WD®

absolutely™

Elemental storage building blocks
for every datacenter.

Xe
HDD
Performance

Re
HDD
Durability

Se
HDD
Scalability

WD's enterprise-class datacenter hard drives

WD's Datacenter Storage Portfolio
## The right drives for the job.

At the heart of every datacenter drive is a true enterprise-class design with high-quality components, unique features and specialized testing and manufacturing processes that makes it uniquely qualified for the job.

As datacenters evolve in response to the explosive growth of unstructured data, the classical attributes associated with enterprise-class drives are being extended. Scale-out architectures such as Apache™ Hadoop®, put different reliability and workload requirements on individual drives as compared to drives in traditional RAID arrays. As a result, a new datacenter storage tier model emerges, where reliability and workload capability become as important as performance, capacity and cost per gigabyte.

WD's datacenter storage portfolio meets the needs of today's datacenter with drives that offer the right combination of performance, capacity, reliability and workload capability at the right cost per gigabyte. By providing a core set of storage devices that serve all types and sizes of datacenters, from traditional enterprise to scale-out architectures to large-scale NAS, WD® delivers the elemental storage building blocks for every datacenter.

WD's Datacenter Storage Portfolio – Tiered Model
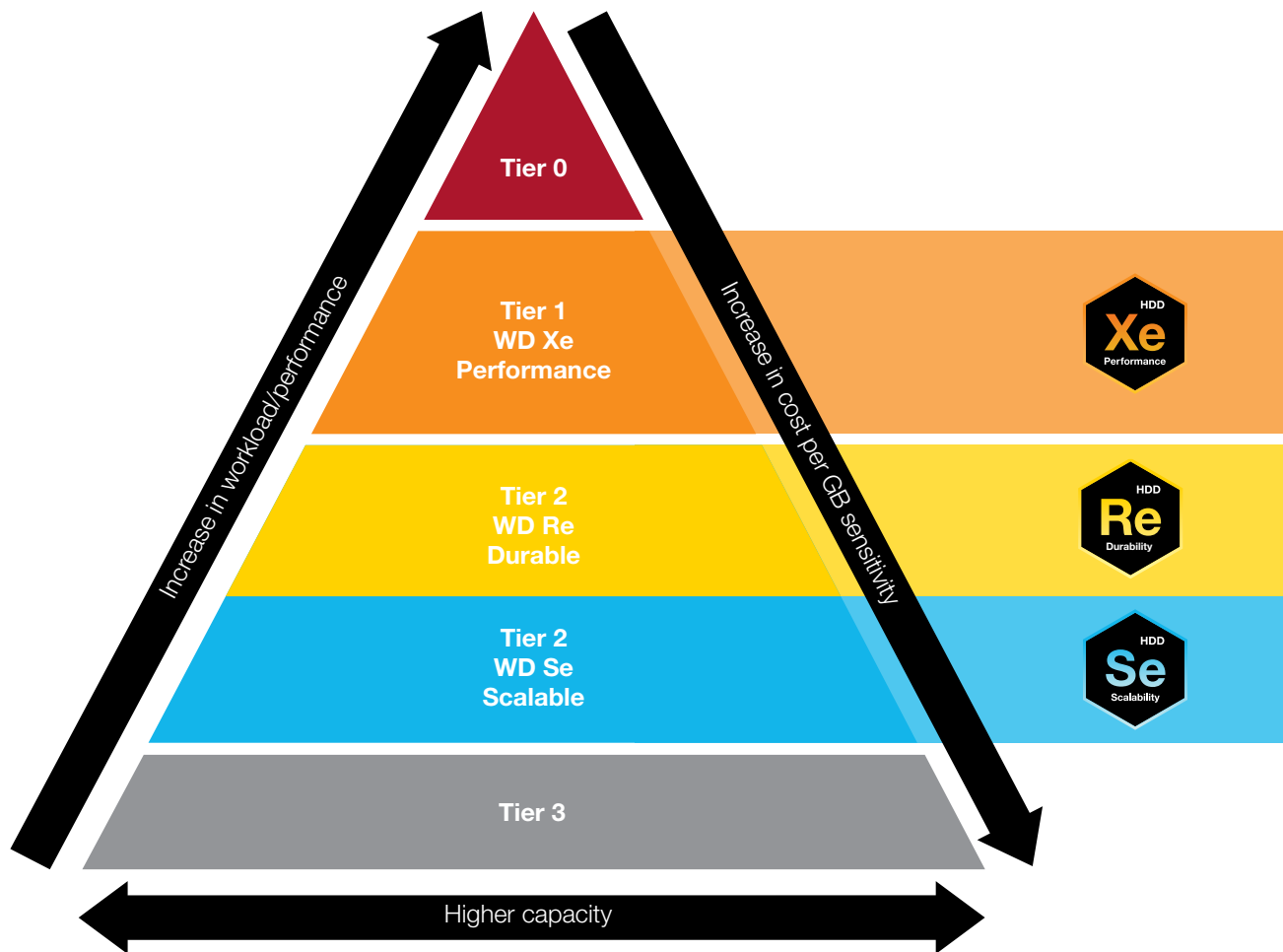
WD Datacenter Storage Portfolio

