Customer Installation Instructions

IBM

TS7520 Patch Update for 3954-CV6 Virtualization Engine

update-ve1382upto34-SP06– Install update-ve1382upto34-SP06, 2.2.6.34 service pack including all fixes up to 34 to Build 1382 on kernel 2.6.5-390; requiring server reboot. Requires console patch CVT2.2-Console-1382-08.

TS7520 Software Version 2.1 (Build 1382) Patch update-ve1382upto34-SP06

TS7520 Patch Update for 3954-CV6 Virtualization Engine

update-ve1382upto34-SP06– Install update-ve1382upto34-SP06, 2.2.6.34 service pack including all fixes up to 34 to Build 1382 on kernel 2.6.5-390; requiring server reboot. Requires console patch CVT2.2-Console-1382-08.

TS7520 Software Version 2.1 (Build 1382) Patch update-ve1382upto34-SP06

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Before Installation (Section 1 through 5)

Warning:

Throughout this documentation, there are occurrences of service passwords and sudo commands that are used to manage and configure the product. Improper use of these commands and passwords poses significant risk to the product and your data. It is imperative that these commands and passwords are used only as documented.

1.0 Machines Affected

This is a field patch installation instruction for the TS7520 3954-CV6 Virtualization Engine.

This patch should be installed on all TS7520 systems, with software version 2.1 that do not have patch update-ve1382upto34-SP06.

Important Note:

Technical Bulletin Regarding TS7500 and Removing Failover Configurations

If a machine is in a failed-over state or a take-over state, **you must NOT attempt to remove failover**. In addition, if failover must be removed to change configurations of the machine (such as IP addresses, etc.) then it must be ensured that the system is not in a failed-over state, a take-over state, or a failover-suspended state. If any of these cases are true, call IBM support immediately.

1.1 Check Software version of TS7520

You can check the version of TS7520 software and determine whether or not the patch is already installed, using the VE Console *Version Info* tab.

- 1. If necessary, start the TS7500 Virtualization Engine management console (VE console) workstation by performing one of the following:
 - If there is a desktop shortcut for the VE for Tape Console application, double-click it.
 - If there is not a desktop shortcut for the VE for Tape Console application, click Start → All Programs → IBM → VE for Tape → VE for Tape Console.
 - **Note:** This is the default installation location for the **VE for Tape Console** application. The location of the application might differ for you.

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| | | | | |

- 2. Double-click VE for Tape Servers to expand the TS7500 list.
- 3. Double-click any server icon.
- 4. In the VE for Tape User Login window, enter the following user name and password:

Userid: vetapeuser Password: veuserpassword

Note: The user name and password are case-sensitive

5. Click on the VE Console *Version Info* tab (refer to Figure 1) to see what patches you have installed. If you see "2.2.5.34" or "2.2.6.34" mentioned in the version info, then you already have Patch 34 installed. Please close the VE Console after you have verified this information.

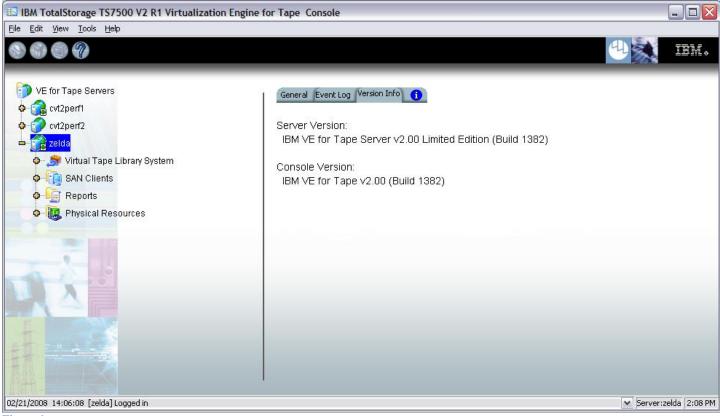


Figure 1

| update- ve1382upto34- SP06 | Page 4 of 21 | | | |
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| 3F00 | | | | |

2.0 Prerequisites

If using a 64-bit Windows host, ensure the installed level of the IBMTape driver is at a minimum of 6.1.8.2 or higher.

You may also require the following software CDs if your system is not at the required levels for this patch.

