



**SYMANTEC
ENGAGE
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Virtualised Cloud Storage - Driver for Business ROI

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Agenda

- Huawei Symantec Overview
- Cloud Storage – Driver for Business ROI
- Huawei Symantec Cloud “Storage as Service”
- Public Cloud Storage Use-case
- Private Cloud Storage Use-case

Introducing Huawei Symantec



Huawei Symantec

A leading and constantly reliable partner in information security and storage solution

Focus on customer requirements, provide cost-effective solutions and bring sustainable value adding to customers by accelerating technology innovation and application in information security and storage



Huawei

To enrich life through communication

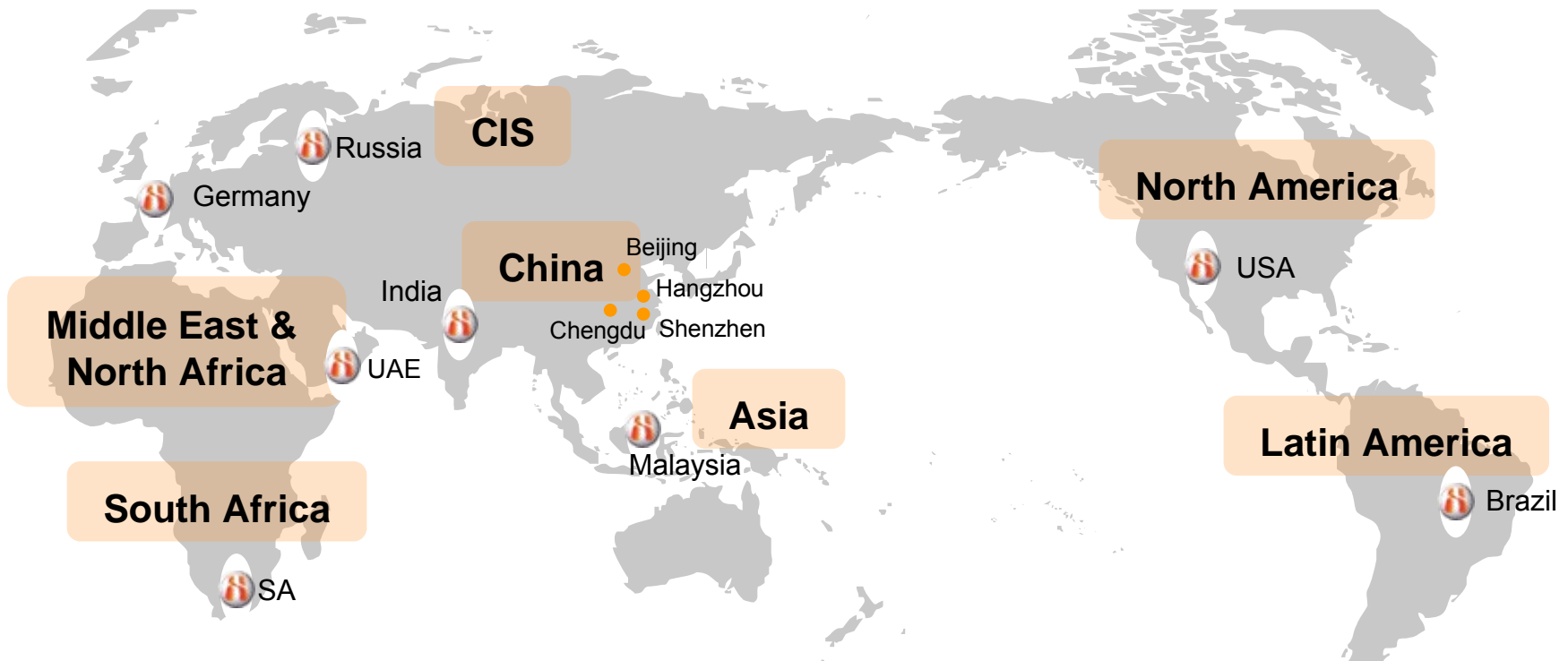


Symantec

Confidence in a connected world

Huawei Symantec Overview

- Network security and storage appliance solutions to enterprise customers worldwide
- 4,000 employees. 4 R&D centers located in Beijing, Chengdu, Shenzhen and Hangzhou in China
- HS solutions have been applied in more than 40 countries across seven regions, in which HS has established market and services support.



