



PSPACE

PSPACE Technologies inc.

THE Cloud Storage Company

PSPACE Co., Ltd
Q1 2016

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1. Company Introduction.....●

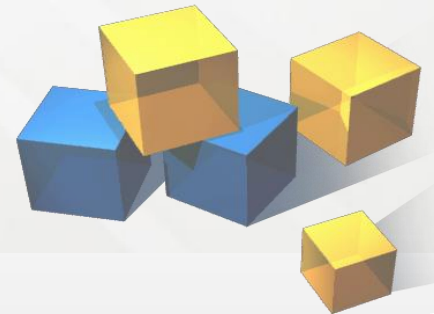
2. Products & Technologies.....●

InfiniStor File System (Cluster File System)

Cloud Storage Service Platform (Object Storage Services)

Securage (DLP built-in File System)

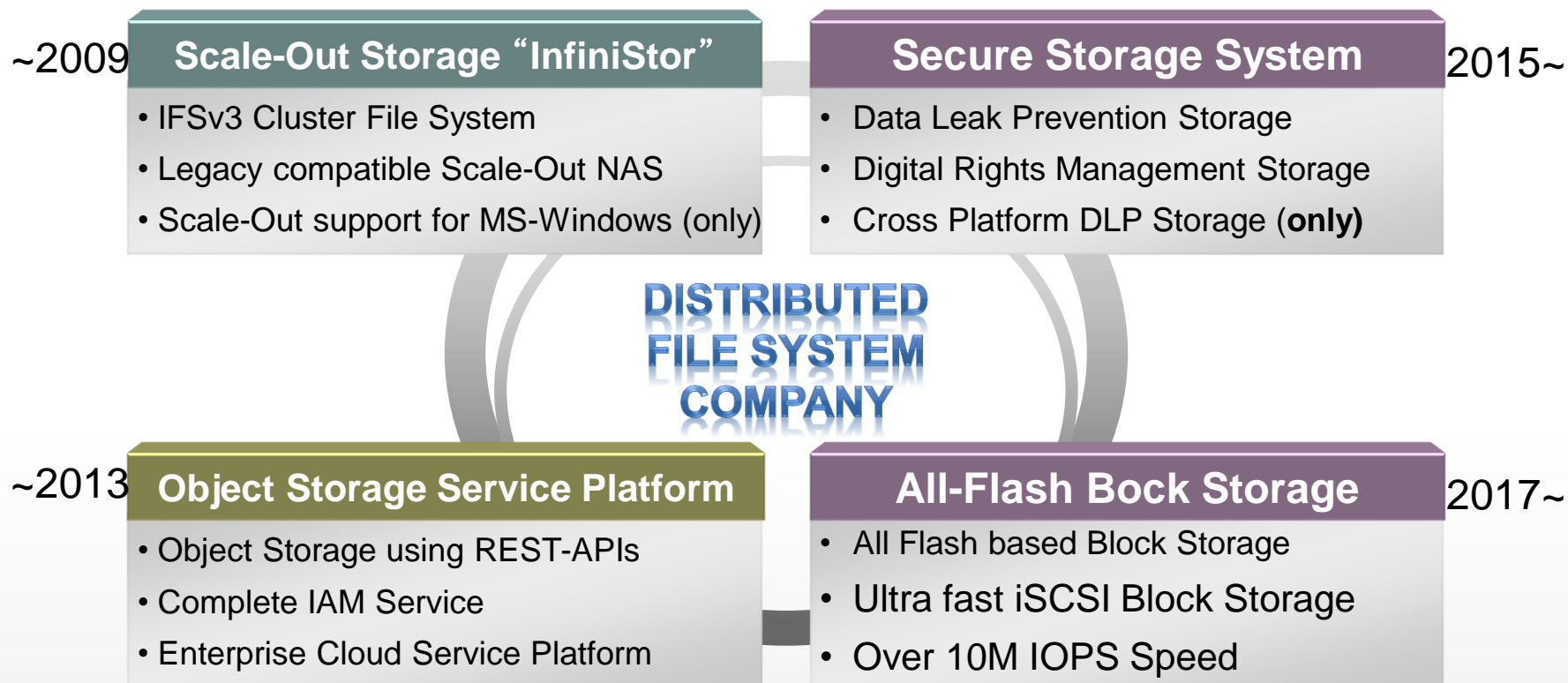
3. Works with Samsung.....●



1. Company Introduction

1-1. Company: General Information

- ❖ Established as a **Scale-Out Storage** company in 2004, 100% R&D Company
- ❖ Field proven technologies and products
- ❖ Guarantee the best **Performance, Reliability, Secure Enterprise Storage**



