Solution Overview for Demanding Digital Media 10Gb iSCSI Workflows

Huawei provides fast, reliable, easy-to-deploy solutions for imaging, streaming video, and rich media content applications. When including ATTO's FastFrame NICs and Xtend SAN iSCSI Initiator this solution will provide a broad range of high-performance options for connecting Windows®, Linux® and Mac OS® X systems to scalable Huawei OceanStor storage.

Huawei & ATTO Solution Benefits

Huawei is a global solutions provider dedicated to customer-centric innovation and strong partnerships to provide maximum value and competitive solutions and services. By partnering with ATTO, Huawei is able to offer Windows, Linux and Mac workstations 10Gb iSCSI access to Huawei scalable storage solutions, providing the advantages of a SAN on a manageable budget.

OceanStor Storage System

Enterprises are faced with problems of system performance bottle-neck, long downtime when expanding capacity, unbalanced cold and hot data management, and high TCO. The Huawei OceanStor Storage Area Network (SAN) series is a family of products that aim to meet these storage requirements. It includes entry level, middle range high performance and enterprise level storage. This storage is capable of delivering leading performance, enhanced efficiency, maximized return on investment, and all-in-one solutions. Ideally OceanStor Storage is applicable to scenarios such as large-database, high performance computing, digital media, internet applications, central storage, backup, disaster recovery, and data migration.

Broad range of connectivity options

ATTO's FastFrame family of Network Interface Cards provide high performance 10Gb Ethernet connectivity from Windows, Linux and Apple® servers and workstations to Huawei storage using the iSCSI protocol. FastFrame NICs feature a choice of either SFP+ or RJ45 connectors, so customers can use either optical or twisted-pair copper cabling as they prefer. FastFrame NS-model SFP+ NICs include high-quality SFPs, to avoid issues with incompatible or low-quality SFPs, while 10GBASE-T NICs feature RJ45 connectors to connect via the widely deployed Cat6 or Cat6a cabling familiar to networking professionals. Both are backwards-compatible with GigE switches and ports, to ease phased upgrades.

ATTO Xtend SAN iSCSI Initiator for Mac OS X

ATTO Technology's Xtend SAN iSCSI Initiator for Mac OS® X was the first, and is the most widely-distributed iSCSI initiator that allows Mac users to attach directly to storage connected via an Ethernet-based network[1]. Xtend SAN can be used to provide iSCSI SAN connectivity, error handling, and security for tested connection to Huawei Storage systems. Xtend SAN is fully supported and updated as new versions of Mac OS X are released so downtime is never an issue. Customers using ATTO's FastFrame or Desklink products together with Xtend SAN can:

- Connect multiple Macs directly to high-end Huawei storage
- Use the connectivity option that best suits their needs
- Access shared storage over long distances to support storage consolidation and reduce the burden on local IT staff

Multiple Hosts Able to Share Connection to Huawei Enterprise Class Scalable Storage

Huawei and ATTO Technology are working together to provide solutions that allow Windows, Linux and Mac workstations, servers, laptops and all-in-one computers to connect to the OceanStor class of enterprise storage. iSCSI can be used over the computers built in 1Gb Ethernet link or with ATTO's 10Gb Ethernet Network Interface Cards to create an iSCSI SAN in where multiple computers can share and collaborate to increase productivity while preserving security and ease-of-use. With iSCSI, small businesses and workgroups can take full advantage of a SAN environment, even with limited IT budgets and resources.

1: An iSCSI initiator is not built into Mac OS

Solution Highlights

- Connects Mac OS X, Linux, and Window workstations to feature rich high performance storage.

- Provides low latency and high performance for media intensive video streaming environments.

Access SANS over long distances for storage consolidation

Small-to-medium sized enterprises, corporate and academic campuses, and large enterprise branch offices, all share the need to move and access large amounts of data for imaging and editing applications. They're also looking for the economies achieved by consolidated storage and efficiencies for IT staff. The Huawei-ATTO solution answers these needs by providing scalable storage from Huawei together with ATTO FastFrame's reliable access via iSCSI.

