I'm the TAC engineer that has picked up your case. From the output you sent in it looks like the file system has become corrupt and we should be able to rectify this by performing a NetInstall to rebuild NOS and the underlying filesystem.  
  
You can download the required files for the Netinstall from the below link:  
  
<ftp://supportftp.brocade.com/outgoing/1783452/netinstall_6740_6940_usb.zip>  
  
The process is two step, firstly you will need to prepare the USB drive for the install and then secondly the install process itself. The USB drive needs to be formatted with EXT2. As Windows does not natively support this I’ve included Partition Wizard and Paragon ExtFS in the folder to enable support.  
  
1) Open Mini Partition Manager (PartitionWizard.exe), right-click on the USB drive, then delete and create a new EXT2 partition.  
2) Once EXT2 partition is created, install the Paragon ExtFS for Windows driver.  
3) Remove and re-insert the USB to have Paragon ExtFS for Windows mount it and assign a drive letter.  
4) Copy the castorXX folder and NOS firmware to the USB drive. With the NOS firmware copy the folder exactly as extracted.  
5) In the root of the USB drive should be three folders:  
lost+found  
castorXX  
nos6.0.2b  
6) IMPORTANT: After copying the files to the drive, you must unmount the USB drive using the Paragon ExtFS GUI or the files will not be written to the USB drive.  
Note: While the Paragon ExtFS GUI unmounts the drive, Windows may report that it is not responding, which is expected. Give it a few minutes to finish writing, then Windows will report the application is responding again.  
7) Reboot the VDX with the USB drive installed. When prompted interrupt the boot process with ESC and select option 3 to boot to the bootprom. From there enter the following:  
a) usb reset 1  
b) ext2ls usb 0:1  
c) makesinrec 0x1000000; ext2load usb 0:1 2000000 castorXX/uImage;ext2load usb 0:1 3000000 castorXX/ramdisk.image;ext2load usb 0:1 4000000 castorXX/silkworm\_bd131.dtb; bootm 2000000 3000000 4000000  
d) Enter “dmesg | grep sd[abc]” to confirm where the USB has been assigned to.  
  
bash-2.04# dmesg | grep sd[abc]  
sd 0:0:0:0: [sda] 16076592 512-byte logical blocks: (8.23 GB/7.66 GiB)  
sd 0:0:0:0: [sda] Write Protect is off  
sd 0:0:0:0: [sda] Mode Sense: 23 00 00 00  
sda: sda1 sda2 sda3 sda4  
sd 0:0:0:0: [sda] Attached SCSI removable disk  
sd 1:0:0:0: [sdb] 3913728 512-byte logical blocks: (2.00 GB/1.86 GiB) <//---2GB USB is assigned to /dev/sdb  
sd 1:0:0:0: [sdb] Write Protect is off  
sd 1:0:0:0: [sdb] Mode Sense: 23 00 00 00  
sdb: sdb1  
sd 1:0:0:0: [sdb] Attached SCSI removable disk  
  
e) mount –t ext2 /dev/sdb1 /load  
f) cd /load  
g) Enter “ls” to confirm you’re in the root of the USB.  
h) cd nos6.0.2b  
i) chmod 755 \*  
j) Confirm the install script has execute permissions via “ls –lh install\*”  
  
bash-2.04# ls -lh install\*  
-rwxr-xr-x 1 root root 52.5k Feb 2 2016 install  
-rwxr-xr-x 1 root root 6.5k Feb 2 2016 install\_verify  
  
k) ./install release; sync  
l) reboot –f  
  
And that should finish the process. I’ve attached a sample install log so you can see the steps in process. The actually install is omitted because it’s the log file would be massive otherwise. If you’d like to run through this on a live session then please let me know. Finally where you see nos6.0.2b above, substitute that for the version of NOS you want to install on the box.