

## BIOS Release Notes Form

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<b>Product Name</b>	<b>X11SCL-F</b>
<b>Release Version</b>	<b>1.8</b>
<b>Release Date</b>	<b>5/13/2022</b>
<b>Build Date</b>	<b>5/13/2022</b>
<b>Previous Version</b>	<b>1.6</b>
<b>Update Category</b>	<b>Critical</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. Changed the BIOS version to 1.8.</li><li>2. Synched up 5.13_1AURF_RC7.0.58.50_054(189.B09).</li><li>3. Updated Microcode M22906EA_000000F0(U-0 Stepping) and M22906ED_000000F0(R-0 Stepping) to allow INTEL-TA-00615 to address CVE-2022-21166(5.5 High), CVE-2022-21123(6.1 High), and CVE-2022-21127(5.6 High), to allow INTEL-TA-00617 to address CVE-2022-21151(5.3 High), and to allow INTEL-TA-00614 to address CVE-2022-0005(4.9 High).</li><li>4. Updated Intel SINIT ACM to 1.10.1 to allow INTEL-TA-00601 to address CVE-2021-33123 (8.2 High) and CVE-2021-33124 (7.5 High) security issues.</li><li>5. Updated SPS FW to SPS_E3_05.01.04.600.0 for IPU 2022.2.</li><li>6. Added IPMI UEFI PXE boot to all LAN ports.</li></ol>

	<b>7. Updated UefiNetworkStack to label 28 and added patch for AMI SA-50110 security issue.</b>
<b>New features</b>	<b>N/A</b>
<b>Fixes</b>	<b>1. Fixed the "Check HTTPS Boot" automation test case.</b>

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

### **1.6 (5/28/2021)**

1. Changed the BIOS version to 1.6.
2. Updated microcode M22906EA\_000000EA (U-0 Stepping) for INTEL-SA-00464 Security Advisory to address CVE-2020-24512 (2.8, Low) security issue.
3. Updated SPS firmware to SPS\_E3\_05.01.04.303 for INTEL-TA-00459 Security Advisory to address CVE-2020-24509 (6.7, Medium) IPU 2021.1.
4. Updated Intel BIOS ACM & SINIT ACM to 1.8.0 for INTEL-TA-00463 to address CVE-2020-12357 (7.5, High), CVE-2020-8670 (7.5 High), and CVE-2020-12360 (5.6, Medium) security issues.
5. Copied the BIOS binary and renamed to adhere to the unique name format.
6. Fixed failure of SUM test 220 due to "PCI AER Support" and "Memory Corrected Error Enabling" setting failing to preserve after flashing BIOS.

### **1.5 (10/5/2020)**

1. Added inband flash status event log to IPMI MEL.
2. Added Hotkey Message Enable/Disable function.
3. Updated SPS firmware to SPS\_E3\_05.01.04.208.0 for INTEL-TA-00391 Security Advisory to address CVE-2020-8744 (7.2, High) and CVE-2020-8755 (4.6, Medium) security issues.
4. Updated microcodes M22906EA\_000000DE (U-0 Stepping), M02906EB\_000000DD\_000000DE (B-0 Stepping), M22906EC\_000000DE (P-0 Stepping), and M22906ED\_000000DE (R-0 Stepping) for Intel IPU 2020.2.
5. Updated Intel IPU 2020.2 RC 7.0.58.47 for Mehlow Refresh Server Platform Service Version.
6. Changed the BIOS version to 1.5.
7. Enhanced SMCI HDD Security feature.
8. Reduced Rowhammer susceptibility for AMI-SA50084 DDR4 Rowhammer vulnerability to address CVE-2020-10255 (9.0, high) security issue.
9. Fixed problem of BIOS setup menu showing "Unknown" when plugging in the InnoDisk memory and boot up into BIOS setup menu.

### **1.4 (5/26/2020)**

1. Changed the BIOS version to 1.4.
2. Implemented IPU 2020.1 update to SPS firmware to SPS\_E3\_05.01.04.113.0.
3. Enhanced the OEM FID feature to support UUID.
4. Updated Intel RSTe RAID Option ROM/UEFI Driver to 6.3.0.1005.
5. Added SMCI HDD Security feature.
6. Updated microcodes M22906EA\_000000D6 (U-0 Stepping), M02906EB\_000000D6 (B-0 Stepping), M22906EC\_000000D6 (P-0 Stepping), and M22906ED\_000000D6 (R-0 Stepping) for INTEL-SA-00320 Security Advisory to address CVE-2020-0543 (6.5, High) security issue, and microcodes M22906EA\_000000D6 (U-0 Stepping), M02906EB\_000000D6 (B-0 Stepping), M22906EC\_000000D6 (P-0 Stepping), and M22906ED\_000000D6 (R-0 Stepping) for INTEL-SA-00329 Security Advisory to address CVE-2020-0548 (2.8, Low) and CVE-2020-0549 (6.5, Medium) security issues.
7. Set the OverclockingLock flag to enabled by default for SGX test.
8. Added support for InnoDisk memory.
9. Fixed inability to change the serial port IO resource.

