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Huawei IT Product & Solution



FusionCloud Solution

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Huawei Server

Blade Server

E9000 Series Blades



CH121 V5

- 1 or 2 Intel® Xeon® Scalable Processors
- 24 DDR4 DIMMs
- Two 2.5-inch SAS/SATA HDDs/SSDs or four M.2 SSD
- 2 PCIe mezzanine-card slots and 1 standard PCIe slot (front-accessible)



CH242 V5

- 2 or 4 Intel® Xeon® Scalable Processors
- 48 DDR4 DIMMs
- Four 2.5-inch SAS/SATA HDDs/SSDs or eight M.2 SSD
- 4 PCIe mezzanine-card slots and 1 standard PCIe slot



CH221 V5

- 1 or 2 Intel® Xeon® Scalable Processors
- 24 DDR4 DIMMs
- Two 2.5-inch SAS/SATA HDDs/SSDs or four M.2 SSDs
- 2 PCIe mezzanine-card slots and 2 standard PCIe slot



CH225 V5

- 1 or 2 Intel® Xeon® Scalable Processors
- 24 DDR4 DIMMs
- 12 x 2.5-inch HDDs/NVMe SSDs, and 2 x 2.5-inch SSDs or SAS/SATA HDDs or 6 x M.2
- 4 PCIe mezzanine-card slots

E9000 Blade Server Chassis

FusionServer E9000 is a 12U blade server that integrates computing, storage, switching, and management subsystems to form a powerful integrated infrastructure platform.

- 16 half-width server nodes or 8 full-width server nodes
- 4 switch modules support GE, 10 GE, 25GE, 40 GE, FCoE, FC, OPA, IB EDR switching
- 6 hot-swappable AC or DC PSUs in N+N or N+M redundancy mode
- 2 management modules in 1+1 redundancy mode
- 14 hot-swappable fan modules in N+1 redundancy mode
- Complies with IPMI v2.0 and provides management functions such as remote startup, shutdown, reset, logging, hardware monitoring, SOL, KVM over IP, virtual media, fan module monitoring, and PSM monitoring



High-Density Server

X6800 Data Center Server

FusionServer X6800 is ideally suited for cloud computing and Big Data scenarios as it offers a flexible configuration for a wide range of server nodes, meeting differentiated requirements for computing, storage, and I/O.

- 4U multiple-node server for centralized power supply (supports high-voltage DC) and heat dissipation
- 5 fan modules in N+1 redundancy mode
- 4 hot-swappable AC or DC PSUs in N+N redundancy mode



X6800 Server Nodes



XH628 V5

- 2 Intel® Xeon® Scalable processors of up to 165 W TDP
- 16 DDR4 DIMM slots
- 12 x 3.5-inch or 2.5-inch SSDs or SAS/SATA HDDs
- 2 x PCIe slots
- 2 x 10GE ports + 2GE ports

X6000 Data Center Server

X6000 is a high-density server that Huawei developed for the data center scale-out architecture. With an optimized density design, the X6000 improves data center space utilization and investment efficiency, and is ideal for service scenarios such as cloud computing, web applications, and high-performance computing (HPC).



- 2U chassis, 4 half-width server nodes
- 2 hot-swappable AC PSUs (1,500 W enhanced, 2,000 W, or 3,000 W), with support for 1+1 redundancy
- 4 hot-swappable fan modules in N+1 redundancy mode
- Up to twenty-four 2.5-inch NVMe SSDs

X6000 Server Node



XH321 V5

- 1/2 Intel® Xeon® Scalable Processors
- 16 DDR4 DIMMs
- 6 x 2.5-inch SAS/SATA/SSD/NVMe disks
- 2 PCIe expansion slots
- 2 x GE + 2 x 10GE

Rack Server

1288H V5



Huawei FusionServer 1288H V5 is a 1U 2-socket rack server. It is ideal for cloud computing, virtualization, high-performance computing (HPC), big data processing and other computing-intensive workloads.

- 2 Intel® Xeon® Scalable Processors
- 24 DDR4 DIMMs slots
- 4 x 3.5-inch hard drives or 8/10 x 2.5-inch hard drives, and 4/8 NVMe SSDs
- 5 PCIe extension slots, with support for 2 HHHL single-slot GPUs or FPGA heterogeneous accelerator cards
- Two GE and two 10GE LAN on motherboard (LOM) ports

2288H V5



Huawei FusionServer 2288H V5 is a 2U 2-socket rack server. It supports configuration of over 100 types of resources by just one model, flexibly meeting the hardware resource requirements of diverse workloads. It is an ideal choice for application scenarios such as cloud computing virtualization, databases, high-performance computing (HPC), and big data processing.

- 2 Intel® Xeon® Scalable Processors
- 24 DDR4 DIMM slots
- Supports 12/16/20 x 3.5-inch hard drives or 8/24/25/31 x 2.5-inch hard drives, and 4 to 28 NVMe SSDs
- 10 PCIe extension slots, with support for 2 half-height half-length double-slot GPUs or FPGA heterogeneous accelerator cards
- Two GE and two 10GE LAN on motherboard (LOM) ports

5288 V5



Huawei FusionServer 5288 V5 is a 4U, 2-socket rack server, applicable to services such as tiered storage of hot, warm, and cold data, and historical data archiving. With high efficiency design, the server ensures excellent computing performance and provides flexible and ultra-large local storage scalability to reduce data storage costs.

- 2 Intel® Xeon® Scalable processors
- 24 DDR4 DIMM slots
- 44 x 3.5-inch and 4 x 2.5-inch hard drives (up to 8 NVMe SSDs)
- Up to 8 PCIe slots
- Two GE and two 10GE LAN on motherboard (LOM) ports

2488 V5



FusionServer 2488 V5 is the latest 2U 4-socket rack server released by Huawei. It is ideal for compute-intensive scenarios such as virtualization, high-performance computing (HPC) and databases.

- 2 or 4 Intel® Xeon® Scalable Processors (Platinum 8100, Gold 6100, or Gold 5100 series processors)
- 32 DDR4 DIMM slots
- 9 PCIe slots
- 2 x GE + 2 x 10GE
- Up to 25 2.5-inch SAS/SATA HDDs. The NVMe model can be configured with 8 NVMe SSDs, and supports hardware RAID.
- Compared with two 2U 2-socket servers, 2488 V5 can save up to 32% OPEX, and provide higher computing efficiency.

2488H V5



FusionServer 2488H V5 is Huawei's latest 2U, 4-socket (4S) rack server. It is ideal for compute-intensive scenarios such as virtualization, high-performance computing (HPC), databases, and SAP HANA.

- 2 or 4 Intel® Xeon® Scalable Processors
- 48 DDR4 DIMM slots
- 11 PCIe slots
- 2 x GE + 2 x 10GE
- Up to 25 2.5-inch SAS/SATA HDDs. The NVMe model can be configured with 8 NVMe SSDs
- Compared with two 2U 2-socket servers, one 2488H V5 can save up to 32% OPEX, and provide higher computing efficiency.

5885H V5



Huawei FusionServer 5885H V5 is a 4U, 4-socket rack server. It applies to mission-critical applications that demand high reliability and performance, and is ideal for compute-intensive services such as virtualization, High-Performance Computing (HPC), and databases.

- 2 or 4 Intel® Xeon® Scalable processors
- 48 DDR4 DIMM slots
- Supports up to 25 x 2.5-inch local hard drives (configurable with 8 NVMe SSDs)
- 15 PCIe slots
- Two GE and two 10GE LAN on motherboard (LOM) ports

Heterogeneous Server

G5500



The Huawei FusionServer G5500 is a heterogeneous server positioned for data center deployment. It delivers high-density heterogeneous compute power. It is a best-in-class heterogeneous computing platform for application scenarios such as AI, HPC, intelligent cloud, video analytics, and database acceleration.

- Supports 2 Intel® Xeon® E5-2600 v4 processors or 4 Intel® Xeon® Scalable processors
- Supports One G560 full-width heterogeneous computing node or two G530 V5 half-width heterogeneous computing nodes
- Up to 8 NVIDIA® Tesla® V100/P100/P40 or 32 NVIDIA® Tesla® P4
- Supports GPUDirect RDMA and Peer-to-Peer interconnect technologies, enabling direct memory access for multiple GPU cards
- Supports one-click topology switching and multiple topologies with CPU/GPU configuration ratios of 1:2, 1:4, and 1:8

G560 Full-width Heterogeneous Computing Node



Huawei FusionServer G560 is a full-width heterogeneous computing node that delivers high-density heterogeneous compute power. It is the best-in-class heterogeneous computing platform for AI training, High-Performance Computing (HPC), intelligent cloud, and database acceleration.

