



## SCS Engineering Release Notice

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*Phase14 Beta Release Version 2.00.58.00 - LSI\_SAS2\_Phase14.0 (SCGCQ00289788)*

*(SCGCQ00289788) - Phase14 Beta Release Version 2.00.58.00 - LSI SAS2 Phase14.0*



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### **Change Summary ( Defects=1)**

*SCGCQ00289647 (DFCT) - Win8 BSOD when using F/W diag buffers with driver LSI\_SAS2*

**Total Defects Resolved (1)**

(SCGCQ00289647)	Defect 1/1
<b>HEADLINE:</b>	Win8 BSOD when using F/W diag buffers with driver LSI_SAS2
<b>DESC OF CHANGE:</b>	Removed lines containing the following code (2 places) from function HandleFwDiagReply, both inside Windows 8 specific code.
<b>TO REPRODUCE:</b>	SrbExt->pSrbScsi->ScsiStatus = SCSISTAT_GOOD; Removed lines containing the following code (2 places) from function HandleFwDiagReply, both inside Windows 8 specific code.
<b>ISSUE DESC:</b>	<p>SrbExt-&gt;pSrbScsi-&gt;ScsiStatus = SCSISTAT_GOOD;</p> <p>Luiz in test here in Wichita is using Win 8 and was trying to get a F/W trace buffer using the driver. When LSIUtil tries to register the buffer the system bugchecks. We got a crash dump which is at:</p> <p>\\pyro\ftpdrive\common\lvarhav\MEMORY.ZIP</p> <p>Since this is a Win8 dump file you need to use the new debugger to look at it. I didn't have the symbols loaded but the debugger (!analyze -v) said the problem was in lsi_sas2!HandleFwDiagReply. Looking at that code we have:</p> <pre>#if _WIN32_WINNT &gt;= WINDOWS_8     ExSrb = (PSTORAGE_REQUEST_BLOCK)DeviceExtension-&gt;FwDiagIOCTLSrb;     if( !ExSrb )         return;     SrbExt = (PSRB_EXTENSION)ExSrb-&gt;MiniportContext;      pSic = (PSRB_IO_CONTROL)ExSrb-&gt;DataBuffer;     if( pSic-&gt;ControlCode == MPI_FW_DIAG_IOCTL )     {         if( IOCStatus == MPI2_IOCSTATUS_SUCCESS )             pSic-&gt;ReturnCode = MPI_FW_DIAG_ERROR_SUCCESS;         else             pSic-&gt;ReturnCode = MPI_FW_DIAG_ERROR_POST_FAILED;          SrbExt-&gt;pSrbScsi-&gt;ScsiStatus = SCSISTAT_GOOD;          &lt;&lt;&lt;&lt;&lt;&lt;&lt; HIGHLIGHTED LINE          ExSrb-&gt;SrbStatus = SRB_STATUS_SUCCESS;         StorPortNotification( RequestComplete, DeviceExtension, ExSrb );         DeviceExtension-&gt;FwDiagIOCTLSrb = NULL;     } #else</pre> <p>This bug is in 2 places in the routine. The highlighted line above (in both places) is trying to use pSrbScsi to set the ScsiStatus, but there is no pSrbScsi for an Extended SRB IOCTL.</p>