Today's business models

requiring new infrastructure models



Photo Sharing
& Finishing
Services



Online Social
Communities/
Content
Sharing/ Email



Medical
Imaging &
Analysis



Genome
Research

Enabled by
Globalization of
technology's reach
faster, better, cheaper
technology

Streaming
Services



Music and
Ringtone
Services



Digital
Animation



Security &
Surveillance



Energy
Exploration



Cloud Storage – Driver for Business ROI

The rapid growth of enterprise data drive the evolution of cloud computing and cloud storage.

Business driven

Digital Information process



- ◆ In 5 years, Data will be 10 times, to **1600EB**
- ◆ CAGR **57%**;

◆ (All human written history data: **5EB**)

Extra Large scale

+

Extra low cost

Cloud storage

Energy Saving

Global data center cost of energy over **7 billion**

Application System

Data grow rapidly across storage infrastructure

Cloud: Business Oriented Service

IaaS

Infrastructure as a Service



Software
(Application)

Platform
(App Server, App Framework,
Program Language)

PaaS

Platform as a Service



Software
(Application)

Platform
(App Server, App Framework, Program Language)

SaaS

Software as a Service



Software
(Application)

Infrastructure

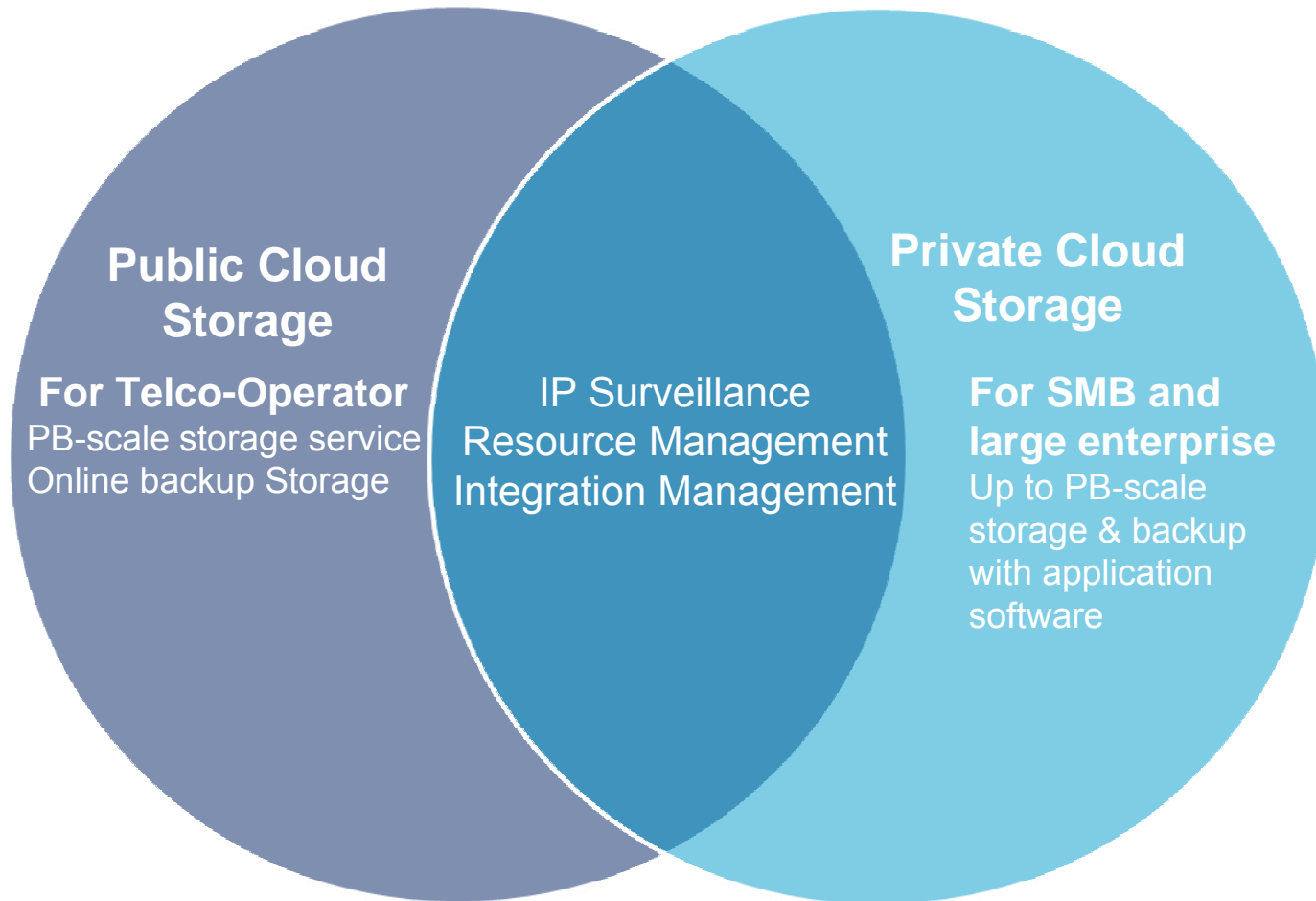
(Network, Computing, Storage, Room, Air conditioner, Power, etc.)