- Up to 8 Nvidia® Tesla® V100/P100/P40/P4
- 2 Intel® Xeon® E5-2600 v4 processors
- Up to 24 DDR4 DIMMs
- Support for GPUDirect RDMA and Peer-to-Peer interconnect technologies, enabling direct memory access for multiple GPU cards
- Support for one-click topology switching and different CPU/GPU configuration ratios for diverse applications

G530 V5 Half-width Heterogeneous Computing Node



Huawei FusionServer G530 V5 is a half-width heterogeneous computing node that delivers high-density heterogeneous compute power. It is the best-in-class heterogeneous computing platform for AI inference, HPC, intelligent cloud, and database acceleration.

- Up to 16 NVIDIA® Tesla® P4 or 4 V100/P100/P40 or 8 V100(150 Watt)
- 2 Intel® Xeon® Scalable processors
- Up to 24 DDR4 DIMMs
- Support for GPUDirect RDMA and Peer-to-Peer interconnect technologies enables direct memory access for multiple GPU cards
- Flexible configuration supports different CPU/GPU configuration ratios for diverse applications

G2500



The Huawei FusionServer G2500 smart video analytics server provides superior capabilities for video, picture, and voice analysis, as well as ultra-large local storage. The Huawei FusionServer G2500 is designed for scenarios with hybrid applications of smart analytics and data storage. It is an ideal analytics platform for applications such as safe city and smart transportation.

- 2 Intel® Xeon® E5-2600 v4 processors
- 12 DDR4 DIMMs
- Up to 16 Nvidia® Tesla® P4s
- Support 24 x 3.5-inch SAS/SATA hard drives
- 1 x GE + 1 x 10GE

KunLun 9008/9016/9032 & 9008 V5



As the optimal server for next-generation data centers, Huawei KunLun 8/16/32-sockets x86 server, that integrates open ecosystem and innovative industry-leading technologies, is a reliable choice for your mission critical environment.

Open ecosystem, best RISC to IA platform

- Supports mainstream x86 OSs, DBs, virtualization, etc.
- 50% lower TCO than Power 780

Reliable, unique RAS 2.0

- Maintenance without opening the chassis cover
- Hot-swappable CPUs and DIMMs

- Proactive Failure Analysis Engine reducing 85% of downtime

Industry-leading performance and scalability

- 768 cores, 768 DDR4 DIMM slots
- Support for physical and logical partitions
- No.1 in SAP HANA OLTP&OLAP Benchmarks (by April 2018)

ES3000 SSD

Huawei ES3000 V5 SSDs are the seventh generation of enterprise-level high-performance SSD with Huawei self-developed SSD controller chip, provide PCIe and SAS interface SSD products. ES3000 SSDs solve HDD IO bottlenecks, significantly improving the performance of database, virtualization, cloud, big data and distributed storage, help customers reduce system TCO.



SAS SSD Disk

- Formfactor: 2.5-inch disk
- Interface: SAS 3.0 12 Gb/s
- ES3500S V5: read-intensive, 960 GB to 15.36 TB
- ES3600S V5: mixed-use, 800 GB to 6.4 TB
- Performance: up to 2.2 GB/s bandwidth, 430k IOPS



NVMe SSD Disk

- Formfactor: U.2 (2.5-inch) disk
- Interface: PCIe 3.0 x4, NVMe 1.3 standard
- ES3500P V5: read-intensive, 1 TB to 8 TB
- ES3600P V5: mixed-use, 800 GB to 6.4 TB
- Performance: up to 3.5 GB/s bandwidth, 825k IOPS



NVMe SSD Card

- Formfactor: HH-HL card
- Interface: PCIe 3.0 x4, NVMe 1.2 standard
- ES3600C V3: mixed-use, 800 GB to 3.2 TB
- ES3620C V3: mixed-use, 6.4 TB
- Performance: up to 3.2 GB/s bandwidth, 800k IOPS

Remark:

1. Read-intensive: ≤ 1 DWPD for 5-year; Mixed-use: ≈ 3 DWPDs for 5-year; Write-intensive: ≥ 10 DWPDs for 5-year
2. DWPD: Disk Writes Per Day

FusionCube Hyper-Converged Infrastructure

Huawei FusionCube is a hyper-converged infrastructure, which consists of computing, storage, network, virtualization and management system.

- High performance, low latency, fast deployment, and built-in distributed storage
- Database support: Oracle, DB2, Sybase IQ, SQL Server and SAP HANA
- Virtualization support: VMware



FusionCube 9000

- Database or virtualization scenarios
- 56 or 100 Gbit/s InfiniBand
- 7.2 million IOPS (maximum/cabinet)
- 192 GB/s throughput (maximum/cabinet)
- 1T rebuild time < 15 minutes

FusionCube 6000

- For cloud or virtualization scenarios
- Easy-to-use: Fast deployment, automatic hardware discovery, installation wizard, and unified management of hardware and software
- Flexible configuration for different virtualization scenarios
- 4 U with 3 nodes at minimum, smooth online expansion up to 256 nodes

FusionCube 6000C

- For virtualization and desktop cloud scenarios
- 2U 4 nodes, Integrated delivery, simple to simplify
- 11 minutes to complete deployment, Hardware discovery, wizard-mounted
- Supports SAS disk and NVMe SSD disk to meet different performance requirements

FusionCube 2000

- For virtualization, desktop cloud, bulk database scenarios
- 2U Rack server with strong versatility Flexible configuration, easy to expand
- Support SAS/SATA HDDs and SAS/SATA/NVMe SSDs
- Flexible and versatile PCIe standard slots, support 10GE, IB, SSD, GPU

Huawei Solutions for SAP HANA®



Huawei joins hands with SAP to develop the Huawei solutions for SAP HANA based on Huawei high-performance hardware platform. This innovative solution implements real-time data processing and analysis, with results presented to frontline engineers and business decision makers at the earliest time, helping customers learn about the business operation status at any time.

Huawei Solutions for SAP HANA Scale-up Configuration

Scale-up solution	2288H V5/2488H V5(Skylake 8180/8180m/8176/8176m)						2488H V5
HANA memory	192GB	384GB	576GB	768GB	1536GB	3072GB	6144GB
Number of processors	2	2	2	2	2	2/4	4
Basic version(SAS HDD)HANA log/data volume	4 x 1800 GB /9 x 1800 GB	4 x 1800 GB /9 x 1800 GB	4 x 1800 GB /9 x 1800 GB	4 x 1800 GB /9 x 1800 GB	6 x 1800 GB /9 x 1800 GB	9 x 1800 GB	18 x 1800 GB
Advanced version (all-flash)HANA log/data volume	5 x 800 GB /4 x 3200 GB	5 x 800 GB /4 x 3200 GB	7 x 800 GB /4 x 3200 GB	7 x 800 GB /4 x 3200 GB	10 x 800 GB /4 x 3200 GB	20 x 800 GB /6 x 3200 GB	10 x 3200 GB
Operating system	SLES 12.2, RHEL 7.3						

Scale-up solution	KunLun 9008 V5(Skylake 8180/8180m/8176/8176m)				KunLun 9016(Broadwell E7-8880/8890/8894 V4)			
HANA memory	768GB	1536GB	3072GB	6144GB	12288GB	9TB	12TB	16TB
Number of processors	4	4	4	4	8	12	12/16	16
Basic version(SAS HDD)HANA log/data volume	9 x 1800 GB	9 x 1800 GB	9 x 1800 GB	18 x 1800 GB	N/A	N/A	N/A	N/A
Advanced version (all-flash)HANA log/data volume	6 x 3200 GB	6 x 3200 GB	6 x 3200 GB	10 x 3200 GB	20 x 3200 GB	19 x 3200 GB	19 x 3200 GB	24 x 3200 GB
Operating system	SLES 12.2, RHEL 7.3							

Huawei Solutions for SAP HANA Scale-out Configuration

Computing					
Scale-out solution	2488H V5 / E9000(CH242) V5		KunLun 9008 V5		
Single-node memory	1.5TB	3TB	3TB	6TB	12TB
Number of processors	4	4	4	8	8
Number of expansion nodes (including one backup node)	15+1	15+1	15+1	15+1	4+1
Available memory	24TB	48TB	48TB	96TB	60TB

