IBM Spectrum Storage

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Irends

Data Solutions

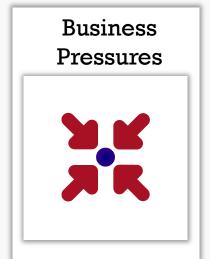






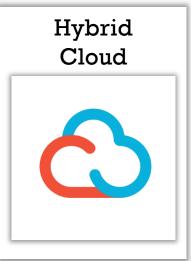
New infrastructure expectations

Changing Nature of Business and Data









Free data from constraints of hardware and realign with new business processes and applications



Complexity

Inflexibility

Hardware is not the answer

- Blindly adding capacity
- Data trapped in storage silos
- Data duplication and more silos
- Extending refresh cycles
- Ad hoc cloud usage

Solutions to Trends

- Data Dimensions
- CAMSS

Think Big - Solutions

- Flash
- Control
- Protect
- Virtualize
- Accelerate
- Scale
- Archive



\$1 Billion

investment in "software-defined storage".

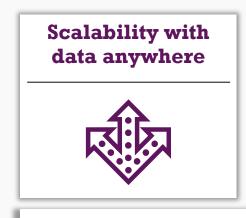
February 2015

\$1 Billion

investment in FlashSystem.

February 2015

IBM Spectrum Storage Business Value







Openness

Software Offering Choice

Industry standard hardware, integrated appliances or as SaaS (SoftLayer)

Announcing IBM Spectrum Storage Solutions



Agility

Speed

Spectrum Accelerate™

Elasticity

Spectrum Scale™



Control

Insight

Spectrum Control™

Governance

Spectrum Protect™



Efficiency

Utilization

Spectrum Virtualize™

Placement

Spectrum Archive™

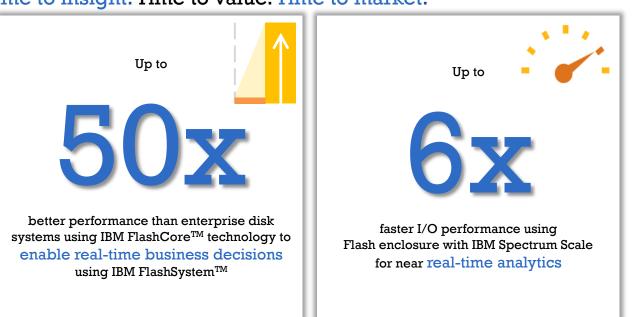
Get It Your Way: Software, Service or Appliance

Proven Technology, Open Standards, Modular Adoption

Flash

IBM FlashSystem, it's about time.

Time to insight. Time to value. Time to market.



IBM FlashSystem Tier 1 Guarantee

Performance

IBM MicroLatency™ performance.

3:1

Data Reduction

Storage efficiency savings rate¹

Endurance

read/write endurance²

Support

up to 7 year

 24×7^{3}

Peace of Mind

Complimentary IBM services⁴

Grab the microsecond advantage

SpectrumControl

IBM Spectrum Control

Unleash the power of analytics to reduce users' per terabyte cost of storage







Up to

100%

improvement in capacity utilization¹

Up to

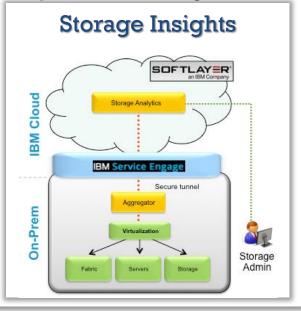
90%

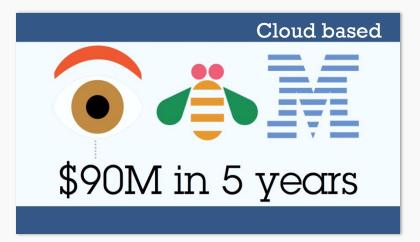
storage capacity utilization²

Up to

66%

reduction in staff time, software & support costs³







ITG Brief PDF

Large Enterprise can cut cost by 72%. IBM saved \$90M over 5 years Single Plane of Glass

or





ITG Brief PDF

Mid Market Customers
can cut cost 34%.
CAS cut their cost by 50%
Full Featured @ Mid Market Price

SpectrumVirtualize

"stop double spending & double effort"

IBM Spectrum Virtualize

Choice of infrastructure solutions



SVC

Performance and utilization as it scales



V9000

Encryption & data governance for data



V7000/V5000

Share data locally or globally

Up to

100%

improvement in capacity utilization¹

3x

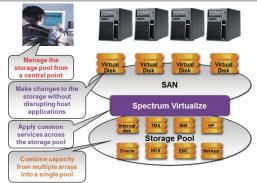
performance with as little as 5% data on flash²

Up to

80%

savings & outstanding performance with Real-time Compression

Guaranteed³



Unlock Assets

260+

Storage systems supported

Virtualization



<u>Axtel</u>



Ricoh



Dar Al-Handasah

Easy Tier



Agence France-Presse



Centerline Digital



TOTVS

Real-time Compression



Pelephone



Snowball Studios



GAD

SpectrumScale

"data with out borders"

IBM Spectrum Scale

Deliver agility and massive scale for today's data intensive enterprise



Large scale

Performance and utilization as it scales globally



Security

Encryption & data governance for data compliance



Share data locally or globally

Up to

90%

reduction in storage cost with policy driven Automation¹

35%

performance improvement over Hadoop File System² Up to

10x

better Performance on the same hardware³

IBM Spectrum Scale™ for Big Data & Analytics



Analyze social data in near real-time and dynamically manage data to keep storage costs low

IBM Spectrum Scale



SpectrumAccelerate

"grid speed at your cost"

IBM Spectrum Accelerate

Ultra-flexible software defined storage deployed fast, anywhere



Add storage in minutes; meet SLAs hotspot free



Agility
se & reuse any x8

Easily use & reuse any x86 server



Simplicity

Standardize operations; flexible, online licensing

Less than

30_{mins}

to download, install, enjoy enterprise storage

More than

50%

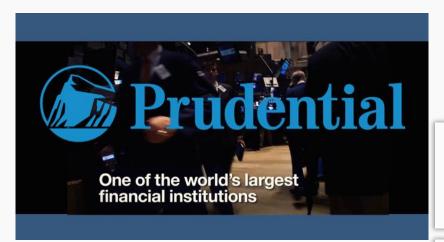
reduction in Total Cost of Ownership #1

management experience





Single Management Experience Single Software Stack/Feature Set



Prudential Joe Balsamo, Vice President Platform Engineering, discusses innovation in storage, and aligning IT with the business to process huge volumes of data quickly and deliver what customers need. [link]

Joe's Cloud

Mr.Balsamo

50%
Reduction in \$/MB

75%
Reduction in \$/IOP

85%
High Thin provisioning conversion

15 seconds 72Hr RPO reduced Storage Admins for routine ops

Spectrum Accelerate & Virtualize

Lananz

You