

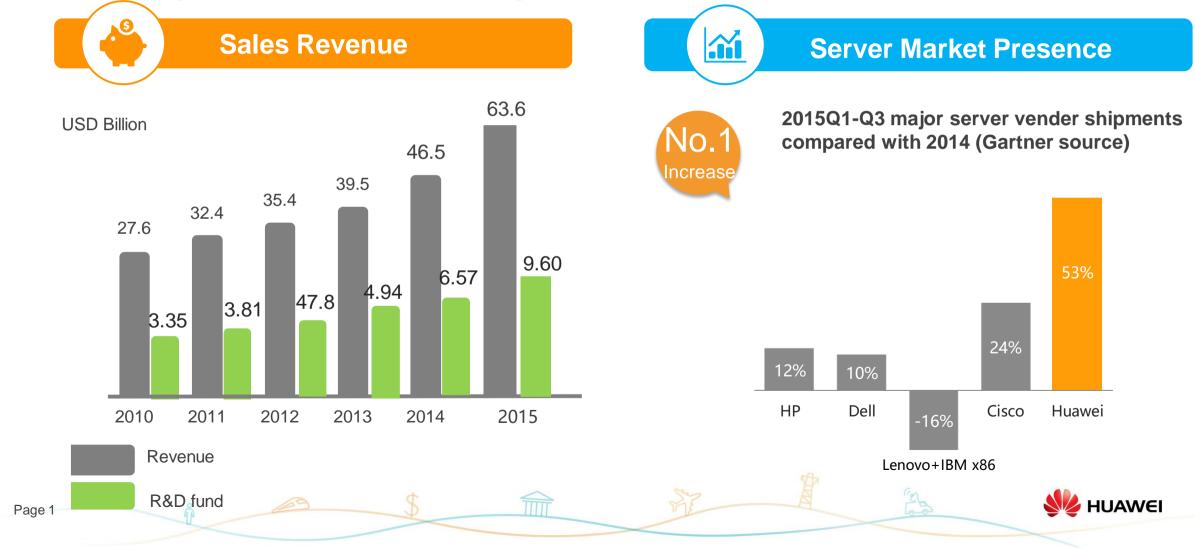


MAKE IT SIMPLE, MAKE BUSINESS AGILE 精简IT, 敏捷商道



#### Huawei Group and its Server Business Steady Growth

Steady growth partner and huge investment in R&D



## Huawei and SAP Build a Joint Innovation Center for Competitive Solutions



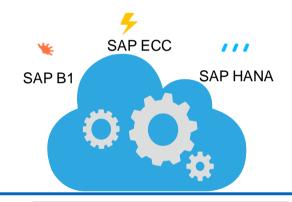
## **Joint Innovation for Enterprise Transformation**

# IT Infrastructure Innovation

# SAP critical business on Cloud

# IoT Intelligent Interconnect







SAP HANA E2E infrastructure Real-time service decision-making Innovative and open IT architecture

Cloudified SAP apps and SAP HANA Less CAPEX for enterprises Simplified IT O&M Industrial intelligent manufacturing and interconnection solution
E2E IoT implementation