Storage	
Storage system	OceanStor converged storage
HANA log volume	High-performance SSDs
HANA data volume	High-performance SAS
Service switch	High-performance 10GE switches
Storage switch	High-performance FC switches
Operating system	SLES 12.2

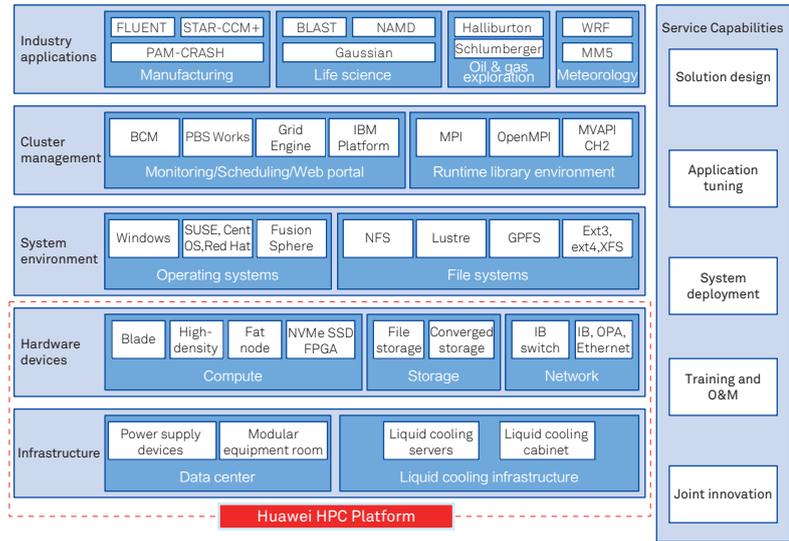
Switch			
Service switch	High-performance 10GE switch	High-performance 10GE switch	High-performance 10GE switch
Storage switch	High-performance FC switch	High-performance FC switch	High-performance Infiniband switch

Huawei HPC Solution

Huawei's High-Performance Computing (HPC) Solution is a highly reliable, high-performance computing platform developed based on Huawei's server, storage, and network products. It provides customers from various industries with energy-efficient board-level and cabinet-level liquid cooling solutions and prefabricated HPC infrastructure for HPC clusters that meet diversified computing scales.

HPC Industrial Solutions

- HPC solutions for the CAE, scientific computing, oil & gas, and meteorology industries: integrate mainstream HPC clusters and scheduling management software, and are deeply optimized for mainstream HPC applications in the industries.
- HPC global innovation centers: support technical verification, solution incubation, and industry practice to build a cooperative, win-win ecosystem.



HPC Platform

- Diversified hardware platforms, such as rack servers, blade servers, and multi-node servers, providing industry-leading performance and simplified management
- Various types of heterogeneous acceleration cards, such as GPUs, FPGAs, intelligent NICs, and NVMe SSDs, based on underlying chip and hardware computing innovation



G5500
Heterogeneous acceleration



E9000
Converged architecture computing



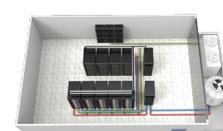
X6000
High-density computing

Integrated HPC Infrastructure

- Integrating computing, network, storage IT devices, and modular data centers, the prefabricated HPC infrastructure solution shortens the construction periods of the L1 and L2 layers of data centers.
- The efficient and reliable cold plate design enables board-level and cabinet-level liquid cooling. The overall HPC liquid cooling solution achieves a data center PUE of 1.1 or less.



L1+L2: integrated HPC infrastructure



HPC liquid cooling solution



Huawei Storage

Storage Solutions

Storage as a Service Solution

Huawei Storage-as-a-Service (STaaS) Solution enables automated storage service provisioning and intelligent data management, and helps accelerate the cloud transformation of your data center by moving mission-critical businesses to the cloud.

Service On Demand

- Storage resources allocated according to business workload, self-service, simple, and easy-to-use.

Smart Management

- Smart O&M and decision-making support, implementing lifecycle management of storage and data resources.

Open Ecosystem

- Open architecture and ecosystem, leading the industry storage trend.



HUAWEI CLOUD™ Video Cloud Solution

HUAWEI CLOUD™ Video Cloud Solution features One Cloud, One Pool, and One Platform, so it combines all resources into pools on one cloud platform, to deliver an open, efficient, and intelligent service-driven platform for video Big Data.



Share

- One cloud one pool: sharing of resources and videos, and support for information sharing and joint operations of different areas, departments, and police forces.

Intelligent

- Network-wide intelligence and video Big Data, generating leads in seconds to improve efficiency of practices.

Open

- An open platform with decoupled data and apps supporting rapid rollout of video services.

Media Cloud Solution

Huawei Media Cloud offers an omnimedia service-defined cloud platform that features IT resource pooling, service automation, and intelligent management.



Cloud-based resource sharing

- The all-IP converged resource pool supports the entire Omnimedia workflow, including ingesting, editing, broadcasting, management, and archiving. Data access efficiency is improved by as much as 90%.

Efficient 4K production

- Industry's only IP-based media solution that supports 6-layer 4K editing. The proprietary InfoTurbo technology saves 4K program production time by 60%.

Versatility in cloud resource collaboration

- Hybrid-cloud service orchestration, visualized application modeling, distribution, and migration.

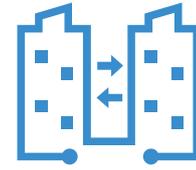
SAP HANA TDI Solution

This solution utilizes Huawei's all-flash storage and high-performance servers to help customers transform traditional databases into SAP HANA memory database platforms, improving the efficiency of SAP services and enabling fast service innovation.



- Adopts a complete TDI architecture which is manageable to general data centers and supports virtualization evolution, not requiring changes to the application architecture, disaster tolerance architecture, and management architecture.
- Provides industry-leading SAP service bearing and integration capabilities based on the outstanding performance of Huawei's all-flash storage.
- Leverages both the SAP snapshot backup solution and a unified disaster recovery solution for applications and databases, ensuring stable running of mission-critical enterprise services.
- Implements the snapshot function without compromising performance, which can be combined with the SAP LAMA management platform to support fast development & test and sandbox environment setup, promoting service innovation for customers.

Active-Active Storage Solution



Based on the gateway-free HyperMetro feature, this converged active-active for SAN and NAS solution ensures the high availability of both database and file services, ensuring zero service interruption and zero data loss.

Reliability

- Active-active SAN and NAS unified storage solution with no need for a virtualized gateway powered on the exclusive Huawei HyperMetro feature ensures zero data loss and service interruption.

High performance

- Optimized storage protocols improve service performance by 30%.

Easy O&M

- Visualized resource management and monitoring and disaster recovery testing simplify management while doubling efficiency.

BC&DR Solution



This solution supports the backup and disaster recovery of data from traditional data centers to clouds, ensuring service continuity on- and off-premises.

- Service-level active-active: E2E active-active architecture, zero interruption of applications, zero loss of data
- High-performance active-active: HyperMetro improving performance by 30%; active-active all-flash storage with only 1 ms latency
- Expansion to clouds: Elastic scalability of on-premise and off-premise disaster recovery capabilities, implementing on-demand construction of remote disaster recovery centers.

Storage Products

All-Flash Array OceanStor Dorado V3

Huawei OceanStor Dorado V3 all-flash storage system is specially built for enterprises' mission critical business. Applying the innovative Huawei FlashLink™ technology, the OceanStor Dorado V3 delivers 3x business performance increase, satisfying the most demanding data service requirements with the industry's highest performance and 99.9999% availability.



Outstanding performance

- Employs the flash-oriented Huawei FlashLink™ technology to achieve 0.5 ms latency and 10x storage performance increase. The system can scale out to 16 controllers to deliver 7 million IOPS in performance.

Stable and reliable

- Provides the HyperMetro gateway-free active-active solution to ensure 99.9999% availability, and the RAID-TP technology to tolerate up to three simultaneous SSD failures.

Converged and efficient

- Inline deduplication and compression supports a 3:1 data reduction ratio, resulting in higher ROI with 75% OPEX savings.

