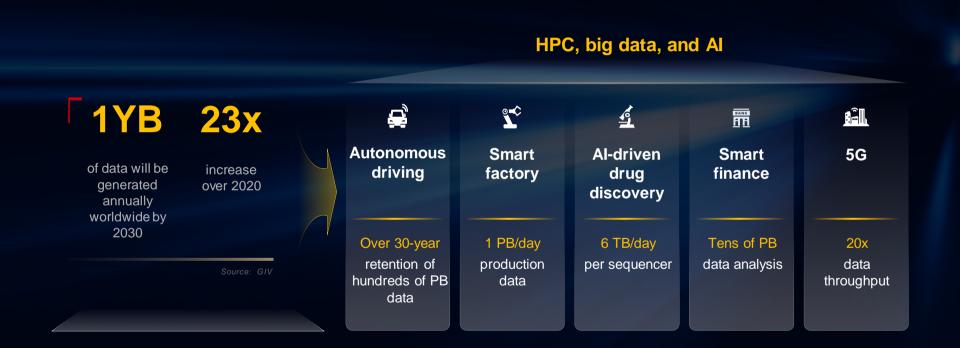
OceanStor Pacific,

Embracing New Workloads of the Yottabyte Era

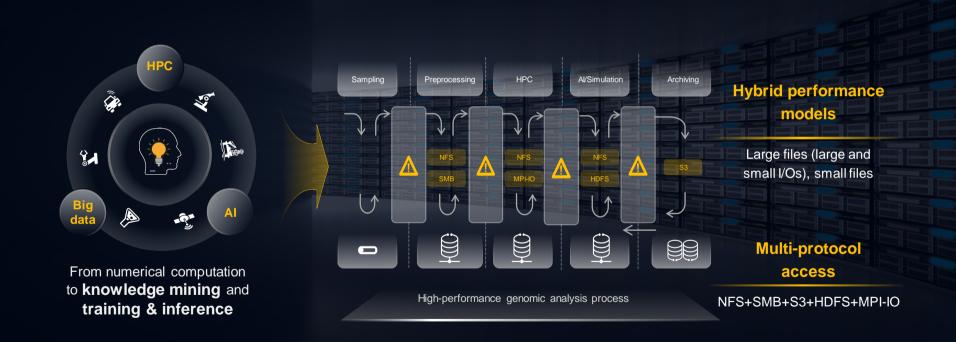


More and more new workloads will appear in the upcoming yottabyte era



Al & big data are driving the HPC industry into the era of diversified computing

One-for-all HPDA storage is necessary



All-intelligence is driving big data analytics into the era of real-time processing

The convergence of historical and streaming data is necessary



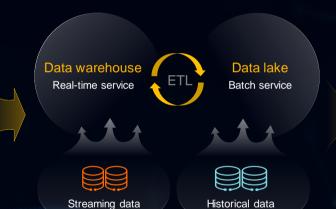
Real-time risk control

Real-time and historical transaction behaviors



Real-time informed decision

Real-time and historical operation data



Storage sharing

Data sharing between data lakes and warehouses, thus reducing data migration

Data format convergence

Compatible with data formats of data lakes and warehouses to avoid data format conversion

Mass data is driving data services into the era of all-online, anytime, anywhere

Flexible and reliable modern storage is necessary





Huawei OceanStor Pacific Distributed Storage

Hybrid workloads-oriented, one-for-all storage for mass data

Performance models

OceanStor Pacific 9950 | 9920

Balanced model

OceanStor Pacific 9640

Capacity models

OceanStor Pacific 9550 | 9540 | 9520



HPDA



Big data



Video

Backup & archiving

Efficiency for Hybrid Workloads

- · Seamless multi-protocol interworking
- 160 GB/s bandwidth, 6.4 million IOPS, and 640,000 OPS per chassis, 20% higher than similar products in the industry

Optimal ROI

- High-density hardware design: 24 disks/U, 20% higher than similar products in the industry
- High resource utilization: 22+2 EC

Always-On Services

- 3 to 12 active DCs
- ≤10s switchover upon a node failure

Hybrid-workloads efficiency: Addressed by fully balanced system design

Converged indexing for unstructured data

Native seamless multi-protocol interworking

Data flow adaptive to large and small I/Os

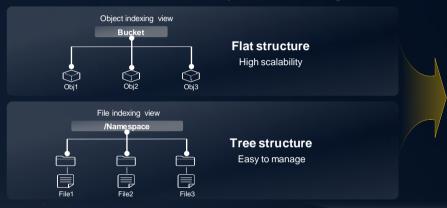
High performance in processing hybrid workloads

SmartBalance

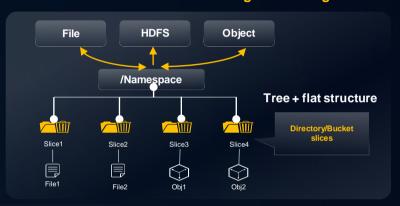
Fully balanced system design

Native seamless multi-protocol interworking based on converged indexing





Huawei solution: converged indexing



Data sharing with zero data copying

Feature	Other Vendors	HUAWEI
Zero gateway plug-in	×	√
Zero semantic loss	X	√
Zero performance loss	X	√

High performance for hybrid workloads as data flow adaptive to large and small I/Os





