# EFS60NL

## Enterprise class, distributed scale-out storage designed for the most demanding collaborative media environments

### A heritage of storage innovation

For over a decade, EditShare has delivered high-performing, scalable shared storage solutions that enable media professionals to create outstanding content. EditShare media storage solutions have increased productivity at over 3,500 media enterprises around the globe.

The EFS product line from EditShare is an enterprise-grade storage system that's optimized from the ground up for working with media files. It's fast, completely scalable, and highly resilient to data loss from hardware failure. EditShare does the hard stuff under the hood so that creative people can get on with their job without worrying about data safety, formats, or even technical quality control.

### Introducing the EFS 60NL

The EFS 60NL is an ultra high-density storage node that's intended for parking media that still needs to be accessible almost instantly but doesn't need the extreme speed called for in the middle of an online production workflow. At almost three times the density of previous EditShare nearline platforms  It's the ideal product to save material you know you're going to need soon but not right now. Because of this, it costs significantly less than production-speed storage and still has all the robustness, reliability, and unique features of EFS.

Add EFS 60NL storage nodes to an existing EFS shared storage cluster and move unused media assets and project components to free up your valuable online storage. Doing so takes advantage of the EFS "Storage Node Group" concept which permits users to assign media spaces to a specific set of storage nodes and define how the files in the media space are protected.

It's easy to use because EFS 60NL  can use the same namespace as EFS production/online storage, which means there are no complicated procedures or routines to move content between systems. You don't even need to import or export. It's all just there - in the same place.

Moving media spaces from one storage node group to another is as simple as defining a new EFS replication goal and the EFS cluster then moves the content in an unobtrusive manner.

### EFS Native Erasure Coding

The 60NL is the first EditShare product to use native erasure coding, without the need for hardware-based RAID. Some of the benefits of this inclue:

- Faster rebuilds
- More even capacity scaling
- More flexibility in picking protection schemes
- Greater than single node protection failure depending on goal details chosen.
- Future Hardware flexibility

### Independent cluster support

A low cost, fully independent storage cluster can be created by combining an EFS metadata node — or a pair of metadata nodes for high availability — with one or more EFS 60NL storage nodes. Replicating content is easily accomplished with the EditShare Swift Sync Tool.

### Software Specification

- EditShare OS based on Ubuntu 64-bit
- EFS Native Client driver for Windows, Mac OS, and Linux, additional support for SMB.
- Stand-alone Metadata Controller required for more than three storage nodes of any type in a cluster.
- FLOW requires separate hardware & software licenses.

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# EFS 60NL Product Information


Front


Rear

## Hardware

- Based on HPE Apollo 4510 Gen 10 Rack-mountable 4U server with 60 HDDs

- Dual Intel Xeon Processor

- Operating System (OS) Drives: 2 x SSDs, hot-swappable, front-accessible, RAID-1 protection (1+1)

- Storage disks: 60 x enterprise-grade HDDs in 18 TB capacity, hot-swappable, front-accessible

- 12Gb/s SAS controller

- Hot-swappable Power Supplies, Media Drives and OS boot disks.

- 3+1 hot-swap power supplies, 5 hot-plug fan modules included

- Dual x 1 Gb on-board ports included

- 10GBASE-T, 10 GbE SFP+, 10/25G SFP28, and 100/50/40G QSFP28 NIC options available

- Two dedicated ports for iLO & IPMI

## Hardware Warranty Options

· 2-hour response 9x5 (standard business hours) Next business day on-site attendance. For EFS 60NL.

· 15-minute response 24x7 for severity 1 incidents (direct connect to product specialist where available) 24x7 4-hour on-site attendance.

· 3 year and five year options available

· Defective Media Retention (DMR) options available

## Technical Specification

### Electrical

| Input Voltage | 100-240 VAC, 100-127VAC |
|---|---|
| Input Frequency | 50-60 Hz |
| Power Consumption | 800 W |

### Dimensions

Height/Width/Depth

6.92 x 17.64 x 36.52in (17.58 x 44.80 x 92.76cm)

Notes: Rack chosen is required to have 1075mm depth to provide space at the rear of the chassis and host PDU in the rear of the rack.

### Weight

| Weight | Minimum (empty) 131 lbs (59kg) Maximum (full loaded) 227 lbs (103kg) |
|---|---|

## Environmental

| Operating Temperature | 50° to 95° F (10° to 35° C) at sea level with an altitude derating of 1.8°F per every 1000 ft (1.0°C per every 304.8 m) above sea level to a maximum of 10,000 ft (3048 m), no direct sustained sunlight. Maximum rate of change is 18°F/hr (10°C/hr). The upper limit may be limited by the type and number of options installed. |
|---|---|
| Operating Humidity | 10 to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, non-condensing. |
| Storage Temperature | -40° to 158° F (-40° to 70° C) Maximum rate of change is 36°F/hr (20°C/hr). |
| Storage Humidity | 5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing. |


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