***Notes to Release Notes Authors***

* *All fields must be completed; please indicate as “N/A” if not applicable.*
* *Release Notes should document functional changes, dependencies, bug fixes and added features.*
* *Release Notes must not mention the methods of implementation and/or internal processes.*
* *Release Notes must not mention of silicon errata and/or other external causations.*
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**IPMI Firmware / BIOS Release Notes Form**

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| **Product Name** | **X11SCL-IF** |
| **Release Version** | **1.3** |
| **Release Date** | **2/21/2020** |
| **Build Date** | **2/21/2020** |
| **Previous Version** | **1.2** |
| **Update Category** | **Critical** |
| **Dependencies** | **None** |
| **Important Notes** | **None** |
| **Enhancements** | **1. Corrected the "DeepSx Power Policies" item string.****2. Updated RC to Mehlow Refresh PV version 7.0.58.44.****3. Displayed the "SGX Launch Control Policy" items in the BIOS setup menu.****4. Added SMC HDD Security feature.****5. Updated Microcodes M22906EA\_000000D2 (U-0 Stepping), M02906EB\_000000D2 (B-0 Stepping), M22906EC\_000000D2 (P-0 Stepping), and M22906ED\_000000D2 (R-0 Stepping) for INTEL-SA-00320 Security Advisory to address CVE-2020-0543 (6.5, High) security issue and for INTEL-SA-00329 Security Advisory to address CVE-2020-0548 (2.8, Low) and CVE-2020-0549 (6.5, Medium) security issue.****6. Updated flag for skipping password prompt window.****7. Updated BiosAcm to 1.7.1 (20191213) and SinitAcm to 1.7.8 (20191220) for INTEL-SA-00240 to address CVE-2019-0151 (7.5, High) and CVE-2019-0152 (8.2, High), for INTEL-SA-00220 to address CVE-2018-0123 (8.2, High) and CVE-2019-0124 (8.2, High), and INTEL-SA-00164 to address CVE-2019-0184 (6.0, Medium).** |
| **New features** | **None** |
| **Fixes** | **1. Fixed inability of ME to enter recovery mode.****2. Fixed inability of BIOS to load default when plugging in M.2.****3. Added support for erasing NVMe Opal device (like Samsung 970 EVO model MZ-V7E250) without setting admin password.** |

