

# **MPV**

# **P**ortable **S**torage Specification

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# Key Use Case #1



- ***Large capacity portable storage device***
  - ***Portable media player, portable HDD, DVD±R, Flash,...***
  - ***1GB to 1TB and more***
- ***Used by multiple devices and/or software***
- **To Which Personal Photo/Video Content is Repeatedly Added, Deleted, Updated**
  - **Camera unload**
  - **Create, modify albums & slideshows**
  - **Copy from another storage device**
- **Managing 500 to 100,000 or more files**
- **For Years and Years: Long-term storage & archive**

# Key Use Case #2

- ***Large capacity fixed storage device***
  - ***Internal HDD***
  - ***1GB to 1TB and more***
- ***Used by firmware / PC software***
- **To Which Personal Photo/Video Content is Repeatedly Added, Deleted, Updated**
  - **Camera unload**
  - **Create, modify albums & slideshows**
  - **Copy from another storage device**
- **Managing 500 to 100,000 or more files**
- **For Years and Years: Long-term storage & archive**

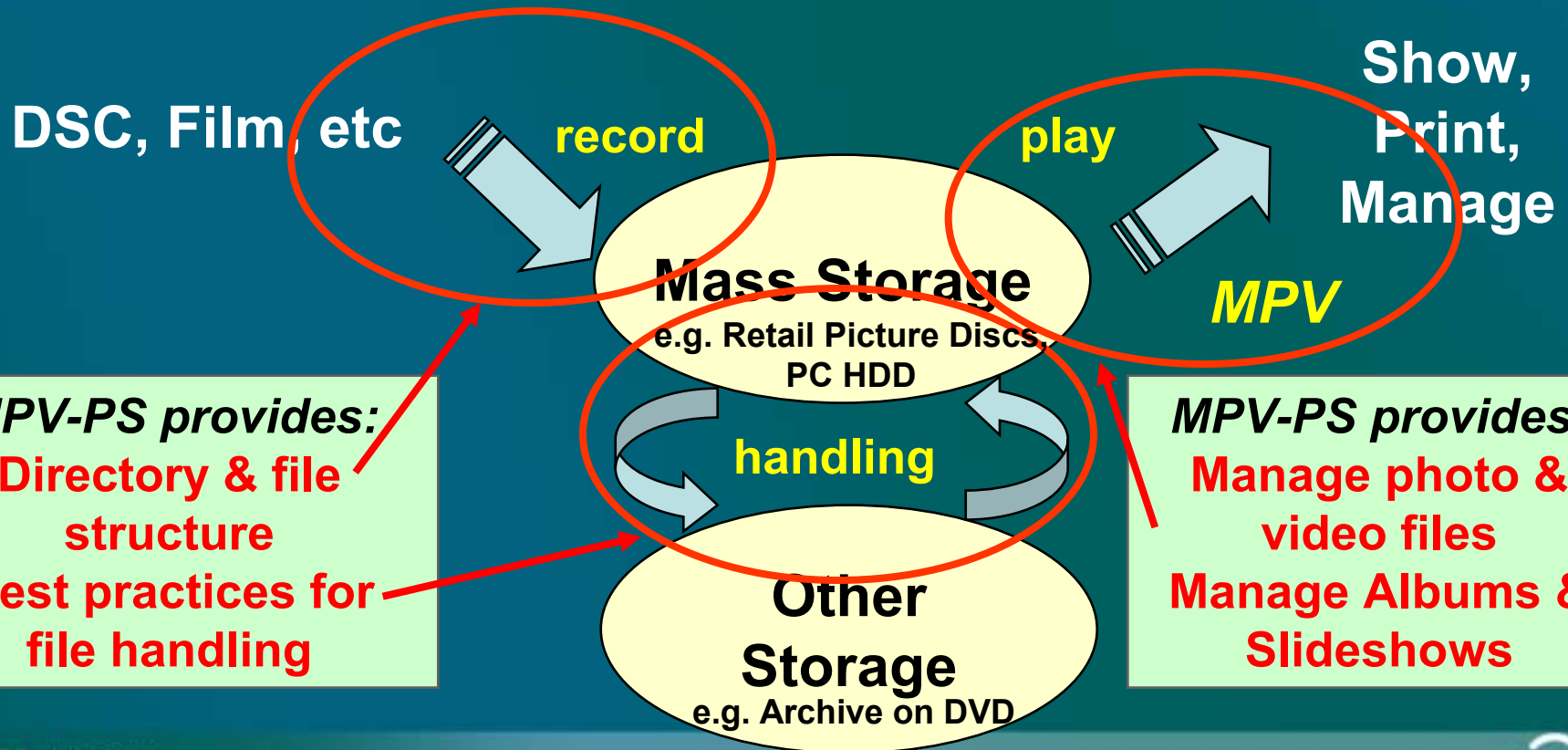


# **MPV-Portable Storage Specification Provides ...**

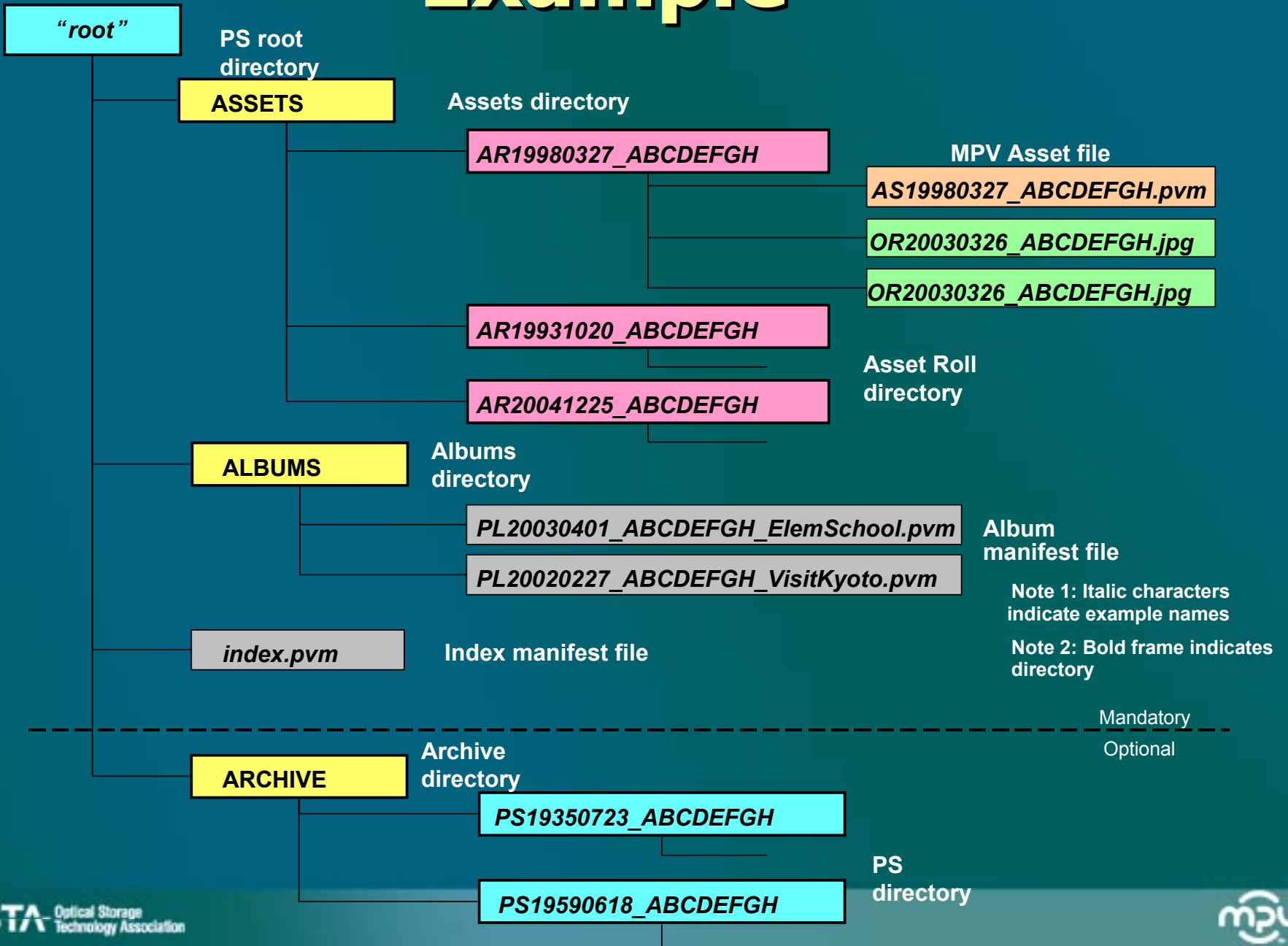
- **Standard directory tree structure**
- **Naming conventions (directory, file)**
- **Method for adding, modifying, deleting pictures and video assets**
- **Method for defining, updating, deleting albums with titles, picture info, and slideshow**
- **Procedure for combining or migrating one PS storage to another**
- **Interchange from/to DCF**

# What is MPV-Portable Storage For?

Specify how to organize and manage  
a large quantity of asset files over long time periods  
- Focused on personal photo/video content -



# Example



# MPV-PS Contents

- **Chapter 1: Introduction**
- **Chapter 2: MPV Portable Storage Specification**
  - Introduction, Scope, Terminology, Formal Language
- **Chapter 3: MPV Portable Storage – File System Structure**
