

## IBM TotalStorage Proven™ program

HealthTrio  
*connect*



### Testing Template:

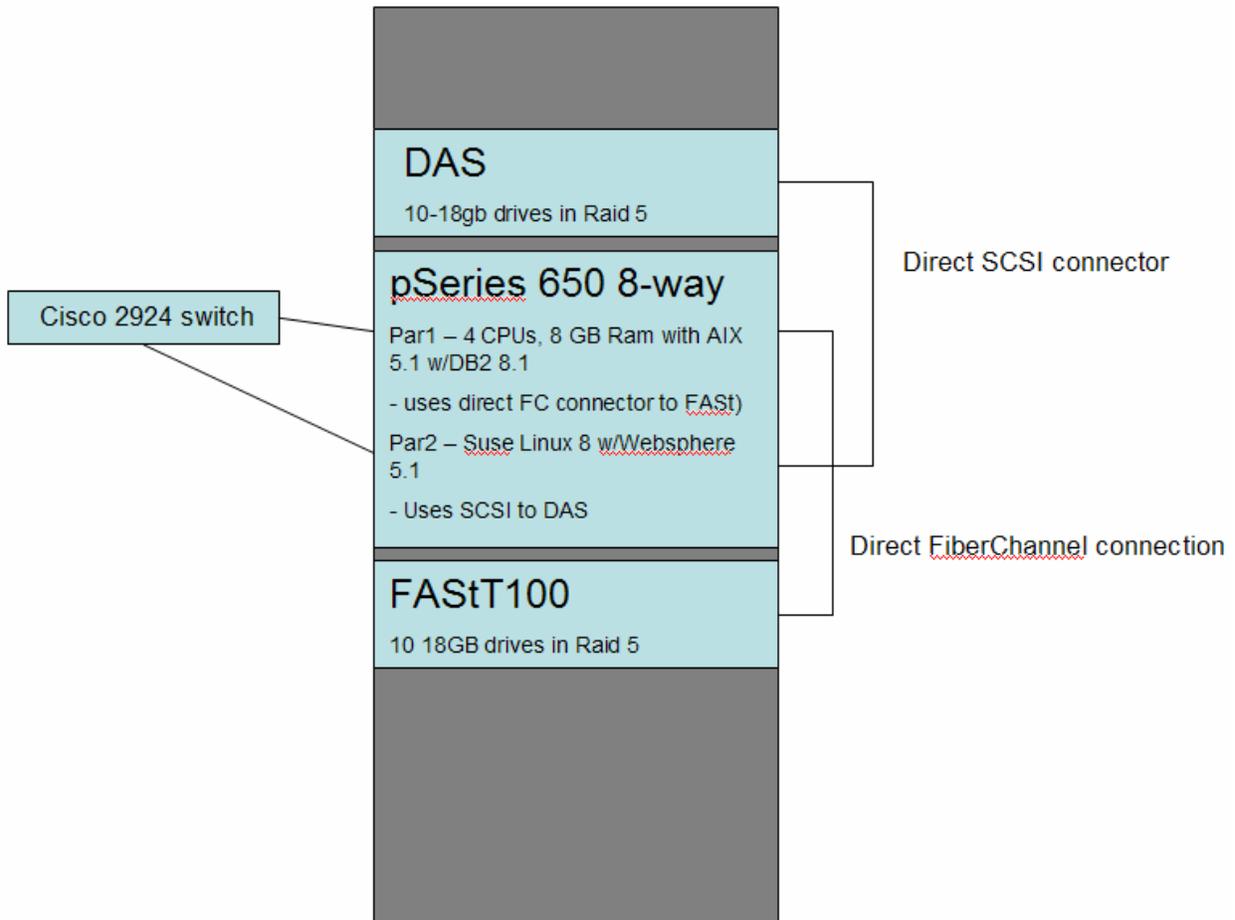
This document will be used to describe, from a technical perspective, the elements that were included as part of the IBM TotalStorage Proven testing. It is intended to give an overall picture of the technical elements of the configuration, with a brief description of the results of the testing including any specific highlights of the interoperability results.

High-level architecture/description, include a list of products that meet the compatibility requirements (“Approved Product(s)”) as well as a list of the IBM storage products with which the Approved Products meet the compatibility requirements (“Qualified IBM Storage Products”):

The following information is provided as a result of successful testing of HealthTrio *connect* version 3.0 in conjunction with the IBM FASTT100. The tests were completed in a controlled environment with actual product testing scripts on a hardware and software configuration that will be used as the model for production rollout of the software.

Testing diagram:

## HealthTrio connect Solution configuration



Testing level:

Testing was completed for the Standard level, although software un-installation and database locking tests were also completed.

Testing Environment

The full HealthTrio connect 3.0 software environment was tested using Compuware's Test Partner test tools in the following environment:

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- Application Server: The application software ran in Websphere on Linux. The hardware platform was a pSeries 650, 2-way Power4 CPU, with 2 GB of RAM. Internal mirrored SCSI drives were used for storage.
- Web Server: The web server software was Apache on Linux which ran on a pSeries 650 2-way power4 CPU with 2 GB of RAM. Internal mirrored SCSI drives were used for storage.
- Database Server: The database software ran DB2 on AIX. The hardware was a 4-way Power4 CPU with 8 GB of RAM. A FASt100 storage unit was connect to the 650 using fiber channel. The FASt100 consisted of a 10x18GB array configured in RAID 5. The database itself was roughly 96 GB

### Specific versions of products:

- Application Server: Websphere 5.0, Java 1.4, Suse Linux 8 on a pSeries 650, 2-way power4 CPU, with 2 GB of RAM.
- Web Server: Apache 2, Suse Linux 8 on a pSeries 650 2-way power4 CPU, 2 GB of RAM
- Database Server: DB2 v 8.1, AIX 5 on a 4-way Power4 CPU with 8 GB of RAM, w/ FC HBA, FASt100 w 10x18GB drives using fiber channel.

### Results:

The tests were completed over from March 11-March 16, 2005. The normal Ant deployment scripts were used to create the environment, although the database schema and data were hand created using SQL scripts.

During testing, several hundred scenarios were tested to ensure all parts of the application behaved as expected for the test environment. All tests completed normally without failure. Performance was also noted and appeared to be on the average 2 times faster than the typical development servers, which are 2-way Intel Xeon 2 ghz machines with 4 GB of RAM and direct attached storage. During the performance testing, stress was generated to simulate 300 concurrent users, which is a typical heavy load on the system. At this level the system did not indicate stress.

### List of participant support contacts including phone and web page.

1. HealthTrio help desk - (877) 814-9909 or support@healthtrio.com
2. Test Initiator – Art Gramlich (520) 748-6041 or art.gramlich@healthtrio.com

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