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**1- INTRODUCTION**

This material covers checking the status of the MDS Link devices, including the use of the `hpc_spi_hdw` command. On occasion, it is helpful to know the status of the MDS Link peripheral devices. The Serial Peripheral Interface (SPI), which is located on the Integrated Pulse Generator (IPG) Board reports the status of each peripheral device on the MDS Link.

Sometimes, when there is a fault on the MDS Link, the LEDs on the hardware peripheral devices do not match the state reported by SPI. This is when the `hpc_spi_hdw` command is useful. It can check the SPI view of the state of the hardware. For example, if the scanner will not go to Ready, and it is not obvious what is causing the problem, the command can help you locate the cause of the problem.

**Note**

The `hpc_spi_hdw` command is most useful when it is used with the system showing the scan window.

It is most helpful to use the error log in conjunction with the `hpc_spi_hdw` command. To use this command, you must log into IPG from a c-shell (Service Desktop Manager).

**Note**

The `hpc_spi_hdw` command cannot be used to change the state or status of any piece of hardware on the MDS Link. It is used only for reporting what the SPI thinks the state of the MDS peripheral devices are.

## 2- USING THE HPC\_SPI\_HDW COMMAND

In order to issue the `hpc_spi_hdw` command, follow the directions in Table 2-1.

TABLE 2-1  
 THE HPC\_SPI\_HDW COMMAND

Output/Prompts	Input/Comments
<pre>{sdc@lx-15} 1: . . . . .</pre>	<pre>.rlogin XXXX_XXX-tps&lt;Enter&gt;       (where XXXX_XXX is the       Suite ID)</pre>
<pre>Log onto local (l) or remote (r) vxWorks console ?</pre>	<pre>r&lt;Enter&gt;</pre>
<pre>VxWorks login: . . . . .</pre>	<pre>ipg&lt;Enter&gt;</pre>
<pre>Password: . . . . .</pre>	<pre>ipgservice&lt;Enter&gt;</pre>
<pre>IPG-&gt; . . . . .</pre>	<pre>.hpc_spi_hdw&lt;Enter&gt;</pre>
<pre>ready_to_scan: 0x00000 present rf amp state: 09 operate present rf amp mode: head coil present X axis gradient state: operate present Y axis gradient state: operate present Z axis gradient state: operate transmit coil: transmit head receive coil: receive head hdw recovery in progress: 0x00 none MDS Link Hdw Configured: 0xFD       MDS link       RF amp       gradient amps       T/R dynamic disable       multi coil       SCB       power monitor</pre>	
<pre>No MDS link errors reported</pre>	
<pre>value = 1 = 0x1</pre>	
<pre>IPG-&gt; . . . . .</pre>	<pre>logout &lt;Enter&gt;</pre>
<pre>Connection closed.</pre>	
<pre>{sdc@lx-15} 2:</pre>	

**Note**

The `hpc_spi_hdw` command is case sensitive; use all lower-case letters when issuing it. The correct case is used in Table 2-1.

## 3- SYSTEM RESTORATION

Perform a head or body scan to ensure system functionality.

### REVISION HISTORY

REV	DATE	AUTHOR	PRIMARY REASONS FOR CHANGE
0	August 5, 1998	M. Whitlow	Initial conversion from Toolbook to Word.
1	Oct 13, 1999	M. Keber	Added correct proprietary heading to document;