

## BIOS Release Notes Form

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<b>Product Name</b>	<b>X11SPL-F</b>
<b>Release Version</b>	<b>3.6 SPS: 4.1.04.654</b>
<b>Release Date</b>	<b>1/3/2022</b>
<b>Build Date</b>	<b>1/3/2022</b>
<b>Previous Version</b>	<b>3.5</b>
<b>Update Category</b>	<b>Recommended</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 revision to 3.6.</li><li>2. Updated SATA/sATA EFI driver to VROC PreOS v7.7.0.1054.</li><li>3. Updated AEP uEFI driver to 1.0.0.3531 for IPU2021.2.</li><li>4. Updated AMI label 5.14_PurleyCrb_0ACLA054 for RC0616.D08 2021.2 IPU for INTEL-SA-00527 Security Advisory to address CVE-021-0103 (8.2, High), CVE-2021-0114 (7.9, High), CVE-2021-0115 (7.9, High), CVE-2021-0116 (7.9, High), CVE-2021-0117 (7.9, High), CVE-2021-0118 (7.9, High), CVE-2021-0099 (7.8, High), CVE-2021-0156 (7.5, High), CVE-2021-0111 (7.2, High), CVE-2021-0107 (7.2, High), CVE-2021-0125 (6.7, Medium), CVE-2021-0124 (6.3, Medium), CVE-2021-119 (5.8, Medium), CVE-2021-0092 (4.7, Medium), CVE-2021-0091 (3.2, Low) and CVE-2021-0093 (2.4, Low) security issues.</li><li>5. Updated Intel Server Platform Services for Purley Refresh Server Platforms IPU2021.2 HF1 4.1.4.654.</li></ol>

	<p>6. Updated BIOS ACM 1.7.51, SINIT ACM 1.7.51 PW for INTEL-SA-00527 Security Advisory to address CVE-2021-0103 (8.2, High), CVE-2021-0114 (7.9, High), CVE-2021-0115 (7.9, High), CVE-2021-0116 (7.9, High), CVE-2021-0117 (7.9, High), CVE-2021-0118 (7.9, High), CVE-2021-0099 (7.8, High), CVE-2021-0156 (7.5, High), CVE-2021-0111 (7.2, High), CVE-2021-0107 (7.2, High), CVE-2021-0125 (6.7, Medium), CVE-2021-0124 (6.3, Medium), CVE-2021-0119 (5.8, Medium), CVE-2021-0092 (4.7, Medium), CVE-2021-0091 (3.2, Low) and CVE-2021-0093 (2.4, Low) security issues.</p> <p>7. Updated Skylake-SP/Cascade Lake-SP CPU PV microcode for INTEL-SA-00532 Security Advisory to address CVE-2021-0127 (5.6, Medium) security issue and for INTEL-SA-00365 Security Advisory to address CVE-2020-8673 (4.7, Medium) security issue.</p>
<p><b>New features</b></p>	<p>N/A</p>
<p><b>Fixes</b></p>	<p>N/A</p>

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

### **3.5 (5/19/2021)**

1. Updated 612.D02 for INTEL-SA-00463 Security Advisory to address CVE-2020-12357 (7.5, High), CVE-2020-8670 (7.5, High), CVE-2020-8700 (7.5, High), CVE-2020-12359 (7.1, High), CVE-2020-12358 (6.7, Medium), CVE-2020-12360 (5.6, Medium), CVE-2020-24486 (5.5, Medium), and CVE-2020-0589 (3.8, Low) security issues.
2. Updated BIOS ACM 1.7.43 and SINIT ACM 1.7.4A PW for INTEL-SA-00463 Security Advisory to address CVE-2020-12357 (7.5, High), CVE-2020-8670 (7.5, High), CVE-2020-8700 (7.5, High), CVE-2020-12359 (7.1, High), CVE-2020-12358 (6.7, Medium), CVE-2020-12360 (5.6, Medium), CVE-2020-24486 (5.5, Medium), and CVE-2020-0589 (3.8, Low) security issues.
3. Updated Skylake-SP/Cascade Lake-SP CPU PV microcode for INTEL-SA-00464 Security Advisory to address CVE-2020-24511 (5.6, Medium) and CVE-2020-24512 (2.8, Low) security issues.
4. Updated Intel Server Platform Services for Purley Refresh Server Platforms 4.1.4.505.
5. Added support for IPMI UEFI PXE boot to all LAN ports feature.
6. Updated SATA/sATA EFI driver to VROC PreOS v7.5.0.1152.
7. Enabled system to boot into PXE with DVD installed.
8. Added support for IPv6 HTTP Boot function.
9. Corrected typo in "PCIe PLL SSC" setup item help string.
10. Removed 4G limit of Intel LAN memory if boot mode is not legacy.
11. Updated AEP firmware to FW\_1.2.0.5446 and UEFI driver to 3515 for IPU2021.1.
12. Synced IPv6 status detection rule with BMC to make sure IPv6 status is the same in BIOS and BMC web.
13. Fixed problem of "Configuration Address Source" always showing "DHCP" on IPMI IPv6 page.
14. Corrected display of UEFI OS boot option name in BIOS setup.