10. Fixed failure of Secure Erase password and problem of BIOS returning "EFI\_Device\_Error" with SED: Seagate ST1000NX0353.

### **1.3 (2/20/2020)**

1. Added solution for problem of systems with LPDDR3 2133 MT/s DRAMs failing during boot.
2. Corrected the "DeepSx Power Policies" item string.
3. Updated RC to Mehlow Refresh PV version 7.0.58.44.
4. Displayed the "SGX Launch Control Policy" items in the BIOS setup menu.
5. Added SMC HDD Security feature.
6. 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.
7. Updated flag for skipping password prompt window.
8. 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).
9. Fixed inability of ME to enter recovery mode.
10. Fixed inability of BIOS to load default when plugging in M.2.
11. Added support for erasing NVMe Opal device (like Samsung 970 EVO model MZ-V7E250) without setting admin password.

### **1.2 (11/20/2019)**

1. Changed BIOS version to 1.2.
2. Disabled the MCTP for buggy BMC workaround.
3. Updated Microcode M22906EA\_000000CA (U-0 Stepping), M02906EB\_000000CA (B-0 Stepping), and M22906EC\_000000CA (P-0 Stepping) for INTEL-SA-00219 Security Advisory to address CVE-2019-0117 (6.0, Medium) security issue and for INTEL-SA-00220 Security Advisory to address CVE-2019-0123 (8.2, High) security issue.
4. Updated Microcode M22906ED\_000000CA (R-0 Stepping) for INTEL-SA-00219 Security Advisory to address CVE-2019-0117 (6.0, Medium) security issue, Microcode M22906ED\_000000CA (R-0 Stepping) for INTEL-SA-00220 Security Advisory to address CVE-2019-0123 (8.2, High) security issue, and Microcode M22906ED\_000000CA (R-0 Stepping) for INTEL-SA-00270 Security Advisory to address CVE-2019-11135 (6.5, Medium) security issue.
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 SINIT ACM to 1.7.4 for INTEL-SA-00240 to address CVE-2019-0151 (7.5 High) and CVE-2019-0152 (8.2 High), 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).
10. 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, Medium) security issue.
11. Fixed problem of CECC being recorded in event log when METW is "60".

### **1.1 (9/17/2019)**

1. Displayed setup item "BME DMA Mitigation" on the Advanced -> PCIe/PCI/PnP Configuration page.
2. Set memory uncorrectable error to always be recorded, regardless of METW and MECL.
3. Updated SMC OOB module to 1.01.09, added Redfish/SUM Secure Boot feature, and updated OOB for secure boot and reserve Key.
4. Updated SPS firmware to SPS\_E3\_05.01.03.078.0.
5. Added "SATA Frozen" function.
6. Updated RC to Mehlow Refresh PV version 7.0.58.42.
7. Implemented dynamic change for Secure Boot Mode default value.
8. Fixed inability of BIOS to get SMBIOS type 39 power supply FRU data.
9. Updated Coffee Lake-S R-0 stepping CPU microcode M22906ED\_000000BE and Coffee Lake-S P-0 stepping CPU microcode M22906EC\_000000BE.
10. Removed "Hard Drive Security Frozen" setup item from SATA and RSTe Configuration page.
11. Added support for BMC AUX revision displaying.
12. Fixed problem of DIMM location showing "NO DIMM INFO" in Event Logs when Multi-Bit ECC error occurs.
13. Fixed problem of system recovery hanging with TPM installed.
14. Fixed problem of SATA Configuration page showing 1TB for 8TB 4KN HDDs.
15. Fixed problem of key details showing "Security Violation" after loading Factory secure boot keys.
16. Fixed problem of two boot devices occurring in the boot order when installing UEFI CentOS.
17. Fixed failure of OPROM control item if CSM is disabled.
18. Fixed inability of system to find any network adapters and problem of the installation with vSphere aborting.
19. Fixed inability to enable TPM in the BIOS setup menu when plugging in TPM device and then disabling it.
20. Fixed problem of some items being adjusted when user adjusts dual boot order in BIOS setup.
21. Fixed inability to identify duplicated NVMe boot option with more than one of the same NVMe drives on an add-on card.
22. Fixed when use JPEG1 to disabled onboard VGA, and then boot into the operating system the onboard VGA device still exists.

