



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

# Intel Technical Advisory

TA-1041-1

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## **When a Baseboard Management Controller (BMC) reset occurs due to an IPMI cold reset command or a firmware update, the BMC firmware may not restart properly**

### **Products Affected**

Intel® Server Boards S2600xx product family  
Intel® Server System R1000xx product family  
Intel® Server System R2000xx product family  
Intel® Server System P4000xx product family

### **Description**

Unexpected behavior has been observed when heavy traffic is present on any of the NIC ports available to the Baseboard Management Controller (BMC), coincident with a BMC reset resulting from either an IPMI cold reset command, or the reset that occurs after a BMC firmware update. Under these conditions the BMC firmware may not restart properly.

The BMC will not respond to most IPMI commands after it has entered this state. An additional failure symptom is that the Chassis ID (Blue LED on baseboard and Front Panel) will continue to blink.

This issue applies to all products listed in the Products Affected section above.

### **Root Cause**

BMC firmware prior to BMC 1.19.5018 did not disable the network services before initiating the reset. Consequently, network traffic continued to be buffered to memory. This same area of memory is used for different purposes after the reboot. It is possible that the buffered network traffic would lead to a memory checksum error to be detected by the BMC firmware. This checksum error would prevent the BMC from booting its operating system and instead go into firmware update transfer mode.

### **Corrective Action / Resolution**

This issue has been fixed in BMC 1.19.5018 and later.

### **Workarounds**

Disconnecting any NIC ports available to the BMC before performing firmware updates or an IPMI cold reset command will ensure that this issue will not occur. If the issue occurs, an AC power cycle of the system is required to clear it.

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

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