and keep the PLAN updated in the ever changing business & technology environment



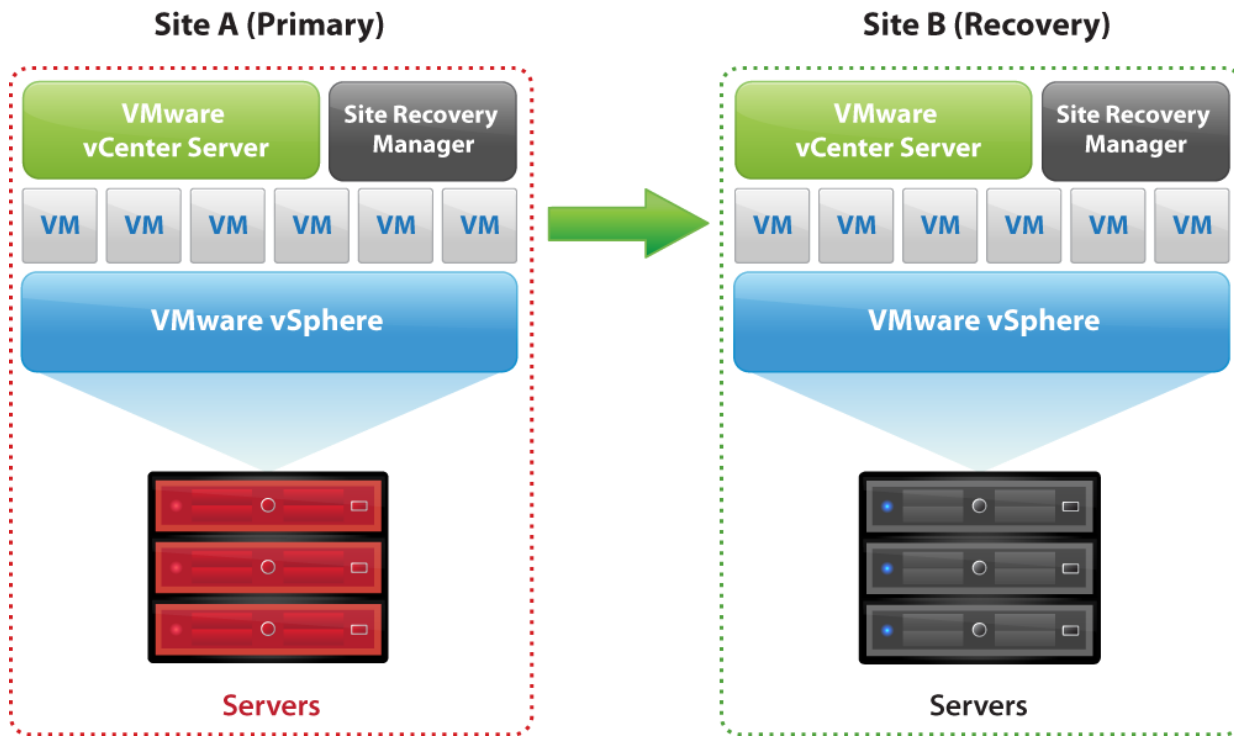