## Huawei & SAP cooperation to jointly win-win!

**SAP Business** Warehouse powered by SAP HANA

**SAP Business Suite powered** by SAP HANA

**SAP Simple** Finance powered by SAP HANA





RH5885 V2



**FusionCube** 



RH5885H V3



RH8100 V3



**OceanStor** 



KunLun

2011

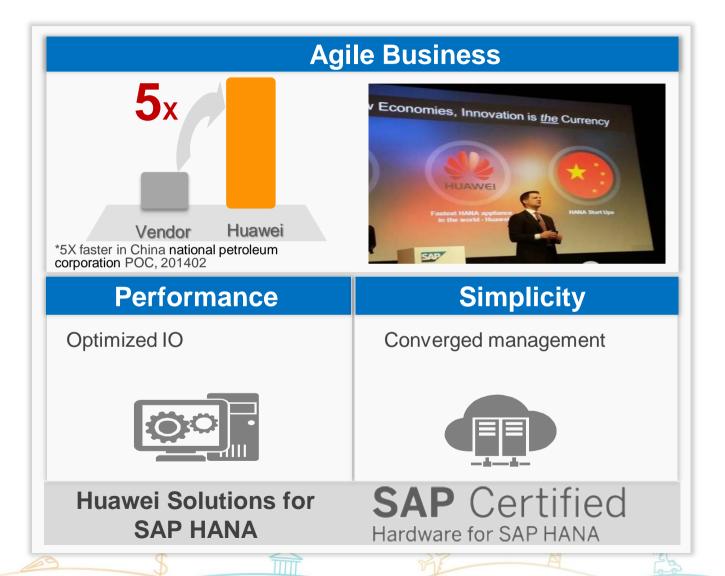
2013

2014

2015



## **Optimized SAP HANA infrastructure**





#### **SAP HANA Scenario: Data Warehouse**

**Business System** 

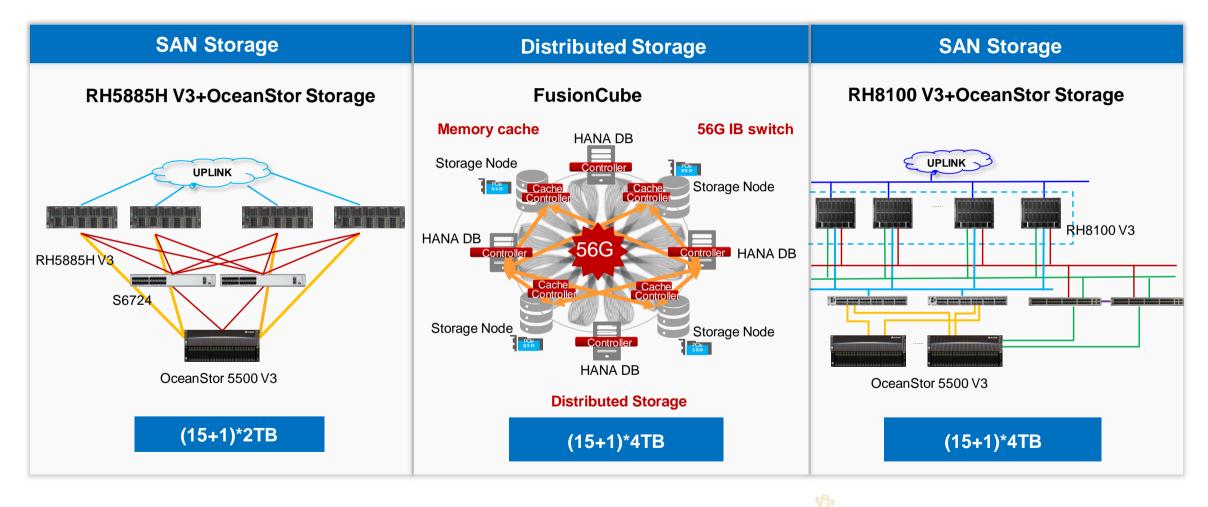
### Hybris CRM **ERP** Cockpit Daily report Planning BW OR Oracle or SAP HANA **Pure HANA** Others ETL SLT.....

1

**Analysis System** 



#### **Scale Out Solutions**



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#### **SAP HANA Scenario: Critical business**

**Business System** 

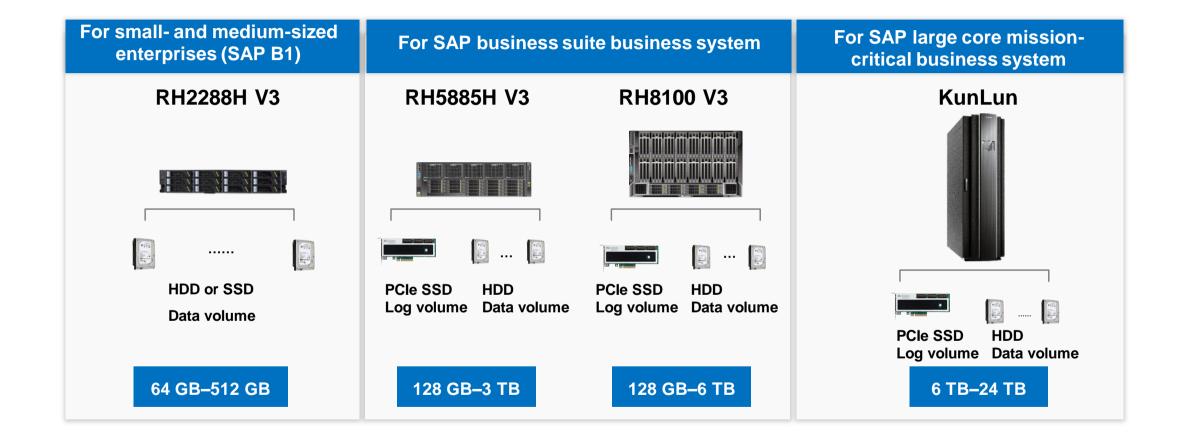
#### Hybris CRM **ERP** Cockpit Daily report **Planning** BW SAP SAP **HANA HANA** OR SAP HANA Pure HANA ETL SLT..... **SAP HANA**

