

intel® Technical Advisory

TA-0752-1

5200 NE Elam Young Parkway
Hillsboro, OR 97124

February 11, 2005

Possible slow reboot using Serial Over LAN Console Redirection with Intel® Management Module

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Products Affected

Intel® Management Module – Professional Edition:
Product Code AXXIMMPRO, MM# 865783
AXXIMMPROBULK, MM#864393

The following server boards may have the Intel Management Module installed:

Product Code	MM #
SE7520AF2	859101 or 867704
BAF2HPBB	857127 or 867700 or 868079
BAF2BB	856967 or 867701 or 868078
BAF2NSBB	864841
SE7520JR2SCSID1	861068 or 867828
SE7520JR2SCSID2	861067
SE7520JR2ATAD1	861061 or 867824
SE7520JR2ATAD2	861066
BJRDDR1BB	861064 or 867823
BJRDDR2BB	861065
BJRDDR1SATABB	861848 or 868003
BBDBBSATA	863169 or 867819 or 867819 or 870123
BBDBBSCSI	861103 or 867642 or 869325 or 870124
BBDVBB	858578 or 867818 or 867816
SE7520BD2	858586 or 867816
SE7520BD2SCSI	858594 or 857507
SE7520BD2V	863222 or 867817

Description

The Intel® Management Module is an orderable option for any of the Intel® server products listed above. When installed in an Intel server the module provides enhanced server management features. One of the features is Serial Over LAN console redirection. This feature allows the user to power on or reset a remote Intel server and watch and interact with the server during the boot process. Infrequently, a remote reboot using Serial Over LAN may take an extended period of time to complete the POST process compared to a boot initiated locally.

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Root Cause

When Serial Over LAN is active during a power on or reboot, the BIOS may infrequently send a single command to also initiate a legacy console redirection mode. This command is no longer required or used, but when issued, the BIOS will expect a response. Since this command is not used, the response will never come and the BIOS will enter a mode, while waiting, which will cause the BIOS activity to slow dramatically.

Corrective Action / Resolution

Intel continues to investigate the issue and plans to release updated BIOS packages for the affected Intel server boards when fully validated.

When the system undergoes a slow boot, the system will operate normally after POST.

Prior to the updated BIOS release, users who experience this issue have several options.

- Allow the slow boot to continue and complete normally.
- Issue the power on or reset commands and the console command as two separate commands from the Command Line Interface prompt. Instead of using "reset –console" or "power -on –console" do the following:
Dpccli> reset
Dpccli> console
Or
Dpccli> power –on
Dpccli> console
- In some cases it may be necessary to AC power cycle the server.

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

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