

IBM TotalStorage Proven™ program

Revivio, Inc. Continuous Protection System – CPS1100



Testing Template:

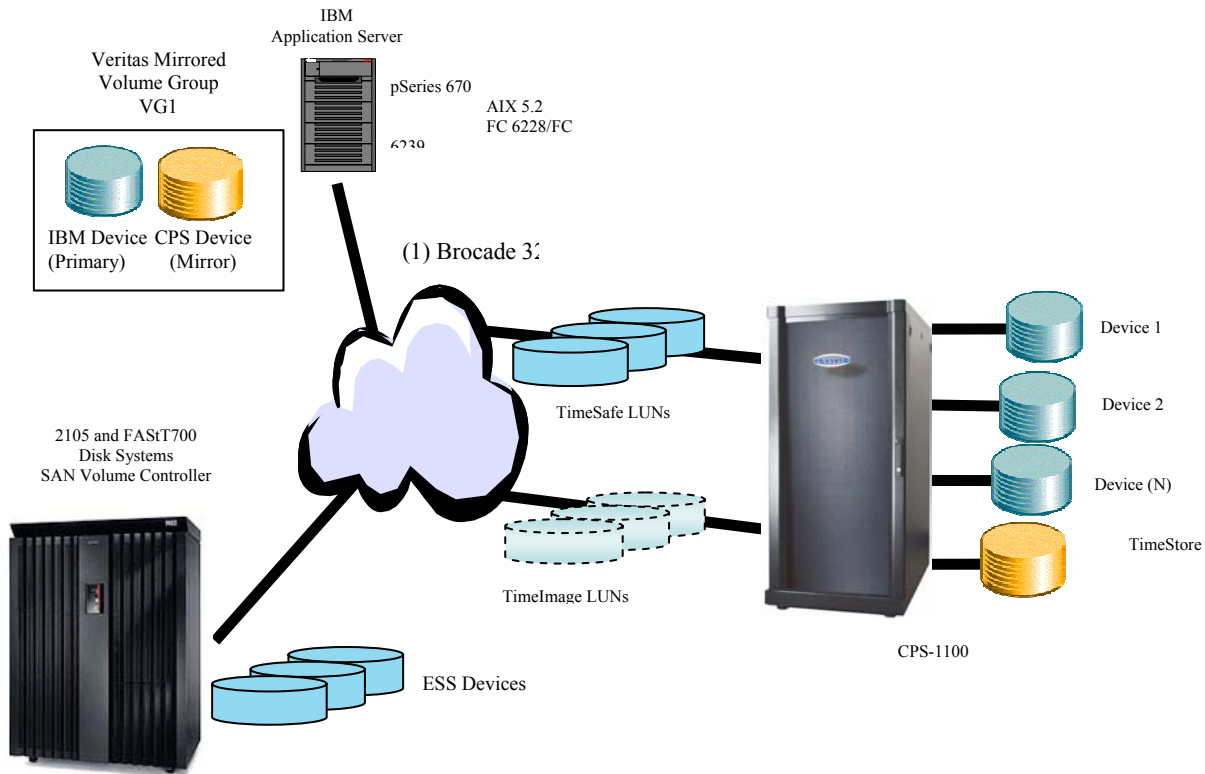
This document will be used to describe, from a technical perspective, the elements that were included as part of the IBM TotalStorage Proven testing. It is intended to give an overall picture of the technical elements of the configuration, with a brief description of the results of the testing including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

Approved Products:	CPS1100
Qualified IBM Storage Products:	IBM ESS 2105 F20
	IBM DS4300 – 1742
	SAN Volume Controller

IBM TotalStorage Proven™ program

Testing Scenario:



Testing level achieved: Standard

The CPS1100 was demonstrated to perform as a secondary mirror in a SAN environment in which the ESS F20 and the 1742 provided the application's primary mirror volume. Using industry leading LVM and SAN products, including the SAN Volume Controller, the CPS1100 was able to provide both TimeSafe and TimeImage LUNs to the application hosts.

