



Dynamic Drive Pool

EFFECTIVE AND POWERFUL STORAGE SYSTEMS

DDP - Dynamic Drive Pool is a multi-award-winning, IP-SAN-delivering full project and file level sharing in a single namespace with SSD caching, load balancing and automatic data redistribution, as well as a range of additional advantages including linear bandwidth scaling and mirroring.

All these features are available in one box and from one ethernet network - simple. DDP uses almost 100% of the available ethernet bandwidth.

DDP is a simple, affordable, high-performance storage solution dedicated to meeting the demands of film, video and audio users. It is packed with the most innovative technologies available for post-production and broadcast.

HETEROGENEOUS DDP CLUSTER CONFIGURATION WITH DDP OS V5

With the new V5 OS, DDPs can be clustered together so that when one system fails, all the data is still available. This technology enables clients and applications to continue



their operations without interruption. All clustered DDPs are able to act as a substitute for the one that failed, ensuring important data is still available. As data replication is carried on in the background, everything remains transparent for the client.

A task management interface lets you specify priority and choose data location among multiple DDPs, giving you control over where your files are stored and ensuring high/full availability. Not only does this technology provide advanced data availability by using two identical DDPs, it also doubles the throughput as users access them in parallel. Combining different DDP models is also possible and the throughput increases as the DDP cluster expands.

PROJECT SHARING

Whether you use Avid Media Composer, Premiere, Final Cut or Resolve, all editors can simultaneously work with the same media and projects, freely sharing materials and ideas, without the need of time-consuming set-up. This underlying technology is invisible so the creative editors, directors and producers can just concentrate on their work. Avid Media Composer bin locking is also supported thanks to DDP's Avid FS emulation and it works in the same way as it would on an Avid Unity/ISIS.

CACHING

DDP offers the most advanced method of SSD caching available in the market. While many other solutions offer one method of caching

based on the block level, DDP has developed a dynamic file-based caching. With on-demand, pinned and locked caching algorithms, DDP administrators can dynamically choose any of the caching methods to be assigned to any folder volume. These features offer the most performance options for live ingest and playout, transcoding and editing and the most demanding grading and finishing workflows. Where other solutions 'move' files in and out of cache, DDP's caching is based on its new Dual Path Technology (DPT). DPT 'copies' data in and out of cache so that when you're done using cache, the files are deleted instead of having to wait for another data move.

LOAD BALANCING

The V5 allows multiple DDPs on the same network to stream (and I/O) data in parallel controlled by one master DDP which holds the metadata. The master DDP tells all desktops connected to the network where to write or read the data to and from.

MULTIPLE CONNECTIONS PER SESSION

With the DDP MCS (multiple connections per session) you can combine several 1GbE, 10GbE, 40GbE connections for increased performance. By simply using two 1Gb/s ethernet cables between DDP and a client machine, you can double the usable bandwidth. This means you can playback 10bit HD uncompressed video 160-180MB/s with no drop frames. Other storage companies need to use either 10GbE or a fibre channel, making their systems more expensive to purchase and more complicated for the user to operate.

BANDWIDTH CONTROL

DDP offers bandwidth control on the iSCSI block IO level. It means that settings can be altered by the user so that bandwidth limits are subject to negotiation between the target and source. That way, upload and download bandwidth can be adjusted without any loss

of TCP/IP frames. Both upload and download bandwidth can be set independently on each desktop giving the user the reassurance of having complete control.

WORKFLOW MANAGER

For folder-based Access Rights permissions, the workflow manager has all the required Access Right management tools. Everything – from the creation of users and groups with passwords, to the assignments of specific DDP volumes for each of them and the assignments of specific permissions for (sub)folders – can be set up and configured exactly how you want them to work. Access Rights can be set for each folder for read, write and delete with every possible combination (read-only, read/write, read/write no delete, write only (Dropbox) and no access). Special rights such as extending the DDP volumes capacity, changing permissions and making DDP volumes available can also be specified so you are in complete control.

FOLDER VOLUMES

With the DDP, it is possible to assign volume properties to any folder or subfolder; hence the name Folder Volumes. With Folder Volumes, there is one namespace with any number of roots solving a common problem when editing applications. Other advantages include not having to move data across the DDP volumes when using Folder Volumes.

QUOTA CONTROL

This is a very useful function as it enables you to modify (at any moment and in real-time) the available space a user can see and use for a given folder volume. When you need extra space on a folder volume, the quota size can be increased temporarily and then set back to its original value whenever you are ready.

MEDEIS MAM & PAM: SUPERCHARGE YOUR MEDIA

DDP is exclusive OEM partner of Medeis, the UK-based company which enable you to



Kuwait TV with over 1PB capacity including SSD cache.



MTV (Viacom) fully redundant system with SSD Cache.

view, tag, search and share your entire media with all industry standard video applications. Creating proxies can be done on the fly and all processes from ingest to playout can be fully automated with additional Medeis modules. All DDPs integrate the Archiware P5 which is a complete software solution for data backup, synchronisation and archiving.

The standalone, scalable DDP series comes with a free licence of P5 backup for professional grade backup to LTO tapes. LTO tapes are the chosen technology used by large corporations, banks and broadcasters. P5 allows data backup to LTO tapes using a single tape drive; unlimited number of tapes can be written and P5 Backup keeps track of all tapes and files that are written.

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