TS7500 Software Upgrade Disk Version 2.2.2 (LCD8-0689-05) http://www.elink.ibmlink.ibm.com/publications/servlet/pbi.wss

• TS7520 CVT Console Installation Disk v2.2.3 1382-06 (EC L30806 Part number 45E2071)

Attention:

Special notes for HA (High Availability) configurations

In each step, there will be times when the servers are required to be restarted or rebooted. Since this will trigger a failover, it is required that failover is suspended. Instructions on how to suspend failover can be found in section 3.1 Suspend Failover (Only for systems with Failover configured).

Removing failover is **not recommended** and should never be done unless directed by IBM support prior to doing so.

If failover has been not configured yet, it is IBM's advice to first install the upgrades and patches outlined in this document prior to configuring HA. After failover has been suspended, it is important to allow enough time for the systems to activate their Primary Server IPs. While in most cases, it takes only 2 to 3 minutes for the server IP to become active, it can take a bit longer. If after 20 minutes, the server IP access has not been restored, please call IBM support for assistance.

| update- ve1382upto34- SP06 | | | |
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|----------------------------------|--|--|--|

2.1 update-ve1382upto34-SP06 required files and Prerequisites

Download the latest patch by completing the following steps:

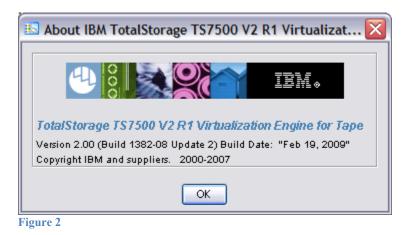
- 1. Using the VE console workstation, go to the following Virtualization Engine patch download page: http://www-01.ibm.com/support/search.wss?rs=1174&tc=HW29K&q=ssg1*&dc=D420&dtm
- 2. Select the following patch level file and save it to a directory on the VE console workstation.
 - update-ve1382upto34-SP06.zip
 - CVT2.2-Console-1382-08.zip

| update- Pa ve1382upto34- SP06 | age 6 of 21 | | | | | |
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2.2 TS7520 CVT Console Installation Disk v2.2.3 1382-08

The client portion of this patch requires that your console be at the above mentioned version. To verify if the **VE for Tape Console** application is at the required level, perform the following steps:

- 1. If necessary, repeat steps 1 through 4 in section 1.0 to start the VE for Tape Console application.
- 2. Click Help → About TotalStorage TS7500...
 - a. If you have Build 1382-08 Update 2 Build Date: "Feb 19, 2009", as seen in the figure below, then you are at the required level and should proceed to section 6.1 to install the server portion of the patch.



b. If you have Build 1382 Build Date: "Oct 11, 2007", or later, as seen in the figure below, then you are at the 2.2 version of the console. You should proceed to sections 6.1 and 6.2 for instructions on how to install the server and console patches.

| (| 🔝 Aboi | ut IBM T | otalStora | ge TS7 | 7500 V2 | R1 Vir | tualizat | X | |
|----------------------------------|----------|------------|---|--------|--------------|--------|-------------|---|--|
| | | | | | - | | i o | | |
| | Version | 2.00 (Buil | 87500 V2 d 1382) Buil d suppliers. | d Date | : "Oct 11, : | | ne for Tape | | |
| | Figure 3 | | | ОК | | | | | |
| update- ve1382upto34- SP06 | Page 7 | of 21 | | | | | | | |

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c. If you have Build 1382 Build Date: "May 08, 2007" (or earlier), as seen in the figure below, then you are not at the 2.2 level of the console and will need to upgrade your VE console.



Perform the following steps to install the correct console version:

- i. Obtain the TS7520 CVT Console Installation Disk v2.2.3 1382-06 with part number: **45E2071**
- ii. Locate the TS7520 User's Guide (GC27-2068-02)
- iii. Go to the "Installing the VE console on a workstation running Windows" section in chapter 2 of the TS7520 User's Guide and follow the instructions on installing the VE console.

Note: Please record the directory path where you install the VE for Tape Console if you do not use the default path. You will also need to follow the steps in sections "Starting the VE Console" and "Connecting to the TS7500 Virtualization Engine" to re-establish the connection between the TS7500 VE for Tape Console and all the TS7500 Virtualization Engine Servers which you want to manage using this VE for Tape Console.