1

**Analysis System** 



#### **Single-Node Solutions**



1



### SAP HANA Scenario: Integration and Simplify Business S/4 HANA

**Analysis System** 

**Business System** 

## **CRM** Hybris **ERP** Cockpit Daily report **Planning SAP HANA Platform**

Simple, Sharing, Real-time



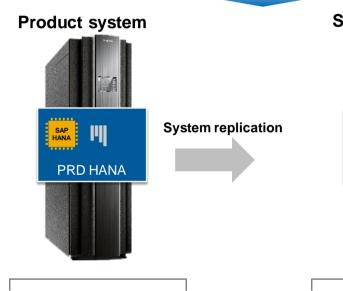
### Huawei integration solution for single data platform







- Simplicity
  - reduce 80% sets of server
- Flexibility
  - Resources on demand
- High Reliability
  - RAS 2.0
- > High Performance
  - 1152 threads and 24TB memory in one server







PCIe SSD Log volume



OceanStor

Data volume

TITT



PCle SSD Log volume

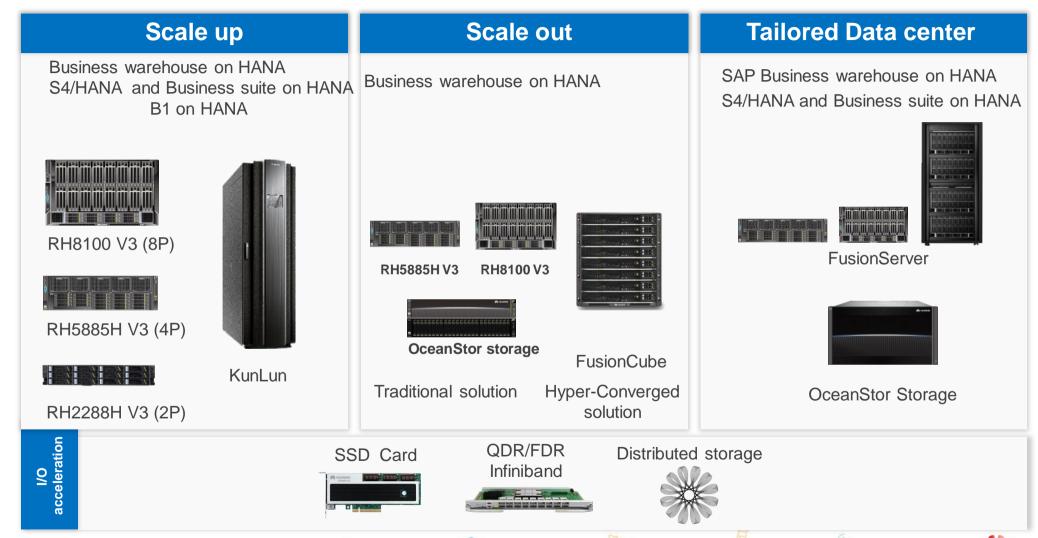


OceanStor

Data volume



#### **Solution Infrastructure Overview**



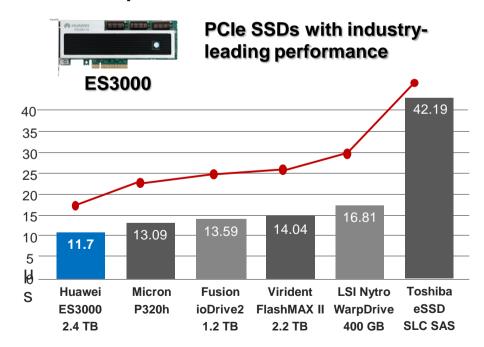
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#### **Performance Acceleration Innovation: Optimal Performance Experience**