Disaster Recovery Solution

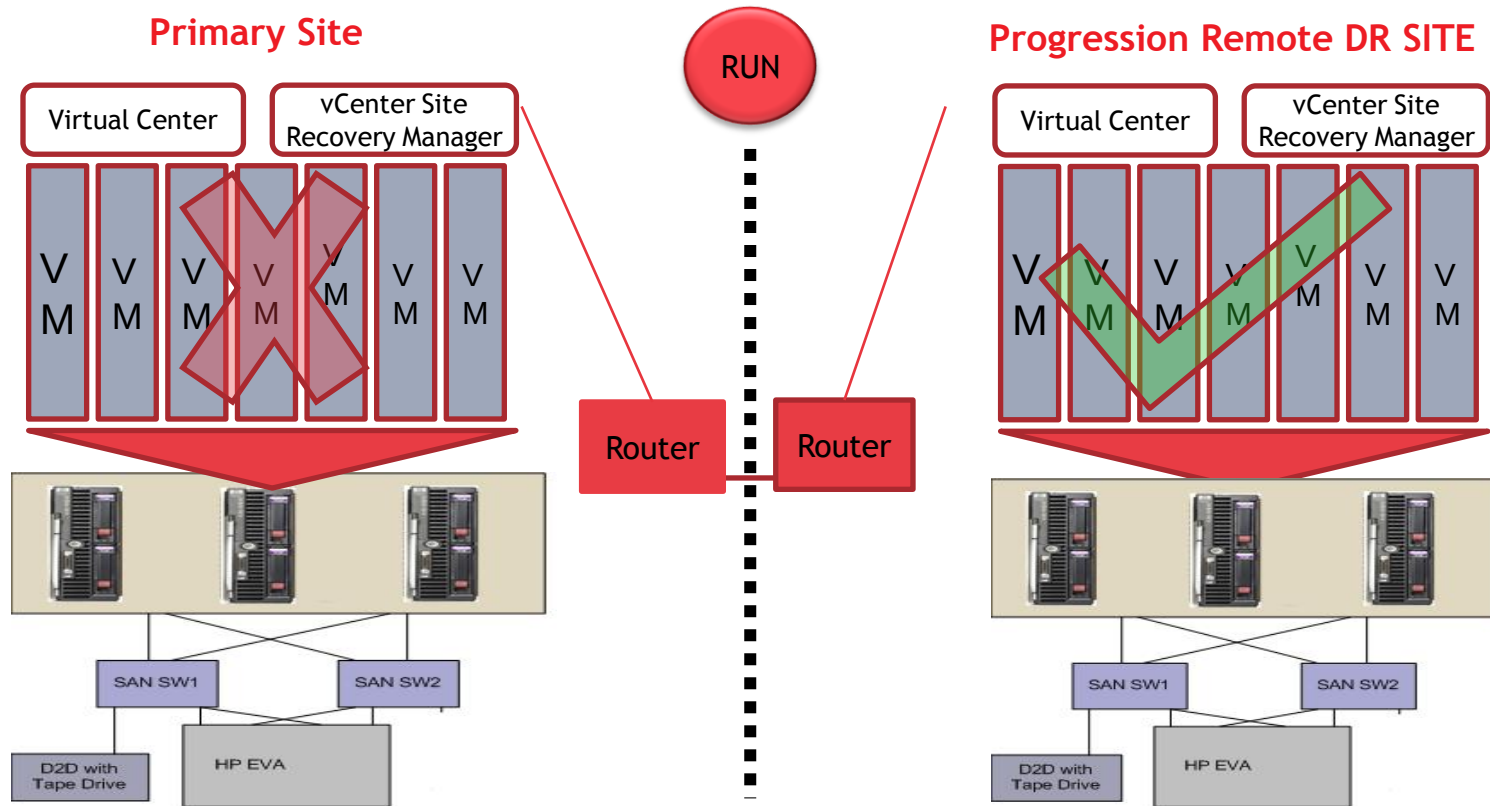


[Back to contents](#)