### **3.4 (11/3/2020)**

1. Changed BIOS version to 3.4.
2. Updated Skylake-SP/Cascade Lake-SP CPU PV microcode from 20200918\_NDA Release to address Intel-TA-00381: CVE-2020-8696 (2.5, Low) security issue, MD\_Clear Errata, MOB Speedpath, and IRR Restore with RS Throttle (ITR #2).
3. Updated 5.14\_PurleyCrb\_OACLA052 for RC update and 2020.2 IPU PV to address Intel-TA-00358: CVE-2020-0587 (6.7, Medium), CVE-2020-0591 (6.7, Medium), CVE-2020-0592 (3, Low), and Intel-TA-00390: CVE-2020-0593 (4.7, Medium), CVE-2020-8738 (7.5, High), CVE-2020-8739 (4.6, Medium), CVE-2020-8740 (6.7, Medium), and CVE-2020-8764 (8.7 High) security issues.
4. Updated SPS 4.1.4.423 to address Intel-TA-00391: CVE-2020-8755 (4.6, Medium) and CVE-2020-8705 (7.1, High) security issues.
5. Updated BIOS ACM 1.7.41 and SINIT ACM 1.7.49 PW for IPU2020.2 to address Intel-TA-00358: CVE-2020-0588 (3.8, Low) and CVE-2020-0590. (7.7, High) security issues.
6. Updated SATA/sATA RAID OPROM/EFI driver to VROC PreOS v6.3.0.1005 PV.
7. Updated AEP firmware to FW\_1.2.0.5444 to match IPU2020.2.
8. Added force next boot to UEFI Shell via IPMI support.
9. Added function to move all LANs to the top of boot priority when IPMI forces PXE.
10. Added inband flash status event log to IPMI MEL.
11. Fixed inability of 6240R and some refresh 4 serial CPU frequencies to reach maximum when enabling Mwait.
12. Fixed failure of Secure Erase - Password and problem of BIOS returning "EFI\_Device\_Error" with SED: Seagate ST1000NX0353.
13. Corrected BMC firmware revision in BIOS Setup.

14. Fixed problem of system hanging at 0xB2 with some NVMe devices.

### **3.3 (02/21/2020)**

1. Updated AMI label 5.14\_PurleyCrb\_0ACLA050 beta for IPU2020.1 PV.
2. Updated SPS\_E5\_04.01.04.381 from IPU 2020.1 PV.
3. Updated BIOS ACM to 1.7.40 and SINIT ACM to 1.7.48 PW.
4. Fixed system hanging with NVIDIA RTX 6000/8000 when SR-IOV is disabled.
5. Enabled the memory error correction address to be saved into the PPR variable even if memory correctable error reporting is disabled.
6. Changed patrol scrub from uncorrectable to correctable error as a CLX28 workaround.
7. Added BIOS item "HDD word prompt" to enable/disable HDD word prompt window during POST.
8. Updated Skylake-SP/Cascade Lake-SP CPU microcode for Intel-SA-00329 (CVE2020-0548 2.8 Low, CVE2020-0549 6.5 Medium), Intel-SA-00288 (CVE2019-11157 5.3 Medium), and Intel-SA-00317 (CVE2019-14607 7.9 High).
9. Added BIOS support for HDD password erase and reset.
10. Added Redfish functions support.
11. Fixed system automatically rebooting during BIOS POST when ATTO Fiber network card is installed.
12. Fixed the Secure Boot Mode's selected and default option to show "Audit" when the system is in Audit Mode.
13. Removed requirement to use Admin password for erasing TCG device.
14. Fixed problem of two CentOS boot items occurring in boot order if CentOS is installed in RAID 1 system.

