



PoINT Software & Systems GmbH

# Tiered Storage and Archiving

by

PoINT Storage Manager



# PoINT Storage Manager

## Challenges

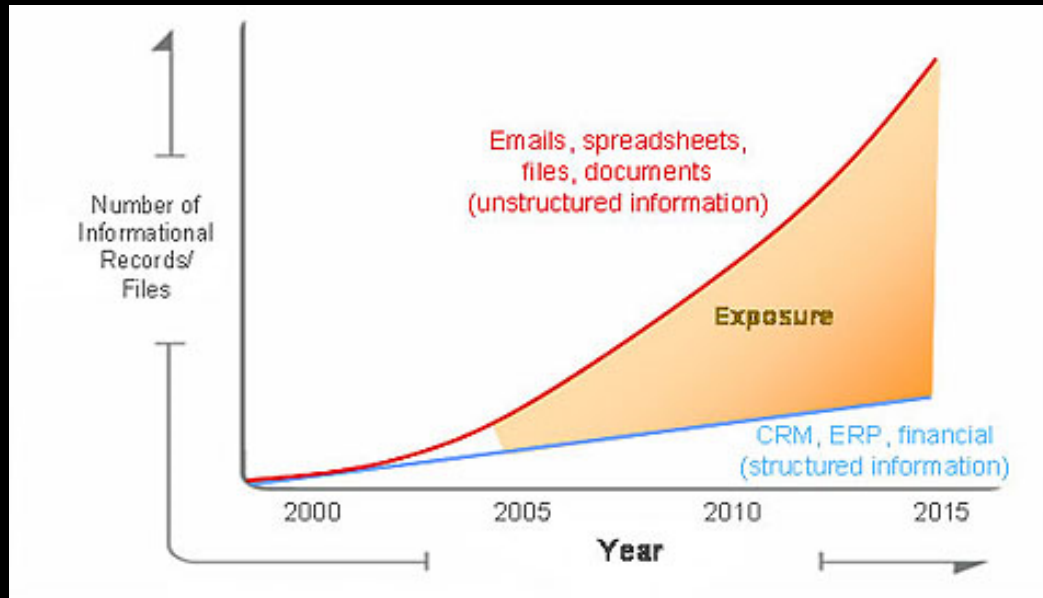
Tiered Storage

Sample Configuration

Advantages and Benefits

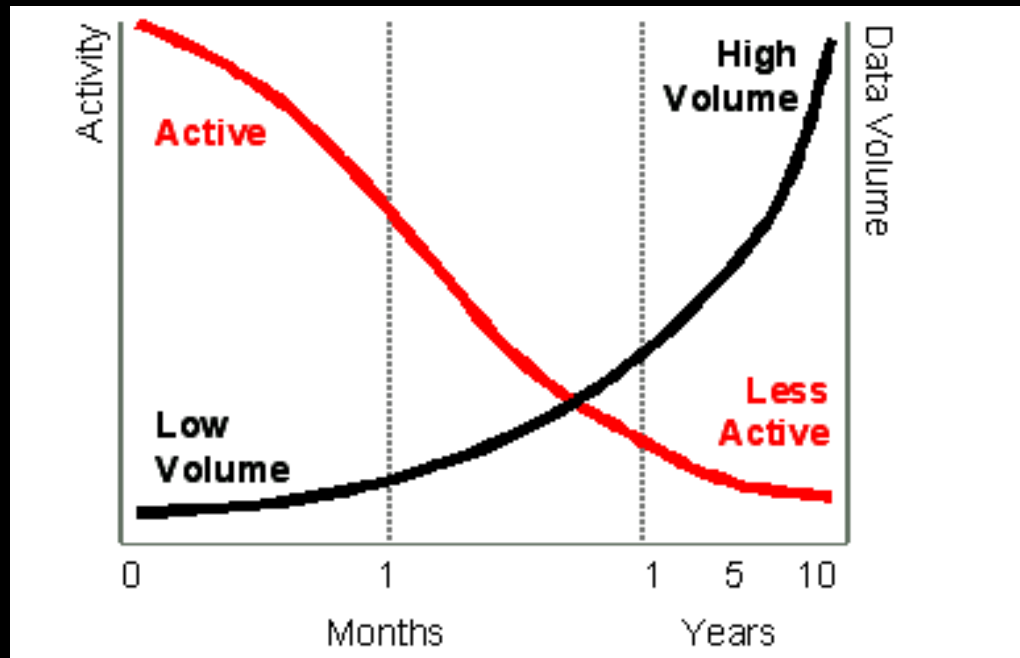
# Challenges

## Growth of unstructured data

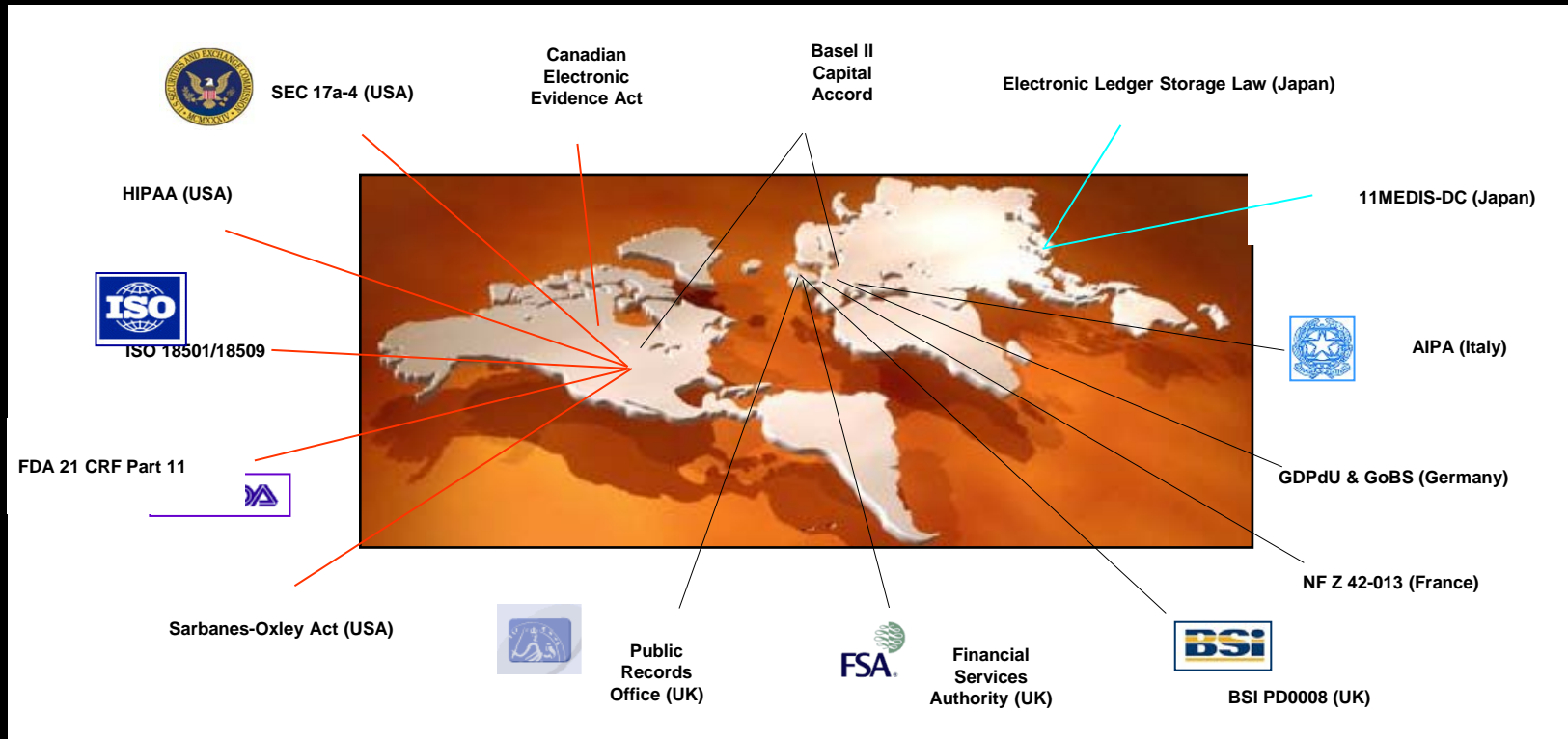


Source: Rational Retention Europe Limited

## Data life cycle



## Compliance



## Electronic Archiving - Motivation

### Legal

- **Compliance**
  - „Revisions sichere Archivierung“ (Germany)



### Technical

- **Off-load of primary storage**
  - Operating cost savings - “Green IT”

### Strategic

- **Centralized data management**
  - Ability to compete
- **Risk Management**



# Challenges

## Migration

### Conflict

Legal retention  
periods



Technological  
progress

# Challenges

## Migration

## Migration

Legal retention  
periods

Technological  
progress

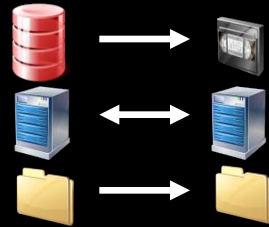
## Requirements

- prepared for new technologies
- uninterrupted access
- expandable

## Data Protection

### Methods

- Backup
- Mirroring
- Replication
- ...