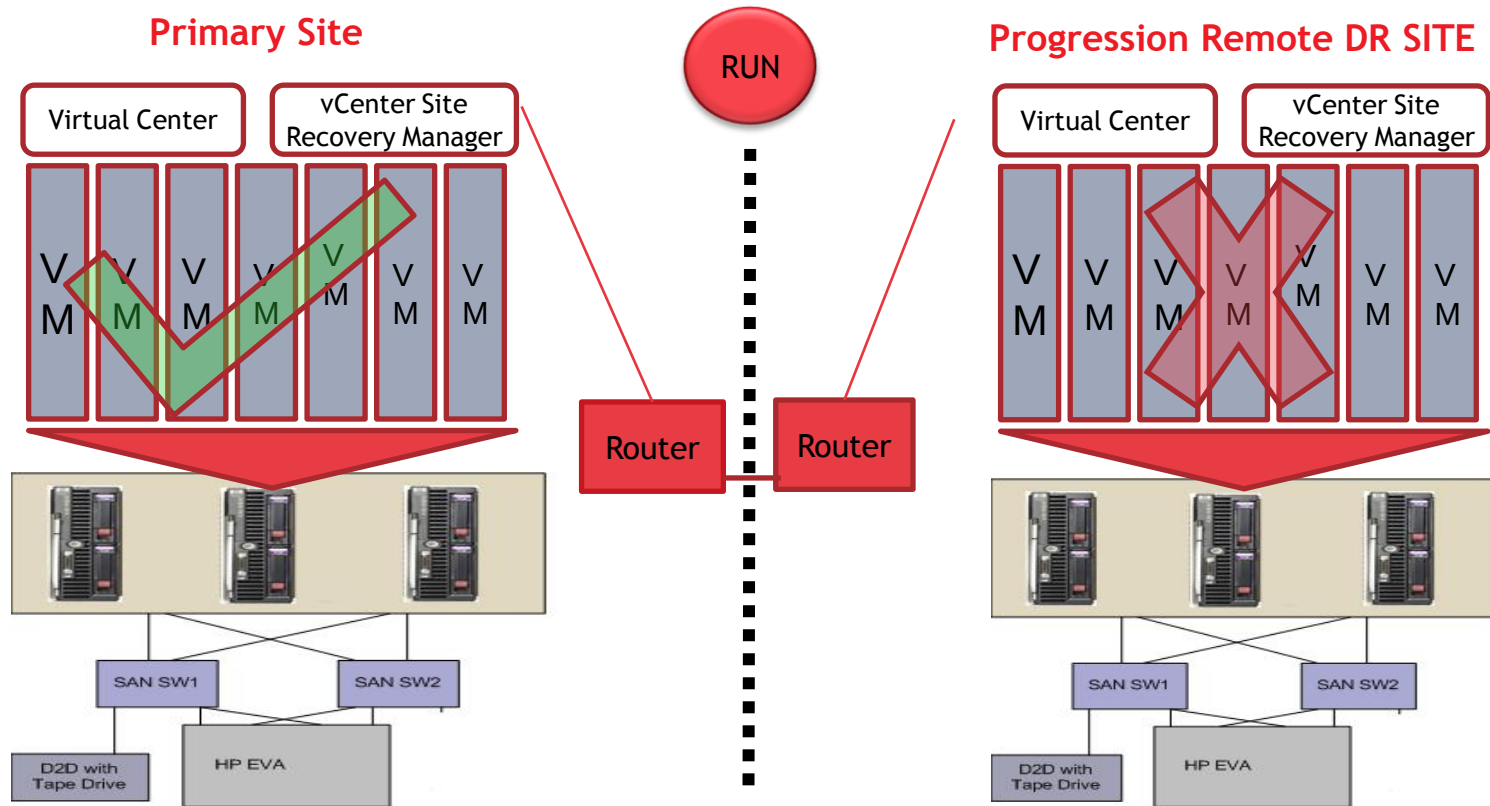
SRM - Reference Architecture



Site Failover



Site Failback



Key DRaaS Technologies



VMware vCenter Site Recovery Manager

vCenter Site Recovery Manager is a leading disaster recovery management product. It ensures simple and reliable disaster protection for all virtualized applications. It uses vSphere Replication or storage-based replication to provide:

- Simple management of recovery and migration plans
- Non-disruptive testing
- Fully automated site recovery and migration



Oracle Data Guard

Oracle Data Guard is a disaster recovery solution to protect mission critical databases on Exadata, which is Oracle's database solution for different types of workloads. Data Guard is also used to maintain availability if the production database is impacted for any reason, and to minimize downtime during planned maintenance.



HP Serviceguard

HP Serviceguard

HP Serviceguard helps companies monitor the availability and accessibility of critical IT services, such as applications and databases. Those applications and the IT infrastructure they use are monitored for any fault in hardware, software, operating system, virtualization, storage, or the network.



[Back to contents](#)



Choose your DR option

There are several approaches for disaster recovery. An enterprise has to choose the best approach depending on a range of factors such as cost, key applications, security and regulatory issues, and so on.

