



Adaptec InterOperability Test Report

ICY DOCK Internal Storage – Multi Bay MB454 and MB455 SATA Enclosure

Tested with: **Adaptec Serial Attached SCSI 48300**
Adaptec Serial ATA II RAID 2820SA
Adaptec Serial Attached SCSI RAID 4805SAS

Prepared by Dung
Adaptec InterOperability Test Lab (ITL)

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Summary of Results

The **ICY DOCK Internal Storage – Multi Bay MB454 and MB455 SATA Enclosure** has passed Adaptec's InterOperability Test Suites for the Adaptec products detailed on page 4 with the hardware and operating system configurations detailed on page 7.

As a result of passing these interoperability test suites, this product will be listed in Adaptec's Compatibility Report Summary on our corporate web site.

Overview: Testing Ecosystem

This section describes the ecosystem of the interoperability testing environment.

Test Objectives

The objective of Adaptec interoperability testing is to ensure compatibility between Adaptec host adapters and 3rd party computer peripherals (hard drives, enclosures, tape drives, etc.) on popular hardware platforms across major operating systems.

This report details the interoperability testing between Vendor and Adaptec products:

Vendor Product(s)¹

ICY DOCK Internal Storage – Multi Bay MB454 and MB455 SATA Enclosure

Adaptec product(s)²

- Adaptec 48300
- Adaptec 2820SA
- Adaptec 4805SAS

Vendor Product Description & Features

The features of the **ICY DOCK Internal Storage – Multi Bay MB454, MB455 SATA Enclosure** include:

- Internal connection with supported SATA host adapter
- Supports up to 4 and to 5 (SATA I or SATA II with jumpers setting)
- Hot Swappable drive trays
- Enclosure management for monitoring and managing internal functions
- Hard drive activity indicator
- Failed hard drive LED indicator
- Dedicated cooling fan for ventilation
- Temperature setting

¹ "Vendor Product(s)" may be used throughout this report to refer to vendor equipment.

² See page 4 for Adaptec product details.

Adaptec Products, Device Drivers & Firmware/BIOS

Below is detailed the Adaptec products tested along with descriptions. For details on Windows driver/version, Firmware/BIOS version, and Storage Manager, references in the Appendix – Testing Configurations section (see page 9).

Adaptec Serial Attached SCSI 48300 (Adaptec 48300)

8 ports, one x4 internal SFF-8484 and one x4 external SFF-8470 connector, Supports Serial ATA and Serial SCSI hard disk drives. PCI-X 64 bit/133 MHz host interface. RAID 0, 1, and 10. 48-bit LBA support. Low-profile form factor. Bootable array support.

Adaptec Serial ATA II RAID 2820SA (Adaptec 2820SA)

8 SATA ports, 3/4-length PCI-X controller supporting RAID 0, 1, 5, 10, 50, JBOD and the Adaptec Advanced Data Protection Suite with RAID 1E, 5EE, 6, 60, Copyback Hotspare and optional Snapshot Backup for pedestal and high-density rack-mount servers.

Adaptec Serial Attached SCSI RAID 4805SAS (Adaptec 4805SAS)

8 ports, 3/4-length PCI Express (PCIe) to Serial Attached SCSI controller supporting RAID 0, 1, 5, 10, 50, JBOD and the Adaptec Advanced Data Protection Suite with RAID 1E, 5EE, 6, 60, Copyback Hotspare and optional Snapshot Backup for pedestal and high-density rack-mount servers.

Adaptec Product Families and Representatives

Adaptec interoperability testing uses the concept of product families where there is a “representative” that characterizes the “members” in the family. The products listed below are family members of the representatives tested above and piggy back on their compatibility with the representative. Descriptions of these members can be found at www.adaptec.com/en-US/products/.

| Representatives | Members |
|---------------------------------|--------------------------------|
| Adaptec 48300 | Adaptec 58300 Adaptec 44300 |
| Adaptec 2820SA | Adaptec 2420SA |

Adaptec Storage Manager (ASM)

Adaptec’s Storage Manger (ASM) is a flexible, robust and extensible for supporting all the latest Adaptec RAID storage technologies and 3rd party Storage systems. ASM features an easy-to-use graphical interface for intuitive configuration, management and health monitoring of RAID storage across all operating systems. Features include common look-and-feel for initial configuration and online storage management with the ability to configure, expand, manage, and monitor local and remote RAID storage from a single client workstation via secure encrypted remote communications. To be fully supported by ASM, storage systems are required to have a Storage Enclosure Processor (SEP) which communicates with the host via the SCSI Enclosure Services 2 (SES2) protocol.