Cloud User provide

Cloud Carrier provide

Huawei Symantec Cloud Storage Strategy

Cloud 'Storage as Service'



Cloud Storage Service System(CS3)

Business oriented, easy to access

The standard of storage resource is growing fast and more unified.

Many applications gather into the same platform for information sharing.

The CS3 offered the services to end users and the other services to applications.

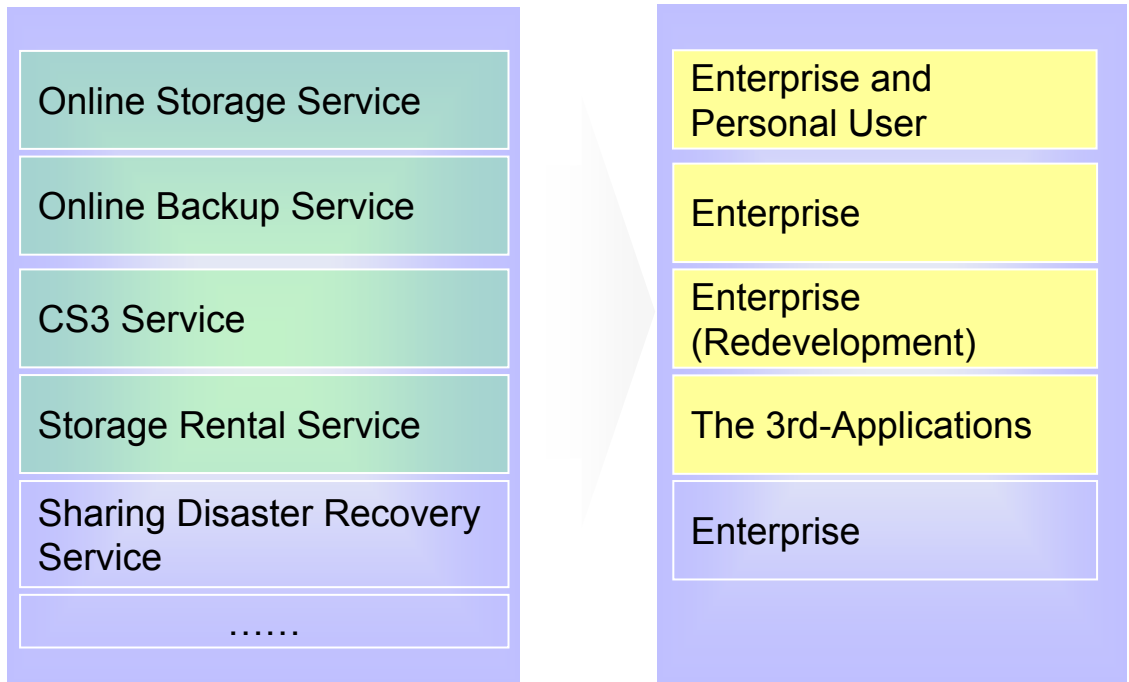
Storage as a Service



Block DFS DDB






Symantec Protection Network



Huawei Symantec Public Cloud “Storage as Service”