1-2. Intellectual Properties, Certifications, and Customers



Venture

InnoBiz

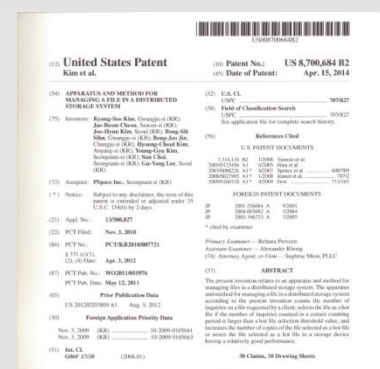
R&D Center



3 Korean Patents, 3PCT, 1 US Patent



Good Software Certification



US Patent

2. Technologies & Products

Scale-Out NAS

Cluster File System for Scale-Out NAS

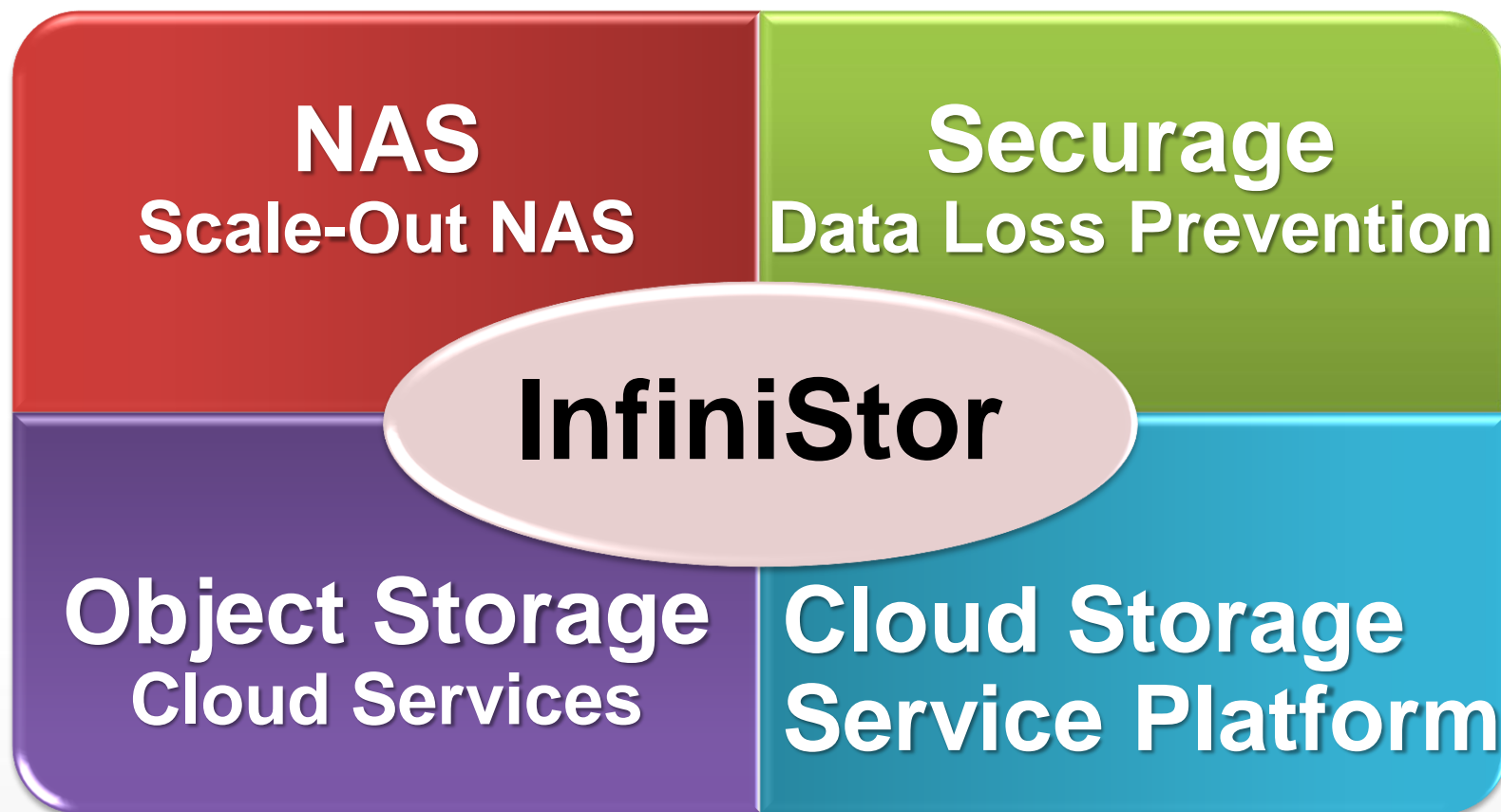
Cloud Storage Service Platform

InfiniStor Extension for Object Services

Securage (DLP Storage)