- iv. Once finished, repeat step 2 to verify that the required VE console is installed.
- v. If the required version is listed, proceed to section 3.0. If version is still incorrect, please call IBM support for assistance.

| update- Pag ve1382upto34- SP06 | age 8 of 21 | | | |
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3.0 Preparation

Installation of this patch is disruptive to normal TS7520 operation. Application of the patch will cause the 3954-CV6 server software to shutdown and restart. Application of the patch also requires the CV6 server itself to be rebooted. Schedule time when the TS7520 system can be taken out of normal operation.

Attention:

Ensure that all host jobs to the TS7520 are quiesced, and complete all pending TS7520 operations.

3.1 Suspend Failover (Only for systems with Failover configured)

For HA configurations (FC-7420 Failover/Failback Enable), use the **VE for Tape Console** application to Suspend Failover on both 3954-CV6 servers in the frame. Refer to Figure 5 and Figure 6, and use the following procedure to Suspend Failover on each server in the frame (both the upper and lower server if in an HA environment).

1. If necessary, repeat steps 1 through 4 in section 1.1 Check Software version of TS7520, to start the **VE for Tape Console** application and login to the VE for Tape server (Figure 5), or highlight the VE for Tape server if already connected, using the following userid and password:

Userid: vetapeuser Password: veuserpassword

- 2. From the VE for Tape Console application, right-click the TS7520 Server.
- 3. Click Failover \rightarrow Suspend Failover. Refer to Figure 6.

| | Page 9 of 21 | | | |
|-----------------------|--------------|--|--|--|
| ve1382upto34- SP06 | | | | |

| IBM TotalStorage TS7500 V2 R1 Virtualization En | gine for Tape Console | |
|---|---|---|
| File Edit View Tools Help | | |
| S C 9 7 | | en e |
| <complex-block></complex-block> | General () Name Server Name Login Machine Name IP Address Connected Login User Name Image: Connected Login User Name Image: Connected Image: VE for Tape User Login Image: Connected VE for Tape User Login Image: Connected VE for Tape User Login Image: Connected VE for Tape Server: cvt2perf! User Name: Connected VE for Tape Server: cvt2perf! Image: Connected User Name: Vetapeuser Image: Connected Password: Image: Connected Image: Connected Image: Connected Image: Connected | Value cvt2perf1 cvt2perf1.storage.tucson.ibm.com 9.11.210.190 vetapeuser pt logged in |
| 09/26/2007 16:01:25 [cvt2perf1] Logged out | | V Local:ibm-u3warovz6ta 4:05 PM |

Figure 5

WARNING:

You must choose **Suspend Failover** and not Remove Failover Server or any of the other options, otherwise unpredictable results may occur.

| update- ve1382upto34- SP06 | Page 10 of 21 | | | | | |
|----------------------------------|---------------|--|--|--|--|--|
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| rock | | Name | | Value | |
|--------------------------|-------|--|-----------------|--|--|
| Virtual Tape Library Sys | stern | Server Name | | cvtroll | |
| SAN Clients | | Login Machine Na | me | cvtroll.storage.tucson.ibm.com | |
| Reports | | IP Address Conne | | 9.11.202.30 | |
| | | Login User Name | 1 | vetapeuser | |
| Physical Resources | | Processor 1 - 4 | | Intel(R) Xeon(TM) CPU 3.00GHz 3000 MHz | |
| Disconnect | | Network Interface | | eth0 - mtu 1500 inet 9.11.203.206 mac 0:d:60:6f:83: | |
| | | Network Interface | | eth1 - mtu 1500 inet 9.11.30.206 mac 0:d:60:6f:83:e | |
| Administrators | | Protocol(s) | | Fibre Channel | |
| Change Password | | Admin Mode | | Read/Write | |
| Fallover | • | Failover Setup Wizard | | Online | |
| Event Log | | Remove Failover Server | | 3 hours 2 minutes 9 seconds | |
| - | - | Setup Mutual Failover | | 7 minutes 42 seconds | |
| Diagnostic Summary | Data | | N | 21-01-00-0d-77-1a-7f-c6 [target] | |
| CallHome | | Start Takeover cvtrock | N | 21-01-00-0d-77-3a-7f-c6 [initiator] | |
| License | | Stop Takeover | N | 21-01-00-0d-77-1a-74-c6 [target] | |
| System Maintenano | | Suspend Failover | N | 21-01-00-0d-77-3a-74-c6 [initiator] | |
| | • • | Resume Failover | N | 21-00-00-e0-8b-1a-de-c6 [initiator] | |
| Options | • | User a le debe Felleren Oebleen | N | 21-01-00-e0-8b-3a-de-c6 [initiator] | |
| Properties | - L | View/Update Fallover Options Fibre Channel VW | N | 21-00-00-e0-8b-1a-80-c6 [initiator] 21-01-00-e0-8b-3a-80-c6 [initiator] | |
| X | | System Drive | Usage | | |
| | | System / VE fo Disk capacity: Space available: | r Tape Log Driv | e (/dev/sda1) = System Log 1.80% VE for Tape Logs 1.93% 6.89 GB Others 15.05% 5.59 GB Free 81.22% | |

