# **Customer Installation Instructions**

IBM

TS7530 Service Pack for 3954-CV7 Virtualization Engine

**update-ve146501** – Fixes issues with iSeries AS/400 host using IBM 3577 LTO4 drives, reported density for IBM 3577 L32 library using LTO4 drive, reported density and max block size for IBM 3584 L22 library using EO5 and J1A drives, and extend parameter IBM 3584 LTO2/3 drives.

TS7530 Software Version 3.1 (Build 1465) Service update-ve146501

TS7530 Service Pack for 3954-CV7 Virtualization Engine

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**update-ve146501** – Fixes issues with iSeries AS/400 host using IBM 3577 LTO4 drives, reported density for IBM 3577 L32 library using LTO4 drive, reported density and max block size for IBM 3584 L22 library using EO5 and J1A drives, and extend parameter IBM 3584 LTO2/3 drives.

TS7530 Software Version 3.1 (Build 1465) Service update-ve146501

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## **Before Installation (Section 1 through 5)**

#### Warning:

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

### **1.0 Machines Affected**

This is a field service installation instruction for the TS7530 3954-CV7 Virtualization Engine.

This service pack should be installed on all TS7530 systems, with software version 3.1 that do not have service update-ve146501 installed. TS7530 systems without this service pack will not have support for iSeries AS/400 host using IBM 3577 LTO4 drives, reported density for IBM 3577 L32 library using LTO4 drive, reported density and max block size for IBM 3584 L22 library using EO5 and J1A drives, and extend parameter IBM 3584 LTO2/3 drives.

### **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 TS7530

You can check the version of TS7530 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.

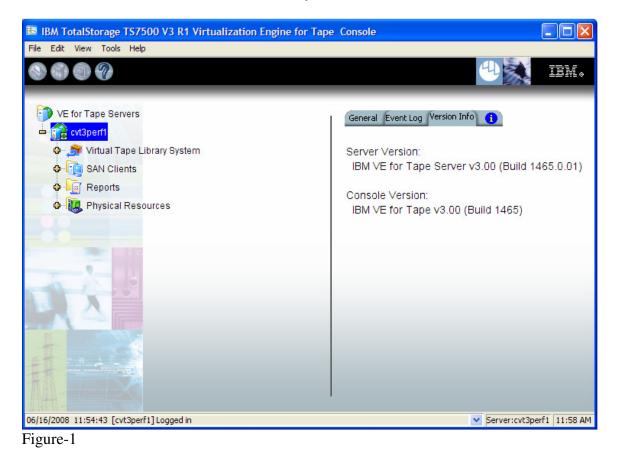
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- 2. Double-click VE for Tape Servers to expand the TS7500 list.
- 3. Double-click any server icon.
- 4. In the VE for Tape User Login window, enter the following user name and password:

User Name: **vetapeservice** Password: **service4u** 

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 maintenance levels you have installed. If you see update-ve146501 mentioned in the version info, then you already have service pack 1 installed. Please close the VE Console after you have verified this information.



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# **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.

### 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 **suspend**ed. Instructions on how to suspend failover can be found in section 3.1 of this document.

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 Maintenance Level 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.

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# 2.2 Obtain the latest Installation Instruction and Service Pack

Download the latest service pack by completing the following steps:

1. Using the VE console workstation, go to the following Virtualization Engine service pack level download page:

http://www-1.ibm.com/support/search.wss?rs=1310&tc=STST5U&dc=D400&dtm

- 2. Select the following service pack file and save it to a directory on the VE console workstation:
  - update-ve146501server.zip

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# **3.0 Preparation**

Installation of this patch is disruptive to normal TS7530 operation. Application of the patch will cause the 3954-CV7 server software to shutdown and restart. Schedule time when the TS7530 system can be taken out of normal operation.

