

## IPMI Firmware / BIOS Release Notes Form

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<b>Product Name</b>	<b>X10DRFF(-C)</b>
<b>Release Version</b>	<b>3.1</b>
<b>Release Date</b>	<b>6/7/2018</b>
<b>Previous Version</b>	<b>3.0a</b>
<b>Update Category</b>	<b>Recommended</b>
<b>Dependencies</b>	<b>None</b>
<b>Important Notes</b>	<b>None</b>
<b>Enhancements</b>	<b>1. Updated CPU microcode to address 'Spectre' derivatives (CVE-2018-3639 &amp; CVE-2018-3640) security issue.</b> <b>2. Changed BIOS version to 3.1.</b> <b>3. Updated Broadwell-EP RC 4.4.0 release.</b> <b>4. Added support for IPMI IPV6.</b> <b>5. Removed unsupported memory frequency options from setup menu.</b>
<b>New features</b>	<b>N/A</b>
<b>Fixes</b>	<b>1. Fixed problem of Afu /O command clearing SMC SMBIOS region (\$SMC).</b>

	<p><b>2. Fixed problem of SUM OOB GetSataInfo always showing "Configuration Type" as "AHCI" when setting "Configure SATA as" to "RAID" or "IDE".</b></p> <p><b>3. Fixed failure of SMBIOS to change to default even if preserve SMBIOS setup item is set to disabled during recovery.</b></p> <p><b>4. Set Descriptor Region of BIOS Region Write Access to "No".</b></p>
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**Release Notes from Previous Release(s)**

**3.0a (2/8/2018)**

1. Updated SATA RAID OPRM/EFI driver to RSTe PreOS v4.7.0.1014.
2. Updated Intel Server Platform Services 3.1.3.50 for Grantley Refresh Platforms.
3. Updated CPU microcode SRV\_B\_204 for Haswell-EP C0,1/M0,1/R2 & Broadwell-EP B0/M0/R0.
4. Removed support for using Ctrl+home to trigger recovery.
5. Changed BIOS revision to 3.0a.
6. Changed Memory correctable threshold to 100 and enabled Cloaking for Broadwell CPU E5-26xx SKU.
7. Updated Broadwell-EP RC 4.3.0 PLR10 release.
8. Removed the "P1" string when Memory error occurs on UP server.
9. Corrected POST diagnostic signOn string.
10. Patched Micron Z11C DIMM to improve stability.
11. Changed tCCD\_L Relaxation default to 1 and changed string from Enabled to Auto.
12. Appended VPD - VB tag in VPD-W Tag(0x91) area.
13. Updated CPU microcode SRV\_P\_192 for Broadwell-EP B0/M0/R0.
14. Updated new MRC error log definition.
15. Updated Intel Server Platform Services 3.1.3.38 PLR7 for Grantley Refresh Platforms.
16. Updated CPU microcode SRV\_P\_181 for Broadwell-EP B0/M0/R0.
17. Updated CPU microcode SRV\_P\_182 for Haswell-EP C0,1/M0,1/R2.
18. Added Intel SPI vulnerability patch for Grantley.
19. Updated Broadwell-EP B0/M0/R0 CPU uCode MEF406F1\_0B000022.
20. Added "SMBIOS Preservation" Enabled/Disabled item for flash recovery.
21. Enhanced SMC Recovery Flash Boot Block feature.
22. Displayed setup item "ACS Control" to Enable/Disable PCIe Access Control Services Extended Capability.
23. Added BBS reset function to SmcOobLoadBiosDefault().
24. Added SumBbsSupportFlag into DAT file.
25. Added support for JEDEC NVDIMM.
26. Added support for LSI 3008/3016 HBA sensor.
27. Displayed Monitor/Mwait setup item.
28. Added ability of MECl (Multiple Event Count Increment) and METW (Multiple Event Time Window) to work with memory correct error and PCIe error reports.
29. Added VB tag to VPD data if not already present.
30. Implemented SMC Recovery Flash Boot Block feature.
31. Fixed issue of SUM TC306 and TC317 failing in certain configuration cases.
32. Fixed problem of system hanging after Watch Dog function is enabled and then BIOS is updated.
33. Fixed incorrect memory error location on UP server.
34. Fixed missing Manufacturer string in SMBIOS type 17 when Ramaxel DIMM is plugged in.
35. Fixed problem of NVDIMM setup items appearing when optimized defaults load even without NVDIMM being installed.
36. Fixed problem of system hanging on POST code 0xB2.
37. Fixed problem of system resetting or hanging after Watch Dog function is enabled during BIOS update.
38. Fixed inability to get correct Memory CECC DIMM location via SD5.
39. Fixed inability to log Patrol Scrub UCE.
40. Fixed problem of system hanging at 79 with some NVDIMMs.
41. Applied AMI EIP EIP274689 to fix some BIOS setup items not working properly with default values loaded on the CPU page.

- 42. Fixed issue where changes in METW or MECI values do not take effect in current boot to OS.*
- 43. Corrected MECI help string typo.*
- 44. Fixed system hanging at 0xA9 when the GPNV event log is full.*
- 45. Fixed system hanging at POST 0xB2 when installing Mellanox MCX311a and MCX312C-XCCT.*
- 46. Fixed SUM error when running "GetCurrentBiosCfgTextFile" after BIOS setup modified by AMIBCP.*
- 47. Fixed inability to change "Processor Frequency" when setting "Boot performance mode" to "Max Efficient" by AMIBCP.*
- 48. Fixed system hanging when plugging in an add-on card that contains non-SMC format VPD data.*
- 49. Fixed multiple event time count not following the specifications.*
- 50. Fixed problem of incorrect PCI slot number showing on Legacy/UEFI mode.*