### **3.2 (12/2/2019)**

1. Updated AMI label 5.14\_PurleyCrb\_0ACLA049\_BETA for BKC WW36 IPU 2019.2 and AMI security update SA50072.
2. Updated SINIT/BIOS ACM from BKC WW36 IPU 2019.2 to address CVE-2019-0151 and CVE-2019-0152.
3. Updated SPS\_E5\_04.01.04.339.0 from BKC WW36 IPU 2019.2 to address PSIRT-TA-201905-011.
4. Updated Cascade Lake-SP CPU microcode and Skylake-SP microcode.
5. Displayed Setup item "ARI Support".
6. Added setup item to control 16Gb based Single Die Package DIMM tRFC optimization.
7. Updated Secure Boot Key to fix the error message of PK key.
8. Added back erase NVDIMM routine.
9. Updated VBIOS and VGA EFI Driver to 1.10.
10. Enhanced F12 hot key PXE boot feature.
11. Updated the behavior for the feature that updates SMBIOS Type 1 and 3 with FRU0.
12. Added sighting CLX28 workaround and downgraded patrol scrub UC to CE.
13. Added Enhanced PPR function and set disabled as default.
14. Removed PXE option for "OnBoard LanX Option ROM" when "Boot mode select" is UEFI.
15. Corrected display of the IPMI AUX revision.
16. Changed OOB download and Upload Bios Configuration sequence.
17. Fixed problem of two OS (Redhat & Ubuntu) boot devices appearing in boot order.
18. Fixed failure of OPROM control item if CSM is disabled.
19. Fixed problem of Call Trace occurring during Cent6.10 installation while Mwait is set to Disabled and ENERGY\_PERF\_BISA\_CFG mode is set to Maximum Performance in BIOS menu.

### **3.1 (5/21/2019)**

1. Changed BIOS version to 3.1.
2. Updated Skylake-SP/Cascade Lake-SP CPU microcode.
3. Updated Intel BKCWW16 2019 PV PLR1.
4. Updated SPS\_E5\_04.01.04.296.0 from BKC WW16 2019.
5. Update EIP467272 for AMI SA50069, SA50070.
6. Set SDDC Plus One or SDDC to disabled by default.
7. Updated SATA/sSATA RAID OPROM/EFI driver to VROC PreOS v6.1.0.1017.
8. Set ADDDC Sparing to enable by default.
9. Set Leaky Bucket to decrease one memory correctable error count within 2.15 minutes and threshold 512.
10. Fixed problem of system halting or rebooting at POST code 0xB2 or 0x92 when total GPT partition number is more than 256 and RSD is enabled.
11. Fixed inability to change IPv6 address or IPv6 Router1 IP address.

### **3.0b (3/4/2018)**

1. Changed BIOS version to 3.0b.
2. Added support for Purley Refresh platform.
3. Updated CPU microcode MB750654\_0200005A for Skylake-SP H0/M0/U0 CPUs.
4. Updated SATA RAID OPROM/EFI driver to RSTe PreOS v6.0.0.1024.
5. Added support for Monitor Mwait feature.
6. Fixed inability of VMD status to load default if loading default by AFU.
7. Added support for SMC HttpBoot.
8. Set RFC4122 encoding to only be enabled for build time produced by IPMI 1.29 or newer.
9. Set PCIe correctable and uncorrectable (non-fatal) error report to disabled by default.
10. Disabled unused SPS ME "CUPS IIO" and "Volumetric Airflow" sensor.
11. Set NVDIMM ADR timeout to 600us.
12. Enhanced the solution for the error/warning message from dmidecode after a modification by AMIDE.
13. Added support for Linux built-in utility efibootmgr.
14. Updated to SPS 4.1.02.174 or above for INTEL-SA-00185 Security Advisory and RC 549.D13 or above for INTEL-SA-00192 Security Advisory.
15. Fixed problem of BIOS always retrying boot when Re-Try Boot is Disabled.
16. Fixed malfunction of support for LEGACY to EFI.
17. Fixed failure of always turbo in new Linux kernel 7.x.
18. Fixed malfunction of CPU PBF (Prioritized Base Frequency).
19. Fixed incorrect PBF high frequency core number when Hyper-Threading is disabled.
20. Modified UEFI network description to IPv4/IPv6 to follow Industry Standard.

### **2.1 (6/14/2018)**

1. Updated CPU microcode to address 'Spectre' derivatives (CVE-2018-3639 & CVE-2018-3640) security issue.
2. Changed BIOS revision to 2.1.
3. Updated 5.12\_PurleyCrb\_0ACFD088 for Purley Skylake platform PLR7, BKC 2018 WW20.
4. Updated BIOS ACM 1.3.7 and SINIT ACM 1.3.4.
5. Added one event log to record that the event log is full.
6. Added support for VMD settings to be preserved after flashing.
7. Updated SATA RAID OPROM/EFI driver to RSTe PreOS v5.4.0.1039.