### Attention:

### Ensure that all host jobs to the TS7530 are quiesced, and complete all pending TS7530 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-CV7 servers in the frame. Refer to Figure-3 and Figure-4, 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 1.0 to start the **VE for Tape Console** application and login to the VE for Tape server (Figure-4), or highlight the VE for Tape server if already connected, using the following userid and password:

IBM TotalStorage TS7500 V3 R1 Virtua	lization Engine for Tape Console	
File Edit View Tools Help		
S (		tem.
VE for Tape Servers	General	
	Name	Value
∲- 🧊 cvt3perf2	Server Name	cvt3perf1
	Login Machine Name	cvt3perf1.storage.tucson.ibm.com
	IP Address Connected	9.11.210.233
	Login User Name	vetapeservice
	Status	Not logged in
	VE for Tape User Login   Image: Server VE for Tape Server login inform   VE for Tape Server: cvt3perf1   User Name:   vetapeuser   Password:   OK	mation Cancel
Figure-4		

Userid: **vetapeuser** Password: **veuserpassword** 

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- 2. From the VE for Tape Console application, right-click the TS7530 Server.
- 3. Click **Failover**  $\rightarrow$  **Suspend Failover**. Refer to Figure-5.

or Tape Servers		General Event Log	Version Info A	ttention Required Failover Information 👔	
wirock		Name		Value	
😚 Virtual Tape Library System	n	Server Name		cvtroll	
SAN Clients		Login Machine Na	me	cvtroll.storage.tucson.ibm.com	
Reports		IP Address Conne	cted	9.11.202.30	
Reports Resources		Login User Name		vetapeuser	
		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:e7	
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	
Event Log	-			7 minutes 42 seconds	
Diagnostic Summary Dat	а	Setup Mutual Failover	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]	
		Suspend Failover	N	21-01-00-0d-77-3a-74-c6 [initiator]	
System Maintenance	•		N	21-00-00-e0-8b-1a-de-c6 [initiator]	
Options	•	Resume Failover	N	21-01-00-e0-8b-3a-de-c6 [initiator]	
Descaling		View/Update Failover Options	N	21-00-00-e0-8b-1a-80-c6 [initiator]	
Properties Fibre Channel VM		/PN	21-01-00-e0-8b-3a-80-c6 [initiator]		

### WARNING:

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

### 4.0 Purpose and Description

This service pack should be installed on all TS7530 systems, with software version 3.1 that do not have service update-ve146501 installed. TS7530 systems without this service pack will not have support for iSeries AS/400 host using IBM 3577 LTO4 drives, reported density for IBM 3577 L32 library using LTO4 drive, reported density and max block size for IBM 3584 L22 library using EO5 and J1A drives, and extend parameter IBM 3584 LTO2/3 drives.

# **5.0 Installation Time**

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

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# **Installation (Section 6 through 7)**

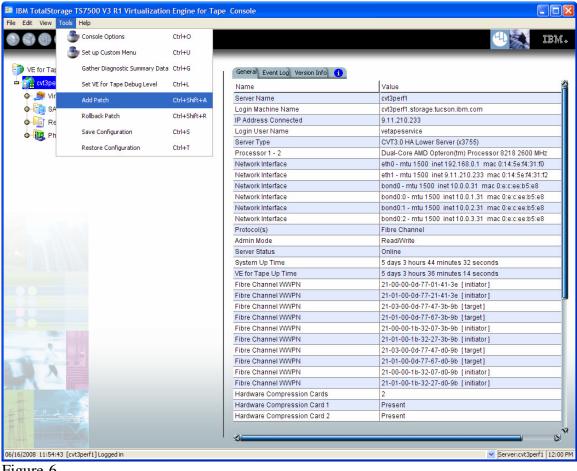
## 6.0 Details of Installation

Perform the steps outlined in sections 6.1 and 6.2 on each server present. You should always start with the lower server in the frame and proceed to the upper server.

# **6.1 Service Pack Installation**

Use the following procedure to install the service pack on each 3954-CV7 VE for Tape server (both the upper and lower server if in an HA environment). Refer to Figure-6 through Figure-8.

- 1. Use a zip utility program to extract the contents of update-ve146501server.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 1.0 to start the VE for Tape Console application.
- 3. Highlight the VE for Tape server and click **Tools**  $\rightarrow$  **Add Patch** (Figure-6)





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4. Select "OK" when presented with the following Warning Message (Figure-7).

