IPMI Firmware / BIOS Release Notes Form

Product Name	**X11DAL-i**
Release Version	**3.1c**
Release Date	**05/02/2019**
Previous Version	**3.1**
Update Category	**Critical**
Dependencies	**None**
Important Notes	**None**
Enhancements	**1. Changed BIOS revision to 3.1c.** **2. Implemented anti-rollback for FDT Read-Only.** **3. Updated Intel Server Platform Services 3.1.3.72 for Grantley Refresh Platforms.** **4. Updated SATA/sSATA RAID OPROM/EFI driver to VROC PreOS v6.1.0.1017.** **5. Updated Haswell-EP/Broadwell-EP CPU microcode from SRV_P_273 for INTEL-SA-00233 Security Advisory to address CVE-2018-12126, CVE-2018-12127, and CVE-2018-12130 security issues.**
New features	**N/A**
Fixes	**1. Fixed problem of BIOS always retrying boot when Re-Try Boot is Disabled.**

	2. Fixed malfunction of METW if many error events are triggered within a very short time. **3. Displayed the driver health support pages to support LSI (Broadcom 9440-8i) driver health status.**

Release Notes from Previous Release(s)

3.1 (06/06/2018)

1. Updated CPU microcode to address 'Spectre' derivatives (CVE-2018-3639 & CVE-2018-3640) security issue.
2. Changed BIOS version to 3.1.
3. Added "SMBIOS Preservation" Enabled/Disabled item for flash recovery.
4. Enhanced SMC Recovery Flash Boot Block feature.
5. Updated SATA RAID OPROM/EFI driver to RSTe PreOS v4.7.0.1014 (RSTe SATA 4.7.0.1069 and NVMe 4.7.0.2063).
6. Updated Intel Server Platform Services 3.1.3.50 for Grantley Refresh Platforms.
7. Removed support for using Ctrl+home to trigger recovery.
8. Added support for UEFI mode PXE boot via F12 hot key Net boot.
9. Updated Broadwell-EP RC 4.4.0 release.
10. Fixed failure of HD audio 7.1ch back panel function test.
11. Fixed problem of SuperFlash hanging when flashing BIOS.
12. Fixed problem of SuperFlash showing garbage string.
13. Updated FlashDriver module to Label 5 in order to fix inability of system to enter recovery mode when MAIN block is updated 45% and then system powers off.
14. Set Descriptor Region of BIOS Region Write Access to "No".

3.0a (02/08/2018)

1. Changed BIOS revision to 3.0a.
2. Updated CPU microcode SRV_B_204 for Haswell-EP C0,1/M0,1/R2 & Broadwell-EP B0/M0/R0.
3. Changed Memory correctable threshold to 100 and enabled Cloaking for Broadwell CPU E5-26xx SKU.