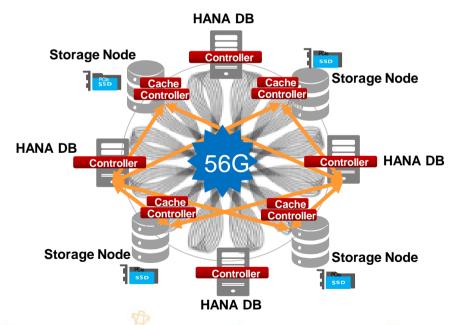
PCIe SSD for HANA DB write performance acceleration

2–3x improvement in HANA write performance



Distributed storage + 56Gbps InfiniBand high-speed network

7x improvement in network performance, 3-5x improvement in concurrent I/O performance





### **Less Equipment Footprint**

## 50%-75% footprint saved

**Single-node system solution** 

World's only one single-chassis server that passes SAP HANA 6T certification



RH8100 V3

#### Scale out solution

SAP HANA cluster solution with the world's highest integration

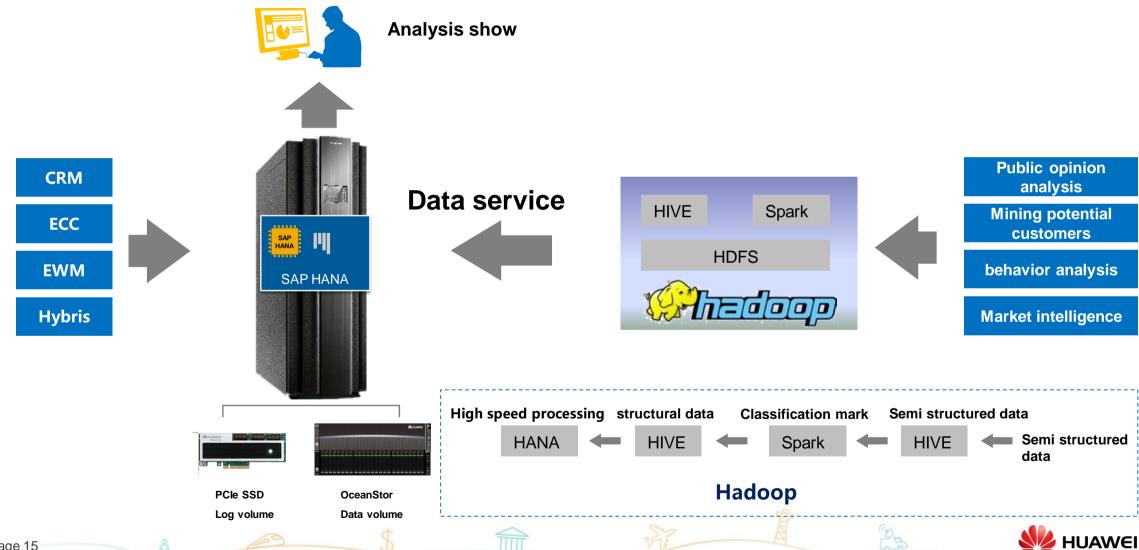


**FusionCube** 



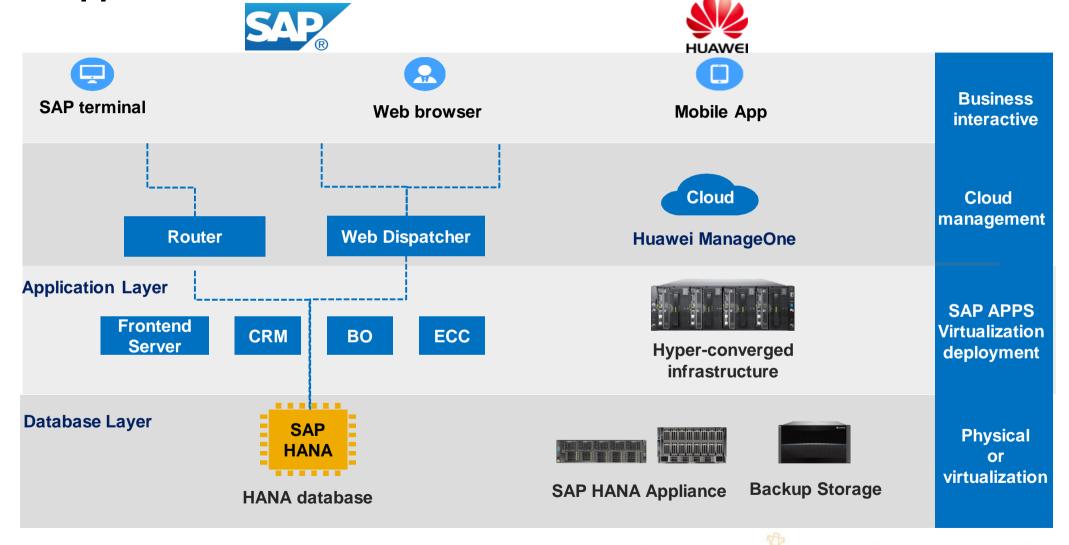


## Big data Solution: Tiered storage with Hadoop, Huawei FusionInsight





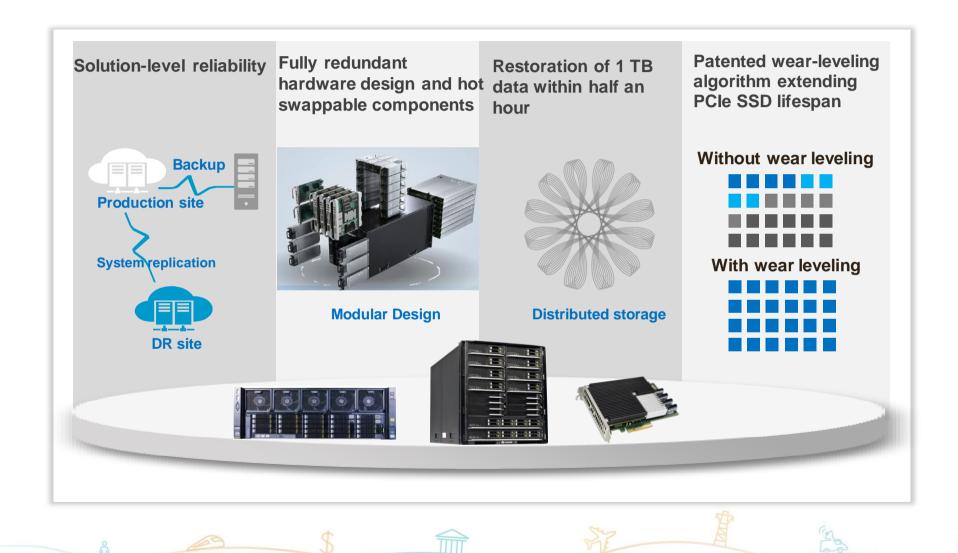
#### **SAP Apps Powered Huawei cloud**



1

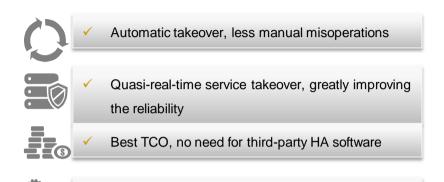