4.0 Purpose and Description

This patch should be installed on all TS7520 systems, with software version 2.1 that do not have patch update-ve1382upto34-SP06 installed.

5.0 Installation Time

The average time to install this patch on a HA configuration is 1.0 hour. The number of persons required to install the patch is 1.

| update- P. ve1382upto34- SP06 | age 11 of 21 | | | | | |
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|-------------------------------------|--------------|--|--|--|--|--|

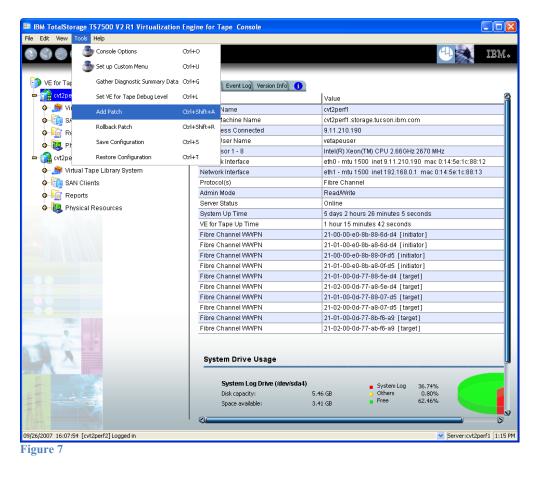
6.0 Details of Installation

Perform the steps outlined in section 6.1 Patch Installation **on each server** present before proceeding to section 6.2 Resume Failover. You should always start with the lower server in the frame and proceed to the upper server.

6.1 Patch Installation

Use the following procedure to install the patch on each 3954-CV6 VE for Tape server (both the upper and lower server if in an HA environment). Refer to Figure 7 through Figure 14.

- 1. Use a zip utility program to extract the contents of update-ve1382upto34-SP06.zip to a directory on your hard drive. Note this location as you will require this information in Step 5.
- 2. If necessary, repeat steps 1 through 4 in section 1.1 Check Software version of TS7520 to start the VE for Tape Console application.
- 3. Highlight the VE for Tape server and click *Tools* \rightarrow *Add Patch* (Figure 7).

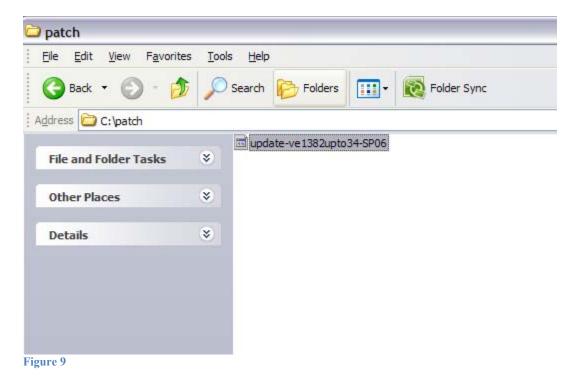


| update- ve1382upto34- SP06 | Page 12 of 21 | | | | | |
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4. Select "OK" when presented with the following Warning Message (Figure 8).

| Add Pa | tch to VE for Tape Server "cvt2perf1" |
|----------|---|
| 1 | Warning: Applying a server patch may cause the server to restart. Please make sure there is no critical operation running on the server before proceeding. Applying the wrong patch may make the server inoperable. |
| Figure 8 | |

5. When presented with the Select Patch File window (Figure 9), index to the VE Console workstation directory where you unzipped the *update-ve1382upto34-SP06* patch file and select the file.



