

AVFS – High Availability File System for M & E Dual HA AVFSHead

AVFS comes installed on the Dual HA AVFSHead & can be combined with third party storage arrays



AVFS stands for the Ardis Virtual File System. The file system has been developed in house. AVFS has been under the hood of DDP Ethernet SAN shared storage systems for almost a decade now. It has evolved into a professional high availability scale out SAN file system.

Now Ardis Technologies has decided to offer AVFS as a separate product. AVFS comes pre-installed on a two nodes system called the Dual HA AVFSHead and can be managed via its web interface. AVFS can be used with storage arrays with FC, iSCSI, NVME-oF/RDMA and Infiniband.

The amount of files and folders it can hold depends on the amount of RAM. The Dual HA AVFSHead comes standard with dual 10/25GbE/SFP28 ports. For FC or Infiniband FC or Infiniband cards are also needed.



Notable features of AVFS are high availability, file based caching, folder based access rights, transparent internal data moving, parallel data access, scaling of capacity and or bandwidth, hardlink support, web interface optimized for M & E.

Special features are:

1. M & E files are mostly large and unstructured. Caching with these works best when it is file based.
2. Normally access rights are file based. This adds unnecessary complexity for M & E. Therefore AVFS uses folder based access rights.
3. No matter the size there is always just one AVFS file system with folders and files.
4. To have mountable volumes folders can be given

volume properties. These are called folder volumes.

AVFS is currently certified for raid arrays from Infortrend, Seagate and Pure Storage. For others please ask. The Data Locations (LUNs) from the storage arrays are connected directly to each computer. Therefore the bandwidth of a system is the combined bandwidth of all Data Locations. The AVFS driver installed on the computers assure that folder volumes can be mounted.

When a complete system is ordered it is configured, tested and shipped, ready to be used. Alternatively qualifying dealers can purchase the Dual HA AVFSHead separately and integrate this with their storage arrays.