Physical or virtual infrastructure

Companies can replicate their existing physical infrastructure or parts of it to an infrastructure that is either physical or virtual. In the physical infrastructure mode, we will deploy the DR setup within our data center or the company's data center with dedicated infrastructure assigned. This approach is preferred by companies who are finicky about their setup being tangible, that is, the infrastructure can be seen physically.

Shared or dedicated infrastructure

As mentioned above, the company can choose to have a virtual infrastructure that can either be shared or dedicated. With the shared approach, costs come down significantly.

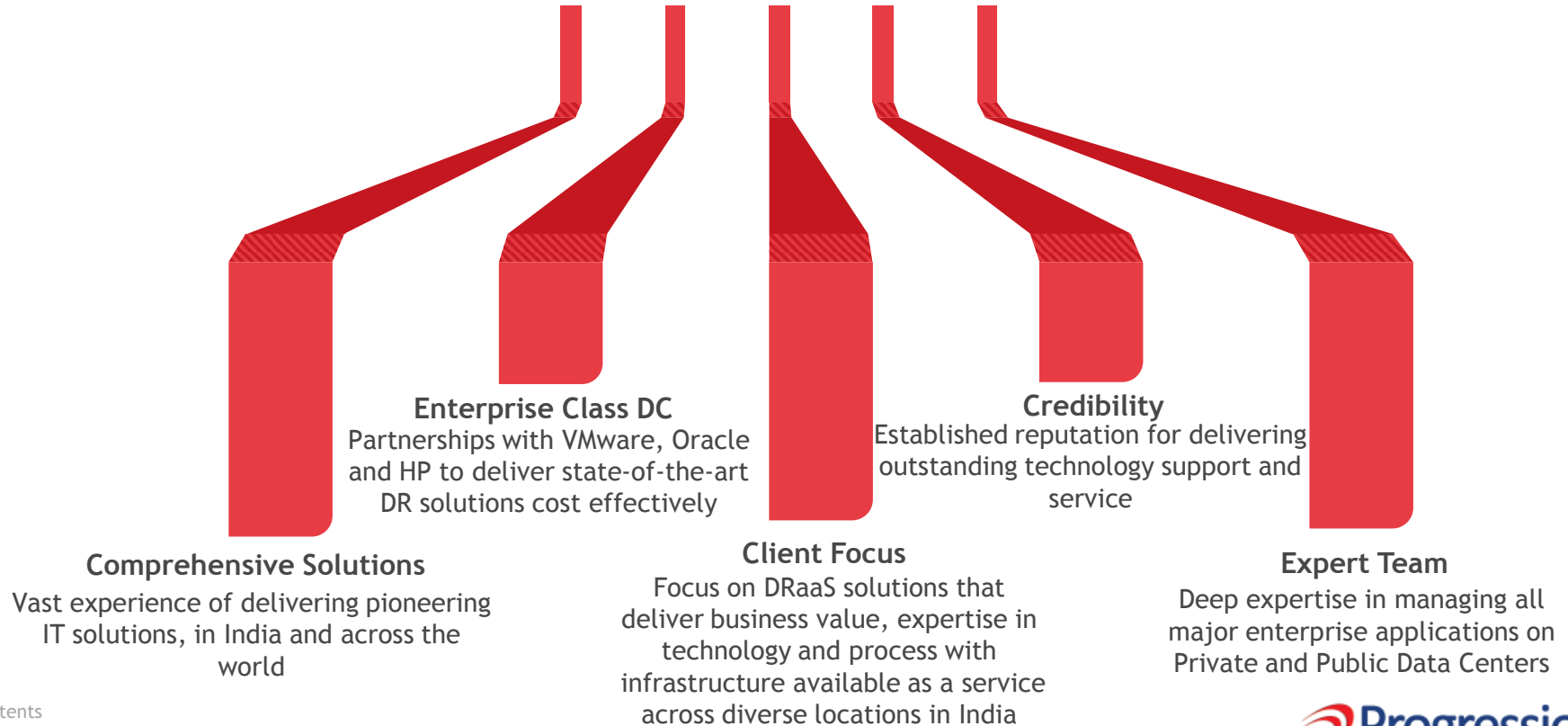
Near-site and remote DR

Companies can opt to have near-site DR and/or remote DR depending on their business needs. This means that in the event of a disaster or downtime, the switchover happens on a site that is located geographically near or far away. If a company faces hiccups frequently, it could be a good decision to have a near-site DR approach, as the data latency will be less in comparison to a remote site.