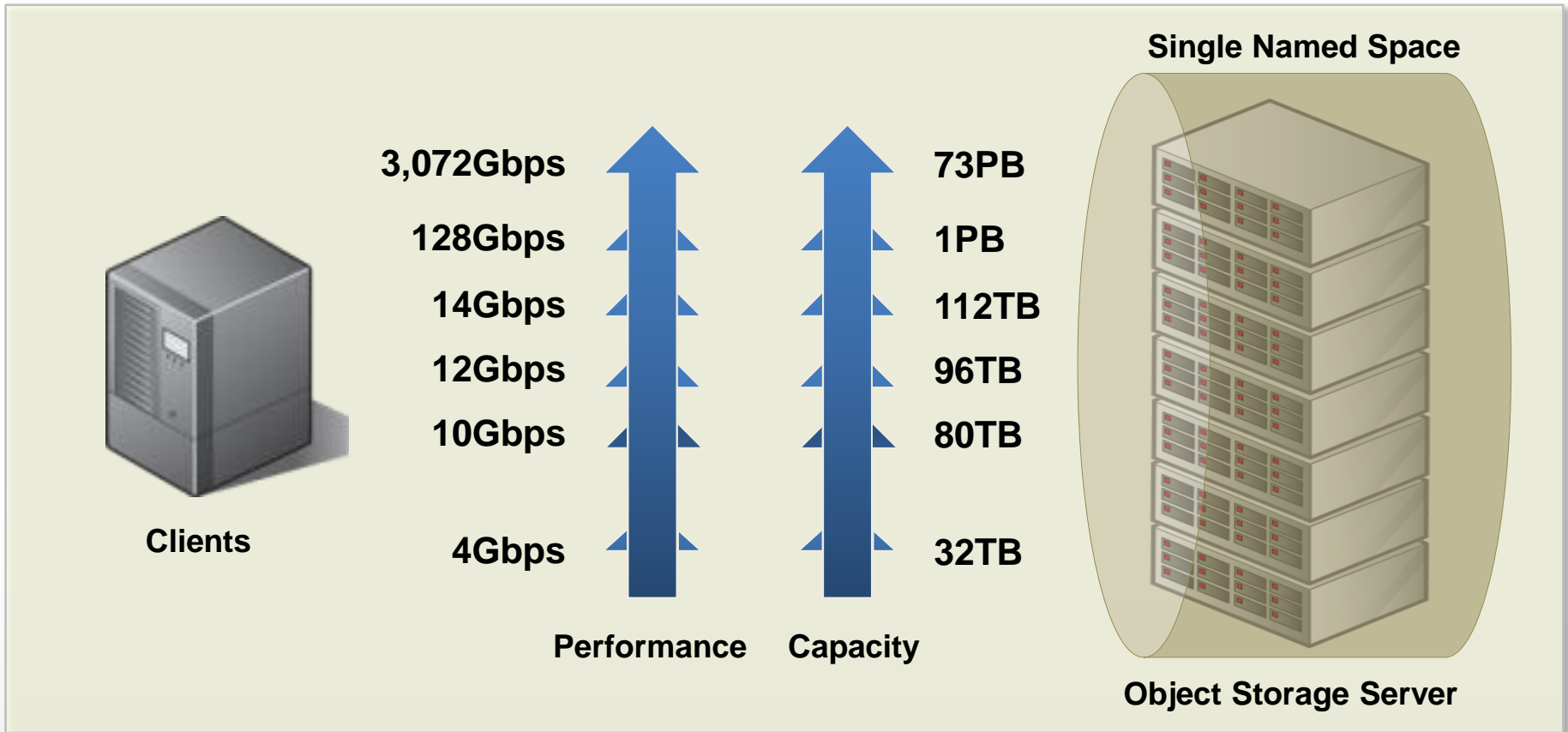
Application Aware File Protection Technology based NAS