Key Specifications

- Up to 16 controllers, 7 million IOPS (with inline compression enabled)
- Up to 16 TB cache
- Up to 3200 enterprise class SSDs, 32 PB effective capacity 3:1 data reduction guarantee

OceanStor 18000F V5 Series

Huawei OceanStor 18000F series of mission-critical all-flash storage systems are dedicated to providing the highest level of data services for enterprises' mission-critical businesses. Innovative SmartMatrix 2.0 architecture, industry-leading scalability, flash-enabled performance, and hybrid-cloud-ready solution provide the optimal data services for enterprises. The OceanStor 18000F V5 series satisfies the storage requirements of large-database OLTP/ OLAP and cloud computing, making it a perfect choice for the government, finance, telecommunications, and manufacturing sectors.



Outstanding Performance

- The all-flash system design ensures rapid response to core services. With outstanding scalability, OceanStor 18000F V5 series can be equipped with a maximum of 16 controllers, 16 TB of cache, and 3,200 enterprise-class SSDs, delivering 6 million IOPS with 1 ms latency.

Solid Reliability

- The cutting-edge intelligent SmartMatrix 2.0 architecture, in combination with the gateway-free converged active-active solution, ensures 99.9999% availability, guaranteeing business continuity for customers.

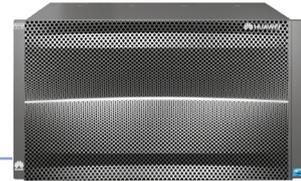
Intelligent services

- The OceanStor 18000F V5 series employs eService to support intelligent device management throughout the entire lifecycle (plan, design, and O&M), and accelerates cloud transformation for enterprises using hybrid cloud solutions.

Key Specifications:

- Up to 16 controllers
- Up to 16 TB cache
- Up to 3200 enterprise-class SSDs

OceanStor 6800F V5



Huawei OceanStor 6800F V5 Storage System is the new generation of mission-critical all-flash storage, dedicated to providing the highest level of data services for enterprises' mission-critical business. Flexible scalability, flash-enabled performance, and hybrid-cloud-ready architecture, provide the optimal data services for enterprises along with simple and agile management. The OceanStor 6800F V5 satisfies the data storage requirements of large-database OLTP/OLAP, cloud computing, and many other applications, making it a perfect choice for the government, finance, telecommunications, and manufacturing sectors.

Superb Performance

- The all-flash system design ensures rapid response to core businesses. With outstanding scalability, OceanStor 6800F V5 can be equipped with a maximum of 8 controllers, 8 TB of cache, and 1,500 enterprise-class SSDs, delivering million-level IOPS with 1 ms latency.

Solid Reliability

- The cutting-edge intelligent SmartMatrix 2.0 architecture in combination with the gateway-free converged active-active solution ensures 99.9999% availability, guaranteeing business continuity for customers.

Intelligent Services

- OceanStor 6800F V5 employs eService to support intelligent device management throughout the entire lifecycle (plan, design, and O&M), and accelerates cloud transformation of enterprises with hybrid cloud solutions.

Key Specifications

- Up to 8 controllers
- Up to 8 TB cache
- Up to 1500 enterprise-class SSDs

OceanStor 5000F V5 Series

Huawei OceanStor 5000F V5 series of mid-range all-flash storage systems features the high performance, low latency, and high scalability that are required in this age of cloud computing. A cloud-ready operating system, flash-enabled performance, and intelligent management software deliver top-of-the-line functionality, performance, efficiency, reliability, and ease of use. The OceanStor 5000F series satisfies the storage requirements of large-database OLTP/OLAP, file sharing, and cloud computing, making it a perfect choice for the government, finance, telecommunications, health-care, and manufacturing sectors.



Key Specifications

- Up to 8 controllers
- Up to 4 TB cache
- Up to 1200 enterprise-class SSDs

Outstanding Performance

- The all-flash system design ensures rapid response to core services. With outstanding scalability, the OceanStor 5000F V5 series can be equipped with a maximum of 8 controllers, 4 TB of cache, and 1,200 enterprise-class SSDs, delivering million-level IOPS with 1 ms latency.

Multi-level Convergence

- Convergence of SAN and NAS, heterogeneous storage systems, and primary and backup storage double system efficiency. A gateway-free, converged active-active solution delivers 99.9999% availability, guaranteeing 24/7 stable operation of services.

Intelligent Services

- The OceanStor 5000F V5 series employs eService to support intelligent device management throughout the entire lifecycle (plan, design, and O&M), and accelerates the cloud transformation of enterprises with hybrid cloud solutions.

Hybrid Flash Storage OceanStor 18000 V5 series

Huawei OceanStor 18000 V5 series of mission-critical hybrid flash storage is dedicated to providing the highest level of data services for enterprises' mission-critical businesses. Industry-leading SmartMatrix 2.0 system architecture, the HyperMetro gateway-free active-active feature, flash-oriented optimization technology, a cutting-edge hardware platform, and a full range of efficiency improvements and data protection software deliver top-of-the-line reliability, performance, and solutions. The OceanStor 18000 V5 series satisfies the storage requirements of large-database OLTP/OLAP and cloud computing, making it a perfect choice for the government, finance, telecommunications, and manufacturing sectors.



Solid reliability

- The cutting-edge intelligent SmartMatrix 2.0 architecture, in combination with the gateway-free converged active-active solution, ensures 99.9999% availability, guaranteeing business continuity for customers.

Excellent performance

- The flash-oriented system design ensures rapid response to core services. With outstanding scalability, OceanStor 18000 V5 series can be equipped with a maximum of 16 controllers, 16 TB of cache, and 9,600 enterprise-class disk drives, delivering up to 6 million IOPS.

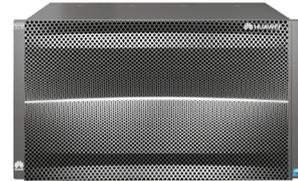
Intelligent services

- The OceanStor 18000 V5 series employs eService to support intelligent device management throughout the entire lifecycle (plan, design, and O&M), and accelerate cloud transformation for enterprises using hybrid cloud solutions.

Key Specifications

- Up to 16 controllers
- Up to 16 TB cache
- Up to 9600 enterprise-class disk drives

OceanStor 6800 V5



Huawei OceanStor 6800 V5 mission-critical hybrid flash storage systems provide data services for enterprises' core businesses. A cloud-ready operating system, flash-enabled performance, and intelligent management software, deliver top-of-the-line functionality, performance, efficiency, reliability, and ease of use, and provide a wide range of flexible backup and Disaster Recovery (DR) solutions to ensure business continuity and data security. The OceanStor 6800 V5 satisfies the data storage requirements of large-database OLTP/OLAP and cloud computing, making it a perfect choice for the government, finance, telecommunications, healthcare, and manufacturing sectors.

Key Specifications

- Up to 8 controllers
- Up to 8 TB cache
- Up to 3200 enterprise-class disk drives

Solid reliability

- The cutting-edge intelligent SmartMatrix 2.0 architecture in combination with the gateway-free converged active-active solution ensures 99.9999% availability, guaranteeing business continuity for customers.

Excellent performance

- The flash-oriented system design ensures rapid response to core services. With outstanding scalability, the OceanStor 6800 V5 can be equipped with a maximum of 8 controllers, 8 TB of cache, and 3,200 enterprise-class disk drives, supporting million-level IOPS.

Intelligent services

- OceanStor 6800 V5 employs eService for intelligent device management throughout the entire lifecycle (plan, design, and O&M), and accelerates cloud transformation of enterprises with hybrid cloud solutions.

OceanStor 5000 V5 series

Huawei OceanStor 5000 V5 series of mid-range hybrid flash storage systems are dedicated to providing reliable and efficient data services for enterprises. A cloud-ready operating system, flash-enabled performance, and intelligent management software deliver top-of-the-line functionality, performance, efficiency, reliability, and ease of use. The OceanStor 5000 V5 series satisfies the data storage requirements of large-database OLTP/OLAP and cloud computing, making it a perfect choice for the government, finance, telecommunications, healthcare and manufacturing sectors.

Multi-level convergence

- Convergence of SAN and NAS, heterogeneous storage systems, and primary and backup storage double system efficiency. A gateway-free converged active-active solution delivers 99.9999% availability, guaranteeing 24/7 stable operation of services.

Excellent performance

- The flash-oriented system design ensures rapid response to core services. With outstanding scalability, the OceanStor 5000 V5 series can be equipped with a maximum of 8 controllers, 4 TB of cache, and 1,500 disk drives, supporting million-level IOPS.

