

# Seagate ADAPT Data Protection Technology

## Maintain availability of data

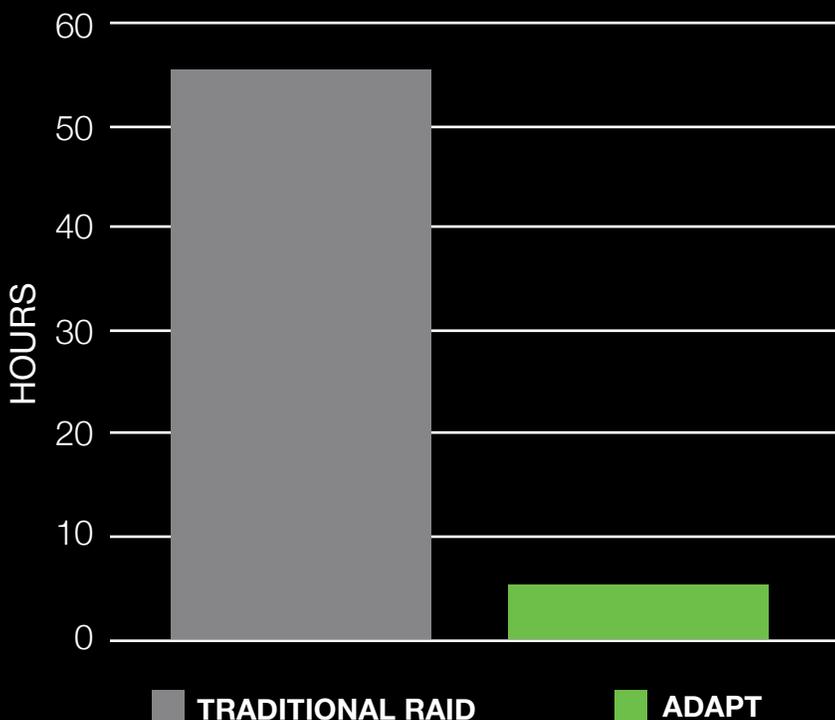
Data is a vital asset in today's business environment, which is why enterprises demand unparalleled data protection. Most industries also require performance and management features that facilitate business continuity, and promote access to their growing data sets with both accuracy and speed.

It is critical with data storage to create layers of data protection to assist with anticipating anomalies and help customers respond when other potential roadblocks arise.

As a leader in data storage technology, Seagate understands this and continues to innovate so that stored data is made safer, more secure, and available to customers when it is needed most.

## 95% faster rebuild times than traditional RAID solutions

Traditional RAID vs Seagate ADAPT  
Rebuild time — 1 Drive Failure



Time to fault tolerance now measured in minutes, not days.



## Seagate ADAPT Technology

Traditional RAID technology works by transferring data to spare drives when a drive is in trouble. However, the potential for rebuild time grows exponentially as RAID systems cope with ever-increasing capacity. Minimizing the rebuild process is important to ensure that all drives in the RAID array maintain high performance.

Seagate Advanced Distributed Autonomic Protection Technology (ADAPT) is based on intelligent parallel architecture that employs smart learning to respond to potential or active failures. Seagate ADAPT allows for flexibility of physical storage by using the space on each drive and not just the minimum space across the drive group, as expected in a traditional RAID setup. In short, this flexibility allows for fast rebuild times and simplified expansion.

Measuring failures in minutes, and not days, is achieved by using Seagate ADAPT technology, which virtually eliminates impacts to performance, making Seagate systems truly *self-healing*.

Providing uninterrupted access to data while drastically reducing administration and management time, Seagate ADAPT technology creates an unprecedented layer of data protection and peace of mind.



### Key Seagate ADAPT Highlights

Dispersed parity implementation distributes data across every drive in the pool. You can expect:

- Ease of management/self-healing—reduced support calls and competitive selling point
- The bigger the better—the bigger the array, the more powerful it is
- Flexible—can be used with hard drives, hybrid, or AFA configurations and any Seagate enclosure
- Capacity expansion made simple
- Efficient—no need to have additional devices available for rebuilds



### Benefits to the Enterprise

- Business continuity—protects critical data
- Rapid access to data
- Advanced data protection without sacrificing performance, even during rebuild
- Can address concurrent drive failures, increasing data integrity and access
- Self-healing reduces management time

## Leveraging High Capacity

Traditional approaches to data protection with high-density enclosures often result in time-consuming rebuilds in the event of a device failure. Seagate is enabling enterprises to use high-density enclosures with high-capacity drives more confidently, while dramatically reducing potential rebuild times.

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