Operating Systems

This is a list of the Operating Systems available for testing within Adaptec's InterOperability Test Lab. This listing is not meant to imply that testing was done on all Operating Systems. Specific testing information can be found in the Appendix – Testing Configurations section (see page 9).

32-bit

| Client Operating Systems | Version | Service Pack | Code |
|----------------------------|--------------|--------------|-------|
| Microsoft Windows XP (x86) | Professional | SP2 | XPx86 |

| Enterprise Operating Systems | Version | Service Pack | Code |
|------------------------------|--------------------|--------------|---------|
| Microsoft Windows 2000 (x86) | Advanced Server | SP4 | W2Kx86 |
| Microsoft Windows 2003 (x86) | Enterprise Edition | R2 SP1 | W2K3x86 |

64-bit

| Client Operating Systems | Version | Service Pack | Code |
|----------------------------|--------------|--------------|-------|
| Microsoft Windows XP (x64) | Professional | SP1 | XPx64 |

| Enterprise Operating Systems | Version | Service Pack | Code |
|------------------------------|--------------------|--------------|---------|
| Microsoft Windows 2003 (x64) | Enterprise Edition | R2 SP1 | W2K3x64 |

Overview: Test Suites & Vendor Product Categories

This table outlines which interoperability test suites are run for various product classifications. A test suite is run on at least one configuration.

Adaptec has two RAID implementations reflected in the Test Suite Table below:

- **HostRAID (HR):** The RAID function is performed by the device driver and runs on the host processor.
- **IOP RAID (ARC):** The RAID function is performed by the Adaptec RAID Code firmware and runs on a dedicated processor.

HostRAID - Test Suite Table

| Test Suite | Vendor Product Categories | | | | | | | |
|---------------------|---------------------------|-----------|-------------------------|---------------------------|------|--------------------|-------|-------|
| | HDD | Enclosure | System / Motherboard | Backplanes / Expanders | Tape | Removable / DVD | Cable | Other |
| HR - RAID-0 | YES | YES | YES | YES | | | | |
| HR - RAID-1 | YES | YES | YES | YES | | | | |
| HR - RAID-10 | YES | YES | YES | YES | | | YES | |
| HR - S/S Volumes | YES | YES | YES | YES | | | | |
| HR - ACPI | YES | YES | YES | YES | | | | |
| HR - BIOS HR | YES | YES | YES | YES | | | | |
| HR - Optical Drives | | | | | | YES | | |
| HR - Tape Drives | | | | | YES | | | |
| HR - Enclosures | | YES | | | | | | |
| HR - Slot Test | | | YES | | | | | |
| HR - BBS | | | YES | | | | | |
| HR - Multiple Ctrl | | | YES | | | | | |

ARC (IOP RAID) - Test Suite Table

| | | | | | | | | |
|----------------------|-----|-----|-----|-----|-----|-----|-----|--|
| ARC - RAID-0 | YES | YES | YES | YES | | | | |
| ARC - RAID-1 | YES | YES | YES | YES | | | | |
| ARC - RAID-1E | YES | YES | | YES | | | | |
| ARC - RAID-10 | YES | YES | YES | YES | | | YES | |
| ARC - RAID-5 | YES | YES | YES | YES | | | | |
| ARC - RAID-5EE | YES | YES | | YES | | | | |
| ARC - RAID-50 | YES | YES | | YES | | | | |
| ARC - RAID-6 | YES | YES | YES | YES | | | | |
| ARC - RAID-60 | YES | YES | | YES | | | | |
| ARC - S/S Volumes | YES | YES | YES | YES | | | | |
| ARC - ACPI | YES | YES | YES | YES | | | | |
| ARC - BIOS ARC | YES | YES | YES | YES | | | | |
| ARC - Optical Drives | | | | | | YES | | |
| ARC - Tape Drives | | | | | YES | | | |
| ARC - Enclosures | | YES | | | | | | |
| ARC - Slot Test | | | YES | | | | | |
| ARC - BBS | | | YES | | | | | |
| ARC - Multiple Ctrl | | | YES | | | | | |

Legend:

YES – this test is applicable

No – this test is not applicable (may also be a grayed box)

InterOperability Test Summary: Test Suite Results

PASS does not imply that all Operating Systems (see page 5) have been thoroughly tested on each configuration³. PASS and OK do mean that sufficient testing has been successfully completed for Adaptec to declare Vendor Product interoperability with the above named Adaptec Products.

