

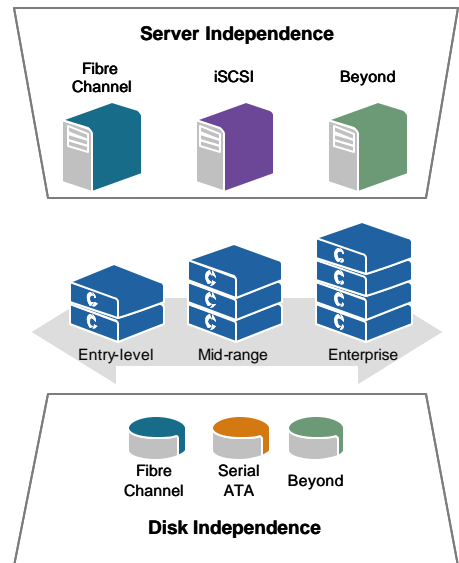
STORAGE CENTER HARDWARE

Compellent's Storage Center Hardware employs a modular, build-as-you-go approach that provides a low cost of entry with unlimited growth. Add any number of disk drives, enclosures or controllers.

The hardware architecture enables simultaneous mixing and matching of any server interfaces and drive technology. Use the optimum technology for your requirements.

SPECIFICATIONS

| | |
|-------------------|---|
| Disk controllers | N-way redundant disk controllers |
| Storage bays | N-way redundant storage enclosures |
| Storage software | Storage Center Core and Storage Center Applications |
| Server interface | 1 and 2 Gb FC-AL, 1 and 2 Gb FC-SW, 1 Gb iSCSI |
| Disk drives | Fibre Channel, Serial ATA |
| RAID levels | 0, 10, 5 |
| Cache | Multithreaded read-ahead, mirrored write cache |
| Fault tolerance | Redundant, hot-swappable storage controllers, disk drives, power supplies, fans, dual power cords, battery-backed mirrored cache, global hot standby spares, disk scrubbing |
| High availability | Automatic failover/failback, remote replication, data rollback (replays), online firmware updates, alternate pathing, multiple controllers, environmental monitoring, phone-home capabilities |
| Hardware warranty | Three year warranty standard |



- **Technology Independence** - mix and match any server interface or drive technology
- **Unlimited Capacity and Connectivity** - add any number of disk drives, enclosures or controllers
- **Configurable Performance** – design the speed and bandwidth your business requires
- **Enterprise Class** - enterprise level features, reliability and availability
- **Online Migration** – add additional capacity, connectivity or functionality while online

ARCHITECTURAL HIGHLIGHTS

| Feature | Details | Benefits | Others typically |
|---|--|---|---|
| Scalability | Add any number of disk drives, storage enclosures, or storage controllers | Storage Centers employ a scale-out architecture enabling greater capacity and performance with incremental additions | Restrict total drive and enclosure capacity, total number of controllers, and are limited to a single technology |
| Drive independence (mix and match drives) | Simultaneously mix and match drives for virtual volumes without penalties <ul style="list-style-type: none"> • Any drive capacity, speed, or interface • Add disks in any increment • N maximum disks | Complete flexibility to add any additional drives when needed | Impose drive specific penalties <ul style="list-style-type: none"> • Restrict drive set based on capacity, speed, or interface • Add disks in fixed increments • Fixed number of max disks |
| Full capacity utilization | Within a group, disks having a higher capacity than others can be used to their full capacity | Eliminate wasted space from mixing and matching drives | Limit available capacity of disks within a group to lowest common denominator |
| Multiple or single storage pools | Drives can be grouped into any number of hierarchical storage pools | Categorize disks based on technology, use, department, or any other parameter for optimum performance and cost management | Do not allow a logical segmentation of disk resources, or limit the number of storage pools |
| N-way controller architecture | Any number of controllers provide N-way redundancy, each backing up every other controller | N-way clustering delivers higher availability and more performance with a fewer number of controllers | Limit controllers to redundant pairs where controllers failover only between only two nodes |
| Heterogeneous OS support | Support any number of operating systems on a single Storage Center simultaneously | Dramatically reduce storage spending through consolidation | Limit the number of simultaneous operating systems on a single controller |
| Server interface independence | Connect to multiple server interfaces simultaneously – including Fibre Channel and iSCSI | Share Storage Centers with any server regardless of interface | Restrict the type of interface and do not allow simultaneous use of multiple interface types |
| Modular storage applications | All Storage Center Applications tie in directly to the Storage Center Core | Install new applications instantly and reduce additional training | Have lengthy installation cycles and require sophisticated training for new applications |
| Boot from the SAN | Automatically create volumes with LUN 0 | Enable diskless servers to share storage and boot from the SAN | Require servers to boot from internal storage |
| Customized rack | Standard rack hardware and customized component bezels, rack doors and cable management systems | Short installation time without purchasing additional cable management components | Only provide standard racks |