

# IBM TotalStorage Proven™ program

## CreekPath Systems® CreekPath SMI-S Module, DS4000 Series Support



### **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”):

### **Product Description:**

The CreekPath Suite™ Module for SMI-S uses hardware vendor implementations, SMI-S providers, of the SMI-S standard to perform storage system discovery and monitoring. The collected data is then applied to the advanced storage services management solution provided by the CreekPath Suite.

#### **Approved CreekPath Systems Products:**

The following products from CreekPath Systems meet the compatibility requirements to become an IBM TotalStorage Proven solution:

1. CreekPath SMI-S Module, v3.5
2. CreekPath Suite v3.5

#### **Qualified IBM Storage Products:**

The following products from IBM are compatible with the tested solution:

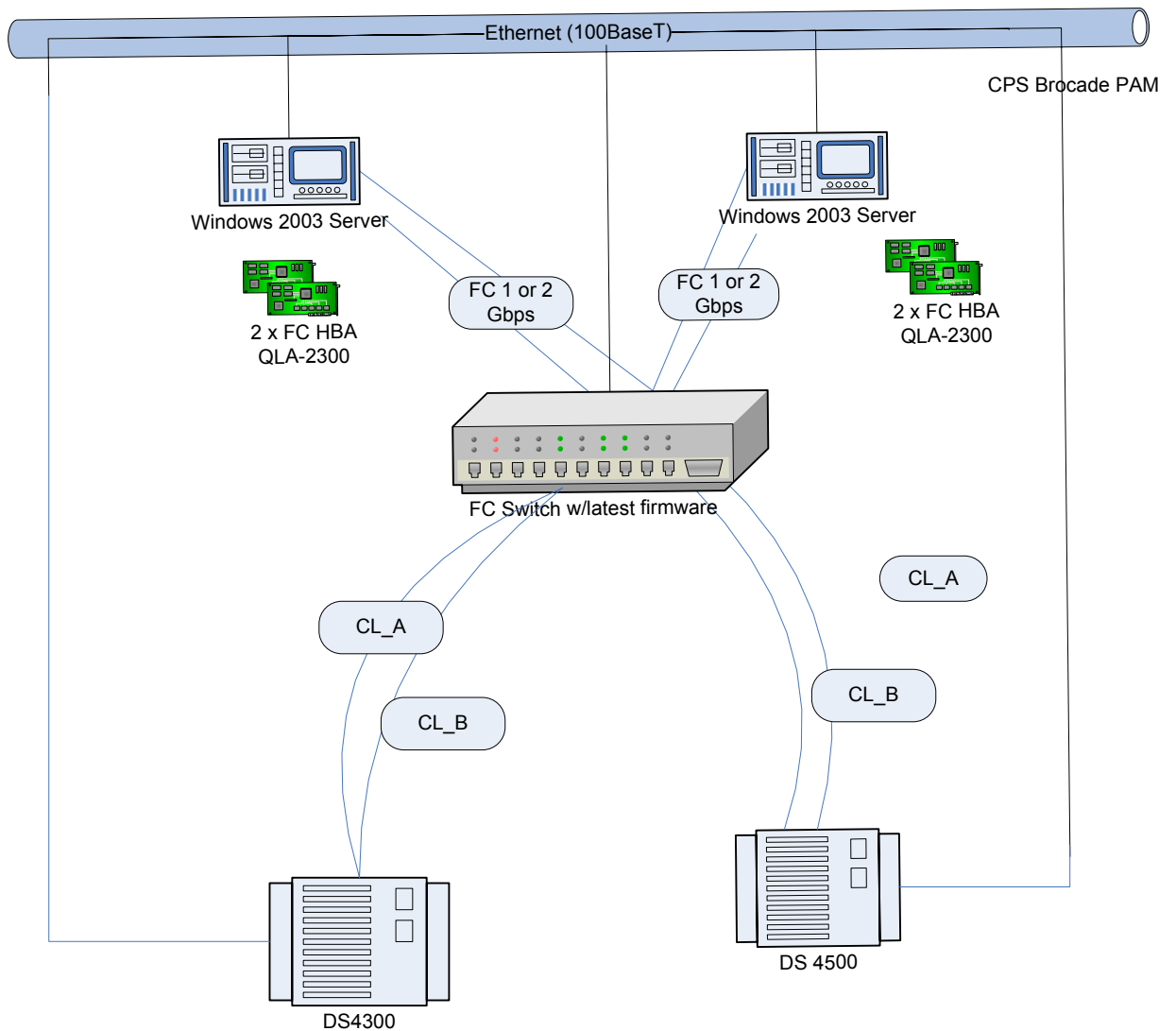
1. FAStT200
2. FAStT500
3. FAStT600
4. FAStT700
5. FAStT900
6. DS4100
7. DS4300
8. DS4400
9. DS4500