  - Directories: PS Root, Assets, Albums, Archive (Optional)
  - PS Root Index Manifest File
  - Volume Name, PS System Detection
- **Chapter 4: MPV Portable Storage – File / Directory Management**
  - Copy Asset, Delete Asset, Move Asset, Edit Asset,
  - Copy Playlist, Delete Playlist, Move Playlist, Edit Playlist
  - Full Maintenance, Events that Initiate a Maintenance Operation
  - Importing: From PS System, From Non-PS system
  - Exporting: File and Directory by Alias (or Virtual Link), File / Directory Protection, Extra Files and Directories for Application,
  - Deletion of Asset Roll Directory
- **Chapter 5: MPV Portable Storage – Migration**
  - Migration by AR Directory Copy, Migration by PS Directory Copy
- **Chapter 6: Example of Importing and Exporting**
  - DCF/DPOF to PS system, PS system to DCF/DPOF
  - Film Scan Disk to PS system, Film Scanner to PS system

# Difference between DCF and PS

- **DCF**

- **Designed for short time recording**
- **8.3 format in directories and files**
- **Conflicts in copy and migration**



- **Portable Storage**

- **Uses long names for directories and files**
- **Designed for large & long term storage**
  - **Equivalent capabilities to DCF, plus more**
- **Reduce conflicts in copy and migration**
  - **Unique name** for each asset file
  - **Unique name** for each Asset Roll directory
- **Handling Rules for Import & Export with DCF**



# Potential Usage

- **Storage Device for pictures / video**
  - **Portable storage device**  
e.g portable HDD, large capacity memory card
  - **Optical media (CD / DVD / ...)**  
e.g retail photo discs, archive discs
  - **Home Server, Personal Video Recorder**  
e.g implementation of photo archive & backup
- **May Substitute for DCF**
  - **On large capacity memory card**

# Available Now



# What is Next?

Please implement

***MPV Portable Storage Specification***  
in your storage devices, media and  
services!