IPMI Firmware / BIOS Release Notes Form

Product Name	**X10DRS-2U/3U/4U**
Release Version	**3.1a SPS: 3.1.3.50**
Release Date	**1/11/2019**
Previous Version	**3.1**
Update Category	**Recommended**
Dependencies	**None**
Important Notes	**None**
Enhancements	**1. Updated Haswell-EP CPU microcode from SRV_P_258.** **2. Updated CPU microcode for PC6 issue.** **3. Updated EIP393007 & EIP411789 for TPM vulnerability when resuming S3.** **4. Updated IPv6 router-related setup item string.** **5. Added support for RFC4122 UUID format feature to set RFC4122 encoding from build time produced by IPMICFG 1.29 tool or newer.** **6. Set PCI hot-plug function to always enabled.**
New features	**N/A**
Fixes	**1. Fixed missing VLAN items in setup menu.** **2. Fixed malfunction of Windows Consistent Device Naming (CDN).**

	3. Fixed malfunction of METW if many error events are triggered within a very short time.

3.1 (8/29/2018)

1. Updated CPU microcode to address 'Spectre' derivatives (CVE-2018-3639 & CVE-2018-3640) security issue.
2. Changed BIOS revision to 3.1.
3. Added support for IPMI IPV6.
4. Removed unsupported memory frequency options from setup menu.
5. Disabled Cloaking for Broadwell E5-2687W V4 CPU (W: workstation SKU).
6. Updated Broadwell-EP RC 4.4.0 release.
7. Implemented anti-rollback for FDT Read-Only.
8. Modified SecureFlash to support debug sign that adheres to HSM.
9. Fixed problem of Afu /O command clearing SMC SMBIOS region ($SMC).
10. Fixed problem of SUM OOB GetSataInfo always showing "Configuration Type" as "AHCI" when setting "Configure SATA as" to "RAID" or "IDE".
11. Fixed inability to enter setup menu by pressing "DEL" key if Re-try Boot feature is enabled and there are no boot devices.
12. Fixed failure of UEFI OS to boot or install when disabling BMC by motherboard jumper "JPB1" or by setting "BMC Support" to Disabled via BIOS setup.
13. Set Descriptor Region of BIOS Region Write Access to "No".
14. Fixed the issue of UEFI Boot option becoming "Disabled" if HDD is re-plugged in with UEFI Windows on its native installation environment.
15. Fixed problem of BIOS always retrying boot when Re-Try Boot is Disabled.