intel®Technical Advisory

TA-0645-4

5200 NE Elam Young Parkway
Hillsboro, OR 97124

April 28, 2003

Intel® Server Boards SE7501BR2 and SE7501HG2 FRUSDR version 5.5.B does not support default shipping configuration of the Intel Server Chassis SC5200 Hot-Swap Redundant Power.

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Products Affected
Intel® Server Boards SE7501BR2, BBR2BB, SE7501HG2, and BSE7501HG2

Description
The Intel Server Chassis SC5200 (HSRP) Hot-Swap Redundant Power ships from factory with two 350W power supply modules installed in slots PS2 & PS3 (refer to figure below), a third power supply module can be purchased as an accessory to enable full power redundancy. The power supply cage enables two Alternating Current inlets to power all three modules: AC1 powers modules PS1 and PS3, and AC2 powers modules PS2 and PS3. With two power supply modules installed in PS2 and PS3, the system requires AC presence only on the AC2 inlet.

When updating the Intel Server Boards SE7501BR2 and SE7501HG2 with their FRUSDR utilities (version 5.5.B), the update utilities incorrectly request movement of these two power supply modules to positions PS1 and PS2. In this condition, only the PS2 power supply is powered when only AC2 is present; exposing the potential for exceeding power rails which could result on a system reboot. This issue is not exhibited in a fully power redundant configuration (i.e. 3 power modules and 2 AC cords present).
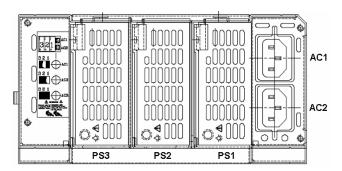

Figure 1. SC5200 HSRP Power Supply Module & AC Inlets

Root Cause
The development of FRUSDR utilities (version 5.5.B) for both Intel Server boards did not take into account that when integrated into an Intel server chassis SC5200 HSRP, the system should allow to be powered with only one AC receptacle present (e.g. AC2).

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Corrective Action / Resolution

Intel is developing new BMC Firmware and new FRUSDR utility for the Intel Server boards SE7501BR2 and SE7501HG2 which will correct this situation, the following table details the version where fixed and estimated release date:

	BMC Firmware	**FRUSDR**	**Release Date**	**Status**
SE7501BR2	1.14	5.5.D	April 3, 2003	Released
SE7501HG2	1.13	5.5.D	April 24, 2003	Released

Table 1 BMC Firmware and FRUSDR versions

Intel recommends customers to update their Intel Server boards SE7501BR2 or SE7501HG2 installed in an Intel Server Chassis SC5200 HSRP to this new BMC Firmware and FRUSDR releases when available. The utilities can be downloaded from http://support.intel.com once available.

Please contact your Intel Sales Representative if you require more specific information about this issue.

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