WD Xe™
Designed to deliver high performance within your datacenter.

With the industry's best-in-class performance and highest reliability, WD Xe is perfect for demanding applications like on-line transaction processing, high-performance database, video post-production and virtualized servers. WD Xe comes in 2.5-inch form factor for high-density enclosures, maximizing storage space and delivering lower power than larger form factors. WD Xe also comes pre-mounted in a 3.5-inch performance carrier, allowing datacenter managers to protect their investment in large form-factor equipment and yet be able to upgrade to the latest in enterprise-class HDD technology. The drive's SAS interface contributes to its high performance, high availability and increased manageability.

Purchase Decision Criteria

Workload Capability

Reliability

Performance

Capacity

Cost per Gigabyte

Highlights:
- Highest sequential performance in its class
- Designed for the heaviest workloads
- Best-in-class reliability

Best for:
On-line transaction processing (OLTP), database query, analytics, high-performance computing and multi-tenant server applications.

If your application requires performance and reliability above all other attributes, WD Xe is the right datacenter storage device for you.

Designed for Performance

WD Xe
Datacenter Performance HDD

High-density performance storage for demanding applications.

- Ultra-fast SAS storage
- 2.5-inch & 3.5-inch form factors
- Maximum capacity 900 GB
- Low power consumption
- Industry's highest reliability rating at 2.0 M hours MTBF
- With StableTrac™ to reduce system-induced vibration and platter stabilization
- Rotary Acceleration Feed Forward (RAFF™)
- Self Encrypting Drive options available
- 5-year limited warranty

WD Re™
Designed to deliver optimal durability in your datacenter.

With the industry's highest capacity, class-leading reliability and ten times the workload capability of desktop drives, WD Re is the workhorse of the WD's datacenter portfolio. WD Re is perfect for high-availability storage arrays such as RAID, that demand the most robust storage device available. WD Re's high performance, capacity and reliability make it ideal for data warehousing/mining and high-performance computing. WD Re is available with either a SAS or SATA interface for flexibility and maximum compatibility. The drive's SAS interface contributes to its high reliability and manageability in high-availability arrays.

Purchase Decision Criteria

Capacity

Workload Capability

Reliability

Cost per Gigabyte

Performance

Highlights:
• Designed for RAID configurations
• Highest error tolerance of any capacity-optimized drive
• Industry-leading combination of capacity, reliability and workload capability

Best for:
On-line analytical processing (OLAP), high-performance computing, high-reliability cloud storage, high-availability RAID arrays.

If your application requires capacity without compromising reliability and workload capability, WD Re is the right datacenter storage device for you.