2. InfiniStor Storage System

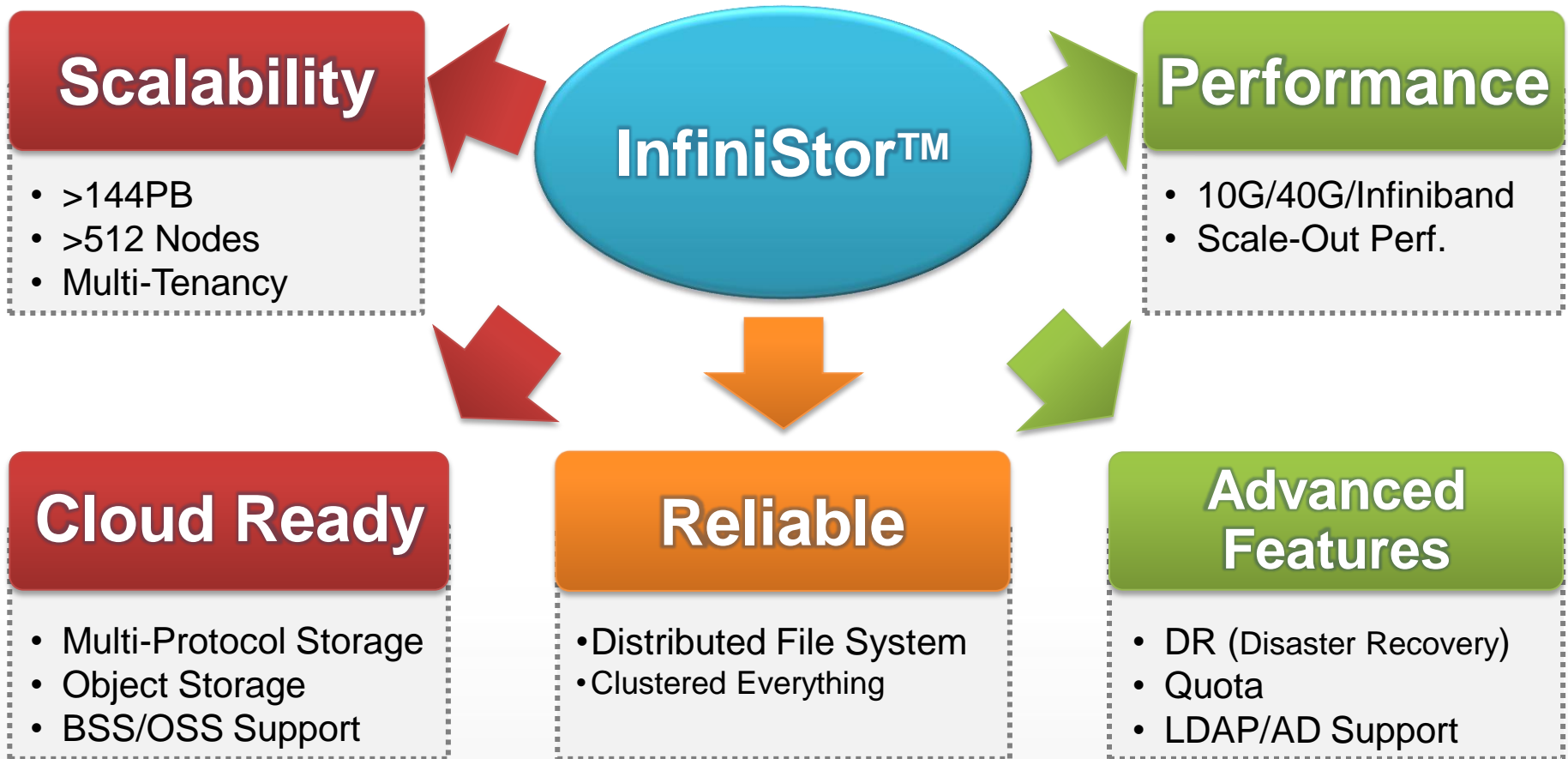


2-1. InfiniStor™ NAS : Scale-Out NAS (Capacity & Performance)

- ❖ Performance & Capacity increase as Storage Server added to the System
- ❖ 512 Storage Servers (tested and certified) 144PB/System