HostRAID configurations⁴

| | Config#1 | Config#2 | | | | |
|---------------------|----------|----------|--|--|--|--|
| OS> | W2K3x86 | W2k3x86 | | | | |
| Adaptec> | 48300 | 48300 | | | | |
| HR - RAID-0 | PASS | | | | | |
| HR - RAID-1 | | PASS | | | | |
| HR - RAID-10 | PASS | | | | | |
| HR - S/S Volumes | PASS | | | | | |
| HR - ACPI | PASS | PASS | | | | |
| HR - BIOS HR | PASS | PASS | | | | |
| HR - Optical Drives | | | | | | |
| HR - Tape Drives | | | | | | |
| HR - Enclosures | PASS | OK#1 | | | | |
| HR - Slot Test | | | | | | |
| HR - BBS | | | | | | |
| HR - Multiple Ctrls | | | | | | |

ARC (IOP RAID) configurations⁴

| | Config#3 | Config#4 | Config#5 | Config#6 | Config#7 | Config#8 |
|----------------------|----------|----------|----------|----------|----------|----------|
| OS> | W2Kx86 | W2K3x64 | W2K3x86 | XPx86 | W2K3x64 | XPx64 |
| Adaptec> | 4805 | 4805 | 2820 | 2820 | 2820 | 2820 |
| ARC - RAID-0 | PASS | | | PASS | | |
| ARC - RAID-1 | | PASS | | | PASS | |
| ARC - RAID-1E | | | PASS | | | |
| ARC - RAID-10 | | | PASS | | | |
| ARC - RAID-5 | | | PASS | | | |
| ARC - RAID-5EE | | | | | PASS | |
| ARC - RAID-50 | | | | | | PASS |
| ARC - RAID-6 | | | | | | PASS |
| ARC - RAID-60 | | | | | PASS | |
| ARC - S/S Volumes | PASS | | | | | PASS |
| ARC - ACPI | | PASS | | PASS | | |
| ARC - BIOS ARC | PASS | | | | PASS | PASS |
| ARC - Optical Drives | | | | | | |
| ARC - Tape Drives | | | | | | |
| ARC - Enclosures | OK#1 | PASS | PASS | PASS | PASS | OK#1 |
| ARC - Slot Test | | | | | | |
| ARC - BBS | | | | | | |
| ARC - Multiple Ctrls | | | | | | |

³ See the Appendix-Configurations on page 9 for configuration details.

⁴ See the Legend below for an explanation of "PASS", "OK" and "FAIL", the last two of which may have details in the Notes section (see page 8) that follows the Legend.

Legend:

PASS – This test suite passed on this system in this configuration

OK – At least one test in this suite did not pass on this system in this configuration – Vendor Product remains “compatible” with Adaptec Product(s) – see notes below

FAIL – At least one significant test in this suite did not pass on this system in this configuration – Vendor Product considered “incompatible” with Adaptec Product(s) – see notes below

NA – Not Applicable – this test was not run because it didn’t apply (may also be indicated by grey box)

NR – Test applicable but Not Run – see notes below (may also be indicated by grey box)

Notes:

1. The 3 bay enclosure’s hardware was faulty, and returned to ICY Dock

Compatibility Report Summary

The Vendor Product entry below will be added to Adaptec’s web-available Compatibility Test Report.

Enclosures

| Type | Manufacturer | Model | FW Revision | # of Bays |
|------|--------------|-------|-------------|-----------|
| SATA | ICY DOCK | MB454 | None | 4 |
| SATA | ICY DOCK | MB455 | None | 5 |

Appendix

Testing Configurations

The configurations below were used in for this InterOperability Testing as reflected on the table on page 7.

