

DRAMATICALLY REDUCE STORAGE COSTS

By only consuming physical disk when data is written, as opposed to allocating capacity upfront, Dynamic Capacity typically reduces overall disk expenditures by 60%. Purchase additional disks only as needed, and in some cases, avoid additional purchases. Eliminate the space, power, and cooling costs of maintaining allocated but unused capacity.

ALLOCATE INFINITE CAPACITY WITH LIMITED STORAGE

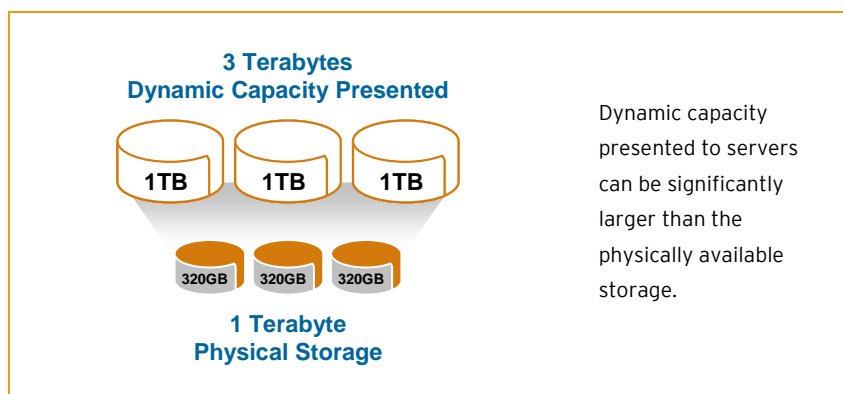
Allocate volumes of any size that only consume the physical disk needed – dramatically reducing spending, increasing availability, and boosting performance. The View Storage feature enables continual monitoring of allocated, used, and physical storage to determine optimum thresholds.

INCREASE STORAGE AVAILABILITY

Eliminate volume expansion downtime by allocating large volumes that consume disk space as needed. You no longer need to over allocate and over commit idle disk resources to avoid painful volume expansion operations.

BOOST PERFORMANCE

Managing actual instead of allocated space improves the performance of operations such as copy, replication, and rebuilds. Consolidating data on disk spindles reduces seek time.



Capabilities

- Allocate on write only uses physical disk space when data is written
- Assign volumes of any size
- Leave unused physical disk space available to all volumes
- Continually monitor allocated, used, and physical storage
- Enable greater than 100% utilization by allocating more capacity than actual physical resources

Benefits

- Reduce disk spending by adding storage incrementally
- Eliminate downtime due to volume expansion
- Automate capacity planning
- Increase system performance with disk operations based only on written data.

THE COMPELLENT ADVANTAGE

- Unused physical storage is available to all volumes
- Standard allocation page size of 2MB provides the greatest flexibility and eliminates wasted space

REDUCE STORAGE SPENDING WITH DYNAMIC CAPACITY

In traditional direct attached storage environments, administrators typically buy three times the storage needed to act as a growth buffer and eliminate the pain of expanding and re-allocating volumes. A SAN helps with some consolidation, but Compellent's Dynamic Capacity let's you purchase exactly what you need, dramatically reducing storage spending.

	Server 1	Server 2	Server 3	Server 4	Server 5	Total	Storage Spending
Presumed Need	100GB	100GB	100GB	100GB	100GB	500GB	
Actual Need	30GB	20GB	50GB	120GB	10GB	230GB	
Buy DAS	300GB B	300GB B	300GB B	300GB B	300GB B	1.5TB	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Buy SAN	→					1TB	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Buy Compellent	→ Dynamic Capacity →					500GB B	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$

- Automated page-based allocation** Automatically assign storage pages for Dynamic Capacity volumes
- Self-adjusting page size** Page sizes as small as 2MB depending on volume characteristics
- Optimized data placement** Incremental allocation places data on outer edges of disk platters minimizing seek times for faster access
- View storage** Built-in views and concurrent monitoring of presented capacity and physical space

About Compellent

Compellent delivers modular storage area networks (SANs) – exclusively through business partners – that every company can afford and any administrator can use.

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