### Aspects

- Consideration of different storage technologies
- Removable media
- Standards



# Challenges

Data Growth

Compliance

Migration

Data Protection



# PoINT Storage Manager

Challenges

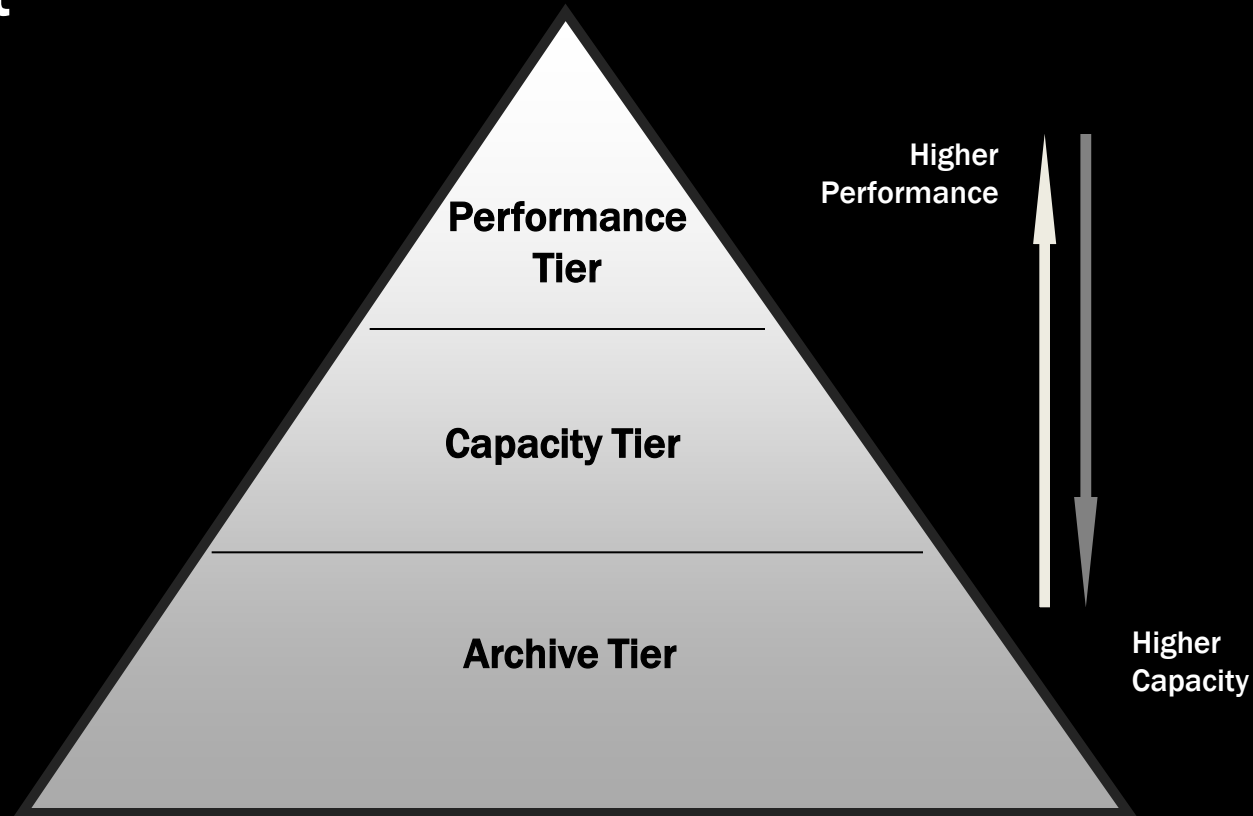
**Tiered Storage**

Sample Configuration

Advantages and Benefits

# Tiered Storage

## Concept



## Storage Technologies

SSD (Solid State Disk)