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## Test Scenario:

The diagram bellows illustrates the test environment. CreekPath installed the CreekPath SMI-S Module and related software in the environment. All tests required for IBM TotalStorage Proven certification as well as tests required to verify additional product functionality and robustness were executed.

In particular, the testing established the product's ability to discover, visualize, monitor, and report on the FASTT and DS Series systems and their utilization by client hosts.



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## **Test Level Achieved:**

Standard

## **Test Procedures:**

In addition to the Standard TotalStorage Proven test suite, CreekPath executed the following test suites:

- 1) Establish test environment
  - a) Test Environment Hardware Information:
    - i) Four IBM e-servers, model xSeries 330, hosting Windows 2003 Server.
    - ii) Each server was equipped with two QLA-2300 Fibre Channel Host Bus Adapters.
    - iii) DS4300, firmware v6.10.06.00
    - iv) DS4400, firmware v6.12.03.00
    - v) Fibre Channel Switch
      - (1) Make: IBM
      - (2) Model: 2109F32
      - (3) Microcode: v4.1.1a
  - b) Install and configure the following software as instructed by the CreekPath Suite documentation:
    - i) CreekPath SMI-S Module, v3.5
    - ii) CreekPath Suite Server, v3.5
    - iii) Oracle 9i
    - iv) Engenio SMI-S Provider, v1.02
    - v) CreekPath Host Agents for Windows 2003, v3.5
    - vi) CreekPath InformationLink v3.5
    - vii) CreekPath Information Portal v3.5
- 2) Verify:
  - a) storage device discovery and visualization,
  - b) host discovery and visualization,
  - c) complete storage supply chain visibility; utilizing DS array volumes mapped to hosts using a variety of configurations, verify that the storage supply chains between host and array are displayed correctly in the CreekPath Console,
  - d) State monitoring, data updates, and state change events. State changes include random stopping and re-starting of the software under test, changes to storage configurations, host mappings, etc,
  - e) CreekPath Information Portal reports; all host and storage system reports correctly display asset, capacity, and utilization data.

## **Test Results:**

<u>Test Date:</u>	June 20-24, 2005
<u>Installation Requirements:</u>	Read and follow all instructions in the CreekPath Suite
<u>Status:</u>	All tests passed.

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### Contacting CreekPath Systems:

CreekPath Systems  
7420 East Dry Creek Parkway, Suite 100  
Longmont, CO 80503  
Tel: 303-845-1000  
Toll Free: 888-758-1001  
Fax: 303-845-1002  
Web: [www.creekpath.com](http://www.creekpath.com)

### Customer Support:

CreekPath Customer Support is available 24 hours, 7 days a week. Contact CreekPath Customer Support using one of the following methods.

#### CONTACTING CREEKPATH CUSTOMER SUPPORT

<b>phone</b>	United States, toll-free: 888-599-7284 United Kingdom, toll free: 0-800-404-9583 Europe, 303-845-1002
<b>web site</b>	<a href="http://support.creekpath.com">http://support.creekpath.com</a> To obtain login name and password contact CreekPath Customer Support.
<b>email</b>	<a href="mailto:support@creekpath.com">support@creekpath.com</a> If you contact CreekPath Customer Support via email, CreekPath will respond during normal business hours, Mountain Time, United States and Canada (GMT- 07:00).

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