Configuration #1 – W2K3 x86

Operating System

| Vendor | Version | Service Pack |
|------------------------------|--------------------|--------------|
| Microsoft Windows 2003 (x86) | Enterprise Edition | R2 SP1 |

Adaptec Product

| Name | Short name | Driver name | Driver version | FW / BIOS |
|------------------------------------|---------------|-------------|----------------|-----------|
| Adaptec Serial Attached SCSI 48300 | Adaptec 48300 | adp94xx.sys | 5921 | 1706 |
| Adaptec Storage Manager | ASM | aacmgt.sys | 4866 | |

Host Systems

| Mfg | Model | BIOS | Chipset | PCIe x4 | PCIe x8 | PCIe x16 | PCI 64 | PCI32 (3.3v) | PCI32 (5v) | CPU |
|------------|-----------|------|-------------|---------|---------|----------|--------|--------------|------------|-------------------|
| SuperMicro | X6DH8-XG2 | 1.3a | Intel E7520 | Yes | Yes | No | Yes | No | No | Xeon 3.0GHz EM64T |

Hard Drives (HDD)

| Type | Manufacturer | Model | FW Revision | Capacity |
|---------|-----------------|-------------|-------------|----------|
| SATA II | Seagate | ST3500641AS | 3.AA | 500GB |
| SATA II | Seagate | ST3400833AS | 2.AA | 400GB |
| SATA II | Seagate | ST3250824NS | 3.AE | 250GB |
| SATA II | Western Digital | WD3200JS | 21.0 | 320GB |
| SATA II | Western Digital | WD2000JS | 02.0 | 200GB |

Enclosures

| Type | Manufacturer | Model | FW Revision | # of Bays |
|------|--------------|-------|-------------|-----------|
| SATA | ICY DOCK | MB454 | None | 4 |
| SATA | ICY DOCK | MB455 | None | 5 |

Configuration #2 – W2K3 x86

Operating System

| Vendor | Version | Service Pack |
|------------------------------|--------------------|--------------|
| Microsoft Windows 2003 (x86) | Enterprise Edition | R2 SP1 |

Adaptec Product

| Name | Short name | Driver name | Driver version | FW / BIOS |
|------------------------------------|---------------|-------------|----------------|-----------|
| Adaptec Serial Attached SCSI 48300 | Adaptec 48300 | adp94xx.sys | 5921 | 1706 |
| Adaptec Storage Manager | ASM | aacmgt.sys | 4866 | |

Host Systems

| Mfg | Model | BIOS | Chipset | PCIe x4 | PCIe x8 | PCIe x16 | PCI 64 | PCI32 (3.3v) | PCI32 (5v) | CPU |
|------|---------------|------|-------------|---------|---------|----------|--------|--------------|------------|-------------------|
| Dell | Precision 670 | A06 | Intel E7525 | Yes | No | Yes | Yes | Yes | Yes | Xeon 3.0GHz EM64T |

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Hard Drives (HDD)

| Type | Manufacturer | Model | FW Revision | Capacity |
|---------|-----------------|-----------------|-------------|----------|
| SATA II | Seagate | ST3500641AS | 3.AA | 500GB |
| SATA II | Seagate | ST3400833AS | 2.AA | 400GB |
| SATA II | Maxtor | 6H400F0 | HA43 | 400GB |
| SATA II | SAMSUNG | HD160JJ | WU10 | 160GB |
| SATA II | Western Digital | WD3200JS | 21.0 | 320GB |
| SATA I | Hitachi | HDT722525DLA380 | V440 | 250GB |
| SATA II | Hitachi | HDS725050KLA360 | K2A0 | 500GB |

Enclosures

| Type | Manufacturer | Model | FW Revision | # of Bays |
|------|--------------|-------|-------------|-----------|
| SATA | ICY DOCK | MB453 | None | 4 |
| SATA | ICY DOCK | MB455 | None | 5 |

Configuration #3 – W2K x86**Operating System**

| Vendor | Version | Service Pack |
|------------------------------|-----------------|--------------|
| Microsoft Windows 2000 (x86) | Advanced Server | SP4 |

Adaptec Product

| Name | Short name | Driver name | Driver version | FW / BIOS |
|-------------------------------------------|-----------------|-------------|----------------|-----------|
| Adaptec Serial Attached SCSI RAID 4805SAS | Adaptec 4805SAS | arcsas.sys | 9133 | 9133 |
| Adaptec Storage Manager | ASM | aacmgt.sys | 4866 | |

