



This Technical Advisory describes an issue which may or may not affect the customer's product

Intel Technical Advisory

TA-801-2

5200 NE Elam Young Parkway
Hillsboro, OR 97124

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Low voltage warning reported by some Intel® Server Boards using Intel Server Manager 8.40

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Products Affected

Prod Code	MM#
SE7230NH1	872389
BNHBB	872468
SE7230NH1LX	872388
BNHBBLX	872467
SR1475NH1	873808
SR1475NH1N A	874473
SE7221BA1	868624
BBABB	868616
SE7320EP2DG	870426
SE7525RP2	870021
BEP2SCSIBB	870018
BEP2GGB	870427

Description

Intel® Server Manager 8.40 may report low processor core voltage when using Intel® processors which support Intel® Enhanced SpeedStep® technology and/or Thermal Monitor 2. By design, these Intel® processor features (Enhanced SpeedStep® technology and Thermal Monitor 2) have the ability to dynamically adjust the processors core voltage and bus to core multiplier. During an Enhanced SpeedStep® technology or Thermal Monitor 2 event, Intel Server Manager 8.40 may inadvertently trigger a low processor core voltage.

Root Cause

The Intel Server Manager 8.40 installation CD does not contain the correct registry files to account for this dynamically adjusted processor core voltage. As a result, Intel Server Manager 8.40 may inadvertently trigger a low processor core voltage event.

Corrective Action / Resolution

The registry files for the effected server boards have been updated for Intel Server Manager 8.40. The new registry files are available on Download Center through support.intel.com. Select the website which matches your board product code(s). These updated registry files set the CPU Voltage minimum thresholds to 0.838v (346 hex value in registry file).

<http://support.intel.com/support/motherboards/server/se7230NH1-e/index.htm>

<http://support.intel.com/support/motherboards/server/sr1475nh1-e/index.htm>

<http://support.intel.com/support/motherboards/server/se7320ep2/index.htm>

<http://support.intel.com/support/motherboards/server/se7525rp2/index.htm>

<http://support.intel.com/support/motherboards/server/se7221ba1-e/index.htm>

To locate the file, (1) click on the "Software & Drivers" link in the left navigation bar, (2) Choose your appropriate Windows* operating system and click <Go>, and locate the file SE7XXX_REG.ZIP

Follow the instructions in the readme.txt file included in the zip package to install and use the registry file.

Note that this TA-801-2 is an update to 2/9/2006 TA-801-1. TA-801-1 had minimum threshold CPU voltage changes to SE7230NH1 registry files. However, these minimum thresholds were not the correct values to support all processors. If you have previously downloaded and used registry files from TA-801-1 posting, please download the new version associated with this updated TA-801-2.

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

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