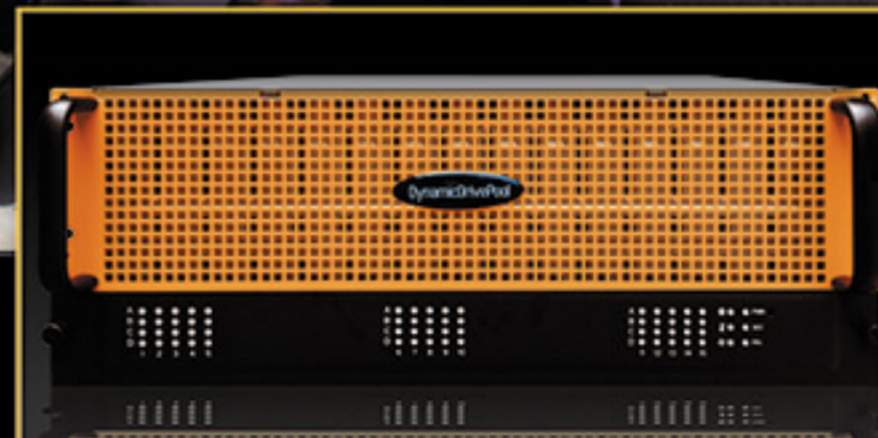


DYNAMIC DRIVE POOL

DDP



Ethernet based SAN systems with built in iSCSI/AVFS Technology



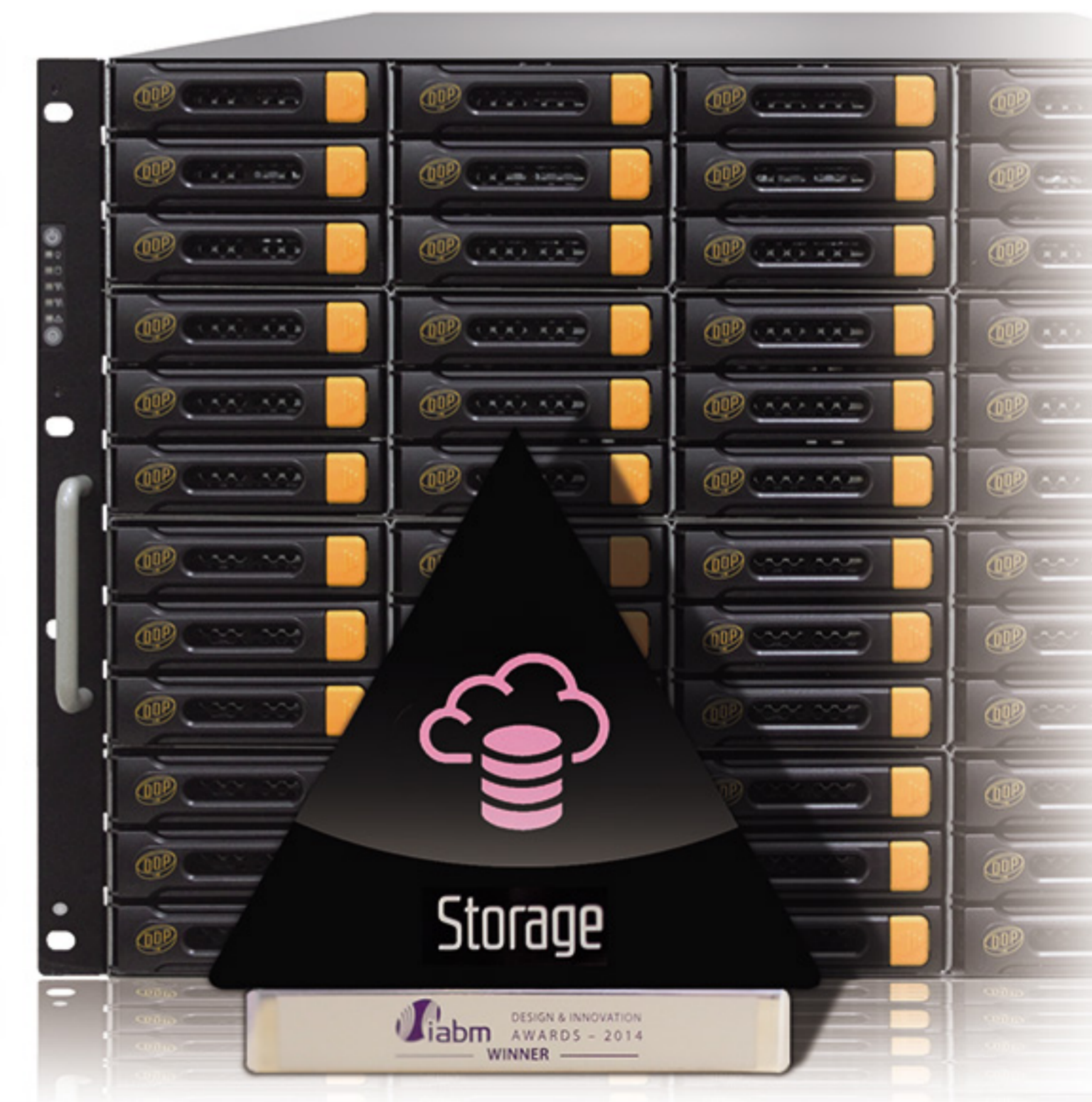
**SUPERIOR
SHARED
STORAGE
SOLUTIONS**

DDP - IABM 2014 Award winning storage

Experience the power and flexibility of the Dynamic Drive Pool

The DynamicDrivePool (DDP) is more than just a shared storage. It is a very fast, easy to manage use and maintain, and the most cost effective high performance IP SAN storage available today. The DynamicDrivePool is ideal for film, video and audio editors and producers, Web and multimedia developers, corporate communication departments, broadcast, government and educational organizations.

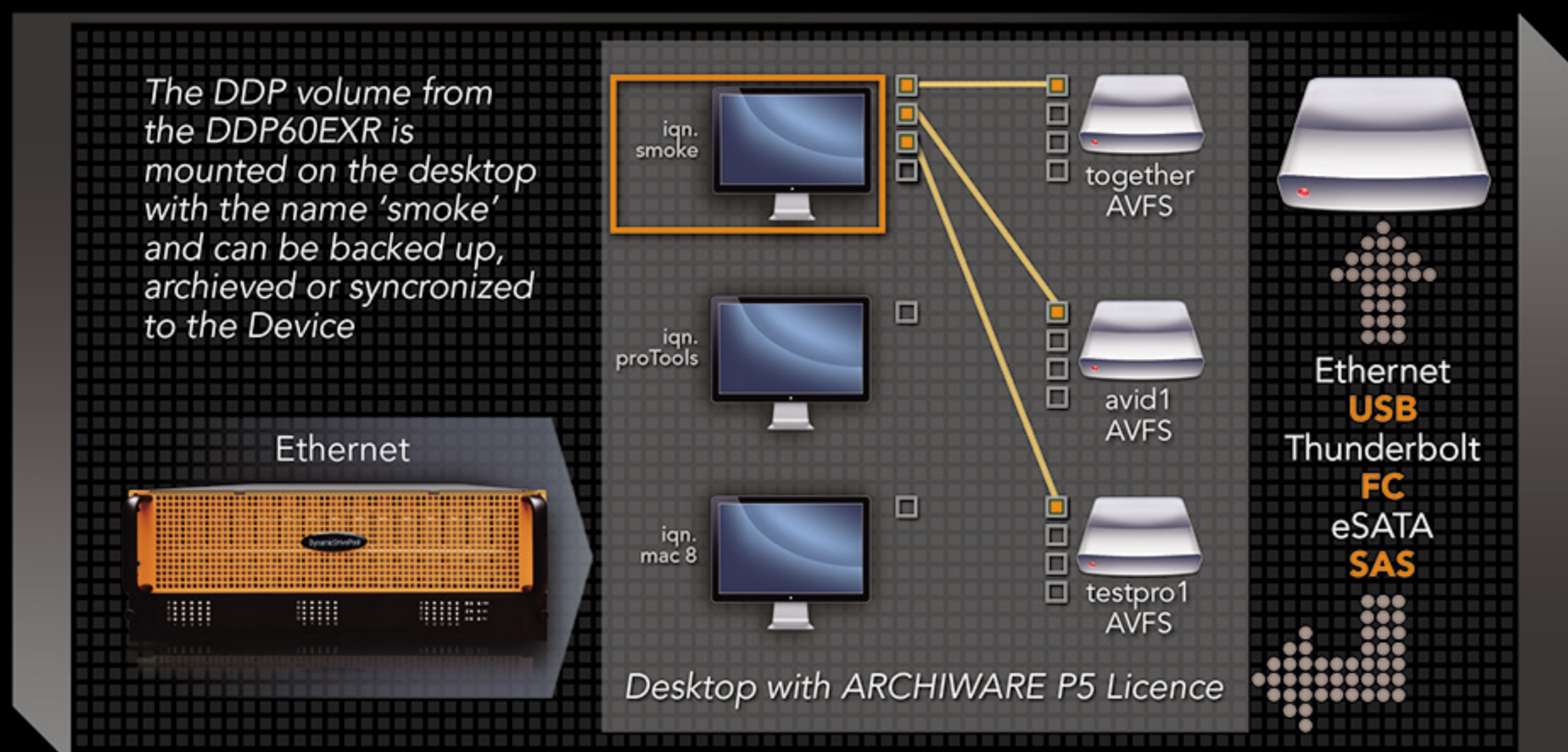
02	<i>Introduction / Contents</i>
03	<i>What is AVFS/iSCSI?</i>
04	<i>What is the difference compared to NAS? The AVFS Protocol explained</i>
05	<i>NAS disadvantage in professional Film, Video and Audio</i>
06	<i>Traditional SAN in a Film, Video or Audio environment. DDP the best of SAN and NAS</i>
07	<i>DDP series for Final Cut Pro and Premiere Editors</i>
08	<i>DDP as perfect storage for Avid.</i>
09	<i>DDP GUI and basic functions</i>
10	<i>Workflow Manager with folder access rights</i>
11	<i>Folder Volumes with Quota & AVFS2NAS</i>
12	<i>Archivare - the High-Performance Data Backup and restore solution</i>
13	<i>DDP Stream Count</i>
14	<i>standalone DDP Series</i>
15	<i>miniDDP series for ultimate DI workflows</i>
16	<i>Scalable Redundant DDP series with no single point of failure</i>
17	<i>mirrorDDP Series - clone data from production DDP for data availability and failover</i>
18	<i>DDP advantage and Special Features</i>
19	<i>An interesting project</i>
20	<i>Recent clients and contact details</i>