Host Systems

| Mfg | Model | BIOS | Chipset | PCIe x4 | PCIe x8 | PCIe x16 | PCI 64 | PCI32 (3.3v) | PCI32 (5v) | CPU |
|------|---------------|------|-------------|---------|---------|----------|--------|--------------|------------|-------------------|
| Dell | Precision 670 | A06 | Intel E7525 | Yes | No | Yes | Yes | Yes | Yes | Xeon 3.0GHz EM64T |

Hard Drives (HDD)

| Type | Manufacturer | Model | FW Revision | Capacity |
|---------|-----------------|----------|-------------|----------|
| SATA II | Western Digital | WD5000KS | 06.0 | 500GB |
| SATA II | Western Digital | WD4000YR | 01.0 | 400GB |

Enclosures

| Type | Manufacturer | Model | FW Revision | # of Bays |
|------|--------------|-------|-------------|-----------|
| SATA | ICY DOCK | MB453 | None | 4 |

Configuration #4 – W2K3 x64**Operating System**

| Vendor | Version | Service Pack |
|------------------------------|--------------------|--------------|
| Microsoft Windows 2003 (x64) | Enterprise Edition | R2 SP1 |

Adaptec Product

| Name | Short name | Driver name | Driver version | FW / BIOS |
|-------------------------------------------|-----------------|-------------|----------------|-----------|
| Adaptec Serial Attached SCSI RAID 4805SAS | Adaptec 4805SAS | arcsas.sys | 9138 | 9138 |
| Adaptec Storage Manager | ASM | aacmgt.sys | 4866 | |

Host Systems

| Mfg | Model | BIOS | Chipset | PCIe x4 | PCIe x8 | PCIe x16 | PCI 64 | PCI32 (3.3v) | PCI32 (5v) | CPU |
|-----|-------------------|------|--------------------|---------|---------|----------|--------|--------------|------------|---------------------|
| MSI | K8N Neo4 Platinum | 1.B | nVidia nForce4 SLI | Yes | No | No | No | No | Yes | AMD Athlon 64 3500+ |

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Hard Drives (HDD)

| Type | Manufacturer | Model | FW Revision | Capacity |
|---------|-----------------|-------------|-------------|----------|
| SATA II | Maxtor | 11 6H400F0 | HA43 | 400GB |
| SATA II | SAMSUNG | HD160JJ | WU10 | 160GB |
| SATA II | Seagate | ST3400833AS | 2.AA | 400GB |
| SATA II | Seagate | ST3250824NS | 3.AE | 250GB |
| SATA II | Western Digital | WD5000KS | 06.0 | 500GB |
| SATA II | Western Digital | WD4000YR | 01.0 | 400GB |

Enclosures

| Type | Manufacturer | Model | FW Revision | # of Bays |
|------|--------------|-------|-------------|-----------|
| SATA | ICY DOCK | MB454 | None | 4 |
| SATA | ICY DOCK | MB455 | None | 5 |

Configuration #5 – W2K3 x86**Operating System**

| Vendor | Version | Service Pack |
|------------------------------|--------------------|--------------|
| Microsoft Windows 2003 (x86) | Enterprise Edition | R2 SP1 |

Adaptec Product

| Name | Short name | Driver name | Driver version | FW / BIOS |
|------------------------------|----------------|-------------|----------------|-----------|
| Adaptec Serial ATA II 2820SA | Adaptec 2820SA | arc.sys | 9114 | 9117 |
| Adaptec Storage Manager | ASM | aacmgt.sys | 4813 | |

Host Systems

| Mfg | Model | BIOS | Chipset | PCIe x4 | PCIe x8 | PCIe x16 | PCI 64 | PCI32 (3.3v) | PCI32 (5v) | CPU |
|------------|-----------|------|-------------|---------|---------|----------|--------|--------------|------------|-------------------|
| SuperMicro | X6DH8-XG2 | 1.3a | Intel E7520 | Yes | Yes | No | Yes | No | No | Xeon 3.0GHz EM64T |

Hard Drives (HDD)

| Type | Manufacturer | Model | FW Revision | Capacity |
|---------|-----------------|----------|-------------|----------|
| SATA II | Western Digital | WD3200JS | 21.0 | 320GB |
| SATA II | Western Digital | WD2000JS | 02.0 | 200GB |