WD Re
Datacenter Capacity HDD

**Durable capacity storage for
high-availability deployments.**

- Capacity with durability, SAS or SATA storage
- 3.5-inch form factor
- Maximum capacity 4 TB
- Heavy workload capability
- 24x7x365 reliability
- 1.4 M hours MTBF (SAS) / 1.2 M hours MTBF (SATA)
- With StableTrac to reduce system-induced vibration and platter stabilization
- Rotary Acceleration Feed Forward (RAFF)
- Self Encrypting Drive option available
- 5-year limited warranty

HDD

Re

Durability

SAS

SATA

WD Datacenter Storage Portfolio

WD Se™
Designed to deliver optimal scalability in your datacenter.

With the ideal combination of capacity, reliability and workload capability for many scale-out architectures, WD Se provides a cost-effective solution for large-scale cloud deployments and entry to mid-range arrays designed for low workload applications. With its true enterprise-class pedigree and design, WD Se is ideal for multi-bay enclosures, from entry level servers, to mid-range Network-Attached Storage (NAS), to bulk cloud storage. WD Se employs Advanced Format and the SATA interface to deliver the lowest cost per gigabyte of any enterprise-class drive in the portfolio. This enables WD Se to deliver flexibility and value in all medium-workload applications.

Purchase Decision Criteria

Capacity

Cost per Gigabyte

Reliability

Workload Capability

Performance

Highlights:
• Optimized for replicated and NAS environments
• Feature-set enhanced to enable lower cost per gigabyte
• Enterprise-class design delivers capacities up to 4 TB

Best for:
Bulk cloud storage, social networking, NAS, Big Data, replication-based distributed file systems, backup and archiving.

If your application deployment requires enterprise-class features and can withstand lower performance and reliability to gain a more cost-effective solution, WD Se is the right datacenter storage device for you.

Designed for Scalability

WD Se
Datacenter Capacity HDD

Optimal storage for NAS and scale-out architectures.

- Cost-effective datacenter SATA storage
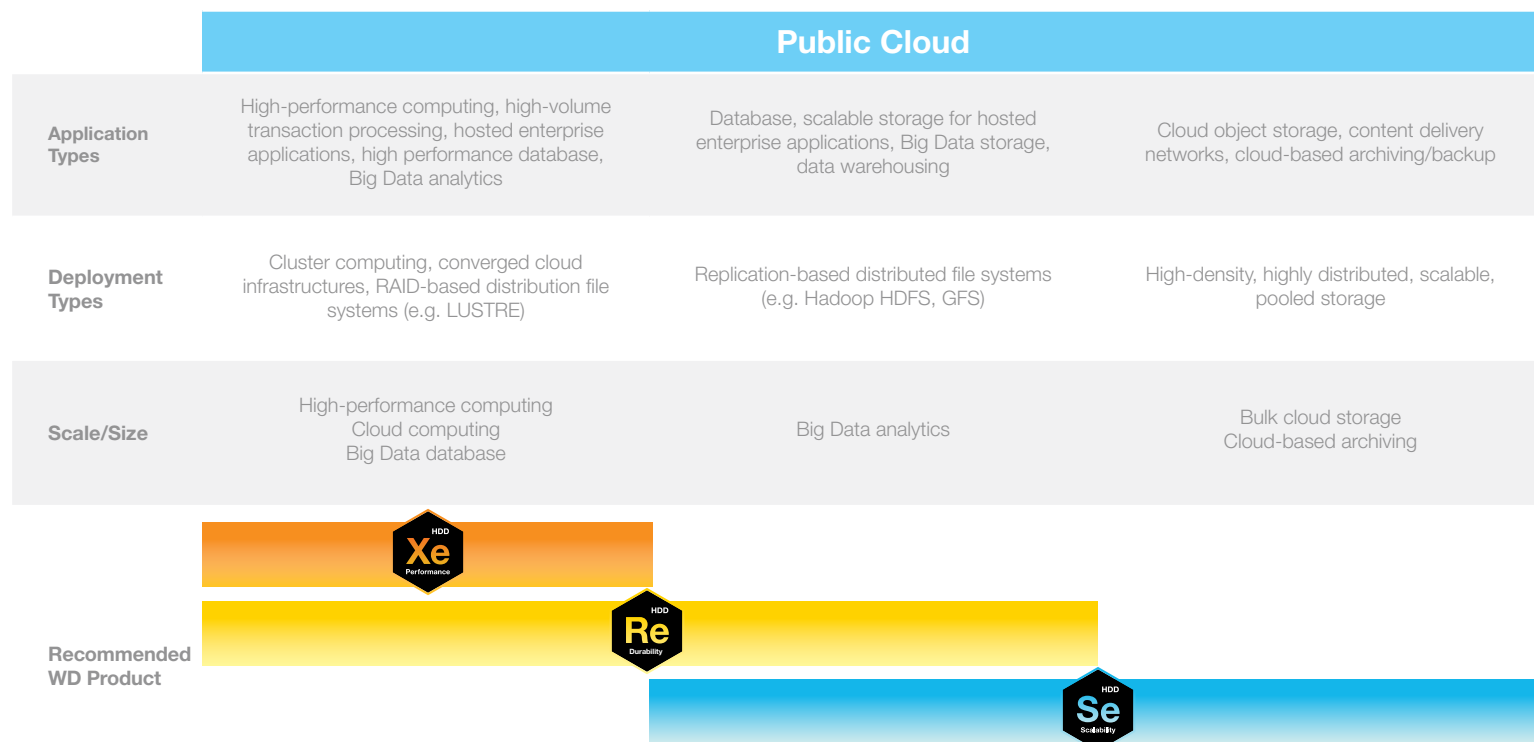- 3.5-inch form factor
- Maximum capacity 4 TB
- Right blend of performance and power
- 24x7x365 reliability
- 1 TB: 800,000 hours MTBF
  2 TB – 4 TB: 1,000,000 hours MTBF
- With StableTrac to reduce system-induced vibration and platter stabilization
- Rotary Acceleration Feed Forward (RAFF)
- Self Encrypting Drive options available
- 5-year limited warranty

