

## IPMI Firmware / BIOS Release Notes Form

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<b>Product Name</b>	<b>X11SCL-F</b>
<b>Release Version</b>	<b>1.2</b>
<b>Release Date</b>	<b>11/20/2019</b>
<b>Build Date</b>	<b>11/20/2019</b>
<b>Previous Version</b>	<b>1.1</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 BIOS version to 1.2.</li><li>2. Disabled the MCTP for buggy BMC workaround.</li><li>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.</li><li>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.</li></ol>

	<p>5. Updated SPS firmware to SPS_E3_05.01.03.094.0.</p> <p>6. Updated the Intel PMC firmware to 300.2.11.1022.</p> <p>7. Updated the AMI TSE to 2.20.1276.</p> <p>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.</p> <p>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).</p> <p>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.</p>
<p><b>New features</b></p>	<p>N/A</p>
<p><b>Fixes</b></p>	<p>1. Fixed problem of CECC being recorded in event log when METW is "60".</p>

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

### **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 MECI.
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 OPROM Control items when LAN#1 OPROM 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).