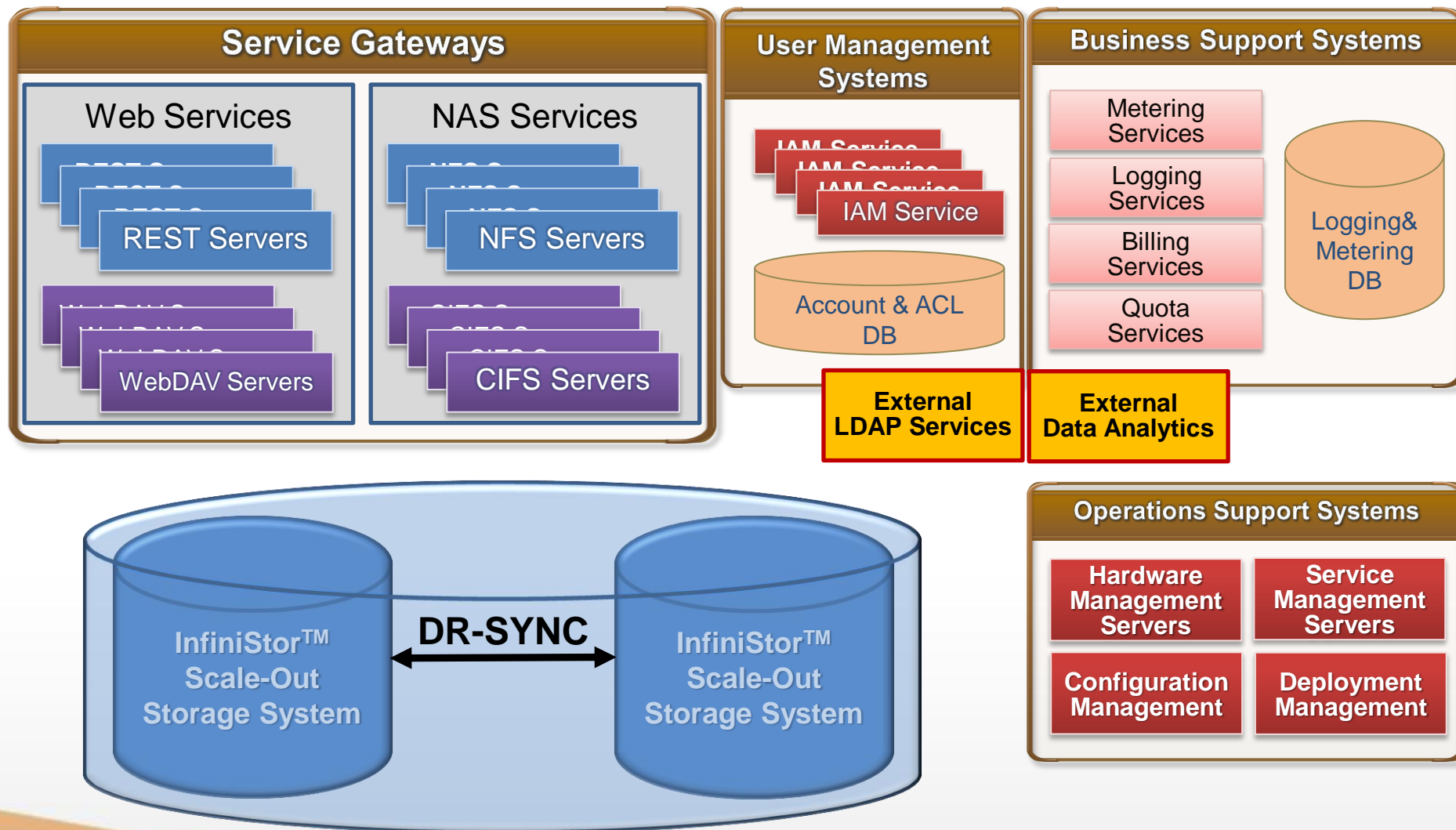
2-2. InfiniStor™ NAS Characteristics



2-3. Object Storage: Characteristics

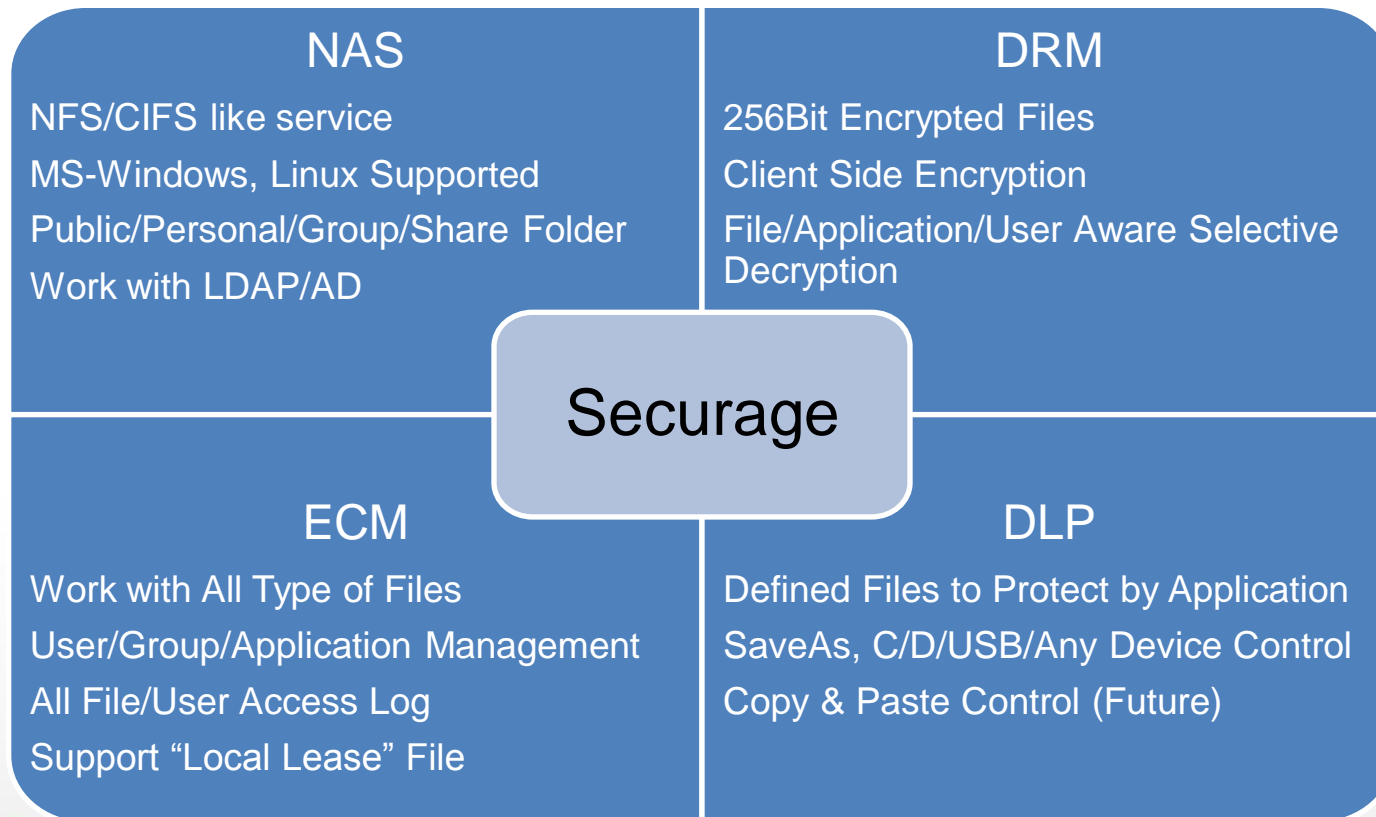