Revivio's Time Addressable Storage (TAS) technology adds the dimension of time to the traditional addressing scheme for data. With TAS, data can be accessed not only by its physical location, (drive number, track, head, offset, etc.) but also the contents of that location at a specific time.

Revivio's Continuous Protection System (CPS) is a groundbreaking approach to data protection and recovery that allows companies to restore data instantly, exactly as it existed at any point in time, and to recover business applications in just minutes. At last, enterprise data centers have a clear alternative to painfully slow backups, labor-intensive recovery, lost data, and costly application downtime.

IBM TotalStorage Proven™ program

Customer Benefits include:

- Reduce business risk
- Increase data protection
- Dramatically reduce costs

A fully fault-tolerant appliance that supports the high availability required of mission-critical applications, CPS seamlessly and nondisruptively fits into any enterprise storage environment. Revivio's patent-pending technology allows administrators to instantly access all volumes used by an application – the entire dataset – as they existed at any previous point in time, a week, a day or even one second ago.

Test Configuration Details:

Revivio CPS1100

Server:

IBM eServer pSeries 670

HBA: IBM FC 6228

Driver level: 5.2.0.10

HBA: IBM FC 6239

Driver level: 5.2.0.10

NIC: IBM Gigabit Ethernet SX PCI

Driver levels: 5.2.0.10

Storage Product(s) Used:

IBM ESS 2105 F20

Number of Drives: 128

Drive Type: 15K RPM

Capacity: 18G

Microcode Level: 2.1.1.293

IBM DS4300 1742

Version: 1RU

Number of Drives: 56

Drive Type: 36G 15K RPM

Microcode Level: 05.30.12.00

IBM SAN Volume Controller

Microcode Level: 1.1.1.2 (build 0.33.04010100000)

Switches:

Brocade 3200

Microcode Level: 3.0.2c

IBM 2109 F32

Microcode Level: v4.1.0

IBM TotalStorage Proven™ program

IBM 2109 F16
Microcode Level: v3.1.1b

Software Details:

Veritas Foundation Suite
Release level(s): 3.5
VxVM and VxFS Solaris 8

Testing Details:

Testing was conducted April 7-16, 2004. A preinstalled CPS1100 (as is provided to a customer) was used for the test effort. No additional patch installations were required.

Contacting Revivio Customer Support

Website: www.revivio.com/support
Telephone: 1-800-961-5812
Email: support@revivio.com
Hours of Operation: 24x365
Location: Worldwide Support Center
Revivio, Inc.
12 Hartwell Avenue
Lexington, Ma 02421-3113

Support Management

Name	Title	Desk Phone	Mobile Phone	Email
Stephen Hird	Sales Integration	781-301-0226	603-498-5520	stephen.hird@revivio.com
Allan Lorentzen	Support Engineering	781-301-0209	617-308-8952	allan.lorentzen@revivio.com
Gail Riley	Systems Integration	781-301-0151	781-910-6972	gail.riley@revivio.com
Gregory Sterling	Support Engineering	781-301-0211	781-910-4510	greg.sterling@revivio.com
Paul Hettesheimer	Director of Services & Support	781-301-0216	781-910-2204	paul.hettesheimer@revivio.com

IBM TotalStorage Proven™ program

Support Agreements

Revivio initiated a support agreement with IBM End User Services (EUS) for Frontline Technical Support Services on December, 8 2003.

Under this agreement, IBM will take first phone call from all Revivio customers, basic triage the call and escalate to Revivio Support Engineering.

This product information sheet was prepared by and/or on behalf of Revivio. IBM is not the author of this product information sheet, and any reproduction, redistribution or republication of such sheets by IBM is not intended, nor should be deemed, to be an endorsement, recommendation or warranty of the non-IBM products described herein. For information concerning IBM's products and services, please visit www.ibm.com.