

## IPMI Firmware / BIOS Release Notes Form

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<b>Product Name</b>	<b>X10DRG-H(T)</b>
<b>Release Version</b>	<b>3.1a ME: 05:3.1.3.38</b>
<b>Release Date</b>	<b>4/18/2019</b>
<b>Previous Version</b>	<b>3.1</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 3.1a 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.</b>
<b>New features</b>	<b>N/A</b>
<b>Fixes</b>	<b>N/A</b>

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

**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.*