2-4. CSSP™: Components

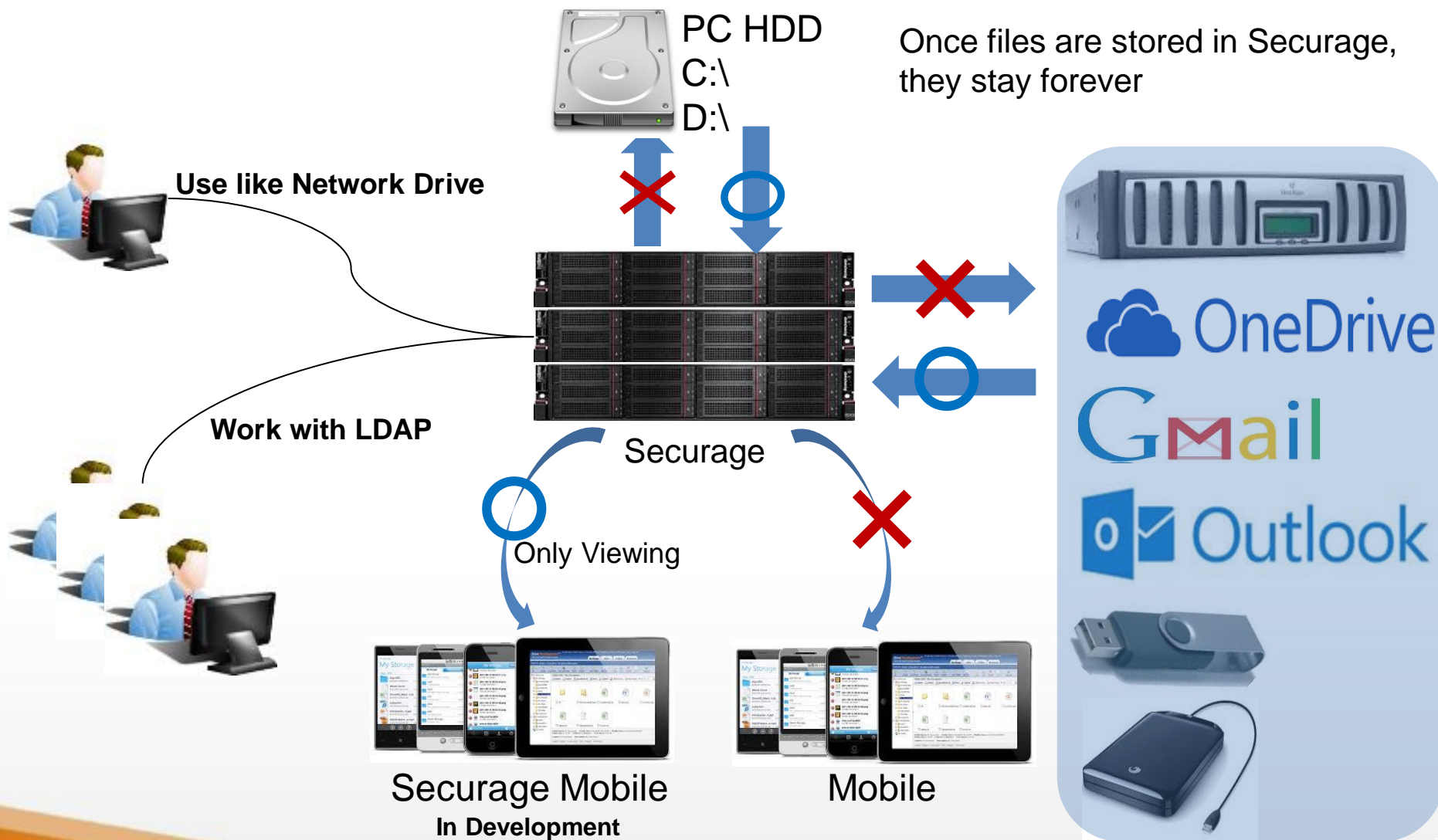


2-5. Securage is ...

- ❖ Securage is POSIX compliance Scale-Out NAS based on InfiniStor
- ❖ Securage files are Encrypted and DLP Protected
- ❖ Support MS-Windows and Linux



2-6. Securage can do ...



