

IBM System Storage Data De-duplication

Maywood Solutions are one of the leading integrators of IBM ProtecTIER Data De-duplication solutions.

To see how Maywood can reduce the size of your backup data footprint and more importantly drive down the cost of storing data, contact us and start de-duping today!



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Need to keep data available longer without increasing your storage infrastructure? Don't waste disk space storing the same data multiple times. IBM makes it easy for you to harness the power of de-duplication without making radical changes to your computing environment, enabling you to squeeze up to 25TBs or more data onto only 1TB of disk.

Let IBM show you how to retain data longer cost effectively, protect data more efficiently and reliably, and save money by reducing energy, floor space, and maintenance requirements.

Until now, the only way to maintain high-level data protection for growing amounts of enterprise data was to add more disk space to the data protection infrastructure, an approach which can quickly become cost-prohibitive as data volumes continue to grow, whilst infrastructure budgets shrink.

Regardless of cost, however, enterprises still have to be able to reliably back up and secure data with the ability to perform back up and restore operations without disrupting business. Ultimately, the challenge is to find ways to do this, and more, but with less infrastructure.

What is IBM Data De-duplication?

Data de-duplication solutions from IBM employ an advanced form of data compression that identifies and eliminates redundant data across the data landscape, making it possible to significantly reduce the amount of data that needs to be protected. This in turn dramatically increases the effective capacity of existing disk storage, so that far less physical disk is required to protect the data.

Beyond the direct resource savings associated with needing less disk space, which can be in the hundreds of thousands or millions of pounds, the benefits of data de-duplication include:

- Greater productivity from being able to perform more frequent backups with the same amount of physical disk.
- Increased efficiency due to the greater likelihood that data will be able to be restored from disk.
- Reduced energy consumption from reducing the amount of disk in operation.

Introducing IBM ProtecTIER® De-duplication Solutions



IBM ProtecTIER® De-duplication Solutions, featuring revolutionary and patented HyperFactor® data De-duplication technology, provide enterprise-class performance, scalability, and proven enterprise-level data integrity to meet the disk-based data protection needs of the data center.

The IBM TS7650G ProtecTIER De-duplication Gateway, delivers high-performance, inline de-duplication for virtual tape libraries (VTLs).



IBM's patent-pending HyperFactor® technology from the acquisition of Diligent, uses a pattern algorithm that can reduce the amount of space required for storage in the backup environment by up to a factor of 25, meaning you could store 25TB of data in just 1TB of physical disk.



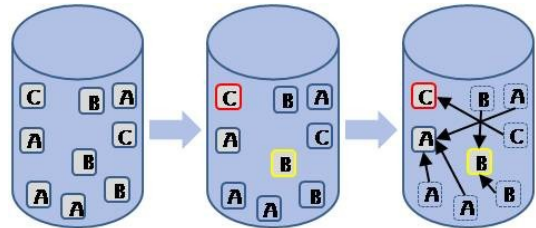
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How Does It Work?

Often called “intelligent compression”, data De-duplication is a method of reducing storage needs by eliminating the redundant data.

- Only one unique instance of the data is retained
- Redundant data is replaced with a pointer
- Eliminates redundant data at various levels
- The objective is to reduce the physical storage requirements



Features & Benefits

Better application & information retention

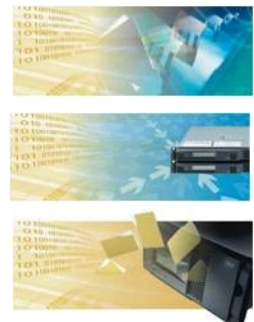
- Access data faster online
- Keep data online longer vs. offsite
- Move data safely without disruption to apps.
- leverage use of tiered storage
- More flexible disaster recovery

Simpler infrastructure management

- Physical consolidation of data
- Reduce energy consumption by reducing physical resources
- Simplify and standardize management
- Improved TCO through reduced energy consumption

Remove limitations of physical infrastructure

- Reduce physical storage resources across the enterprise
- Increase flexibility and responsiveness to business requirements
- Ease deployment of multi-vendor environments.
- Do more with less infrastructure



- High speed backups: Performance up to 1000 MB/s or more sustained inline De-duplication.
- Investment Protection: Meets today’s requirements and can easily scale to 1PB of physical storage that can store up 25PB or more backup data.
- Data Integrity: Non-hash-based approach avoids possibility of data loss due to hash collision
- Non-Disruption: inline approach ensures backup windows are met with no disruption.
- Production proven: Tested and proven in hundreds of production environments around the globe.
- Native Replication: De-duplication and replication combined to improve Disaster Recovery operations by enabling more data to be protected at a lower cost.
- Stability: IBM owns ProtecTIER and is committed to providing continuous R&D to develop and deliver innovative and timely solutions to meet your data protection challenges.