Hardware

Huawei Products Supported:

- OceanStor S2600T
- OceanStor S5500T
- OceanStor S5600T
- OceanStor S5800T
- OceanStor S6800T
- OceanStor S8100

ATTO Products Supported:

- FastFrame 10Gb Ethernet quad port (FFRM-NS14) PCIe 2.0 x8 network interface cards
- FastFrame 10Gb Ethernet dual-port (FFRM-NS12) PCIe 2.0 x8 network interface cards
- FastFrame 10Gb Ethernet single-port (FFRM-NS11) PCIe 2.0 x8 network interface cards
- FastFrame 10GBASE-T dual-port (FFRM-NT12) PCIe 2.0 x8 network interface cards
- FastFrame 10GBASE-T single-port(FFRM-NT11) PCIe 2.0 x8 network interface cards

Host Hardware:

- Mac workstations, servers, all-in-ones, and laptops

Software:

- ATTO Xtend SAN iSCSI Initiator for OS X, ATTO Config Tool, Apple Xsan or Quantum StorNext shared file systems
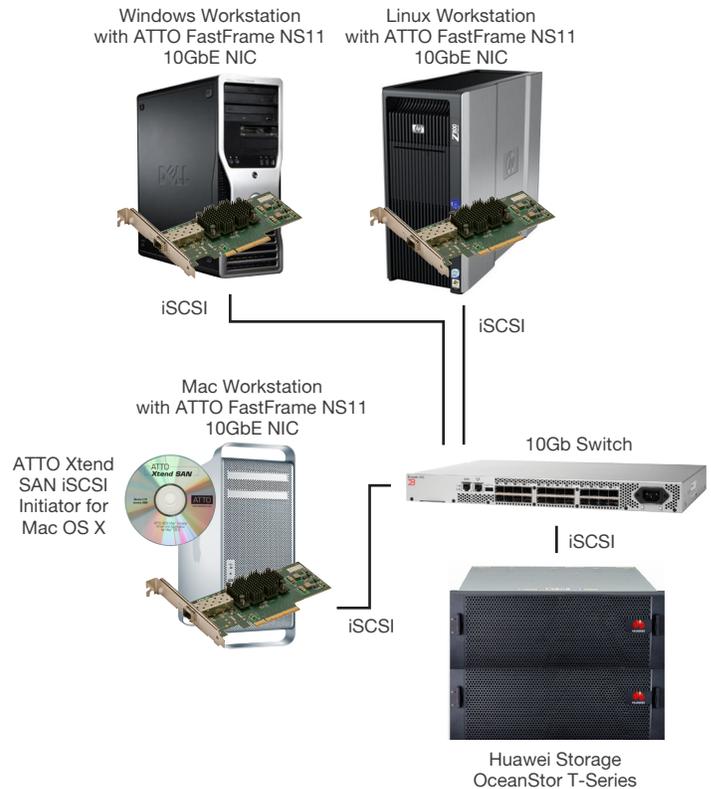
Industry Focus

- Media and Entertainment
- Healthcare
- Oil and Gas
- Education and Government
- Scientific and Technical
- Digital Asset Creation

For More Information

www.attotech.com/solutions/Huawei

www.huawei.com

Windows Workstation with ATTO FastFrame NS11 10GbE NIC

Linux Workstation with ATTO FastFrame NS11 10GbE NIC

iSCSI

iSCSI

Mac Workstation with ATTO FastFrame NS11 10GbE NIC

ATTO Xtend SAN iSCSI Initiator for Mac OS X

10Gb Switch

iSCSI

iSCSI

Huawei Storage OceanStor T-Series

About Huawei

Huawei is committed to providing high-value and customer-oriented services and solutions which can decrease operation and maintenance costs and increase return on investment. Huawei seeks to provide customers with a series of safe data storage solutions, utilizing Huawei's advantages in such fields as data network, enterprise communication, server, storage and security.

About ATTO

ATTO Technology is a global leader of storage connectivity and infrastructure solutions for data-intensive computing environments. ATTO provides solutions that help customers store, manage and deliver data more efficiently.