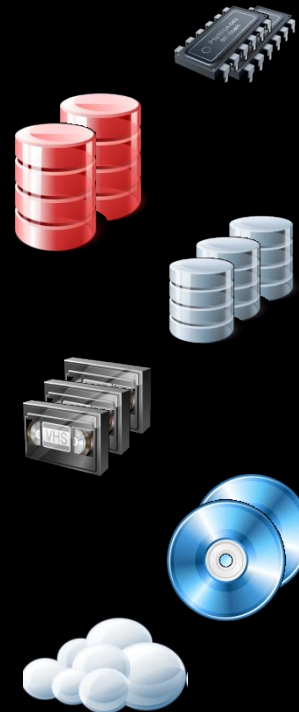
SAS/FC Disk

SATA Disk

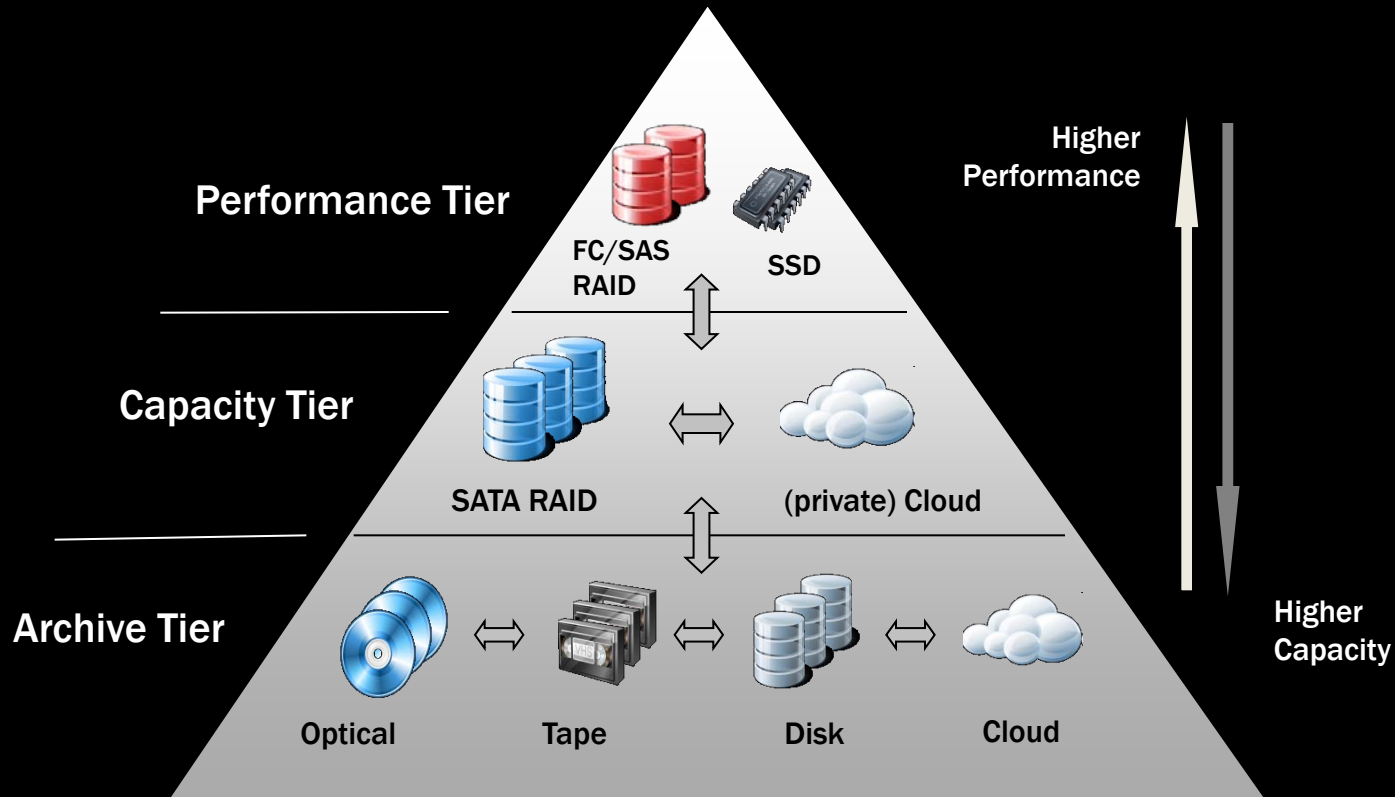
LTO Tape

Blu-ray Disc (BD) Optical

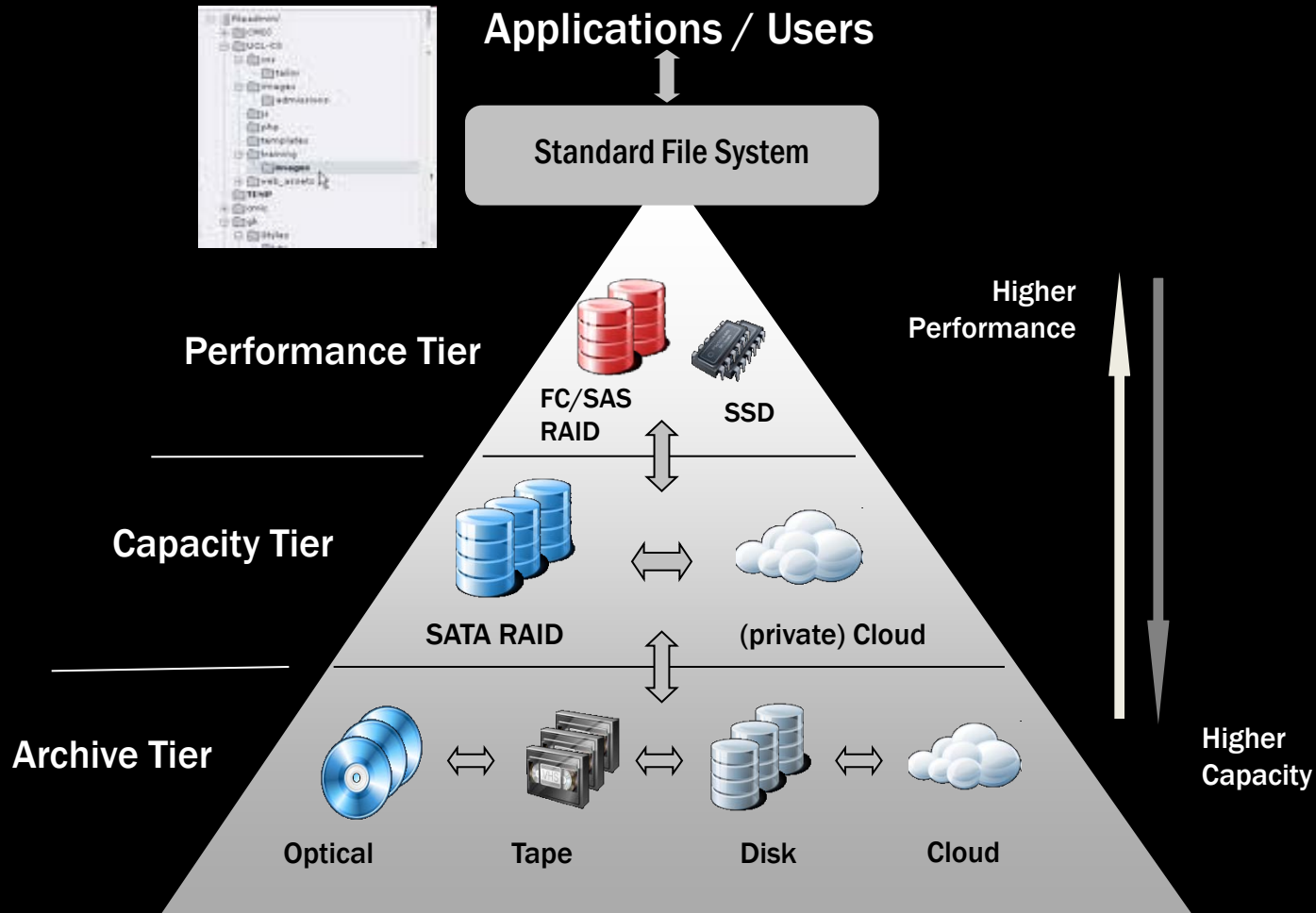
Cloud



# Tiered Storage



# Tiered Storage by PoINT