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

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| ***1.2 (10/24/2019)****1. Changed BIOS version to 1.2.**2. Added support for BMC AUX revision displaying.**3. Updated Microcode M22906EA\_000000C6 (U-0 Stepping), M02906EB\_000000C6 (B-0 Stepping), Microcode M22906EC\_000000C6 (P-0 Stepping), and M22906ED\_000000C6 (R-0 Stepping) for INTEL-SA-00270 Security Advisory to address CVE-2019-11135 (6.5, Medium) security issue.**4. Updated the SINIT ACM to version 1.7.3 for INTEL-SA-00220 Security Advisory to address CVE-2018-0123 (8.2, High) and CVE-2019-0124 (8.2, High) security issues.**5. Updated SPS firmware to SPS\_E3\_05.01.03.094.0.**6. Updated the Intel PMC firmware to 300.2.11.1022.**7. Updated the AMI TSE to 2.20.1276.**8. Updated RC to Mehlow Refresh PV version 7.0.58.43 for INTEL-SA-00260 Security Advisory to address CVE-2019-0154 (6.5, Medium) security issue.**9. Updated NVRAM NVMe HddSecurity SmmConfidentialMemModule and TcgStorageSecurity to INTEL-SA-00254 request version for INTEL-SA-00254 Security Advisory to address CVE-2019-0185 (6.0, Midium) security issue.****1.0b (5/24/2019)****1. Changed BIOS version to 1.0b.* *2. Updated Coffee Lake-S R-0 stepping CPU microcode M22906ED\_000000B4.**3. Updated SPS 5.1.03.62 for INTEL-SA-00213 Security Advisory to address CVE-2019-0089, CVE-2019-0090, CVE-2019-0086, CVE-2019-0091, CVE-2019-0092, CVE-2019-0093, CVE-2019-0094, CVE-2019-0096, CVE-2019-0097, CVE-2019-0098, and CVE-2019-0099.**4. Displayed the CPU’s PL1 and PL2 items of Advanced -> CPU Configuration page in the BIOS setup menu.* *5. Updated Intel RSTe RAID Option ROM/UEFI driver to 6.1.0.1017.**6. Updated MCU (906EA-U0 + 906EB-B0 + 906EC-P0) for INTEL-SA-00233 Security Advisory to address CVE-2018-12126, CVE-2018-12127, and CVE-2018-12130.**7. Updated RC to version 7.0.58.41.**8. Updated USB and Fastboot module.* *9. Enhanced the solution for the error/warning message from dmidecode after a modification by AMIDE.**10. Renamed “AC Loss Policy Depend on” back to “Restore on AC Power Loss”.**11. Updated to avoid inability to flash OA License Key randomly.**12. Added Driver Health setup item.**13. Added Driver Health warning message.* *14. Added OEM strings to 50 bytes in Type 11.* *15. Updated IPv4 and IPv6 setup items string.* *16. Updated BIOS Setup Menu for the item “Always Turbo Mode” in Advanced/CPU Configuration page.**17. Added code for Consistent Device Name support.**18. Added support for Linux built-in utility efibootmgr.**19. Set OptionRom and boot mode select to EFI while CSM is disabled.**20. Changed UEFI Lan Boot option name format for SUM requirement.**21. Added RFC3021 solution for the network stack (/32 subnet mask support).**22. Fixed issue of DIMM location showing “¡§No DIMM info¡” in Event Logs when ECC error occurs.**23. Fixed issue of DIMM location to always show “DIMMA1” in BIOS Event log when ECC error occurs.**24. Fixed issue of “"?[1;31;40m” being shown on POST screen when EFI driver is “unhealthy”.**25. Fixed problem of BMC VGA status being enabled in SMBIOS Type 41 when JPG1 is disabled (In 2-3).**26. Fixed issue of onboard video having an output when JPG1 is disabled.**27. Fixed problem of hot-plug being registered when the PCH root port bridge is without a plug in add-on card.**28. Updated “Restore Optimized Defaults” string for Mehlow Server template.**29. Modified UEFI network description to IPv4/IPv6 to follow Industry Standard.**30. Added workaround for BIOS flash failure with 156 bytes PubKey (Error: “Secure Flash Rom Verify Fail”).**31. Fixed problem of the system hanging in CP: 0xF4 when the system recovery occurs in BIOS with TPM module.**32. Fixed problem of the value of Power Limit 2 displaying as 0 in setup menu when setup menu is set to 0 (AUTO).**33. Fixed issue of system may or may not hanging up when LAN1 is disabled.* *34. Fixed issue of system recovery hanging up when TPM is installed.**35. Fixed abnormal issue of DMI Type 17 data.****1.0a (12/19/2018)****1. Added a CallBack for enabling Secure Boot.**2. Added Early Video messages when BIOS is in recovery mode.**3. Added "ACPI T-States" setup item.**4. Enhanced JPG1 function for running SUM with JPG1 2-3.**5. Enhanced "NVMe FW Source" function.**6. Added support for RFC4122 UUID format feature so that RFC4122 encoding from build time is produced by IPMICFG 1.29 tool or newer version.**7. Added SATA Frozen function.**8. Displayed "AERON" and "MCEON" strings during POST when "PCI AER Support" or "Memory Corrected Error" is enabled.**9. Hid "ECC Support" item.**10. Set the default of "Memory Corrected Error Enabling" to disabled.**11. Updated the Intel BIOS ACM version to 1.5.0 and SINIT ACM to 1.6.0.**12. Added ability to use token to define the GPIO for PEG port reset.**13. Updated Intel Reference Code to version 7.0.48.21.**14. Added "SMC SMBIOS Measurement" feature for PCR#1 measurement and enabled "Measure\_Smbios\_Tables".**15. Added "MCEON" and "AERON" POST strings for SOL console when items are enabled.**16. Fixed abnormal function of LAN2 PXE.**17. Updated RAID option ROM and UEFI driver to 5.5.1028.**18. Fixed inability of Boot Option of UEFI Application Boot Priorities to load default via Afu tool with command "/N".**19. Changed "Sata Interrupt Selection" default value to MSI.**20. Fixed problem of serial port UID order not following COM port order after BIOS update.**21. Fixed problem of PCR#1 value changing during Legacy boot with TPM 2.0 when Measure\_Smbios\_Tables is disabled.**22. Revised SA/PCH Configuration Page Form Set GOTO setting.**23. Fixed problem of InBand receiving incorrect OEM FID size.* |

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*Product Manager Date*