Video

Hybrid-workloads efficiency: Addressed by fully balanced system design

Converged indexing for unstructured data

Native seamless multi-protocol interworking

Data flow adaptive to large and small I/Os

High performance in processing hybrid workloads

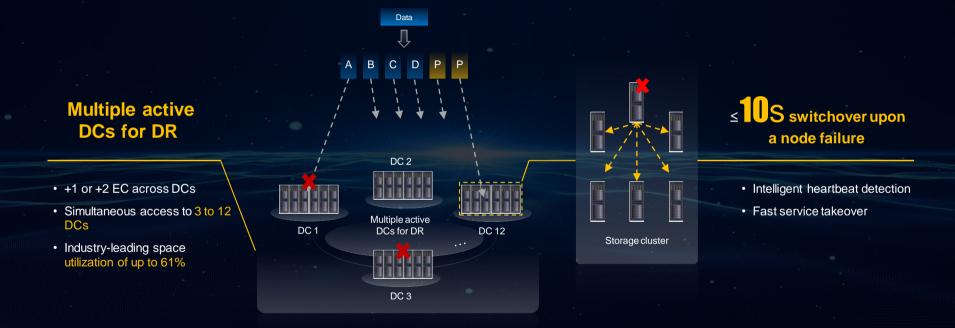
SmartBalance

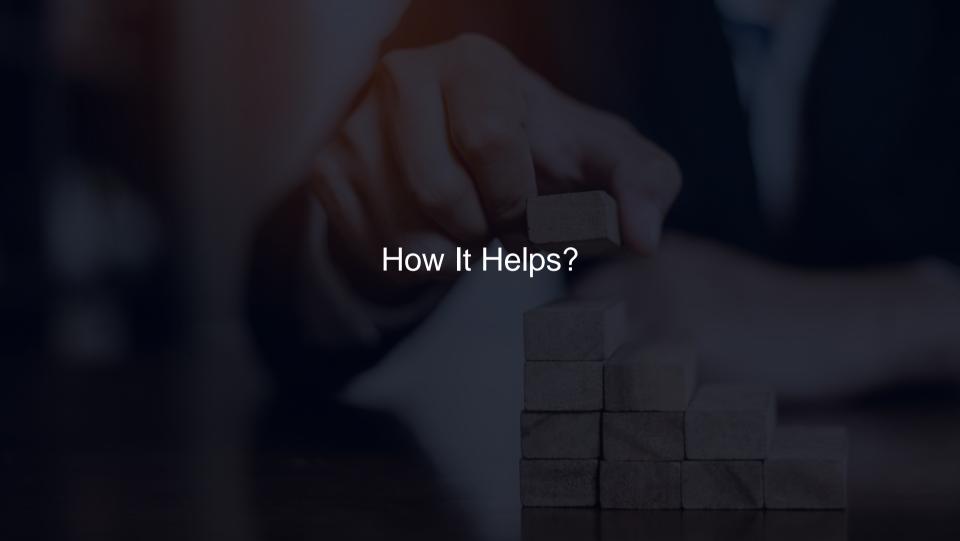
Fully balanced system design

Optimal ROI: High-density hardware and algorithm design for space utilization

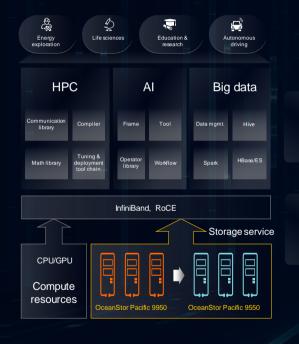


Always-on services: Multiple active DCs for DR, fast node switchover in seconds





Hybrid workloads-oriented HPDA storage that achieves zero data copying improves data analysis efficiency



Hybrid workloads oriented

High-density design

Case: high-performance genomic analysis



Big data storage that converges data lakes and warehouses enables informed decisions in minutes



Storage-compute decoupling

On-demand resource expansion and lower TCO

Data format convergence

Reduce data lakehouse ETL

Intelligent takeover of existing clusters

Smooth architectural evolution

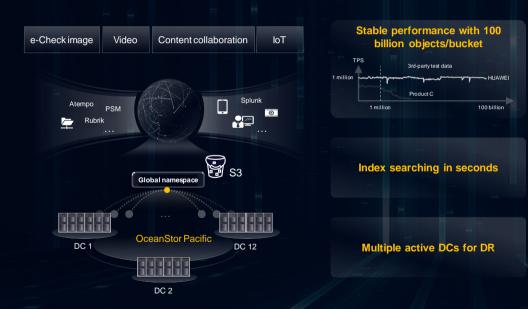
2 mins

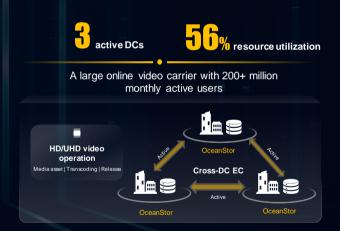
A real-time bank operation dashboard enables efficient and informed decisions

A famous commercial bank with 18 branches



Elastic, HA backup & archiving storage for mass data ensures 24/7 service continuity





Huawei OceanStor Pacific

Hybrid workloads-oriented, one-for-all storage for mass data

Efficiency for Hybrid Workloads | Optimal ROI | Always-On Services