### **1.0b (5/16/2019)**

1. Updated Coffee Lake-S R-0 stepping CPU microcode M22906ED\_000000B4.
2. 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.
3. Displayed the CPU's PL1 & PL2 items of Advanced -> CPU Configuration page on the BIOS setup menu.
4. Updated Intel RSTe RAID Option ROM/UEFI driver to 6.1.0.1017.
5. 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.
6. Updated RC to version 7.0.58.41.
7. Updated USB and Fastboot module.
8. Set OptionRom and boot mode selection to EFI while CSM is disabled.
9. Changed UEFI LAN Boot option name format.
10. Added RFC3021 solution for the network stack (/32 subnet mask support).

11. Fixed problem of DIMM location showing "No DIMM info" in Event Logs when ECC error occurs.
12. Fixed problem of DIMM location always showing "DIMMA1" in BIOS Event log when ECC error occurs.
13. Fixed problem of "?[1;31;40m" showing on POST screen when EFI driver is "Unhealthy".
14. Fixed problem of system hanging when disabling LAN1.

#### **1.0a (2/14/2019)**

1. Changed BIOS version to 1.0a.
2. Updated Intel Reference Code to version 7.0.51.40.
3. Updated CPU MCUs (906EA, U0 + 906EB, B0 + 906EC, and P0).
4. Hid LAN OPRON Control items when LAN#1 OPRON is set to iSCSI.
5. Updated SMC OOB Module to support SMC LSI OOB Module.
6. Added Early Video messages when BIOS is in recovery mode.
7. Added "ACPI T-States" setup item.
8. Enhanced JPG1 function for running SUM with JPG1 2-3.
9. Enhanced "NVMe FW Source" function.
10. Added "SATA Frozen" function.
11. Added support for RFC4122 UUID format feature so that RFC4122 encoding from build time is produced by IPMICFG 1.29 tool or newer version.
12. Displayed "AERON" and "MCEON" strings during POST when "PCI AER Support" or "Memory Corrected Error" is enabled.
13. Hid "ECC Support" item.
14. Set the default of "Memory Corrected Error Enabling" to disabled.
15. Updated the Intel BIOS ACM version to 1.5.0 and SINIT ACM to 1.6.0.
16. Added "SMC SMBIOS Measurement" feature for PCR#1 measurement and enabled "Measure\_Smbios\_Tables".
17. Updated RAID option ROM and UEFI driver to 5.5.1028.
18. Added "MCEON" and "AERON" POST strings for SOL console when items are enabled.
19. Added support for Linux built-in utility efibootmgr.
20. Updated solution "support Linux built-in utility efibootmgr".
21. Added code for Consistent Device Name support.
22. Updated BIOS Setup Menu for the item "Always Turbo Mode" in the Advanced/CPU Configuration page.
23. Updated IPv4 and IPv6 setup item strings.
24. Added OEM strings to 50 bytes in Type 11.
25. Added "Driver Health" setup item.
26. Added Driver Health warning message.
27. Prevented random inability to flash OA License Keys.
28. Renamed "AC Loss Policy Depend on" to "Restore on AC Power Loss".
29. Enhanced the solution for the error/warning message from dmidecode after AMIDE modification.
30. Fixed problem of recovery page title showing as "Main" and recovery page disappearing when moved to another page under recovery mode.
31. Rolled back ME to SPS firmware SPS\_E3\_05.00.03.107.0 to fix inability to power on PCH PRQ sample.
32. Fixed problem of AER occurring in Linux dmesg when Nvidia K80 is installed.
33. Fixed inability of system to boot into OS environment with Apacer M2.
34. Fixed failure of SOL after BIOS update on the platform without real COM2.
35. Fixed inability to Boot Option of UEFI Application Boot Priorities to load default via Afu tool with command "/N".

36. Changed the "SATA Interrupt Selection" default value to MSI.
37. Fixed problem of system hanging in CP: 94h when three interposer add-on cards and one M.2 PCIe NVMe add-on card are plugged in.
38. Fixed issue of PCR#1 value to be changed during Legacy boot with TPM 2.0 when Measure\_Smbios\_tables is disabled.
39. Fixed problem of system hanging up at 0x94.
40. Fixed problem of the system having an exception while entering BIOS Setup with NVMe M2\*1 + SATA M2\*1.
41. Fixed problem of the system hanging in CP: 0xF4 when the system recovery occurs in BIOS with TPM module.
42. Fixed failure of workaround for BIOS flash with 156 bytes PubKey (Error: "Secure Flash Rom Verify Fail").
43. Updated "Restore Optimized Defaults" string for Mehlow Server template.
44. Modified UEFI network description to IPv4/IPv6 to follow Industry Standard.
45. Removed processor version "Type" string for Mehlow Server template.
46. Added Disabled option for "Onboard Video Option ROM" setup item.
47. Fixed problem of hot-plug register setting when an add-on card is not plugged in the PCH root port bridge.
48. Fixed issue of onboard video output displaying screen on DXE stage when JPG1 is disabled.
49. Fixed problem of BMC VGA status being enabled in SMBIOS Type 41 when JPG1 is disabled (In 2-3).