Solution Overview

Cloud

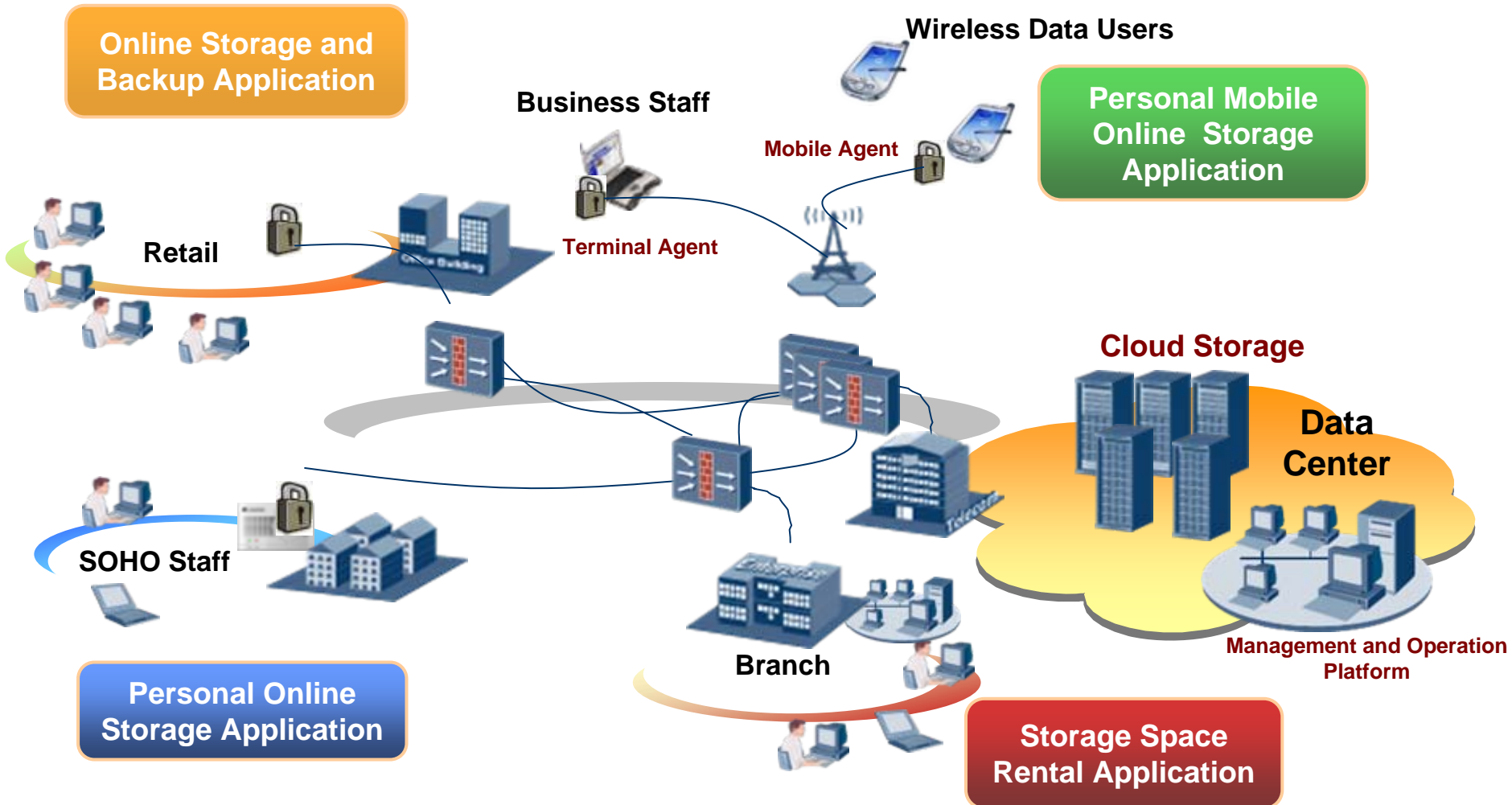
Cloud Storage(CS3)			
HomeNas/BizNas		Cloud Storage System	Container Datacenter
TEX1000  Home/SME	TEX2000  Enterprises Cloud Storage	TEX5000 <ul style="list-style-type: none"> 1.Up to 100 PB 2. Automatic Deployment 3. Automatic Upgrade 4. Self-adjustment of Power Consumption 	TEX8000  40U ~ 10 Racks

- Online Storage Services
 - Access corporate or personal information anywhere through CS3 services.
 - Automatically synchronize data with AES encryption (128bit).
 - Provide point-in-time data protection and policy-based data archiving.
 - Embed with energy-saving technology
- Tight integrate with Resource Management
 - E.g. billing system, cloud utilities and device management



