

IBM TotalStorage Proven™ program

MicroStrategy, Inc. MicroStrategy 7i



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”):

High-level Architecture

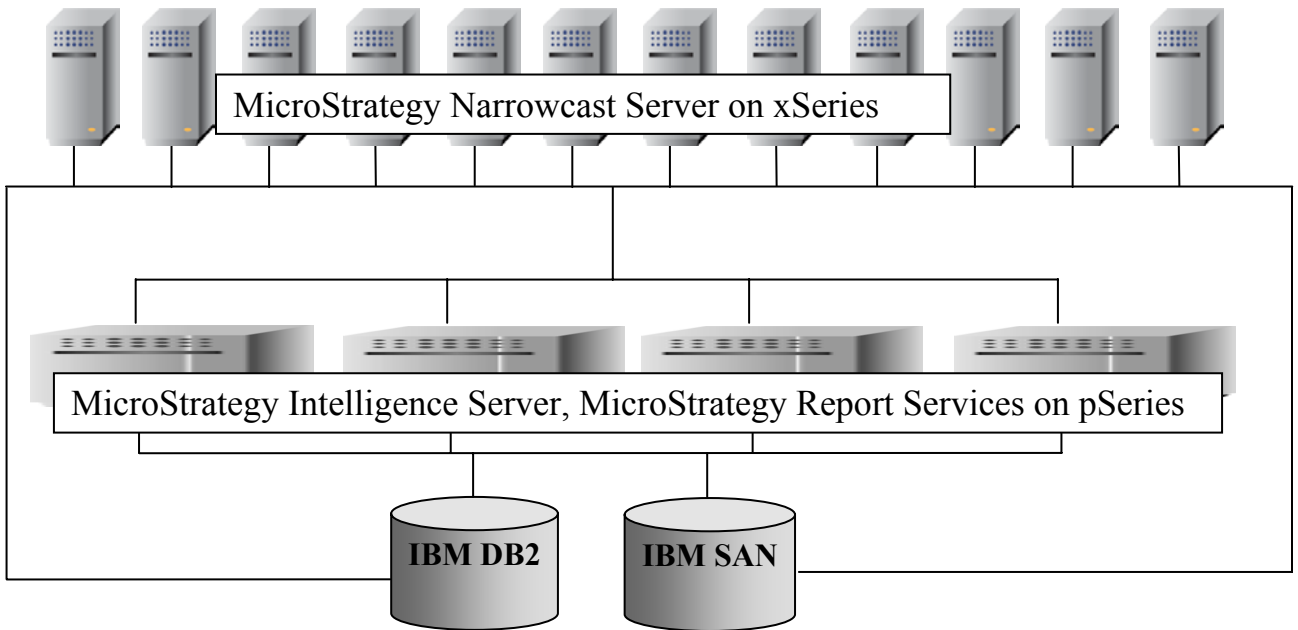
MicroStrategy 7i is a complete business intelligence platform that helps businesses better align people to organizational goals by providing easy-to-use products for monitoring, reporting, and analyzing all enterprise data.

MicroStrategy 7i supports the maximum level of reporting sophistication, is scalable to support very large user populations and enormous amounts of data, and contains comprehensive maintenance and administration utilities and applications. This makes it easy to deploy all 5 styles of BI through a zero footprint Web interface to all business users.

The test setup was architecturally divided into a server environment, storage area network environment and the client/monitoring environment.