ARCHIWARE



Every DDP now comes with Archiware P5 pre-installed and the license for P5 Backup is included with the DDP hardware.



Every installation gains immediate professional grade Backup to LTO tapes - the technology used by large corporations, banks and broadcasters. Included P5 Backup license allows for backup to LTO tapes using a single tape drive.

An unlimited number of tapes can be written and P5 Backup keeps track of all tapes and files written. P5's Backup catalog can be searched and browsed using a web browser.

To connect the LTO tape drive to the DDP a SAS card needs to be in the DDP. The DDP can be ordered with the SAS card installed or the card can be ordered later and retrofitted. After activating and entering the license using the P5 setup assistant, the Backup can be configured and running within minutes including auto detection for LTO drives and libraries.

The resulting Backup plan can be modified and includes incremental, full and progressive Backup modes.

Server Backup to Disk and Tape P5 Backup



Versions & Snapshots
Interruptible Backup
User Restore
Long Retention & Offsite storage

Runs can be automated by scheduling within P5. Multiple tapes can be used sequentially with this license although the tapes must be changed manually. The Job Monitor shows each process with its status. Data can be transferred between the DDP and LTO with a speed of up to 160 MB/s. The included P5 Backup license can be extended for use with tape libraries for automation and multiple drives. Additionally, P5 Archive for migrating media offline can be activated simply by extending the license, with no further installation necessary.

P5 Synchronize is also available as extension for cloning DDP volumes for data availability.

- **P5 Synchronize clones DDP volumes to disk for data availability/failover. It includes use with unlimited storage capacity.**
- **P5 Archive offers long-term media and video archive including metadata, preview, searching and browsing.**

To integrate other servers or storage as data source, Server and Workstation Agents are available as extension.

DDP is Ethernet SAN

Ardis Technologies as iSCSI experts developed AVFS, the Ardis Virtual File System. iSCSI with AVFS is the technology behind the DDP. iSCSI is just like Fibre Channel, a block IO technology. But because iSCSI exclusively uses Ethernet there is only one network to consider.

1

MCS for double performance

Pairing of Ethernet ports resulting in bandwidth multiplication. It is not the same as bonding. Bonding does not give you a bandwidth increase per desktop. MCS does. Pairing of two 1GbE ports increase the bandwidth from 100MB/s to 200MB/s. Also 10GbE ports can be combined.

2

Unlimited Project and File based Sharing

Applications such as Media Composer, Final Cut Pro, Edius, ProTools, Fairlight, Nucoda and some others, come with a locking mechanism to prevent overwriting a project being open in read/write mode. DDP fully supports those locking mechanisms.

3

DDP is future proof

Any DDP of 3U or higher is expandable in capacity and bandwidth. The hardware components are standard of the shelf. DDP software is fully owned and continuously adapted and developed further. The company is owned by developers with no external ties.

10

4

Workflow Manager

It has never been easier to set and maintain access rights. Read/write, read/write no delete, read only, drop box and other rights can be set per DDP volume, desktop, user or group on folder level with inheritance. Users can also be controlled by Active or Open Directory.

DDP 5 Series

There are over 100 different DDP models. From systems with only 4 drives either with HDD or SSD equipped drives, up to fully redundant systems with no single point of failure and with up to 4.2PB in capacity. We have a DDP for every company and every budget.

9

5

Folder Volumes

On each DDP volume folders can be created. Any of those folders can be converted into a Folder Volume. This is then a folder with volume properties. This is useful for MAM systems or if multiple Avid MediaFiles directories are needed. Quotas can be set and Folder Volumes resized in real time.

QOS with Bandwidth Limiting

DDP bandwidth limiting can be set per desktop separately for read & write. But more importantly, the data rate entered in DDP's GUI is negotiated when confirmed. This means that there are no TCP/IP packet drops. As a result there is no network congestion.

8

7

Archware P5 Integration

The high-performance data backup and restore solution by Archware is pre-installed with every DDP and the license for P5 Backup is included with every DDP hardware. Connect to SAS equipped Tape streamer and you are ready to go.

6

AVFS2NAS module

Editors and other operators use the DDP as an Ethernet SAN by installing the iSCSI/AVFS drivers. So called office users can now access the same DDP volumes as NAS via SMB protocol. The desktops can be used as is without installation of drivers. SAN and NAS access rights are managed via the GUI.