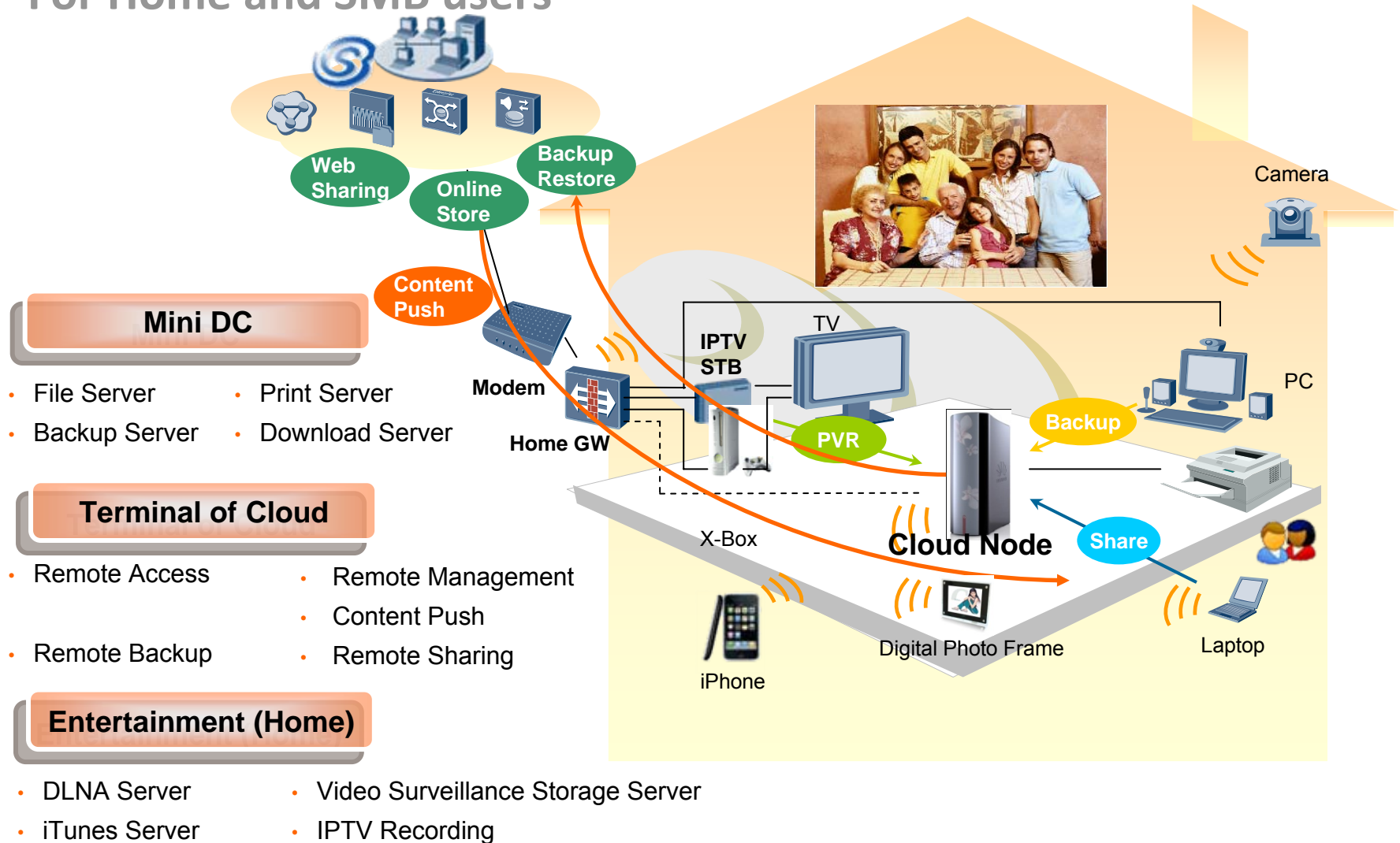
Huawei Symantec Public Cloud 'Storage as Service'

