



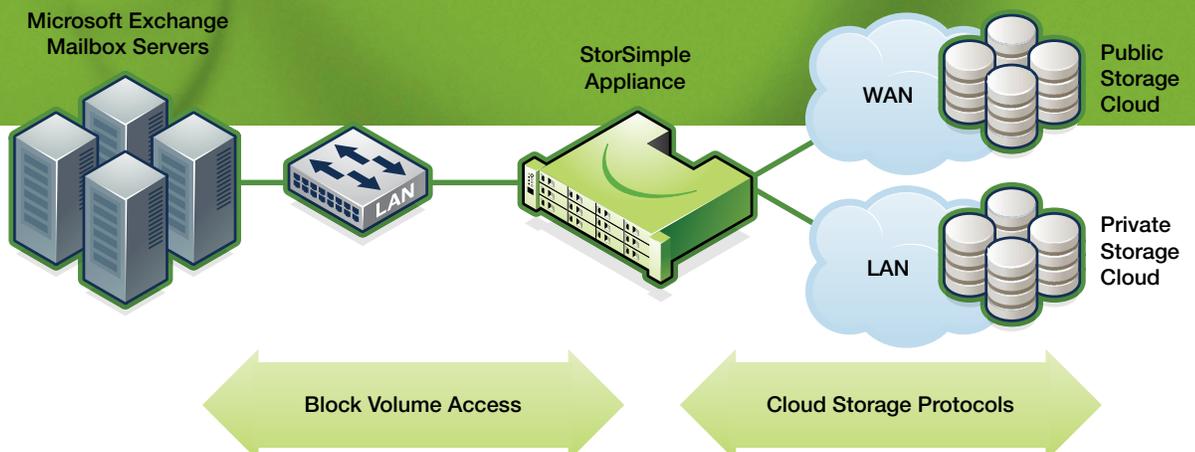
ARE YOU PREPARED FOR

# Exchange 2010 Capacity Explosion?

## EXCHANGE 2010 DRIVES RADICAL STORAGE GROWTH

A number of changes in Exchange 2010 when compared to earlier versions drive massive increases in capacity consumption. These include Database Availability Groups (DAG), removal of Single Instance Storage (SIS), integrated archival, and more. Most users notice a 10X-20X increase in the amount of storage capacity required to support Exchange 2010 when compared to previous versions, making it virtually impossible to deploy due to the cost and complexity of legacy storage. A conservative example of a midsize company is shown below.

Even more complex are the associated policies and procedures that support recovery in the event that disaster strikes, and testing to ensure that those processes and procedures work can be complex, cumbersome, and disruptive to the current production environment. Additionally, deploying redundant or standby infrastructure is costly, hindering I/Ts ability to execute given the additional cost and operational overhead. Further, returning service to a primary data center is a challenge after a recovery from disaster in a secondary location.



<b>Original capacity for Exchange 2003 for 5000 users, 1GB mailboxes, and 20% overhead for logs and other data</b>	<b>6TB</b>
Increasing user quota from 1GB to 2GB	<b>12TB</b>
3-replica Database Availability Group for HA within site	<b>36TB</b>
4th replica DAG for disaster recovery	<b>48TB</b>
Centralization of 10GB of PST data for 20% of users	<b>88TB</b>
Elimination of Single Instance Store (1.5X, conservative)	<b>132TB</b>
Unified message storage (500MB/user, 4 replicas)	<b>150TB</b>
<b>TOTAL EXCHANGE 2010 STORAGE CAPACITY</b>	<b>150TB</b>

### EXCHANGE 2010 CHALLENGES

Exchange 2010 increases storage capacity requirements:

- High availability using Database Availability Groups eliminates shared storage
- Removal of Single Instance Store drives redundant attachment storage
- Increased mailbox quotas for users
- Integrated archiving and PST centralization drives mailbox storage
- Unified messaging integrates voicemail and other features

### STORSIMPLE SOLUTION FOR EXCHANGE 2010

StorSimple's solution enables confident deployment of Exchange 2010 without breaking the bank:

- Weighted Storage Layout (WSL) identifies hotspots and stores them on high-performance, integrated SSD
- Primary storage deduplication curbs capacity growth and increases efficiency
- WAN optimization enables use of on-demand cloud storage without performance compromise
- Cloud Snapshots and Cloud Clones eliminate tape

### CORPORATE HEADQUARTERS

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Assuming a conservative estimation for the price of legacy on-premises storage of \$4/GB, this translates to \$600,000 in capital expenditure alone, not to mention the cost associated with managing that capacity, protection for the data, facilities, power, cooling, and other operational costs.

StorSimple provides a revolutionary solution that allows you to confidently deploy Exchange 2010 and its features to their fullest potential without incurring the cost associated with legacy storage deployments. The StorSimple solution couples the best of integrated on-premises storage with WAN optimization, security, and on-demand cloud storage to solve Exchange 2010 storage capacity challenges:

- On-premises storage performance through a combination of Weighted Storage Layout (WSL) and integrated SSDs
- On-ramp to cloud storage either to simplify and reduce cost for data protection, or for use as primary storage
- Leverage the economics of deduplicated primary storage and the cloud for supporting DAG, increased mailbox quotas, PST centralization
- Cloud Snapshots and Cloud Clones simplify data protection, eliminate tape, while providing always-on space-efficient backups in the cloud

In addition, StorSimple can be deployed as primary storage behind a secondary or tertiary DAG replica, allowing you to continue using existing primary storage for primary replicas while taking advantage of the economics and elasticity of the cloud for high availability copies. Using Cloud Snapshots and Cloud Clones complement the high availability capabilities found in Exchange through use of DAGs, while also enabling cloud-based disaster recovery to any location that has a StorSimple appliance. Further, with Exchange 2010 SP1, StorSimple can be used as primary storage for archive mailbox databases while leveraging existing storage for primary mailbox databases. Only StorSimple gives you the flexibility to leverage the cloud for on-premise Exchange 2010 as appropriate to your organization.