Storage Manager





# PoINT Storage Manager

PoINT

Challenges

Tiered Storage

**Sample Configuration**

Advantages and Benefits

# Tiered Storage by PoINT Storage Manager

## Sample Configuration

Data Growth

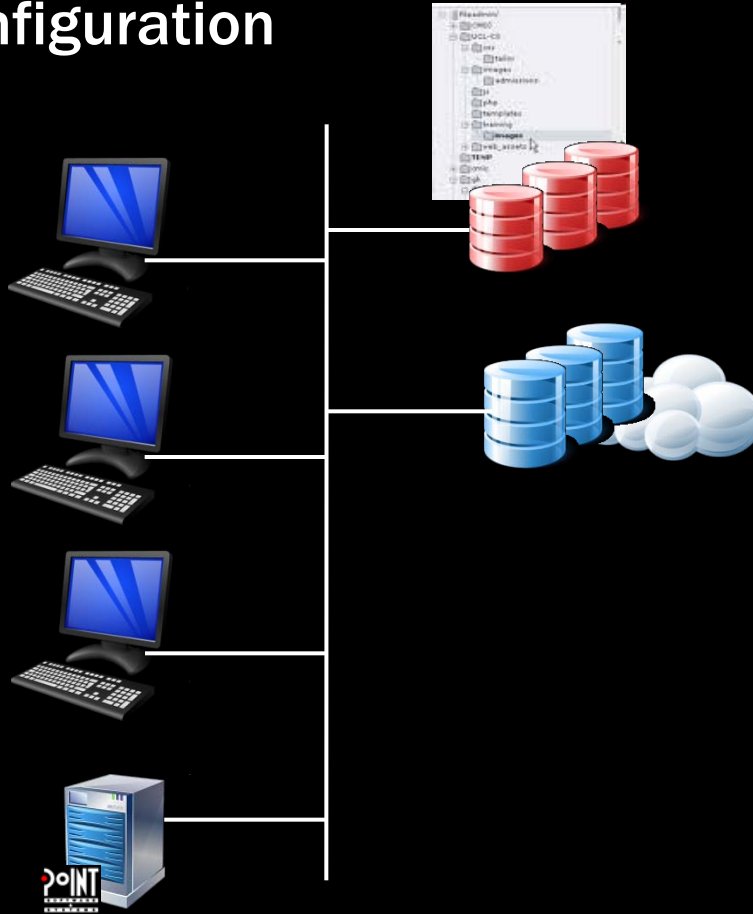