6. When presented with the confirmation window, type "YES" to confirm (Figure 10)

| update- ve1382upto34- SP06 | Page 13 of 21 | | | | | |
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|----------------------------------|---------------|--|--|--|--|--|

| Id Patch to VE for Tape Server "zelda" | | |
|---|--|-----|
| Please confirm you wish to add patch: | | |
| "update-ve1382upto34-5P06" | | |
| Description: | | |
| "2.2.6.34 service pack including all fixes up to 34 t | o Build 1382 on kernel 2.6.5-390; requiring server reboot. Requires console patch CVT2.2-Console-1382-07 | 7," |
| | | |
| ype YES to confirm: | | |
| | | |
| | | cel |
| ure 10 | | _ |

7. If the "Add Patch to VE for tape Server" window appears, click OK (Figure 11).

Note: The server software will shutdown and restart.

| Add Pa | tch to VE for Tape Server "cvt2perf1" |
|-----------|---|
| ¢ | Add patch job has been submitted successfully. Depending on the patch, you may be logged out of this VE for Tape server. Please log in after a while. |
| | ОК |
| Figure 11 | 1 |

8. The VE for Tape Console application will be disconnected from the VE for Tape server (Figure 12).

| 👪 IBM TotalStorage TS7500 V2 R1 Virtualization En | gine for Tape Console | | |
|---|-----------------------|----------------------------------|-----|
| <u>File E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp | | | |
| 900 7 | | | EM. |
| VE for Tape Servers | General () Name | Value | 1 |
| Cvt2perf2 | Server Name | cvt2perf2 | |
| | Login Machine Name | cvt2perf2.storage.tucson.ibm.com | |
| | IP Address Connected | 9.11.210.191 | |
| | Login User Name | vetapeuser | |
| | Status | Not logged in | |
| | | | |

- Figure 12
 - 9. Once the server software has completed the restart (approximately 2 to 5 minutes) you will be able connect to the VE for Tape server from the **VE for Tape Console** application (Figure 13).

| SP06 | update- ve1382upto34- SP06 | Page 14 of 21 | | | | | |
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| Edit View | Tools Help | | | |
|-------------|--|---|----------------------|----------------------------------|
| | 2 | | | |
| VE for Tape | e Servers | | General () | |
| 🕜 cvt2p | Connect | | Name | Value |
| 🌍 cvt2r | Connect As | | Server Name | cvt2perf1 |
| | | | Login Machine Name | cvt2perf1.storage.tucson.ibm.com |
| | Delete | | IP Address Connected | 9.11.210.190 |
| | Administrators | | Login User Name | vetapeuser |
| | Change Password | | Status | Not logged in |
| _ | Failover | • | | |
| | Event Log | | | |
| | Diagnostic Summary D | | | |
| - | | | | |
| | License | | | |
| | System Maintenance | • | | |
| | Properties | | | |
| | | | | |
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| | In the second se | | | |
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| | 0.0 | | | |
| | Transmission in the second sec | | | |
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Figure 13

10. Check the TS7520 Event Log of each server, using the VE for Tape Console application Event Log tab, to confirm the successful installation of the patch (refer to Figure 14). There should be an Event Log entry stating the "Patch update-ve138234 installation completed successfully".