HDD
Se
Scalability

Elemental storage building blocks for every datacenter.

WD has a history of being the storage leader of choice for quality, reliability, trust and security. WD Re has won numerous awards for capacity, performance and quality. WD Datacenter drives are all built on the foundation of classic enterprise design, and WD partners with industry leaders to ensure we are delivering the most innovative portfolio of datacenter storage products. WD empowers IT managers with choice; select WD as your trusted provider of storage building blocks for your cloud-oriented datacenter.

	Public Cloud		
Application Types	High-performance computing, high-volume transaction processing, hosted enterprise applications, high performance database, Big Data analytics	Database, scalable storage for hosted enterprise applications, Big Data storage, data warehousing	Cloud object storage, content delivery networks, cloud-based archiving/backup
Deployment Types	Cluster computing, converged cloud infrastructures, RAID-based distribution file systems (e.g. LUSTRE)	Replication-based distributed file systems (e.g. Hadoop HDFS, GFS)	High-density, highly distributed, scalable, pooled storage
Scale/Size	High-performance computing Cloud computing Big Data database	Big Data analytics	Bulk cloud storage Cloud-based archiving
Recommended WD Product	HDD **Xe** Performance	HDD **Re** Durability	HDD **Se** Scalability

Private Cloud				Personal Cloud
High-volume transaction processing, high-performance database	Large scale Enterprise applications (ERP, CRM, web, email, e-commerce), Data warehousing, business intelligence	Medium-scale enterprise applications (ERP, CRM, web, email, e-commerce)	Small-scale web/email, print/database server, file sharing, backup, light-duty remote access	File sharing, centralized storage, backup/archiving
Blade servers and high-performance SAN	Converged platforms, Blade servers, scalable SAN	Rack-mount servers and NAS, or dedicated storage area networks	Tower servers, Table-top 6-12 bay NAS	Stand-alone table-top 2-5 bay NAS box
Specialized mission-critical application servers	Large-scale enterprise	Medium-large business	Small-medium business (SMB)	Home/small office

Xe HDD Performance

Re HDD Durability

Se HDD Scalability

WD Red — **WD Red™ NAS Hard Drives**