



This Technical Advisory describes an issue which affects product functionality, reliability or safety

Intel Technical Advisory

TA-1015-1

5200 NE Elam Young Parkway
Hillsboro, OR 97124

June 29, 2012

BMC Security Enhancements Update

Information in this document is provided in connection with Intel products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, life saving, or life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice. The products listed in this document may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Products Affected

Product name	BMC release with fix
Intel® Server board S2600CP family Intel® Server system P4000CP family	1.10.3560
Intel® Server board S2600JF family Intel® Server system H2000JF family	1.10.3560
Intel® Server board S2600GZ/GL Intel® Server system R1000GZ/GL product family Intel® Server system R2000GZ/GL product family	1.10.3560
Intel® Workstation board W2600CR family Intel® Server board S2600IP family Intel® Workstation system P4000CR family Intel® Server system P4000IP family	1.10.3560
Intel® Server board S2600CO family	1.10.3560
Intel® Server board S2600WP family Intel® Server system H2000WP family	1.10.3560
Intel® Server board S2400SC Intel® Server system P4000SC family	1.10.3560
Intel® Server board S2400LP family Intel® Server System H2000LP family	1.10.3560
Intel® Server board S2400GP family Intel® Server system P4000GP family	1.10.3560
Intel® Server board S3420GPLC/LX/RX Intel® Server system SR1630GP/HGP Intel® Server system SR1695GPRX Intel® Server system SR1630GPRX/HGPRX	GP_0125 (LC/LX SKUs) GPRX_0125 (RX SKUs)

Intel® Server board S1200BTL Intel® Server system R1304BTL SHBN/R1304BTL SFAN/P4304BTL SHCN/P4304BTL SFCN	1.14.3503
Intel® Server board S5520UR/URT Intel® Server System SR1600UR/URHS Intel® Server System SR1625UR/URSAS Intel® Server System SR2600URBRP/URLX/URSATA Intel® Server System SR2625URBRP/URLX/URLXT	BMC00.60
Intel® Server board S5500WB Intel® Server System SR1690WB Intel® Server System SR1695WB	BMC00.60
Intel® Server board S5500BC Intel® Server System SR1630BC Intel® Server System SC5650BCDP	BMC00.60
Intel® Server board S5520HC/HCT Intel® Server board S5500HCV Intel® Server System SC5650HCBRP	BMC00.60
Intel® Workstation board S5520SC Intel® Workstation system SC5650SCWS	BMC00.60

Description

Intel takes product security very seriously and is continually working on enhancing the security of its products. Recently a potential security vulnerability was found that affects the Baseboard Management Controller (BMC) software for server boards listed above. While no known exploits of this vulnerability have been reported, Intel has developed a mitigation for this potential issue for our products. A full description of this vulnerability can be found in the document titled "Security Advisory EPSD BMC" at <http://security-center.intel.com/>.

Root Cause

A potential security vulnerability was found related to the improper generation of RSA encryption keys for Intel BMC (Baseboard Management Controller) firmware.

Corrective Action / Resolution

Intel has released an updated BMC firmware that provides mitigation for this potential vulnerability. The version of the BMC firmware update release for specific server boards is listed in the table above. Intel recommends that customers update the BMC firmware as soon as possible.

Intel will also implement the updated BMC firmware into the factory for currently shipping products and for products releasing in the future.

Recommended Customer Action

Intel recommends that customers update the BMC firmware of their Intel Server Boards to the version listed in the table above, or to a later version. The latest BMC firmware version for your specific product can be found at <http://downloadcenter.intel.com>. Alternatively, in the case you are not able to update the older BMC firmware version; BMC Internet access should be disabled. BMC network access which is used to do out-of-band server management is disabled by default.

Enterprise Platforms & Services Division
Intel Corporation