**Tier 1 – Performance Tier**  
FC/SAS Raid / SSD

# Tiered Storage by PoINT Storage Manager

## Sample Configuration

Data Growth



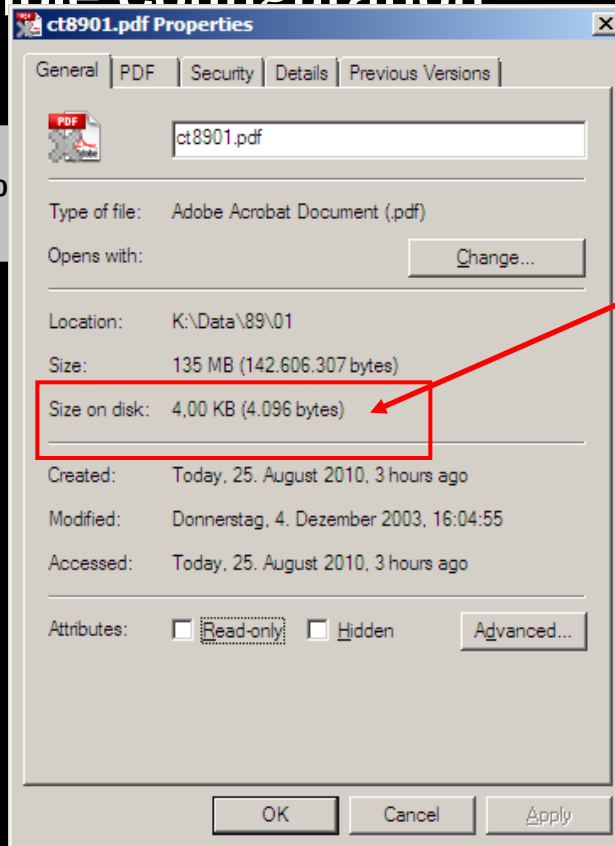
Tier 1 – Performance Tier  
FC/SAS Raid / SSD