## **Enterprise-level reliability**





#### **Business Continuity Solution: Single-Node HA**

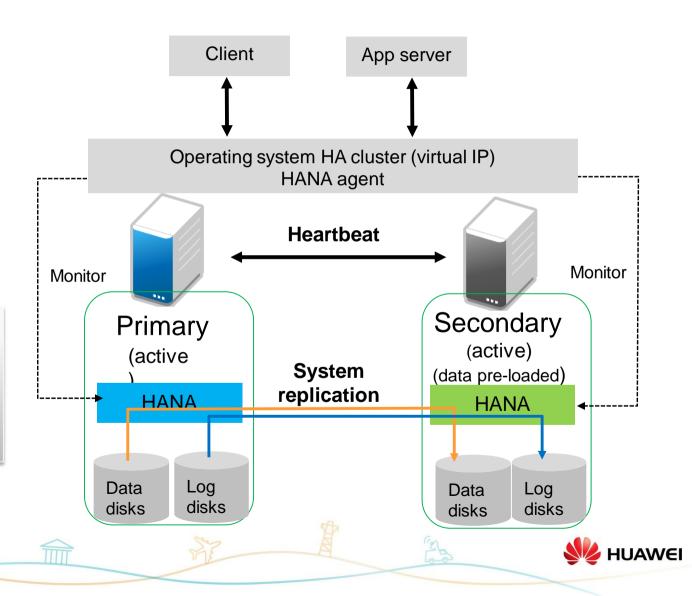


 The system replication function of SAP HANA implements synchronous or asynchronous database data replication.

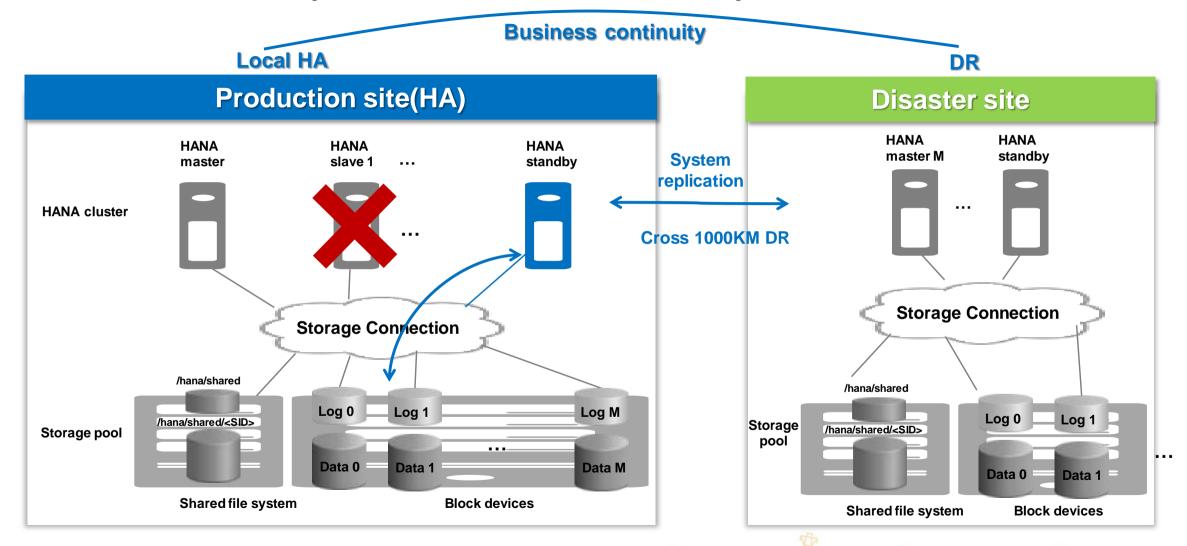
Simplified deployment, and professional HA

implementation service is available

 The OS layer provides built-in dedicated HA software to monitor and switch over the running status of the active and standby nodes.