Intelligent services

- The OceanStor 5000 V5 series employs eService to support intelligent device management throughout the entire lifecycle (plan, design, and O&M), and accelerates the cloud transformation of enterprises with hybrid cloud solutions.



Key Specifications

- Up to 8 controllers
- Up to 4 TB cache
- Up to 1500 enterprise-class disk drives

OceanStor 2600 V3

Huawei OceanStor 2600 V3 is flash-oriented and specifically designed for enterprise-class applications. It offers a cloud architecture-oriented operating system, high-performance hardware platform, and a complete suite of smart management software. It is scalable to eight controllers, has a 256 GB cache and 5 PB storage capacity, with a variety of interfaces, including 10 Gbit/s FCoE, 16 Gbit/s FC, PCIe 3.0, and 12 Gbit/s SAS. The OceanStor 2600 is the perfect storage systems for large OLTP/OLAP databases, file sharing, and cloud computing in the government, finance, telecom, energy, and media industries.



- Enables convergence in five areas: SAN and NAS, heterogeneous devices, entry-level to high-end storage, HDD and SSD, storage and backup.
- Provides industry-leading specifications: Up to 8 controllers, 256 GB cache, 5 PB storage capacity, and various interface types, including 10 Gbit/s FCoE, 16 Gbit/s FC, PCIe 3.0, and 12 Gbit/s SAS.
- The simplest management platform handles multiple product models with a graphical interface and is available in Windows, iOS, and Android versions.
- Protects customers' initial investment and reduces TCO for multiple applications, various product models, and fast business growth.

Key Specifications

- Up to 8 controllers
- Up to 256 GB cache
- Up to 500 disk drives (dual-controller)

OceanStor 2200 V3



Huawei OceanStor 2200 V3 is a next-generation, entry-level storage product specifically designed for enterprise-class applications. It is scalable up to 2.4 PB capacity, with a variety of interfaces, including 10 Gbit/s FCoE, 16 Gbit/s FC, PCIe 3.0, and 12 Gbit/s SAS. Built to support rapid business growth of SMB, the OceanStor 2200 V3 is widely applied in industries including government, health care, education, telecommunications, energy, and manufacturing.

Simple

- The unique, easy-to-use SmartConfig significantly simplifies system configuration. Resources can be allocated in minutes with only three steps.

Converged

- Convergence of SAN and NAS supports both block and file services. The flash-oriented design ensures full performance of SSDs with latency lower than 1 ms.

Efficient

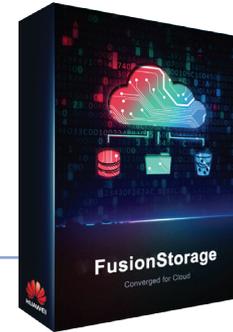
- Automatic storage tiering and smart identification of hot data significantly improve storage resource utilization. The intelligent service quality control technology enables the system to identify important services and ensure their performance

Key Specifications

- Up to 2 controllers
- Up to 32 GB cache
- Up to 300 enterprise-class disk drives

Cloud Storage

FusionStorage



Huawei FusionStorage fully distributed cloud storage features massive scale-out capability designed for cloud-based architectures. The on-board storage system software combines the local storage resources of standard x86 servers into fully distributed storage pools, providing block, object, or file storage resources to the upper layer. An enterprise can easily obtain the required flexibility and efficiency in data storage to keep up with the ever-changing dynamics of business.

High availability

- Large-scale active-active clusters under a fully distributed architecture provide 99.9999% solution-level availability to move core enterprise businesses to the cloud. Multi-level reliability technologies enable services to be deployed on demand.

Excellent performance

- FusionStorage supports NVMe SSDs and provides the SPC-1 V3 proven performance of 4.5 million IOPS at < 1 ms of latency. Its single system meets the performance requirements of millions of VMs. EC data protection technology provides up to 90% disk space utilization, reducing purchase costs and achieving high availability, efficiency, and performance.

On-demand scalability

- FusionStorage enables scale-out for 10 million-level IOPS and EB-level capacity, supporting rapid growth of cloud business. It also deploys block, object, or file storage resources on demand.

Open architecture

- Compatible with diverse computing virtualization platforms, the open cloud architecture is OpenStack-compliant. Compatible with Amazon S3 and providing HDFS interfaces, FusionStorage can be integrated into the Hadoop Big Data ecosystem.

Key Specifications

- Erasure coding mechanism improves storage utilization to 80%
- Large-scale active-active clusters under a fully distributed architecture
- Scales out to 10 million-level IOPS and EB-level capacity

OceanStor 9000

Huawei OceanStor 9000 is a scale-out NAS storage system specifically designed for massive data storage. It employs a fully symmetric distributed architecture, supports either file or object storage, and delivers superior performance, extensive scale-out capabilities, and super-large single file system for unstructured data storage. The OceanStor 9000 is widely applied in media, satellite mapping, gene sequencing, energy exploration, scientific research, education, backup and archiving.



Outstanding performance

- Delivers high-performance read and write functionality. Using proprietary InfoTurbo dynamic storage tiering technology, the throughput of a single client reaches 2.5 GB/s while the entire system reaches 400 GB/s.

Flexible Scalability

- Accommodates from 3 to 288 nodes, eliminates data silos caused by multiple namespaces.

Simplified Management

- Unified namespace allows unified management of all hardware and software resources in the system, minimizing system management and maintenance complexity.

Key Specifications

- 3 to 288 nodes
- Up to 100 PB in capacity
- Up to 400 GB/s in throughput

Storage Networking

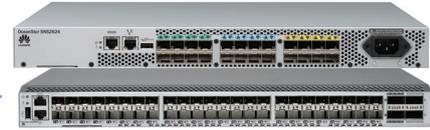
SNS5604, SNS5608



Proven and dedicated network infrastructure products oriented to data centers' mission-critical business.

- 192/384 x 32 Gbit/s ports
- Full-fabric architecture of 239 switches

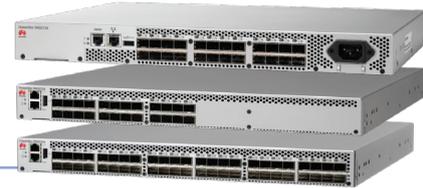
SNS2624, SNS3664



Purpose-built network infrastructure for mission-critical storage.

- Up to 24/64 ports
- -Auto-sensing of 4 Gbit/s, 8 Gbit/s, 16 Gbit/s, and 32 Gbit/s port speeds
- Latency for locally switched ports is $\leq 900\text{ ns}$ (including FEC)

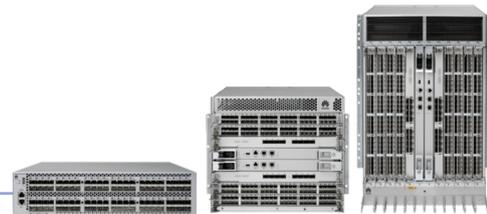
SNS2124, SNS2224, SNS2248



Fibre Channel switches designed for small-scale, independent SANs and the edge topologies of large-scale, core switching networks and are cost-effective choices for network expansion.

- 24 ports at a rate of 8 Gbit/s per port; or 24 to 48 ports at a rate of 16 Gbit/s per port
- Full fabric architecture with a maximum of 239 switches
- 700 ns local switching port latency

SNS3096, SNS5192, SNS5384



Proven and dedicated network infrastructure for data centers.

- 96, 256, or 512 ports at a rate of up to 16 Gbit/s per port
- Auto-sensing of port rates of 2, 4, 8, and 16 Gbit/s
- Full fabric architecture with a maximum of 239 switches

Data Management Software

OceanStor DJ



Huawei OceanStor DJ is service-driven storage control software, which supports unified management of storage resources, flexible orchestration of service catalogs, and automatic deployment of storage services and data applications to improve operational efficiency at data centers.

Storage resource virtualization

- Grounded in OpenStack precepts, OceanStor DJ can take over management of heterogeneous storage devices and consolidate resources into pools.

Automatic Service Deployment

- Allocates resources according to workload-based best practice templates; self-help service applications and complete service catalogs.

