Qsan Document - White Paper

Unified Storage Video Editing Solution

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Introduction

Video editing is one of the most demanding tasks you can execute on a computer. A modern video editing application usually requires high performance from CPU, RAM, GPU, as well as storage. Apart from local and directly attached external storage devices, especially when it comes to occasions where extremely big capacities and connection flexibility both need to be considered, using SAN or NAS storage devices is only proper solution. Furthermore, comparing to SAN products, the NAS storage's file sharing nature can eliminate the need of using sharing storage configuration software when the content stored on a particular destination has to be accessed simultaneously from multiple clients.

Configuration

To meet the growing demand in video editing application market, we have designed and tested the new announced TrioNAS LX U300 product to fit the requirement. It is featured with several pre-set application modes for end users to configure the storage to fit different application scenario, simply by selecting desired application mode and the changes will take effect immediately, totally hassle-free! While the video editing profile has been optimized for video streaming and editing purposes, the TV broadcasting and surveillance profiles work in similar ways and will be further adjusted in the later stage.
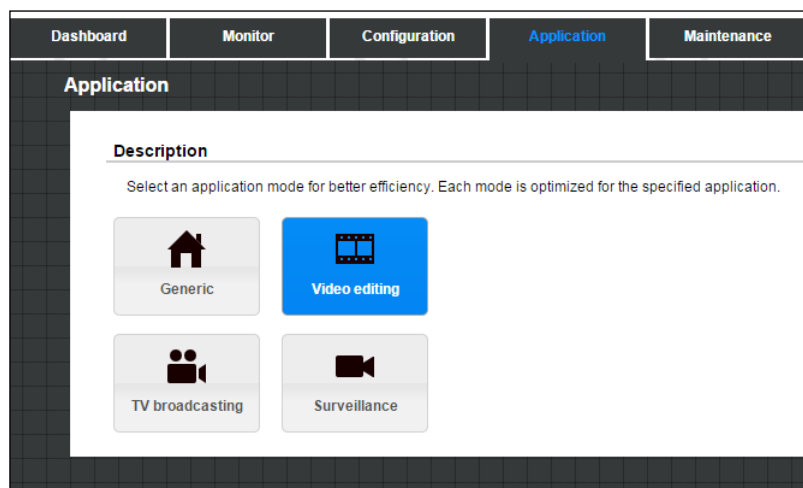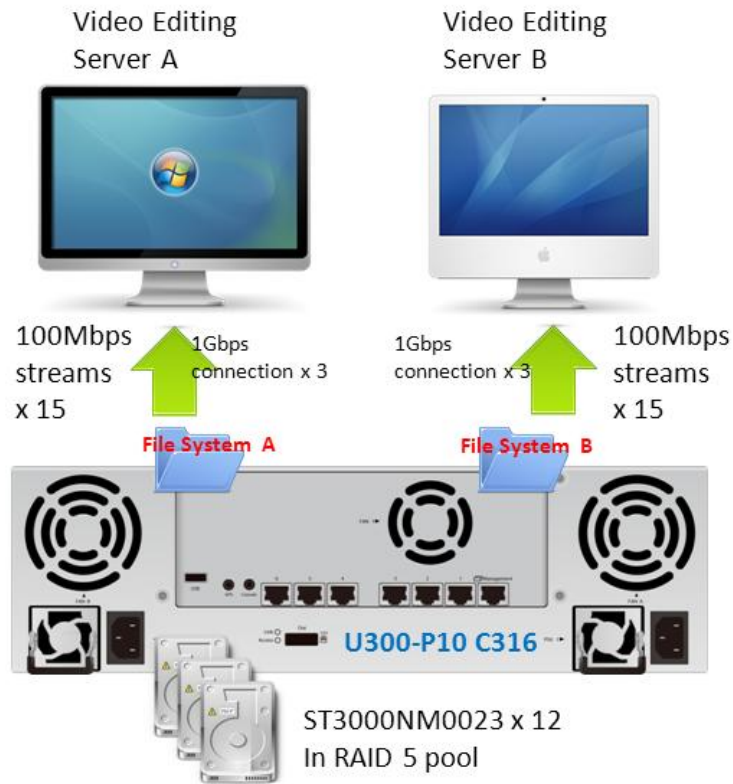

Environment

Host	Intel Xeon® CPU E5620, 2.40GHz, 32GB RAM (x2)

Host OS	Windows 2008 (x2)
Storage	U300-P10-C316 (E3, 32GB)
Controller Firmware	V1.4.0
HDD	Seagate ST3000NM0023 (x12)

Diagram

Test Result

Based on internal testing results from the lab, the TrioNAS LX U300 is capable of delivering up to thirty 100Mbps streams simultaneously and accepting up to thirty-six 100Mbps incoming streams for writing purposes based on CIFS/SMB service. The test was conducted based on several video editing projects from global customers, and has been performing well in the field site. Therefore U300 is a high-performance and cost-effective shared storage solution in the video editing/post production application with up to 5~10 workstations, each read/write multiple compressed HD streams from/to the U300.

Summary

We have tuned up for video editing solution, this may increase the performance for the application.

Applies To

- TrioNAS LX U300: FW 1.4.0

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