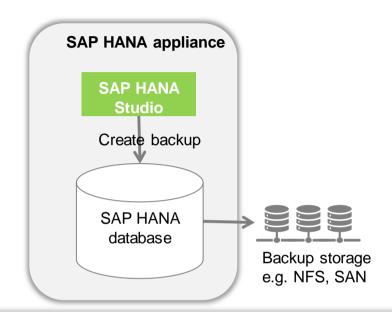


#### **Business Continuity Solution: Disaster recovery**

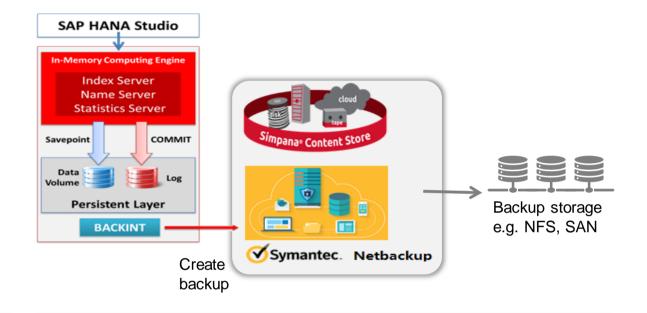




#### **Enterprise-Level Backup Solution**



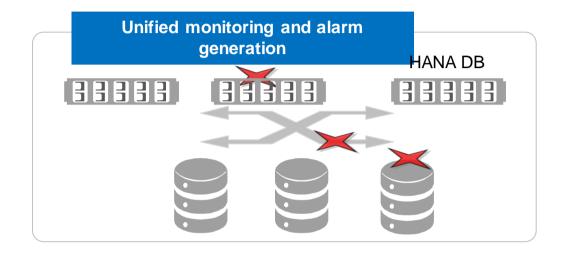
- Solution 1 (recommended): Best TCO; uses the backup function provided by SAP HANA Studio, no need to purchase third-party backup software.
  - ✓ Mounts volumes to SAP HANA servers.
  - Configures backup policies in SAP HANA Studio.
  - ✓ The backup server can be a SAN, NAS, or unified storage,
    which can be an legacy or newly purchased storage.



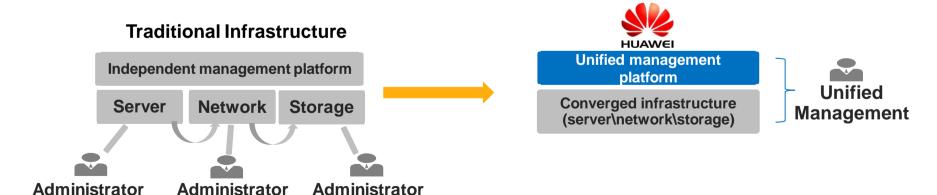
- Solution 2: Uses the backup software certified by SAP for backup.
  - "Backint for SAP HANA" API can be implemented by a 3rd party backup agent (certification required)
  - ✓ Provides functions for backup, recovery, query, delete
  - Data backups to Backint can be triggered/scheduled using SAP
     HANA studio, SQL commands, or DBA Cockpit



### **Simplified Management**



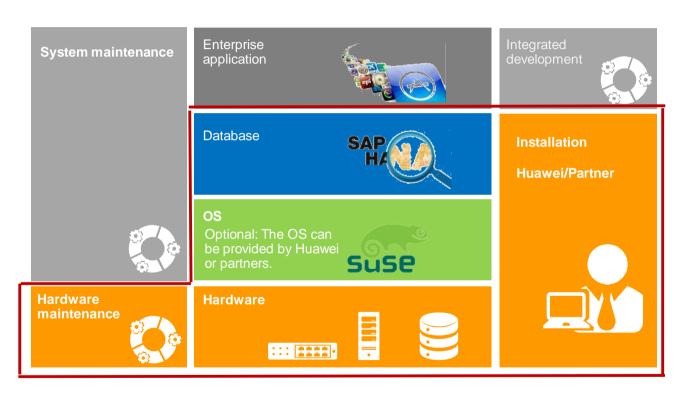
- □ Hardware is provided only by Huawei, facilitating hardware management.
- □ Centralized management of hardware and software, including servers, storage, IP switches, InfiniBand switches, storage software, and virtualization software
- ☐ Centralized alarm generation and real-time monitoring for hardware, software, and HANA databases





#### What Does Huawei Provide?

- What we sell is highlighted in Orange, including hardware, software, installation, and maintenance.
- Software includes the SUSE OS (including three-year warranty)
- Installation services: hardware, OS, and database installation
- 4. Installation is performed on site.
- Provide HANA DB HA implementation services.
- 6. Huawei provides one-stop maintenance for all hardware .

















## **Globalized Resource Deployment and Localized Business Operations**



- Operations in 170+ countries; 170,000+ employees comprised of 160+ nationalities worldwide; 75% localization rate.
- Huawei's global value chain allows smooth capability transfer across the globe, develops and retains talent in local countries, and creates jobs and economic opportunities.



#### **Global Reference Cases**







# SINOPEC Improves Business Warehouse Performance with Huawei FusionCube

84 TB HANA DB + 600,000 IOPS + hyper-converged infrastructure, easy adaption to 100x performance acceleration business





10 sets of 2 TB HANA DB + 60 RAS features + cover SAP ERP, BW, CRM, SRM, IDM systems Improve system performance by 300 times











# THANK YOU

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