

Test of sonic-kdump								
Platform	Quanta-IX8-56X							
TestCase ID	Summary	Prerequisite	Description	Command(s)	Expected Result	Result	Execute dBy	
1	Enable kdump	One image installed kdump not enabled	Enable kdump with default parameters. Reboot. Verify that kdump is enabled.	show kdump config kdump enable show kdump config save reboot	Before enabling kdump: verify that command "show kdump displays: Kdump Administrative Mode: Disabled Kdump Operational State: Disabled After enabling kdump: Kdump Administrative Mode: Enabled Kdump Operational State: Ready after Reboot After "config save -y" and "reboot -y" command "show kdump" displays: Kdump Administrative Mode: Enabled Kdump Operational State: Ready	pass	O. Singla	
2	Kernel crash creates a dump file	Test case ID 1	Generate a kernel crash and verify that a kernel dump is created. Copy the dump file to a Linux host, and verify that this file can be used with 'crash' program.	echo 1 > /proc/sys/kernel/sysrq echo c > /proc/sysrq-trigger show kdump	Command "show kdump" show one crash file available.	pass	O. Singla	
3	Change kdump memory	Test case ID 2	Change memory used by kdump, and verify it's changed in grub.cfg Reboot and verify that kernel has allocated the new amount of memory	config kdump memory 512M show kdump config save -y reboot -y dmesg grep "Reserving 512MB"	Before changing memory, "show kdump" displays "0M-2G:448M,2G-4G:512M,4G-8G:576M,8G-:640M" Command "config kdump memory 512M" displays "kdump updated memory will be only operational after the system reboots" After changing memory, "show kdump" displays "512M" After reboot, command 'dmesg grep "Reserving 512MB"' displays "... Reserving 512MB of memory at ..."	pass	O. Singla	
4	Several kernel crashes Verify the number of dumps files saved locally	Test case ID 3	Change num_dumps to 2 Generate three kernel crash and verify that only the two last dump files are stoted	config kdump num_dumps 2 show kdump echo 1 > /proc/sys/kernel/sysrq echo c > /proc/sysrq-trigger show kdump	Change num_dumps to 2 'show kdump' displays num_dumps as 2 and one dump file saved Generate kernel crash 'show kdump' displays two dump files Generate kernel crash 'show kdump' displays two dump files (1st dump file has been deleted).	pass	O. Singla	
5	Show kernel crash log	Test case ID 4	Display the kernel log buffer for a kernel crash	show kdump files show kdump log 1 20	"show kdump files" displays two kernel crash files (a dump file and a dmesg file). "show kdump log 1 15" displays the last 15 lines for the kernel log	pass	O. Singla	
6	Disable kdump	Test case ID 5	Disable kdump Generate a kernel crash and verify that a kernel dump is not created Reboot and verify that kernel did not allocated memory for kdump	config kdump disable show kdump	config kdump disable' displays: Kdump Administrative Mode: Disabled Kdump Operational State: Disabled Generate kernel crash 'show kdump' does not display a new dump file	pass	O. Singla	
7	Install a new image	Test case ID 6	Install a new image, and verify that kdump is enabled for this new image	onie_installer install <url>	After the new image is installed, "reboot -y" Command "show kdump" displays that kdump is active: Kdump Administrative Mode: Enabled Kdump Operational State: Ready	pass	O. Singla	