Enclosures

| Type | Manufacturer | Model | FW Revision | # of Bays |
|------|--------------|-------|-------------|-----------|
| SATA | ICY DOCK | MB455 | None | 5 |

Configuration #6 – XP x86**Operating System**

| Vendor | Version | Service Pack |
|----------------------------|--------------|--------------|
| Microsoft Windows XP (x86) | Professional | SP2 |

Adaptec Product

| Name | Short name | Driver name | Driver version | FW / BIOS |
|------------------------------|----------------|-------------|----------------|-----------|
| Adaptec Serial ATA II 2820SA | Adaptec 2820SA | arc.sys | 9114 | 9117 |
| Adaptec Storage Manager | ASM | aacmgt.sys | 4813 | |

Host Systems

| Mfg | Model | BIOS | Chipset | PCIe x4 | PCIe x8 | PCIe x16 | PCI 64 | PCI32 (3.3v) | PCI32 (5v) | CPU |
|-----|-------------------|------|--------------------|---------|---------|----------|--------|--------------|------------|---------------------|
| MSI | K8N Neo4 Platinum | 1.B | nVidia nForce4 SLI | Yes | No | No | No | No | Yes | AMD Athlon 64 3500+ |

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Hard Drives (HDD)

| Type | Manufacturer | Model | FW Revision | Capacity |
|---------|-----------------|-----------------|-------------|----------|
| SATA I | Hitachi | HDS724040KLSA80 | KFA0 | 400GB |
| SATA II | Maxtor | 6H500F0 | HA43 | 500GB |
| SATA II | SAMSUNG | HD160JJ | WU10 | 160GB |
| SATA II | SAMSUNG | SP2004C | VM10 | 200GB |
| SATA II | Seagate | ST3500641NS | 2.AE | 500GB |
| SATA II | Seagate | ST3400833AS | 2.AA | 400GB |
| SATA II | Seagate | ST3250824NS | 3.AE | 250GB |
| SATA II | Western Digital | WD5000KS | 06.0 | 500GB |
| SATA II | Western Digital | WD4000YR | 01.0 | 400GB |
| SATA II | Western Digital | WD3200JS | 21.0 | 320GB |
| SATA II | Western Digital | WD2000JS | 02.0 | 200GB |

Enclosures

| Type | Manufacturer | Model | FW Revision | # of Bays |
|------|--------------|-------|-------------|-----------|
| SATA | ICY DOCK | MB454 | None | 4 |
| SATA | ICY DOCK | MB455 | None | 5 |

Configuration #7 – W2K3 x64**Operating System**

| Vendor | Version | Service Pack |
|------------------------------|--------------------|--------------|
| Microsoft Windows 2003 (x64) | Enterprise Edition | R2 SP1 |

Adaptec Product

| Name | Short name | Driver name | Driver version | FW / BIOS |
|------------------------------|----------------|-------------|----------------|-----------|
| Adaptec Serial ATA II 2820SA | Adaptec 2820SA | arc.sys | 9114 | 9117 |
| Adaptec Storage Manager | ASM | aacmgt.sys | 4813 | |

Host Systems

| Mfg | Model | BIOS | Chipset | PCIe x4 | PCIe x8 | PCIe x16 | PCI 64 | PCI32 (3.3v) | PCI32 (5v) | CPU |
|------------|-----------|------|-------------|---------|---------|----------|--------|--------------|------------|-------------------|
| SuperMicro | X6DH8-XG2 | 1.3a | Intel E7520 | Yes | Yes | No | Yes | No | No | Xeon 3.0GHz EM64T |

Hard Drives (HDD)

| Type | Manufacturer | Model | FW Revision | Capacity |
|---------|--------------|-------------|-------------|----------|
| SATA II | Maxtor | 6H500F0 | HA43 | 500GB |
| SATA II | Maxtor | 6H400F0 | HA43 | 400GB |
| SATA II | SAMSUNG | HD160JJ | WU10 | 160GB |
| SATA II | SAMSUNG | SP2004C | VM10 | 200GB |
| SATA II | Seagate | ST3500641NS | 2.AE | 500GB |
| SATA II | Seagate | ST3400833AS | 2.AA | 400GB |
| SATA II | Seagate | ST3250824NS | 3.AE | 250GB |

