ReleaseOrder ID:	*DCSG00411999*
Headline:	*Point Release: SASFW_Intruder_Phase_16.0 - 16.00.12.00 Firmware IT Release*
Release Version:	*16.00.12.00*
UCM Project:	*SASFW_Intruder*
Sub UCM Project:	*SASFW_Intruder_Phase_16.0*
UCM Stream:	*SASFW_Intruder_Phase_16.0_Rel*
Release Type:	*Point*
State:	*Released*
Release Baseline:	*SASFW_Intruder_Phase_16.0-2020-11-02-16.00.12.00_REL_1604305964@\SAS3*
Release Date:	*2020-11-02 08:32:22.000000*
Date Generated:	*Nov 17, 2020*

Defects Fixed (2):

ID:	DCSG00398894
Headline:	SATA only: WRITE SAME NCQ encapsulation assumes NonData NCQ is supported if Zero EXT is Supported
Description Of Change:	Disable NCQ encapsulation if Zero EXT is supported but Non Data NCQ is not supported
Issue Description:	In case if Zero EXT is supported but Non Data NCQ is not supported by drive, WRITE SAME NCQ encapsulation would send Non Data NCQ command to the drive. Drive would fail the command as Non Data NCQ is not supported by drive. This will cause command failure to host.
Steps To Reproduce:	IO errors are observed when mkfs.ext4 operation is done on drives that support Zero EXT but do not support Non Data NCQ.

ID:	DCSG00411882 (Port Of Defect DCSG00139294)
Headline:	SATA only : Controller hang is observed due to recursive function call.
Description Of Change:	Avoid starting of pended commands to SATA drive from completion functions of a command to avoid recursion.
Issue Description:	Controller hang is observed with ATA pass through command followed by a pended command that fails. At the completion of pass through command, PL starts the pended IOs if any. If the pended IO is failed due to invalid CDB, then immediately completion function is called causing recursion. This causes controller hang.
Steps To Reproduce:	Install the FreeNAS and try to create ZFS pool(Storage -> Pools -> Add) of the direct attached SSDs. - ATA command completes when there are IOs in pendlist. - The pended IO has invalid CDB