Tier 2 – Capacity Tier  
SATA Raid / Cloud

# Tiered Storage by PoINT Storage Manager

## Sample Configuration

Data Group

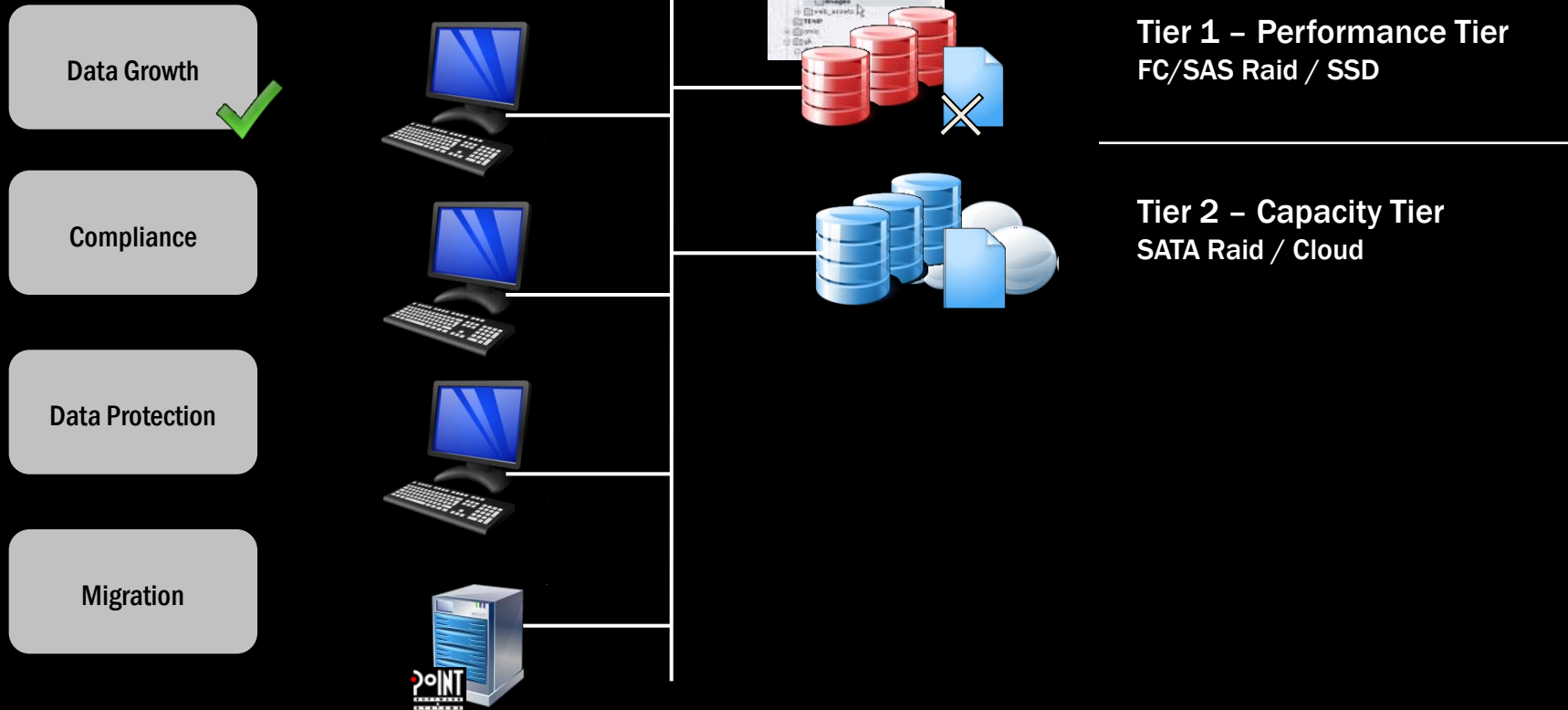


**Tier 1 – Performance Tier**  
FC/SAS Raid / SSD

**Tier 2 – Capacity Tier**  
SATA Raid / Cloud

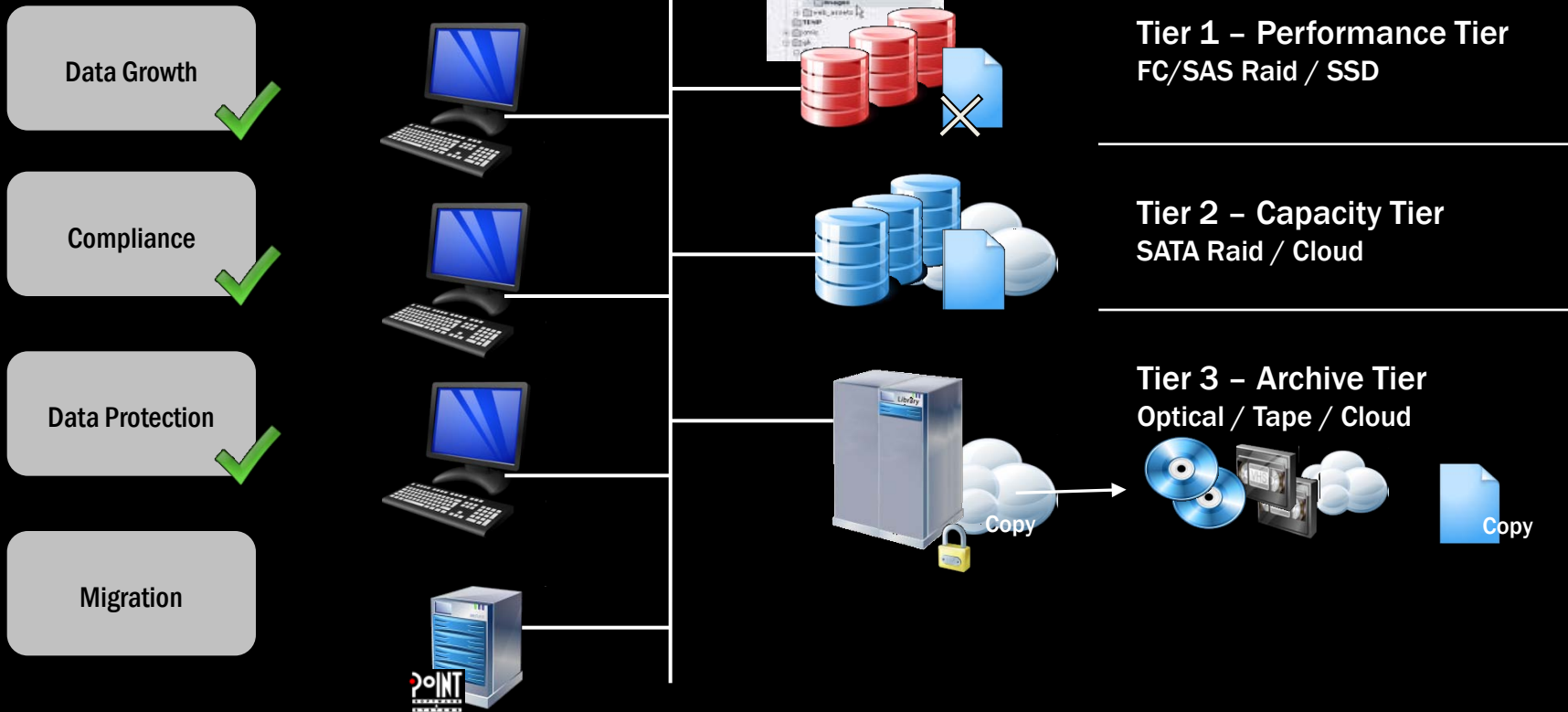
# Tiered Storage by PoINT Storage Manager