8. Added BIOS/ME downgrade check for SPS 4.0.4.340.
9. Added support for UEFI mode PXE boot of F12 hot key Net boot.
10. Added setup item "SmcBusMasterEn" for enabling Parent bridge of the devices in the gSmcPciForceEnableBusMasterList.
11. Corrected BIOS/ME downgrade check for SPS 4.0.4.340.
12. Added support for SATA FLR with enabled as default.
13. Fixed problem of DMI being cleared when running SUM UpdateBios.
14. Fixed problem of Ctrl + Alt + Del causing system to hang after flashing BIOS.
15. Fixed missing SMBIOS Type40 information if LAN 2 is on board.

### **2.0b (2/26/2018)**

1. Updated CPU microcode to address 'Spectre' variant 2 (CVE 2017-5715) security issue.
2. Changed BIOS revision to 2.0b.
3. Updated 5.12\_PurleyCrb\_OACFD085Beta for Purley Skylake platform PLR 4, BKC WW02.
4. Fixed inability to reset the system under DOS by pressing "Ctrl-Alt-Del" on USB keyboard when "Port 60/64 Emulation" is disabled.
5. Fixed problem of SMC skipping first boot option in UEFI mode when retrying boot.
6. Displayed setup item "ACS Control" to Enable/Disable PCIe Access Control Services Extended Capability, with Enabled as default.
7. Disabled CPU2 IIO PCIe root port ACPI hot plug function.
8. Fixed issue with IPMI force boot.
9. Fixed malfunction of "SMBIOS Preservation" Disabled.
10. Fixed inability of some CPUs to display correct microcode revision under BIOS setup menu.

### **2.0a (12/5/2017)**

1. Changed BIOS revision to 2.0a.
2. Updated 5.12\_PurleyCrb\_OACFD084\_BETA for Purley Skylake platform PLR 3.1.
3. Updated CPU microcode SRV\_P\_217 for Skylake-EP H0/M0/U0 stepping CPUs.
4. Updated SPS XML setting for SPS 4.0.4.294.
5. Displayed "PCIe PLL SSC" setup item for clock spectrum function.
6. Enabled display of EarlyVideo message by onboard video when VGA Priority is set to Offboard.
7. Removed the "System Firmware Error (POST ERROR)" error log from BMC and "EFI 01030006" in BIOS event log.
8. Updated BMC LAN configuration for saving settings of BIOS setup menu.
9. Updated help string for tCCD relax setup option.
10. Corrected help string of setup item "Enforce POR".
11. Updated new MRC error log definition.
12. Allowed runtime memory UCE mapout message to be displayed one time during BIOS POST.
13. Masked off PCIe correctable and non-fatal errors.
14. Moved Run Sure item to Memory RAS Configuration setup page.
15. Updated SATA RAID OPROM/EFI driver to RSTe PreOS v5.3.0.1052.
16. Added support for AOC-SLG3-2M2 card.
17. Hid memory frequency 2200 and 2600.
18. Removed support for Ctrl+home triggering recovery.
19. Set display of setup option for always turbo mode function as default.
20. Added the "PEI--IPMI Initialization" Post-Help message.
21. Added Run Sure setup item.

22. Set message "BIOS cannot support downgrade to previous version or ROMID mismatch" to show when trying to downgrade BIOS or flash other model of BIOS.
23. Fixed failure of Password Preservation Test due to password not being preserved.
24. Fixed problem of "Correctable, Non-Fatal and Fatal" error reporting flags being disabled on "Infiniband controller: Mellanox Technologies MT27700 Family [ConnectX-4]" when "PCI PERR/SERR Support" is enabled.
25. Fixed failure of setup item "Install Windows 7 USB support".
26. Fixed problem of the string of "Error DIMM information" on screen being corrupted when equipping failed DIMM.
27. Fixed problem of system sometimes hanging at post code B2 when running Cburn ONOFF.
28. Fixed inability to enter setup menu when pressing "DEL" key if there is no boot device.
29. Fixed problem of SUM GetDmiInfo command error "Invalid DMI information from BIOS" occurring.
30. Fixed failure of SMBIOS Type 20 to fill Interleave Position and Interleaved Data Depth correctly.
31. Corrected Hynix DIMM info as "SK Hynix".
32. Fixed SUM Test Case #216.
33. Fixed problem of IPMI SEL logging "Memory training failure." and "No memory DIMM detected, install memory DIMMs." twice per reboot.
34. Fixed problem of TPM 1.2 PS index not being Write-Protected so that the content of TPM 1.2 PS index still can be modified after TPM 1.2 is nvLocked.
35. Corrected the "Save Changes" setup option string in "Save & Exit" menu.
36. Fixed problem of system generating abnormal strings under DOS after triggering SERR or PERR error event in PCH slot.
37. Fixed problem of system hanging when using AFUWIN/AFULNX to flash BIOS under OS.
38. Fixed problem of DMI clearing when running SUM LoadDefaultBiosCfg.