Some companies opt for both sites to ensure that they build geographical redundancy into the disaster recovery plan.



Why Work With Us?



[Back to contents](#)

Success Story

LUMAX INDUSTRIES

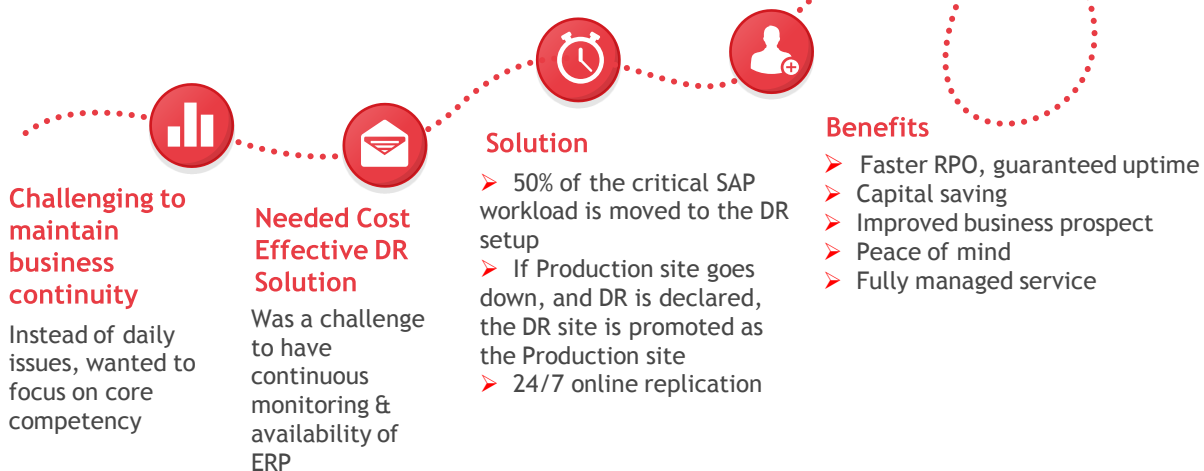
Asia's leading automotive components manufacturer



Disaster Recovery

"We are now confident about the availability of our application. The risk of losses and penalties related to downtime is minimized considerably."

-Lalit Madan, GM-IT



[Back to contents](#)



Key Relationships and Awards



[Back to contents](#)

Key Relationships



- Partner since 1997
- Progression has implemented the largest blade server solutions for HP in India
- We have implemented high-performance cluster storage



- Partner since 2006
- Deployed the largest VDI solution in India
- Implemented significant server consolidation projects



- Partner since 2001
- Implemented RAC infra for largest business house in India
- Implemented complex SUN compute grid



- Partner since 2000
- Handled migration from Linux to Microsoft Exchange, Active Directory and SharePoint deployments



- Partner since 2009

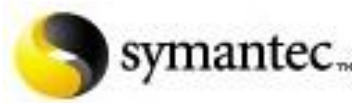


vmware
Service Provider Program



[Back to contents](#)

Key Relationships



[Back to contents](#)

Awards



- Best Cloud Services Provider - North, 2014
- Best Data Center Project, 2014



- Outstanding contribution in Solution Provider category: 2013, 2014
- Outstanding contribution - Technical: 2009, 2010, 2011
- Outstanding contribution in Sales: 2009, 2011



- Best SI for Cloud Solutions 2014
- Top ICT Solution Provider, 2010-11, 2013



- Best Performer in Storage category 2011-12, 2013



- Best Solution Provider - Cloud, 2011



How Can We Help You?

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