IBM System Storage SAN Volume Controller

IBM

Software Installation and Configuration Guide - Errata

Version 4.3.1
November 20, 2008

Contents

Introduction

This guide provides errata information that pertains to release 4.3.1 of the *IBM System Storage SAN Volume Controller Software Installation and Configuration Guide.*

This guide contains the corrections and additions on a per chapter basis. The chapter numbers in this guide correspond directly with the chapter numbers in the *Software Installation and Configuration Guide* supplied with your SAN Volume Controller.

Who should use this guide

This errata should be used by anyone using the *IBM System Storage SAN Volume Controller Software Installation and Configuration Guide.* You should review the errata contained within this guide and note the details with respect to the copy of the *Software Installation and Configuration Guide* supplied with your SAN Volume Controller.

Last Update

This document was last updated: November 20, 2008

Change History

The following revisions have been made to this document:

Revision Date	Sections Modified
November 17, 2008	Configuring the HDS Tagmastore USP and NSC systems
November 20, 2008	Update models to include XP10000/12000 and USPv.

Table 1: Change History

Chapter 11. Configuring and servicing storage subsystems

The following additional information is provided.

Configuring HDS TagmaStore USP and HP XP10000/12000 systems

This errata section provides information about configuring HDS TagmaStore USP and HP XP10000/12000 systems for attachment to a SAN Volume Controller cluster when SVC quorum disk support is required on these systems.

An SVC cluster automatically assigns quorum disk candidates, but it is good practice to review the quorum disk assignments when adding new storage to a cluster or removing existing storage. Prior to SVC version 4.3.1 these HDS and HP storage systems were not suitable for hosting quorum disks, however, with suitable firmware upgrades and setting the appropriate options these types of system can now be used to host SVC quorum disks.

Quorum disks on HDS TagmaStore USP and HP XP10000/12000 systems

The SAN Volume controller cluster uses a quorum disk for two purposes: as a tie breaker in the event of a SAN fault, when exactly half of the nodes that were previously a member of the cluster are present, and to hold a copy of important cluster configuration data. Just over 256 MB is reserved for this purpose on each quorum candidate disk. There is only one active quorum disk in a cluster; however, the cluster uses three managed disks as quorum candidate disks.

If you wish to host any of the three quorum disks on these HDS or HP storage systems, then it is **imperative** that you ensure that each of the following conditions is true.

- You are running firmware version Main 50-09-72 00/00 or higher - contact HP or HDS support for details on how to do this.
- You have set System Option 562 on - contact HP or HDS support for details on how to do this.
- You must have all SVC ports in a single HP or HDS host group.

Then follow these steps.

1. You can then use *svctask chcontroller -allowquorum yes <n>* where <n> is a controller corresponding to the relevant HP or HDS storage system.
2. Repeat step 1 for each controller that is part of the relevant HP or HDS storage system.
3. Finally, you can then use *svctask setquroum -quorum [0|1|2] <m>* where <m> is the relevant mdisk on the HP or HDS storage system.

Failure to follow the above rules could result in data corruption. For the latest information related to quorum disk support please see the following web site:

http://www.ibm.com/storage/support/2145

Configuring the HDS TagmaStore USPv and HP XP20000/24000 systems

This errata section provides information about configuring HDS TagmaStore USPv and HP XP20000/24000 systems for attachment to a SAN Volume Controller cluster when SVC quorum disk support is required on these systems.

An SVC cluster automatically assigns quorum disk candidates, but it is good practice to review the quorum disk assignments when adding new storage to a cluster or removing existing storage. Prior to SVC version 4.3.1 these HDS and HP storage systems were not suitable for hosting quorum disks, however, with suitable firmware upgrades and setting the appropriate options these types of systems can now be used to host SVC quorum disks.

Quorum disks on HDS TagmaStore USPv and HP XP20000/24000 systems

The SAN Volume controller cluster uses a quorum disk for two purposes: as a tie breaker in the event of a SAN fault, when exactly half of the nodes that were previously a member of the cluster are present, and to hold a copy of important cluster configuration data. Just over 256 MB is reserved for this purpose on each quorum candidate disk. There is only one active quorum disk in a cluster; however, the cluster uses three managed disks as quorum candidate disks.

If you wish to host any of the three quorum disks on these HP or HDS storage systems, then it is **imperative** that you ensure that each of the following conditions is true.

- You are running firmware version Main 60-04-01-00/02 or higher - contact HP or HDS support for details on how to do this.
- You have set Host Option 39 on - contact HP or HDS support for details on how to do this. This must apply to the HP or HDS host group used for SVC.
- You must have all SVC ports in a single HP or HDS host group.

Then follow these steps.

1. You can then use *svctask chcontroller -allowquorum yes <n>* where <n> is the number of the relevant HP or HDS storage system.
2. Repeat step 1 for each controller that is part of the relevant XP24000.
3. Finally, you can then use *svctask setquroum -quorum [0|1|2] <m>* where <m> is the relevant mdisk on the HP or HDS storage system.

Failure to follow the above rules could result in data corruption. For the latest information related to quorum disk support please see the following web site:

http://www.ibm.com/storage/support/2145