Enclosures

| Type | Manufacturer | Model | FW Revision | # of Bays |
|------|--------------|-------|-------------|-----------|
| SATA | ICY DOCK | MB454 | None | 4 |
| SATA | ICY DOCK | MB455 | None | 5 |

Configuration #8 – XP x64**Operating System**

| Vendor | Version | Service Pack |
|----------------------------|--------------|--------------|
| Microsoft Windows XP (x64) | Professional | SP1 |

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Adaptec Product

| Name | Short name | Driver name | Driver version | FW / BIOS |
|------------------------------|----------------|-------------|----------------|-----------|
| Adaptec Serial ATA II 2820SA | Adaptec 2820SA | arc.sys | 9114 | 9117 |
| Adaptec Storage Manager | ASM | aacmgt.sys | 4813 | |

Host Systems

| Mfg | Model | BIOS | Chipset | PCIe x4 | PCIe x8 | PCIe x16 | PCI 64 | PCI32 (3.3v) | PCI32 (5v) | CPU |
|------------|-----------|------|-------------|---------|---------|----------|--------|--------------|------------|-------------------|
| SuperMicro | X6DH8-XG2 | 1.3a | Intel E7520 | Yes | Yes | No | Yes | No | No | Xeon 3.0GHz EM64T |

Hard Drives (HDD)

| Type | Manufacturer | Model | FW Revision | Capacity |
|---------|-----------------|-------------|-------------|----------|
| SATA II | Seagate | ST3500641AS | 3.AA | 500GB |
| SATA II | Seagate | ST3400833AS | 2.AA | 400GB |
| SATA II | Seagate | ST3250824NS | 3.AE | 250GB |
| SATA II | Western Digital | WD5000KS | 06.0 | 500GB |
| SATA II | Western Digital | WD4000YR | 01.0 | 400GB |
| SATA II | Western Digital | WD3200JS | 21.0 | 320GB |
| SATA II | Western Digital | WD2000JS | 02.0 | 200GB |

Enclosures

| Type | Manufacturer | Model | FW Revision | # of Bays |
|------|--------------|-------|-------------|-----------|
| SATA | ICY DOCK | MB453 | None | 5 |
| SATA | ICY DOCK | MB454 | None | 4 |

Adaptec InterOperability Testing Assertions

The focus of Adaptec interoperability testing is on assessing Vendor Product compatibility with various Adaptec Products across select operating systems and PC hardware configurations. The complexity and multi-dimensionality of the test matrix is beyond the cost-time efficiencies. The following assertions guide the selection of optimal test suite configurations.

Adaptec product assertions

- With similar Adaptec products (e.g. main difference is number of ports); a family “representative” (usually the most complex member) can represent the entire family.
- It is sufficient to mix Adaptec products within representative configurations; not all Adaptec products need to be tested across all OSES.

PC hardware assertions

- For interoperability test, the PC vendor (Asus, Dell, HP, IBM, Intel, SuperMicro, Tyan) and/or the CPU processor (AMD and Intel) are not significant factors; any combination may be used. However, with new Host Bus Adapters (HBAs) or new firmware for the HBAs, using a variety of PC Vendors helps ensure interoperability compatibility between a motherboard BIOS and the HBA firmware.

Operating System assertions

- It is not necessary to test 32- and 64-bit systems on both Windows and Linux; mixing 32-bit and 64-bit between Windows and Linux is acceptable interoperability testing.
- Enterprise systems are typically 64-bit; testing 64-bit systems covers 32-bit systems in the Enterprise market space.

HDD assertions

- Hard Disk vendor products are interoperability tested as direct attach only; enclosure testing is by exception only.

RAID testing assertions

- Testing all RAID levels is required.
- Testing all RAID levels across all OSES is not required.
- Testing a RAID level on any OS is sufficient coverage for all OSES.

Enclosure assertions

- When testing an enclosure, it is not necessary to mix HDD within the enclosure. However, when enclosures support both SAS & SATA HDDs then both interface types may be tested subject to vendor recommendations.

Non-DASD

- Besides the OS's embedded applications, third-party software may also be tested with tape drives and DVD drives.

Other assertions

- Where appropriate, SATA and SAS drives are mixed unless not recommended by the vendor.