Use case for NSP, Large Enterprise, and Government



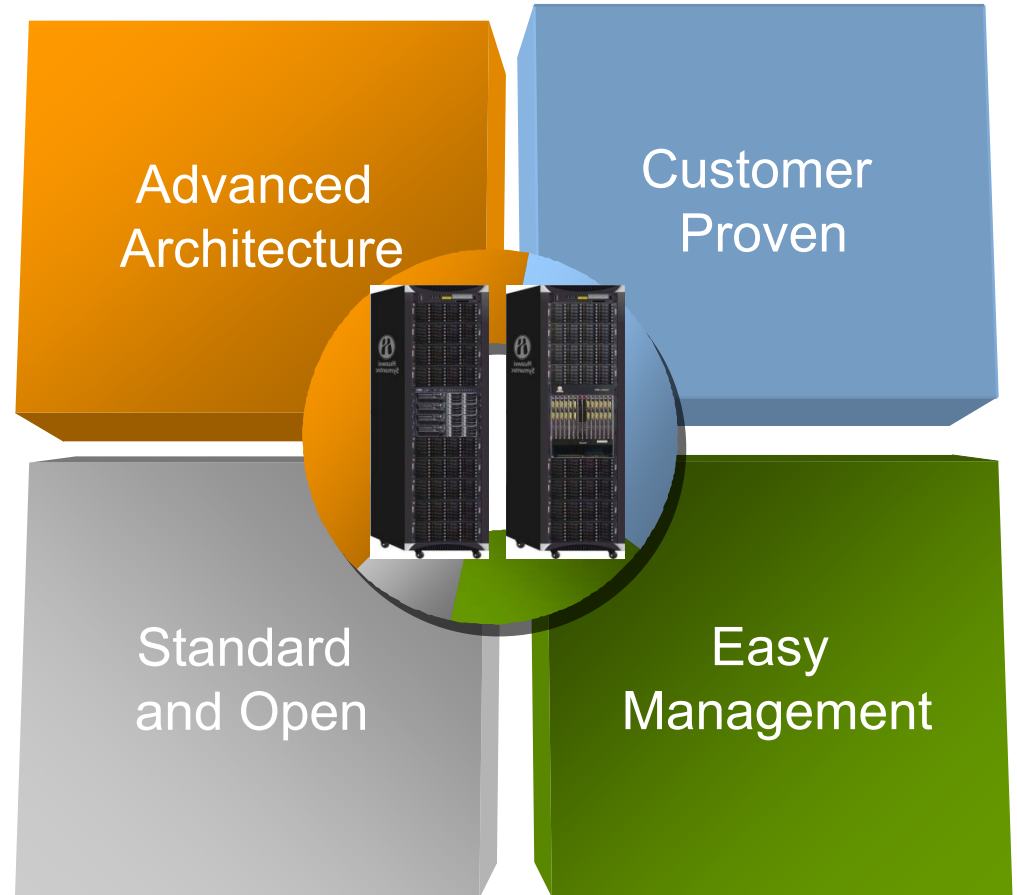
Public Cloud "Storage as Service" Solution

For Home and SMB users



Huawei Symantec Private Cloud “Storage as Service”

Oceanspace N8000



Unparalleled Architecture for Private Cloud Solution

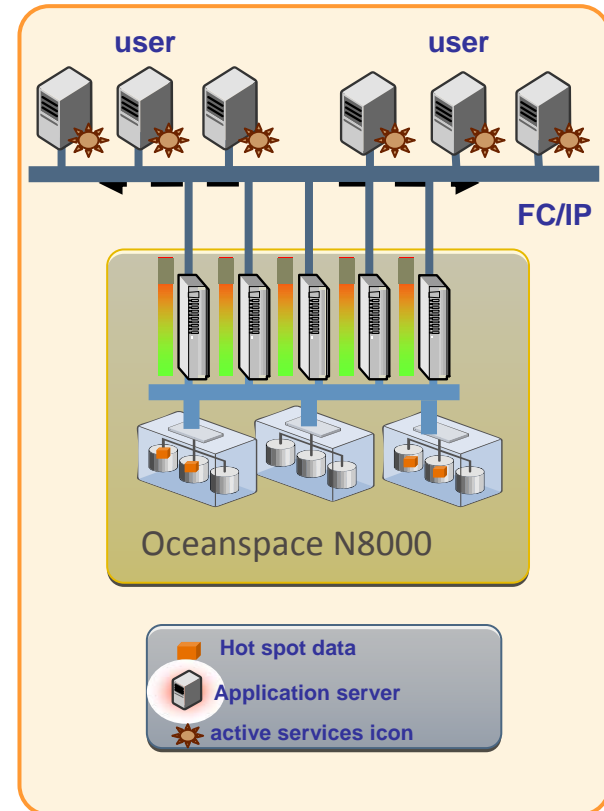
Scalable and Open

“Pay As You Grow”

- Load-balancing and Active-Active Cluster Engines: scale up to 16 nodes
- Max I/O Performance: 350MB/s throughput per node; 160,000 IOPS
- Max Number of File System: 256
- Max Storage Capacity: up to 15 PB.

Standardization and Open

- Support host/application connectivity over NAS (NFS and CIFS).
- Compatible with all mainstream of operating systems and software applications