Add Pa	tch to VE for Tape Server "cvt3perf1"
⚠	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-	7

5. When presented with the Select Patch File window (Figure-8), index to the VE Console workstation directory where you unzipped the *update-ve146501* service pack file and select it.

👪 Select Patch	File						×
Look <u>i</u> n:	🛅 Maintenan	ce Level		*	ø 🕫		
My Recent Documents	👿 update-ve	146501					
My Documents							
Q6700							
My Network	File <u>n</u> ame:	update-ve1465	01			Ope	n
Places	Files of <u>t</u> ype:	All Files			*	Cano	el

Figure-8

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6. When presented with the confirmation window, type "YES" to confirm (Figure-9)

Add Patch to VE for Tape Server "cvt3perf1"	×
Please confirm you wish to add patch: "update-ve146501"	
Description: "patch fixing issues with iSeries A5/400 host using IBM 3577 LTO4 drives, reported density for IBM 3577 L32 library using LTO4 drive, reported density and max block size for IBM 3584 L22 library using EO5 and J1A drives, Extend parameter IBM 3584 LTO2/	drives"
Type YES to confirm: YES	
	<u>C</u> ancel

Figure-9

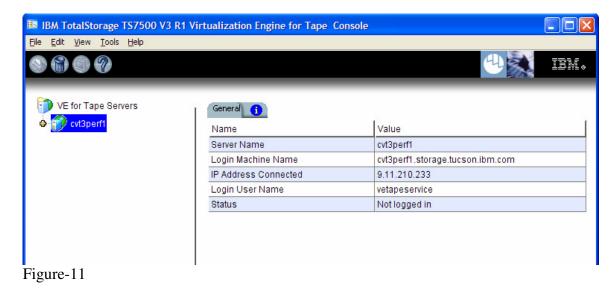
7. If the "Add Patch to VE for tape Server" window appears, click OK. Figure-10

Note: The server software will shutdown and restart.



Figure-10

8. The **VE for Tape Console** application will be disconnected from the VE for Tape server (Figure-11).



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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-12).

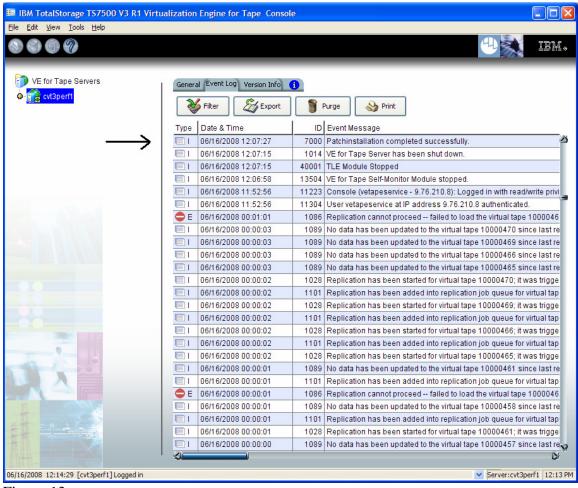
IBM TotalStorage TS7500 V3 R1 le Edit View Tools Help	Virtualization Engine for Tape Console		لعار
			EM
			-
VE for Tape Servers	General 🚹		
Connect	Name	Value	
and the set of the set of the set	Server Name	cvt3perf1	
Connect As	Login Machine Name	cvt3perf1.storage.tucson.ibm.com	
Delete	IP Address Connected	9.11.210.233	
Delete	Login User Name	vetapeservice	
	Status	Not logged in	

Figure-12

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10. Check the TS7530 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-13). There should be an Event Log entry stating the "Patchinstallation completed successfully".

**Note**: You may have to scroll through the log in order to find this entry depending on the configuration of your TS7530.





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# 6.2 Resume Failover (Only for systems with Failover configured)

### Attention:

Only perform this step if step 6.1 has been successfully performed on both the upper and lower servers in the failover pair. If you have not already done so, perform step 6.1 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-CV7 servers. Refer to Figure-3 and 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 1.0 to start the **VE for Tape Console** application and login to the VE for Tape server (Figure-3), 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 TS7530 Server.
- 3. Click **Failover** →*Resume Failover*.

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