## Sample Configuration



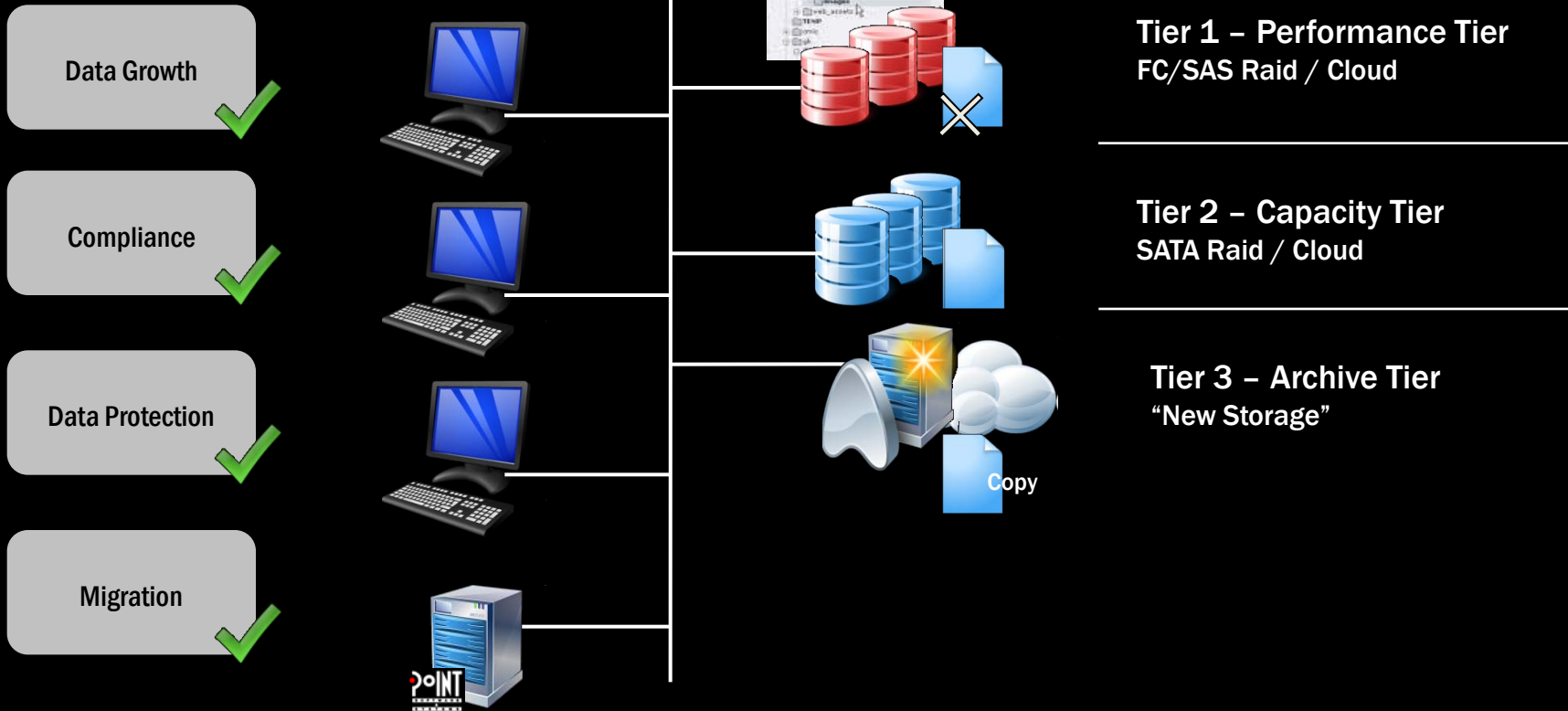
# Tiered Storage by PoINT Storage Manager

## Sample Configuration



# Tiered Storage by PoINT Storage Manager

## Sample Configuration





# PoINT Storage Manager

Challenges

Tiered Storage

Sample Configuration

**Advantages and Benefits**



# PoINT Storage Manager

## Advantages and Benefits

- Efficient usage of expensive primary storage by migrating inactive data to less expensive Tier 2 and Tier 3 storage
  - “Transparent Purging”
- Permanent availability of active data provided by Tier 1 file system
  - “Single Path Access“
- Reduced management effort by high degree of automation
  - “Policies“
- Uninterrupted operation of applications during data migration
  - “File Virtualization“



# PoINT Storage Manager

## Advantages and Benefits (cont'd)

- **Cost savings by reduced backup data volume**
- **Fulfilment of compliance requirements by Tier 3 - the "Archive Tier"**
  - **"Compliant Archiving"**
- **Cost savings as no third party software products are required for connecting tape and optical systems**
  - **"Native support of all storage technologies"**