2-7. Securage architecture

Securage composed of 4 technologies

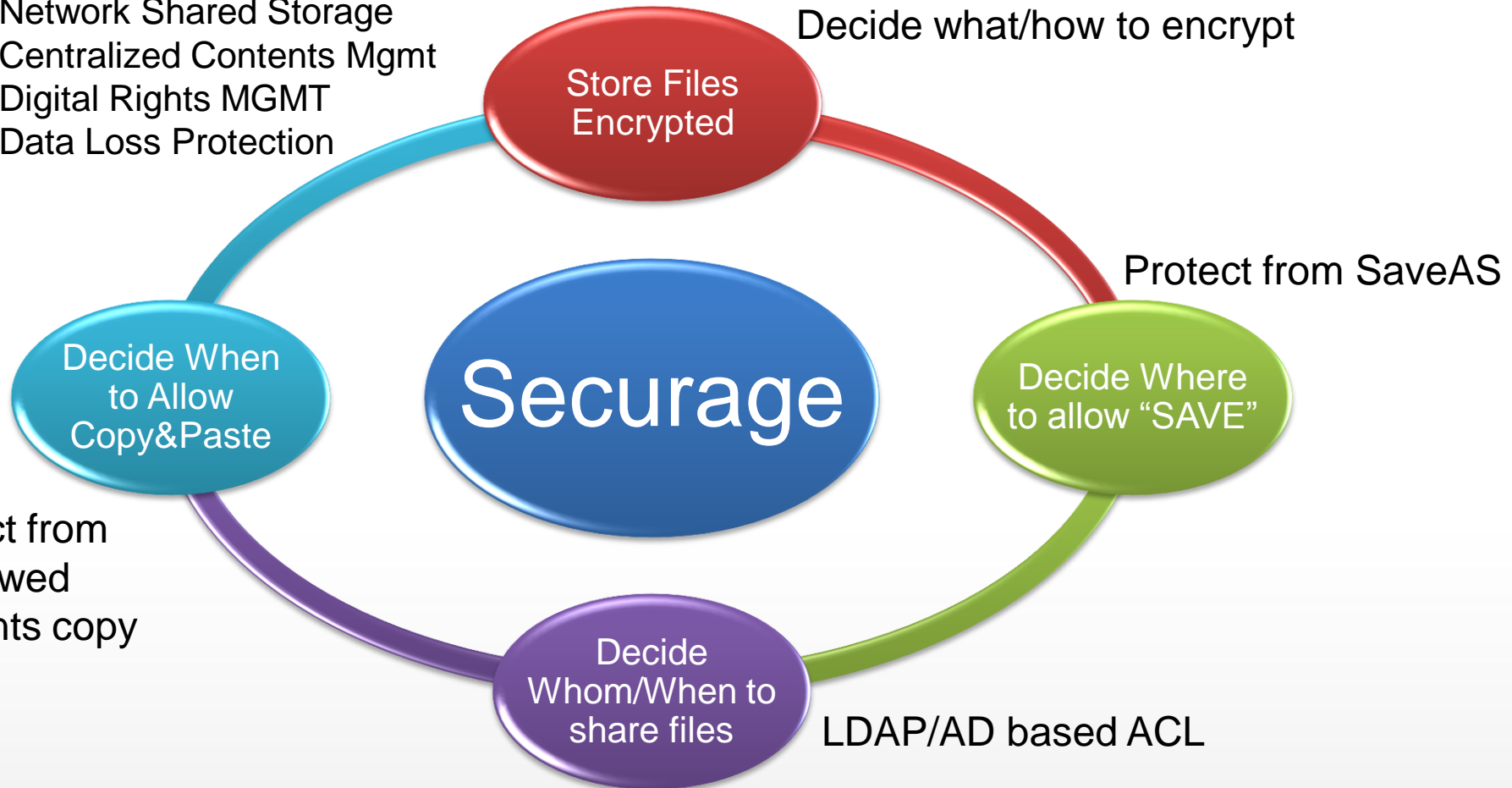
NAS: Network Shared Storage
 ECM: Centralized Contents Mgmt
 DRM: Digital Rights MGMT
 DLP: Data Loss Protection

Store files in NAS Storage.
 Decide what/how to encrypt

Protect from SaveAS

LDAP/AD based ACL

Protect from
 unallowed
 contents copy



2-8. Securage advantages

Securage protects files in Storage Level (single point)

NAS

DRM

DLP

ECM

- All user files are 1) encrypted, 2) shared by allowed users, 3) can not be leaked by ANYONE (even creators)
- Storage is only place security is processed (no need to install many SWs)
- All files are keyless to users/creators. Intentional file leak is protected
- Suitable in multi-shared work environment. Automobile, Semiconductor, Aero Space Design, large scale proposal team, ...
- All Users use the storage as normal network storage

Traditional systems tries to protect from PC level: system conflict occurs

DRM

- Can not be shared among users
- Can not be used in large scale works (Automobile,...)

Must install/maintain to all PCs

No single point of management

Solution upgrade is difficult

ECM+DRM or ECM+DLP can not

Be applied together

DLP

- File loss control only without encryption
- User level/Group level control is difficult
- Can not share files among users/groups

ECM

- Easy to manage, but difficult for users (can not use explore search)
- CAN NOT work with DRM or DLP

3. Works with Samsung

3. Samsung Server Cloud Service

- Samsung Cloud Services (since 2013)
 - FAST MOUNT (NAS) Services
 - Web Storage (Object Storage) Services
 - Used by many Samsung Companies



- SoFS: Samsung Owned File System
 - InfiniStor OEM
 - To-be Samsung Standard Storage
 - Sold as Samsung Branded Storage
 - Scheduled for Q3, 2016
- Samsung EFSS (Enterprise File Share Service)
 - Samsung's Document Management System
 - InfiniStor as Backbone Storage
 - Using FASTMOUNT & WSS
 - Securance in progress

To be deployed in SAMSUNG Semiconductor in Jul.