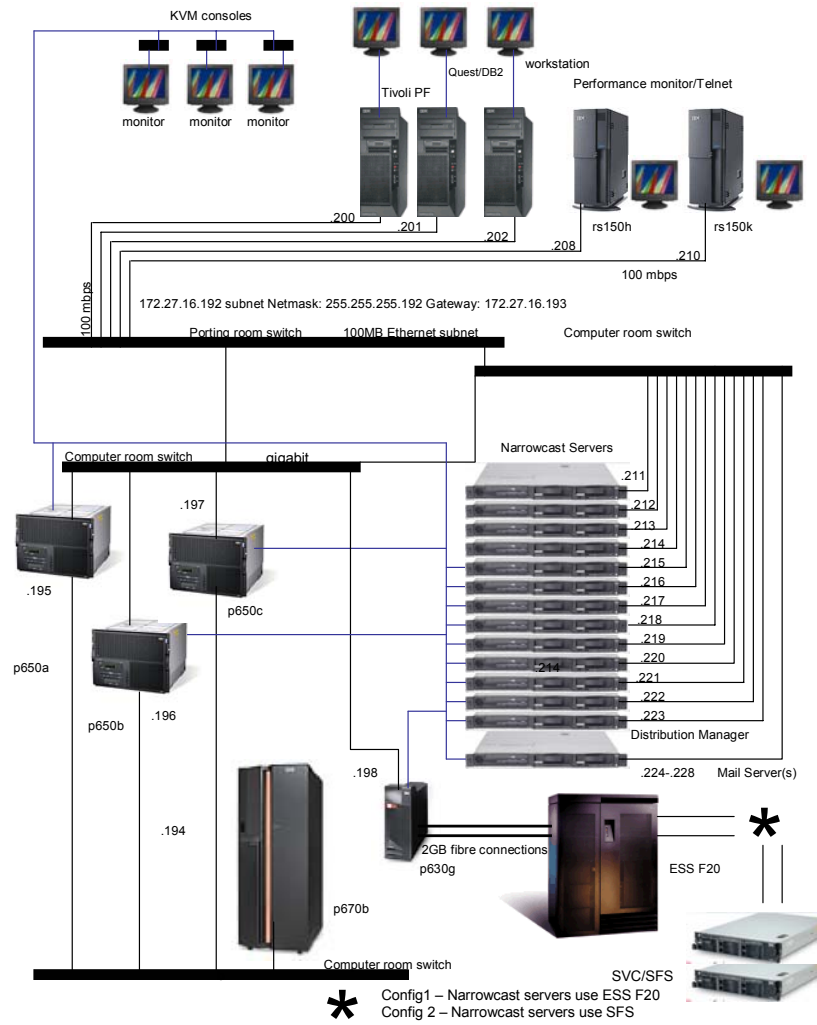
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Test Architecture



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Network Topology



Testing level achieved

Standard: The standard test consists of elements like install, configuration, load, exercise I/O, and backup/restore testing.

Specific Testing

The purpose of the tests was to certify the MicroStrategy 7i BI platform in an IBM TotalStorage environment and to evaluate its performance and scalability characteristics.

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Hardware Details

- Server type(s) and quantity: (12) IBM xSeries 335 (2-way 2.4 GHz)
- Server type(s) and quantity: (4) IBM pSeries 650 (8-way 1.45 GHz)
- Server type(s) and quantity: (1) IBM pSeries 630 (4-way 1.45 GHz)

Storage Product(s) Used

- IBM 2105
- Number of Drives: 384
- Drive Type(s) and quantity: (128) 36G 15K RPM , (256) 73G 10K RPM
- Version: 800

- IBM SAN File System
- Version: 1.1.2.8

- IBM SAN Volume Controller
- Microcode Level: 1.2.0.0

Switches:

- IBM 2109-F32
- Microcode Level: v4.1.2f

- IBM 2109-F16
- Microcode Level: v3.1.2a

Software Details

- MicroStrategy Narrowcast Server Enterprise Edition
- Release level(s): 7.5.2
- OS Version: Windows 2000 Server

Middleware Used

- MicroStrategy Intelligence Server Universal Edition
- MicroStrategy Report Services Universal Edition
- Release level(s): 7.5.2 (all)
- OS Version: AIX 5.2

Database Used

- IBM DB2 UDB
- Release level(s) 8.1

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Description of the testing results obtained

The testing was completed in July 2004. MicroStrategy 7i confirmed its superior performance and scalability characteristics from the results. All the test case criteria scheduled for the test period were met on the IBM technology stack with a TotalStorage solution.

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