

## IPMI Firmware / BIOS Release Notes Form

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<b>Product Name</b>	<b>X11DPFF-SN</b>
<b>Release Version</b>	<b>3.1 SPS: 4.1.04.296</b>
<b>Release Date</b>	<b>5/8/2019</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>	<ol style="list-style-type: none"><li>1. Updated Skylake-SP/Cascade Lake-SP CPU microcode.</li><li>2. Updated Intel BKCWW16 2019 PV PLR1.</li><li>3. Updated SPS_E5_04.01.04.296.0 from BKC WW16 2019.</li><li>4. Updated EIP467272 for AMI SA50069, SA50070.</li><li>5. Displayed 3rd IPMI version in BIOS setup.</li><li>6. Set SDDC Plus One or SDDC to disabled by default.</li><li>7. Updated SATA/sATA RAID OPROM/EFI driver to VROC PreOS v6.1.0.1017.</li><li>8. Set PCIe correctable and uncorrectable (non-fatal) error report to disabled by default.</li><li>9. Added support for Linux built-in utility efibootmgr.</li><li>10. Updated valid range of IPMI setup item VLAN ID to 1-4094.</li><li>11. Added driver health warning message.</li><li>12. Enhanced BIOS setup menu to auto-switch the Option ROM's value</li></ol>

	<p>and hide the unexpected value when boot mode changes.</p> <p>13. Enhanced BIOS setup menu to switch the boot mode value and Option ROM's values when CSM support is disabled and applied this to enabled secure boot mode case.</p> <p>14. Changed OPROM settings to EFI for OEM BIOS that only changes the boot mode to UEFI without other changes.</p> <p>15. Enhanced F12 hot key PXE boot feature.</p> <p>16. Set ADDDC Sparing to enabled by default.</p>
New features	N/A
Fixes	<p>1. Fixed inability to change IPv6 address or IPv6 Router1 IP address.</p> <p>2. Fixed failure of CPU PBF (Prioritized Base Frequency).</p> <p>3. Added workaround for failure of BIOS flash with 156 bytes PubKey (Error: "Secure Flash Rom Verify Fail").</p> <p>4. Modified UEFI network description to IPv4/IPv6 to follow Industry Standard.</p> <p>5. Applied workaround for inability of SUM to get full setting of IODC setup item.</p> <p>6. Fixed failure to boot into VMware OS when set to Maximum Performance even if Monitor/MWAIT is enabled.</p> <p>7. Fixed the missing asset information with AOC-MTG-i2T SIOM.</p>

*Release Notes from Previous Release(s)*

**3.0a (3/22/2019)**

1. Added support for Purley Refresh platform.
2. Updated SATA RAID OPRM/EFI driver to RSTe PreOS v6.0.0.1024.
3. Added support for Monitor Mwait feature.
4. Patched missing PSU information if backplane MCU reports wrong PSU information.
5. Set BMC MAC address to UUID for system without onboard LAN1 or with onboard LAN1 disabled.
6. Hid setup item "L2 RFO Prefetch Disable" to adhere to draft template v0.7.
7. Changed BIOS revision to 3.0a.
8. Enabled RFC4122 UUID support.
9. Fixed malfunction of disabling Watch Dog while flashing BIOS under OS.
10. Fixed problem of BIOS always retrying boot when Re-Try Boot is Disabled.
11. Fixed malfunction of support for LEGACY to EFI.
12. Fixed failure of always turbo in new Linux kernel 7.2.
13. Fixed problem of system hanging and falling into a dead loop when setting enabled CPU core number to 1 in always turbo mode.
14. Fixed problem of CPU core numbers and maximum turbo ratio not matching in always turbo mode.
15. Fixed inability of user to configure VMD setting for M.2 ports.