Data-Application-as-a-Service

- You can select Huawei or third-party backup applications to provide data protection services.

eSight Storage Software



A component of Huawei eSight management software, that integrates the management of server, storage, and related resources. The eSight Storage Manager component provides centralized O&M of storage devices in enterprise data centers to:

- Simplify device management by centrally managing over 30 storage devices from different vendors
- Facilitate fault location with end-to-end storage path analysis
- Manage Fibre Channel switches (Brocade and QLogic)
- Deliver capacity analysis reports to facilitate space planning and reduce storage costs
- Provide storage health assessment and system diagnosis improve system stability



Huawei Cloud Computing and Big Data

FusionCloud Solution

All Cloud, Reshaping IT Infrastructure

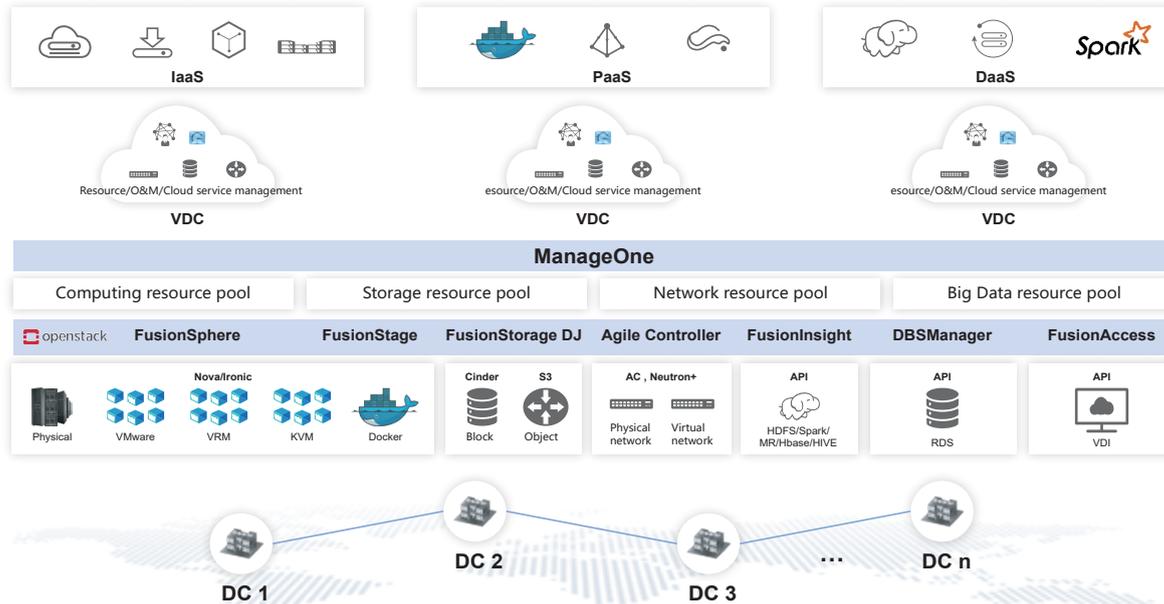
Traditional data centers are notorious for sluggish deployments, cumbersome management, and having silo IT resources.

These types of centers are no longer able to satisfy the service requirements on modern enterprises. Huawei FusionCloud enables resource pooling. The advanced cloud computing technologies feature high degrees of automation and a full stack of service capabilities, allowing organizations to power through business challenges and achieve a complete cloud adoption as industries vie for digital transformation.

As an important component of FusionCloud, Huawei FusionSphere is also based on OpenStack to provide an open, enterprise-class, and progressive cloud platform. FusionSphere provides Infrastructure-as-a-Service, inclusive of the computation, storage, and network arms. The platform is able to manage multiple resource pools and features lightweight operation. Infrastructure is visualized and personnel can quickly assess performance and other indicators across the entire profile. O&M is made easy with the high degree of automation in operation. FusionSphere ensures a smooth evolution from virtualized IT infrastructures into all-cloud profiles.

Huawei ManageOne is a cloud data center management solution with unified management capabilities over heterogeneous cloud resource pools. ManageOne provides multiple choices in VDC builds to suit the customer's organization model. The centers are enabled with a long list of functions, including centralized alarm analysis and intelligent O&M to solve the low efficiency problems in managing scattered resources and the general inability to provide resources as a service in traditional data centers.

Organizations can avail themselves of the conveniences and higher levels of productivity that come from the O&M management solution featuring uniform operations for all resource types.



Solution Highlights

Unified Architecture

- Huawei FusionCloud shares the same architecture as the Huawei Public Cloud so the service experience and API operations remain uniform regardless of the mix of public and private cloud resources. Applications deployments can be optimized clouds whenever needed to ensure seamless evolution of each service.

Rich Service Catalog

- Customers can easily choose from the over 30 services in the catalog available on the FusionCloud platform and quickly deploy those services to their cloud-based environments. Huawei will be releasing even more value-added services in its public cloud offering in the future.

Open Architecture, Prosperous Ecosystem

- FusionCloud provides standardized OpenStack APIs. Huawei works with 300+ ISVs to develop the industry-specific solutions customers need while championing construction of open cloud ecosystems.

Seamless Connectivity in Hybrid Cloud

- FusionCloud can interconnect to other popular third-party public clouds. Customers can avail themselves of the increased speeds in accessing the nearest center to their main or branch operation wherever it may be in the world. Auto-scaling allows customers to expand or scale down whenever needed. Public cloud resources are cost-effective and can easily cope with bursts in access.

Application Scenarios

Carrier

- Pooling of general-purpose computation, storage, and network resources to form a cloud-based infrastructure for easy call up, scale-up, and scale-down. The unified management and orchestration modules can be used in the full range of NFVI, B2B hosting, and cloud-based BSS/OSS/MSS cloud data center solutions.

Government

- Integrates converged resource pools, PaaS, DaaS, DR, security, and other solutions into one overarching e-Government platform. Helps governments improve public service capabilities, competencies in social administration, and efficiency of OA.

Public Safety

- Integrates the unified cloud infrastructure and Big Data analysis solutions to help law enforcement improve their efforts with the ITenablement platforms to keep them informed and ready to take action on a moment's notice. Criminal acts are detoured, social services are improved, and administrative management is enhanced with the all-in-one solution.

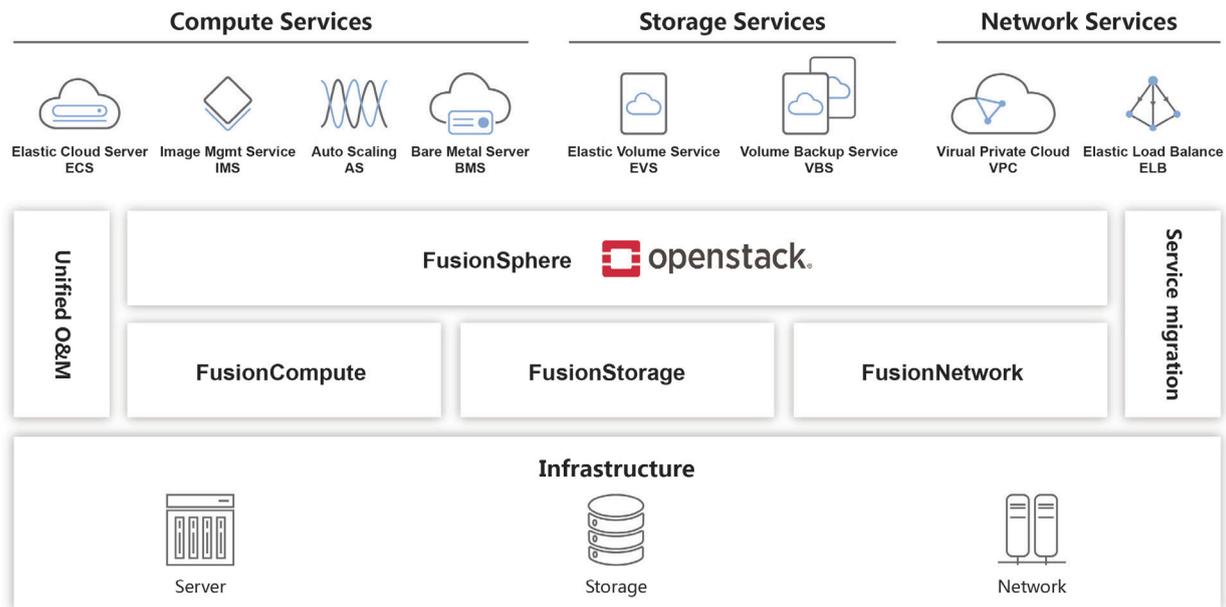
Finance

- Provides complete service lifecycle management. Computation, storage, and network resources in the infrastructure are provided to users in an 'as-a-service' model with access to Big Data capabilities to satisfy even the most intense of requirements in the finance industry.



