

## IPMI Firmware / BIOS Release Notes Form

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<b>Product Name</b>	<b>X10DRG-H(T)</b>
<b>Release Version</b>	<b>3.1c ME: 3.1.3.72</b>
<b>Release Date</b>	<b>5/23/2019</b>
<b>Previous Version</b>	<b>3.1a</b>
<b>Update Category</b>	<b>Recommended</b>
<b>Dependencies</b>	<b>None</b>
<b>Important Notes</b>	<b>N/A</b>
<b>Enhancements</b>	<b>1. Updated BIOS version to 3.1c for formal release. 2. Updated RSTe and VROC files using VROC_PreOS_6.1.0.1017 package. 3. Updated VBIOS to v1.09.00. 4. Updated Haswell microcode to 43 and Broadwell microcode to 36. 5. Update SPS version 05:3.1.3.72.</b>
<b>New features</b>	<b>N/A</b>
<b>Fixes</b>	<b>N/A</b>

***Release Notes from Previous Release(s)***

***3.1a (4/18/2019)***

1. Updated BIOS version to 3.1a for formal release.
2. Updated RSTe and VROC files using VROC\_PreOS\_6.1.0.1017 package.
3. Updated VBIOS to v1.03.01.
4. Updated SMBIOS Type 4 to match the CPU Sensor name with IPMI.

***3.1 (6/15/2018)***

1. Implemented enhancement to address 'Spectre' variant 2 (CVE-2018-3639 & CVE-2018-3640) security patch issue.
2. Updated BIOS revision to 3.1 for formal release.
3. Set Descriptor Region (Bit 0) of BIOS Region Write Access to "No".
4. Fixed failure of Test Case #320.

***3.0b (4/23/2018)***

1. Updated BIOS revision to 3.0b for formal release.
2. Fixed failure of add-on card (AOC-S3108L-H8iR) to display OPROM message on X9DRG-O-PCIE PCIe extended board.

***3.0a (2/20/2018)***

1. Implemented enhancement to address 'Spectre' variant 2 (CVE 2017-5715) security patch issue.
2. Updated BIOS version to 3.0a for formal release.
3. Updated for Intel security patch.
4. Fixed problem of SMCIPMITool reporting wrong BIOS revision.
5. Fixed problem of dmidecode -t 34 returning invalid length of data.