

## IPMI Firmware / BIOS Release Notes Form

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<b>Product Name</b>	<b>X10DAC/X10DAi</b>
<b>Release Version</b>	<b>3.2 ME: 3.1.3.72</b>
<b>Build Date</b>	<b>12/16/2019</b>
<b>Previous Version</b>	<b>3.1c</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. Changed the BIOS revision to 3.2 2. Updated the CPU microcode revisions for Haswell-EP C0/C1/M1 revision 43 and Broadwell-EP B0/M0/R0 revision 38. 3. Updated SINIT ACM to 3.1.4 for Intel -SA00240 (CVE-2019-0151 CVSS 3.1: 7.5 High). 4. Updated the initial memory value of tccd.</b>
<b>New features</b>	<b>N/A</b>
<b>Fixes</b>	<b>N/A</b>

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

**3.1 (6/27/2018)**

1. Updated processor  $\mu$  codes Haswell-EP C0/C1/M0/M1/R2 rev. 43 and Broadwell-EP B0/M0/R0 rev. 36.
2. Updated SPS firmware version to 3.1.3.72.
3. Updated Intel VROC version to 6.1.0.1017.

**3.1 (6/27/2018)**

1. Updated CPU microcode to address 'Spectre' derivatives (CVE-2018-3639 & CVE-2018-3640) security issue.

**3.0a (2/5/2018)**

1. Implemented enhancement to address 'Spectre' variant 2 (CVE 2017-5715) security issue.
2. Updated RC to 4.3.0.
3. Updated microcodes to Haswell-EP C0/C1/M0/M1/R2 rev. 3C and Broadwell-EP B0/M0/R0 rev. 2A.
4. Added tCCD\_L setup option.
5. Set security device support item to be hidden when this option is disabled.
6. Fixed problem of keystroke and keeping drive plugged in required for USB flash drive when HDD bit lock is enabled.