FusionSphere Virtualization Solution

FusionSphere Cloud OS



Openness

- Open cloud architecture seamlessly connects services across clouds, no vendor lock-in.
- Open cloud APIs make it easy to build upper-layer applications, helping enterprises integrate their services.
- Open cloud ecosystem realizes win-win cooperation among customers, partners, and developers.

Enterprise-class services

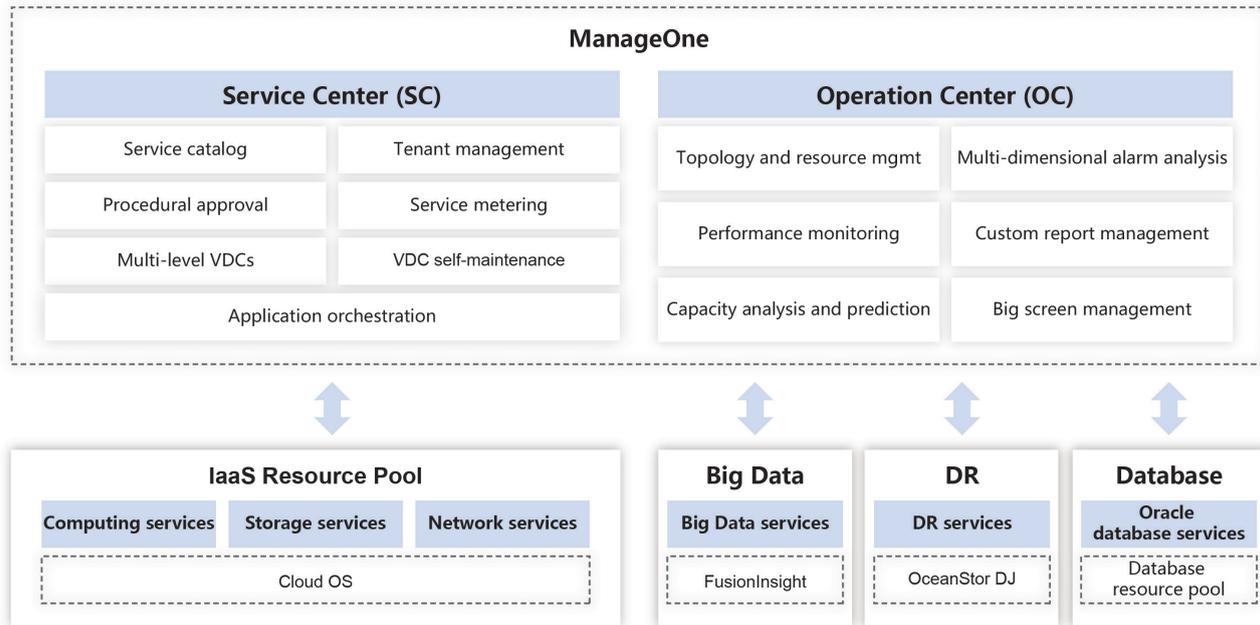
- Full cloud adoptions able to satisfy mission-critical services, development testing, and rapid rollouts.
- Meets even the most stringent of security compliance requirements.
- Provides offline and migration services able to span public and private cloud profiles.

Progressive

- Easy interconnection with physical machines, existing applications do not need to be modified before being placed on the cloud.
- Manages virtual pools comprising heterogeneous resources over one pane of glass with better leveraging of existing investments.

Core Components

ManageOne Cloud Management Platform



Unified O&M

- Service catalog orchestration; rich store of cloud services.
- Supports various heterogeneous virtualization schemes, enables centralized management over infrastructures.
- Layered operation models incorporating multiple VDCs into the mix to suit the customer's operating model.

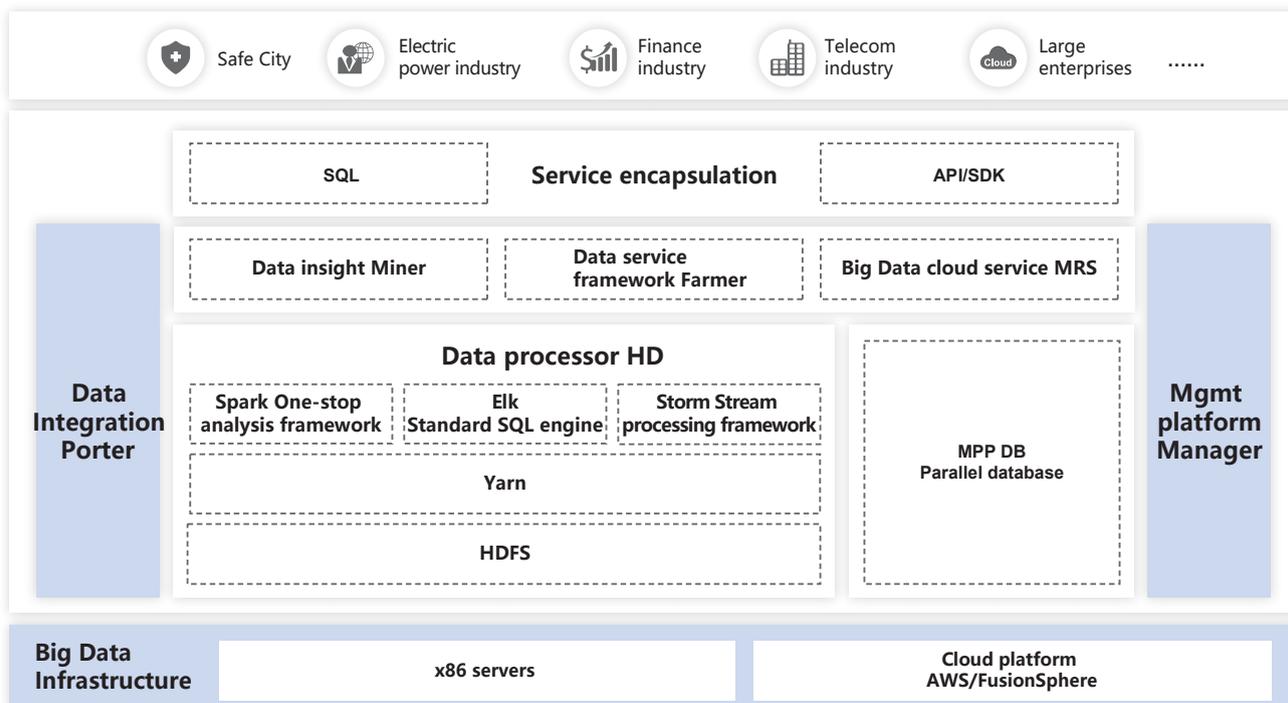
Unified operations

- Multi-dimensional centralized alarm management.
- Unified resource management and monitoring.
- Customized O&M video walls.

FusionInsight Big Data Platform

Huawei's Enterprise-Class Big Data Platform Helps Enterprise Discover New Business Opportunities

Huawei FusionInsight Big Data Platform Solution delivers all the tools enterprises need to quickly build massive data processing systems. Using real-time and non-real-time analysis and mining tools on the massive amounts of data flowing in and out of the organization, value is extracted from complex and unstructured data to help the enterprise improve decision-making capabilities with the decisiveness and accuracy it takes to grab hold of business opportunities. Huawei FusionInsight (IDC , 2017) platform ranks first among all Big Data platform vendors in the 2017 IDC MarketScape: China Big Data Management Platform 2017 Vendor Assessment.



Solution Highlights

Agile

- Able to meet varied offline requirements while keeping latency down to within one second and even to the sub-millisecond range.
- Fully automated online O&M with customized dashboard availability.
- Highly automated secondary development assistants help traditional enterprises easily gear into Big Data products.
- Standard SQL engines allow customers to migrate services quickly and smoothly.

Intelligent

- FusionInsight supports full data modeling to the million dimension range to improve the accuracy of data analysis and mining, enabling enterprises to dive down deep into user behavior.

Trustworthy

- High availability for all components; disaster recovery over a geographical distance of more than 1,000 km. fully compliant with China's information security standards for the finance industry; enhanced security and reliability.

Application Scenarios

Public safety industry

- Empowers municipal law enforcement with the tech to work smarter, solve more cases, and share more information in their data repositories across regions. Ultra-intelligent systems to aid investigations and improve fingerprint comparison analysis. Integrated command and control platform for traffic police sections.