Note: You may have to scroll through the log in order to find this entry depending on the configuration of your TS7520.

| | 08/12/2009 | 08:16:30 | 10055 | VE for Tape Server FSID update is complete. |
|--|------------|----------|-------|---|
| | 08/12/2009 | 08:15:54 | 40000 | TLE Module Started |
| | 08/12/2009 | 08:15:47 | 7000 | Patch update-ve138234 installation completed successfully. |
| | 08/12/2009 | 08:15:45 | 7000 | Potch appraiseve138233 installation completed successfully. |
| | 08/12/2009 | 00.15:42 | 7000 | Patch update-ve138232 installation completed successfully. |
| | 08/12/2009 | 08:15:40 | 7000 | Patch update-ve138231 installation completed successfully. |

Figure 14

11. After patch installation has been verified, the server must be rebooted.

Open a PuTTY Session by performing the following steps from the PuTTY console:

| update- Page 15 ve1382upto34- SP06 | 5 of 21 | | | |
|--|---------|--|--|--|
|--|---------|--|--|--|

Note: If PuTTY is not installed, refer to "Install PuTTY on VE Console" in the TS7520 User's Guide (GC27-2068-02) and return to this point once complete.

- a. Click Start.
- b. Click All Programs.
- c. Click PuTTY.
- d. Click **PuTTY**.
- e. Enter IP Address of the server you are connecting to where specified.
- f. Select Open.
- g. Enter the following userid and password. The userid and password are case-sensitive. Login: vetapeservice Password: service4u
- h. At the command prompt, enter the following command: sudo shutdown -r now
- 12. Repeat the above steps (section 6.1) on the second server if in an HA configuration.
- 13. After the server reboots in 5-10 minutes, continue to section 6.2 VE Console Patch Installation.

Contact IBM support for assistance if the patch installation did not complete successfully.

6.2 VE Console Patch Installation

Perform the following steps on the VE console workstation.

Note:

- Do not perform the following steps if the VE console is not at the required level. Refer to section 2.2 TS7520 CVT Console Installation Disk v2.2.3 1382-08.
- If the VE for Tape Console application is open, please close the application prior to performing these steps.
- 1. Perform the following steps to backup the IPStorConsole.jar file:
 - a. Navigate to the C:\Program Files\IBM\VE for Tape\Console\Bin\ directory and locate your IPStorConsole.jar file.

Note: This directory may vary if you did not choose the default install location in Section 2.2.

- b. Right click on the **IPStorConsole.jar** file and select **rename** from the pop up window. Rename this file to IPStorConsole.old.
- c. Select Yes on the pop up confirmation window, if displayed.
- 2. Use a zip utility program to extract the contents of CVT2.2-Console-1382-08.zip to the C:\Program Files\IBM\VE for Tape\Console\Bin\ directory. The zip file includes a new version of **IPStorConsole.jar**.
 - a. Navigate to the C:\Program Files\IBM\VE for Tape\Console\Bin directory and locate the file CVT2.2-Console-1382-08.jar.
 - b. Right click on the file CVT2.2-Console-1382-08.jar and select rename from the pop up window. Rename this file to IPStorConsole.jar.
- 3. If prompted whether or not you wish to replace the destination files, choose yes.
- 4. You can verify that the patch was properly installed by starting the VE for Tape Console application and selecting the Help → About menu. If you are at Version 2.00 (Build 1382-08 Update 2) Build Date: "Feb 19, 2009", refer to the figure below, then you have successfully applied the VE console portion of this patch.

| | | | | - |
|---------------|---------------|--|--|---|
| update- | Page 17 of 21 | | | |
| ve1382upto34- | | | | |
| SP06 | | | | |

| 🔝 About IBM TotalStorage TS7500 V2 R1 Virtualizat 🔀 |
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| |
| TotalStorage TS7500 V2 R1 Virtualization Engine for Tape Version 2.00 (Build 1382-08 Update 2) Build Date: "Feb 19, 2009" Copyright IBM and suppliers. 2000-2007 |
| ОК |

6.3 Resume Failover (Only for systems with Failover configured)

Attention:

Only perform this step if section 6.1 Patch Installation has been successfully performed on both the upper and lower servers in the failover pair. If you have not already done so, perform the steps in section 6.1 Patch Installation on the other member of the failover pair.

For HA configurations (FC-7420 Failover/Failback Enable), use the VE for Tape Console application to Resume Failover on both 3954-CV6 servers. Refer to the following procedure to Resume Failover on each server present (both the upper and lower server if in an HA environment).