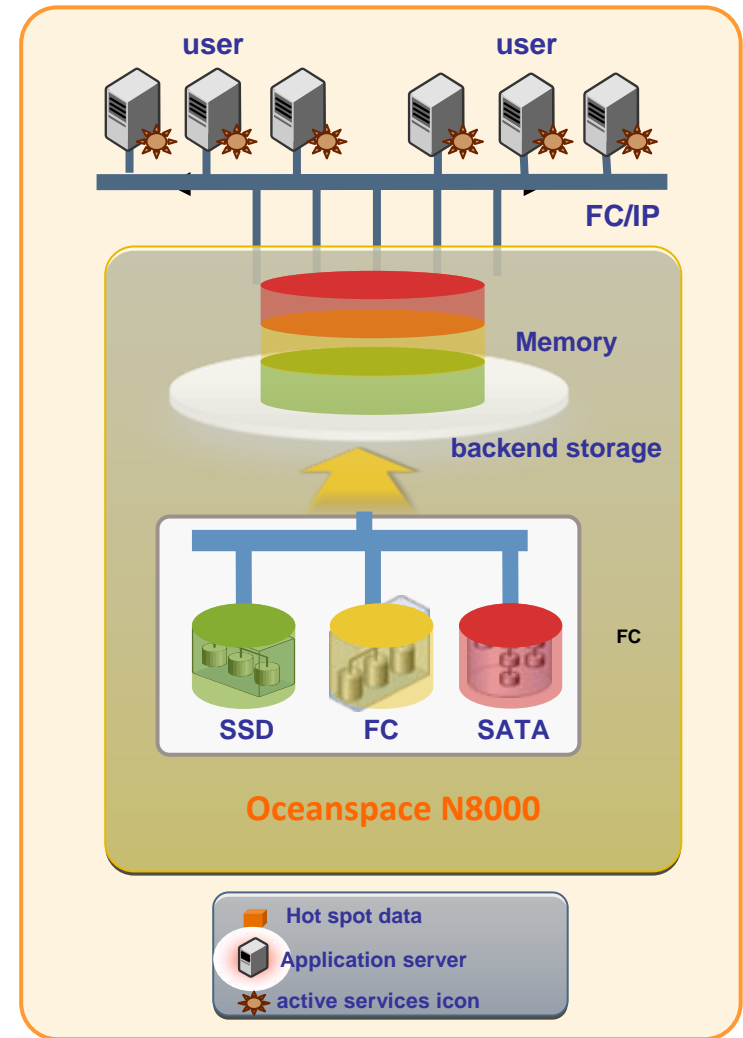
“Customer Proven” and “Easy Management”

Customer Proven Products

- Embed with Symantec Technology- SFS,VCS,NBU
- Enterprise-wide deployments
- SPEC 2008 tested and Certified

“Single Panel” Management to reduce operation cost!

- Appliance based with storage arrays
- Policy-based DR and PIT protections
- Dynamic Storage Tier functioning across filesystem level
- Tight integration with Symantec solutions, e.g. NBU, EV, Endpoint.



N8000 Case Study – Alibaba (Taobao)

Customer Challenges

- Need a high reliability, excellent scalability NAS system to storage/Backup Booming up no-structured business data,
- Over 500 servers need access the share storage platform.
- Need high speed data backup, Performance is the key