Financial industry

- Support for precision marketing, real-time credit reporting, ad recommendations, traffic monitoring, and real-time risk controls.

e-Government

- Enables data sharing across platform, centralized image storage, rapid search and call up of electronic information, multidimensional analysis on customs clearance and taxation.

Large enterprise

- Real-time monitoring and proactive O&M on manufacturing equipment.

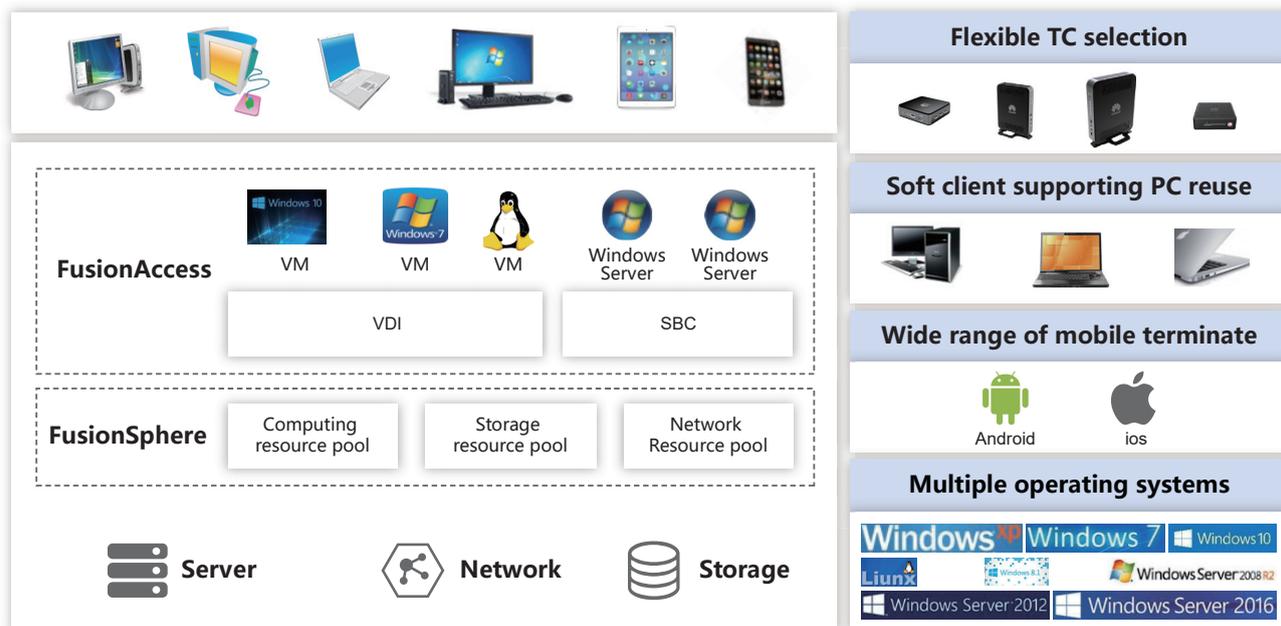
Carrier

- Support for precision marketing and realtime log analysis.

FusionAccess Desktop Cloud Solution

Powering Through the Move to Cloud-Based Office Operations with Huawei FusionAccess

Huawei FusionAccess Desktop Cloud Solution runs on the FusionSphere Cloud Platform. Computing and storage resources are centralized and resources are sharable across the entire network. Unified scheduling and management of cloud-based data centers equates to higher efficiencies in O&M and delivers much more flexibility in office operations, including everything from OA, public terminal, secure office, remote office/branch office, and a long list of other use cases. FusionAccess: Powering enterprises through their cloud adoptions in office operations



Solution Highlights

Superior experience

- Support for multiple peripherals, GPU acceleration and mobile office.

Secure and reliable

- Full assurances in terminal, network, and data security.

Agile and efficient

- Easy O&M, fast deployments, service agility.

Application Scenarios



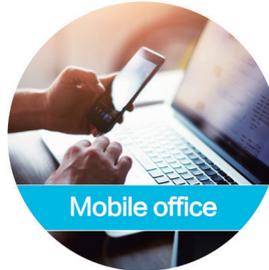
Common office

Simplified O&M;
improved green
credentials (energy savings)



Secure office

Zoned office
(tiered security indexes);
full data security assurances



Mobile office

Unified builds;
flexible and efficient



Call center

Efficient and professional;
secure and agile



**Cloud
workstation**

Excellent user experience;
convenient and efficient



Public terminals

Added efficiencies in
maintenance and flexible access



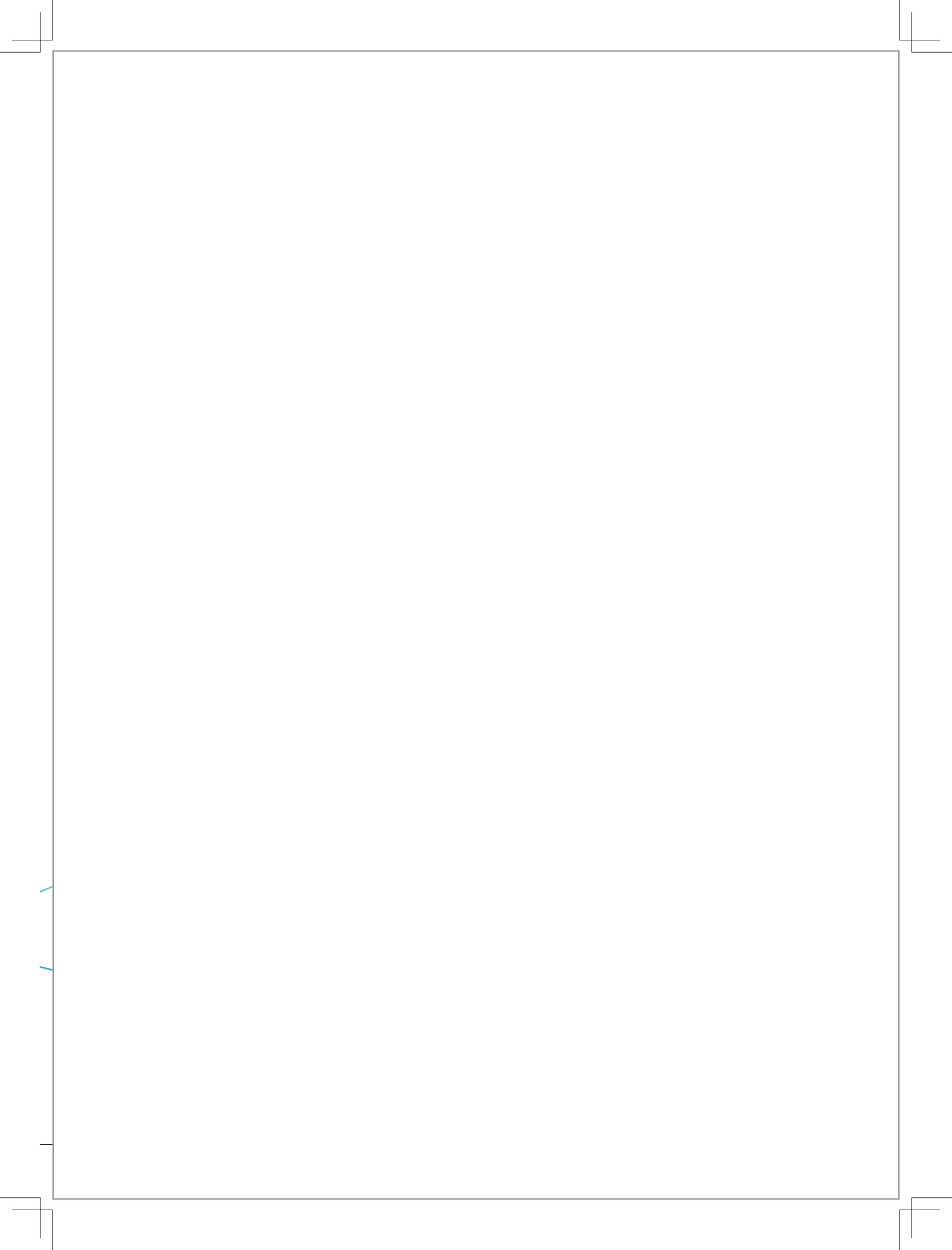
Branch office

Remote access to applications
for improved cost effectiveness



DaaS

Unified management;
secure and efficient



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