1. If necessary, repeat steps 1 through 4 in section 1.1 Check Software version of TS7520 to start the **VE for Tape Console** application and login to the VE for Tape server, or highlight the VE for Tape server if already connected, using the following userid and password:

Userid: vetapeuser Password: veuserpassword

- 2. From the VE console, right-click the TS7520 Server.
- 3. Click Failover →*Resume Failover*.
- 4. Repeat for upper server if in an HA environment.

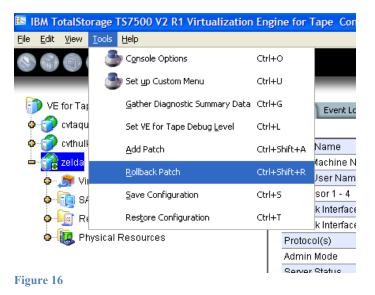
| update- | Page 18 of 21 | | | |
|---------------|---------------|--|--|--|
| ve1382upto34- | C | | | |
| SP06 | | | | |

7.0 Rolling Back Patches

Warning: Patch rollback should be done only as per recommendation of your Technical Support Representative. Improper rollback of a patch may cause damage to your system.

Follow the procedures in section 3.1 Suspend Failover (Only for systems with Failover configured) to suspend failover before rolling back any patches.

- 1. If necessary, repeat steps 1 through 4 in section 1.1 Check Software version of TS7520 to start the VE for Tape Console application.
- 2. Highlight the VE for Tape server and click $Tools \rightarrow Rollback Patch$



3. Select "OK" when presented with the following Warning Message.

| Rollbad | k Patch on VE for Tape Server "zelda" | |
|-----------|---|--|
| 1 | Warning: Rollback a server patch may cause the server to restart. Please make sure there is no on the server before proceeding. Selecting the wrong patch to rollback may make the s OK CANCEL | |
| Figure 17 | | |

| update- ve1382upto34- SP06 | Page 19 of 21 | | | | | |
|----------------------------------|---------------|--|--|--|--|--|
|----------------------------------|---------------|--|--|--|--|--|

4. Select the patch you want to rollback from the list and click Ok.

Warning: Patch rollback should be done only as per recommendation of your Technical Support Representative. Improper rollback of a patch may cause damage to your system.

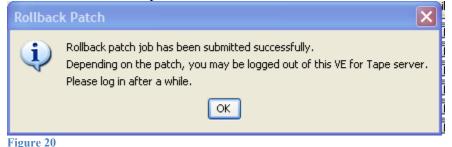
| Available patch to rollback: | | |
|------------------------------|--|---------------|
| Name | Description | Detail |
| update-ve138228 | Identification: 2.2.3.28 patch fixing issue | |
| update-ve138229 | Identification: 2.2.4.29 patch fixing issue | |
| update-ve138231 | Identification: 2.2.5.31 patch adding a s | |
| update-ve138232 | Identification: 2.2.5.32 patch adding a ch | |
| update-ve138233 | Identification: 2.2.5.33 patch fixing multi | |
| update-ve138234 | Identification: 2.2.5.34 patch adding a s | |
| | Id be done only as per recommendation of your Tech back of a patch may cause damage to your system. | nical Support |

5. Type "YES" to confirm the patch rollback

| Rollback Patch | × |
|--|--|
| Please confirm you wish to rollback patch: "update-ve138234" | |
| Description: "Identification: 2.2.5.34 patch adding a support utili | ty to check VE configuration consistency " |
| Type YES to confirm: | |
| | |
| Figure 19 | |

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| | | | | |

6. Click on OK after the patch has been removed.



- 7. A server reboot is required after you have removed the patch.
 - a. Open a PuTTY Session by performing the following steps from the PuTTY console:

Note: If PuTTY is not installed, refer to "Install PuTTY on VE Console" in the TS7520 User's Guide (GC27-2068-02) and return to this point once complete.

- b. Click Start.
- c. Click All Programs.
- d. Click **PuTTY**.
- e. Click PuTTY.
- f. Enter IP Address of the server you are connecting to where specified.
- g. Select Open.
- h. Enter the following userid and password. The userid and password are case-sensitive. Login: vetapeservice Password: service4u
- i. At the command prompt, enter the following command: sudo shutdown -r now
- 8. After the server reboots in 5-10 minutes, refer to section 6.3 Resume Failover. Contact IBM support for assistance if the patch removal did not complete successfully.

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