淘宝网

**Taobao,
NO.1 B2C Portal
80% Market Share
100M subscriber
15B USD trade**

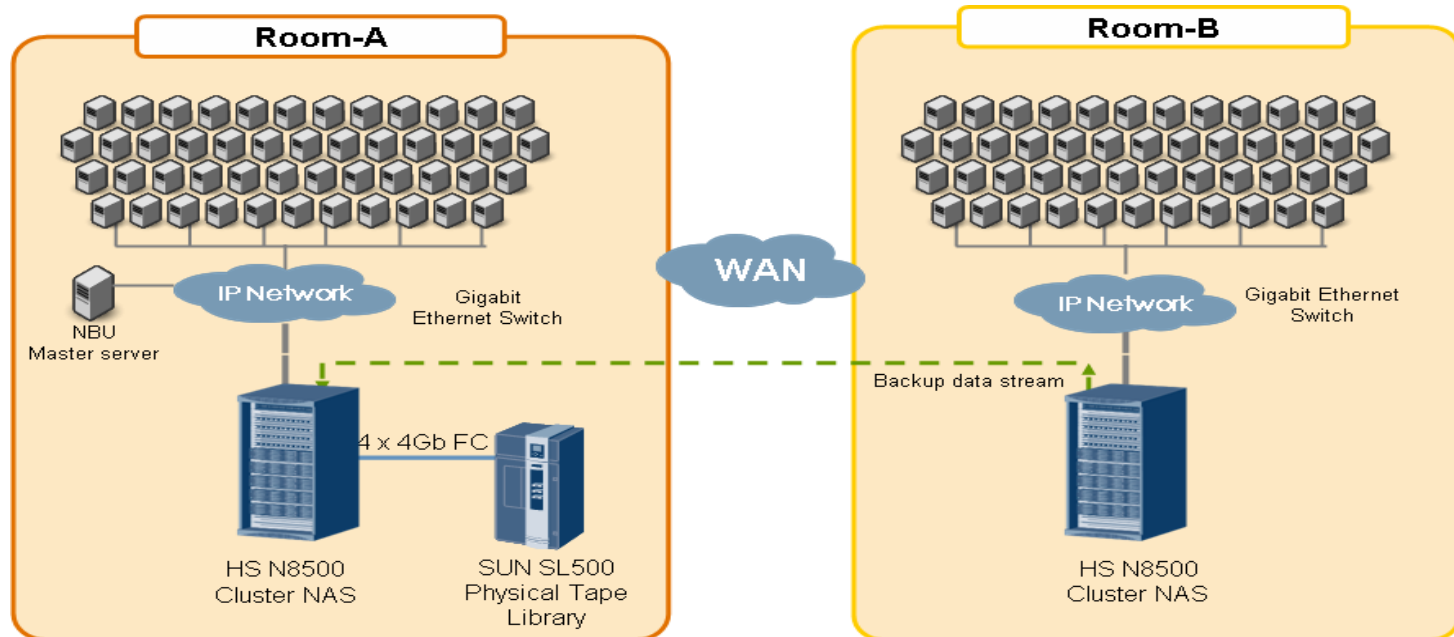
Mass File Storage System on Taobao

Huawei Symantec Solution

- 2* N8500 work as Active-active model to enhance the business continuity
- Each N8500 with 12 engine + 1.5 PB disk
- NBU improved Backup Efficiency 4 times than NDMP
- Improve I/O performance to 3GB/s

Customer Benefit

- Single N8500 can scalable up to 15PB, can meet customer next 5 years storage\backup requirement
- HS quick customized solution and excellent technical support ensured Alibaba\Taobao's quick business grow!



Private Cloud “Storage as Service” Solution - Shanghai Ocean University digital campus

Customer Challenges

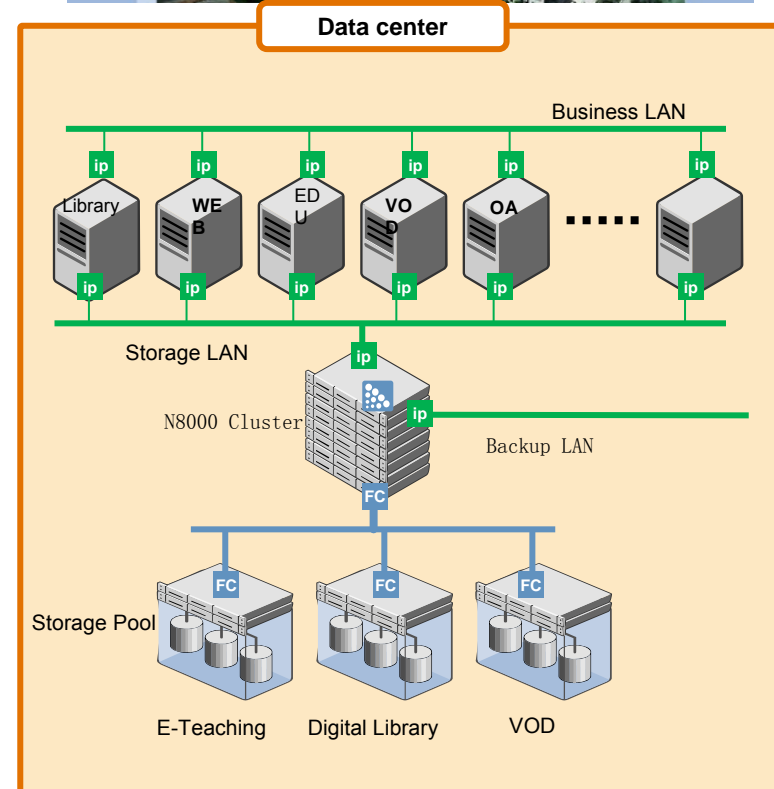
- Build up a New campus with E-teaching, digital library, VOD, ID Card Control, etc.
- Need integrated storage system with strong and centralized management platform.

Huawei Symantec Solution

- Dynamic storage tier (DST)
- Server Free NetBackup function to reduce the complexity of backup system

Customer Benefit

- Integrated System with Center management reduced the operation cost
- “Pay as you Grow” excellent linear scalability,
- Easy deploy new applications like HPC, etc



Online Storage 120TB + Backup Storage 60TB



Thank you!

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