

**IBM System Storage SAN Volume Controller**



# **Troubleshooting Guide - Errata**

**Version 5.1.0**

**December 14, 2009**

GC27-2227-02-Errata



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## Introduction

This guide provides errata information that pertains to release 5.1.0 of the *IBM System Storage SAN Volume Controller Troubleshooting 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 *Service Guide* supplied with your SAN Volume Controller.

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## Who should use this guide

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

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## Last Update

This document was last updated: December 14, 2009

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## Change History

The following revisions have been made to this document:

Revision Date	Sections Modified
December 14, 2009	New Publication

Table 1: Change History



## Chapter 6. Diagnosing Problems

*The following additions should be noted.*

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### Understanding the node rescue codes

*The service actions for the following error codes have been added.*

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#### **382 The 2145 has not located an upgrade package**

##### **Explanation**

This indicates that the 2145 has not been able to locate any IBM2145\_REMOTE\_UPGRADE package on any other nodes in the fabric. The node will reboot shortly after displaying this message.

This information is only available during upgrades initiated as part of the user paced software upgrade procedure.

##### **Action**

Ensure that a valid software package is available on one of the other nodes in the fabric then retry the upgrade procedure on this node.

Possible Cause-FRUs or other:

- None

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#### **384 The 2145 has located a donor node**

##### **Explanation**

This indicates that the 2145 has identified a node to provide the new software upgrade package. The front panel id of the donor node is provided on the front panel display.

This information is only available during upgrades initiated as part of the user paced software upgrade procedure.

##### **Action**

The front panel id displayed after the node error 384 should be recorded. The user paced upgrade procedures provide information about how to verify the front panel id.

Possible Cause-FRUs or other:

- None

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### **386 The 2145 has detected an invalid upgrade package**

#### **Explanation**

This indicates that the IBM2145\_REMOTE\_UPGRADE package provided by the node identified by the booting 384 information was invalid or corrupt.

This information is only available during upgrades initiated as part of the user paced software upgrade procedure.

#### **Action**

Confirm that the IBM2145\_REMOTE\_UPGRADE package is being downloaded from the correct donor node and that it is valid for this node hardware and has not been corrupted. Upload the IBM2145\_REMOTE\_UPGRADE package again and retry the upgrade procedure on this node.

Possible Cause-FRUs or other:

- None

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### **388 The 2145 has detected a valid upgrade package**

#### **Explanation**

This indicates that the IBM2145\_REMOTE\_UPGRADE package provided by the node identified by the booting 384 information was valid and will be used to upgrade this node.

This information is only available during upgrades initiated as part of the user paced software upgrade procedure.

#### **Action**

None

Possible Cause-FRUs or other:

- None

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## **Understanding the cluster recovery codes**

*The service actions for the following error codes have been modified.*



## **900, 901, 902, 920, 990**

### **Explanation**

A cluster recovery action is required.

### **Action**

Contact the software support center for assistance in performing the software problem analysis.

Possible Cause-FRUs or other:

- None

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## **Understanding the node status codes**

*The service actions for the following error codes have been added.*

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## **950 The 2145 is in upgrade mode**

### **Explanation**

During the user paced upgrade procedure it is necessary to put the node into an upgrade mode which causes the node to behave differently when added to a cluster. Node Error 950 indicates that the node is in this state.

### **Action**

If the node was deliberately put into this mode then add the node into the cluster. Otherwise restart the node to clear the state.

Possible Cause-FRUs or other:

- None

