

## BIOS Release Notes Form

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<b>Product Name</b>	<b>X12SPG-NF</b>
<b>Release Version</b>	<b>1.4b</b>
<b>Release Date</b>	<b>1/9/2023</b>
<b>Build Date</b>	<b>1/9/2023</b>
<b>Previous Version</b>	<b>1.4</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. Updated 5.22_WhitleyCrb_0ACMS_ICX_74 Intel BKCWW46 IPU2023.1, please check header for firmware revisions.</li><li>2. Added enhancements to address the issue with SUM TC: 220/271/356/457/2071/3056/4057 with Windows OS, which caused the boot order compare fail after flashing the BIOS.</li><li>3. Updated SA50157 Boot_Variables_Access.</li><li>4. Updated SEL for processor error.</li><li>5. Updated Intel Server Platform Services for Whitley Server Platforms IPU2023.1 4.4.4.301.</li></ol>
<b>New features</b>	<b>N/A</b>

<b>Fixes</b>	<b>N/A</b>
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#### **Release Notes from Previous Release(s)**

##### **1.4 (7/13/2022)**

1. Updated BIOS version to 1.4.
2. Updated 5.22\_WhitleyCrb\_OACMS\_ICX\_72 Intel BKCWW23 PLR3; INTEL-SA-00657 Security Advisory to address CVE-2022-21233 (6.0, Medium) security issue and INTEL-SA-00686 Security Advisory to address CVE-2021-33060 (7.8, High) security issue.
3. Updated VROC SATA/sSATA EFI driver to VROC PreOS v7.7.6.1004 to address INTEL-TA-00692. CVE-2022-29919 (7.8 High), CVE-2022-30338 (6.7 Medium), CVE-2022-29508 (6.3 Medium), CVE-2022-25976 (5.5 Medium). Updated VROC SATA/sSATA legacy driver to VROC PreOS v6.3.5.1003 Hot Fix to fix 10TB or higher volume drive issue.
4. Added "CSM Support" setup item into the SMCISBForm page.
5. Updated microcode M87606A6\_0D000375 to address the following two issues: INTEL-SA-00657 Security Advisory to address CVE-2022-21233 (6.0, Medium) security issue and INTEL-SA-00686 Security Advisory to address CVE-2021-33060 (7.8, High) security issue.
6. If the FRU0 chassis type is not 1 or 2, synchronize the FRU0 chassis type to SMBIOS type 3.
7. Exposed Link Retrain per port in the BIOS.

##### **1.2 (2/15/2022)**

1. Updated AMI 5.22\_WhitleyCrb\_OACMS\_ICX\_070\_BETA RC27P52 for BKC 2021\_WW52 (PLR1), and RC27P56 for PLR1 HF.
2. Changed text string "VMX" to "Intel Virtualization Technology".
3. Removed 1G option from MMCFG base to avoid system hang.
4. Fixed the SMBIOS event log ERROR CODE that is not displaying correctly under BIOS menu (EFI error type).
5. Rolled back VROC SATA/sSATA EFI driver to VROC PreOS v7.6.0.1012 to fix system hang when VMD is enabled.

##### **1.1c (11/12/2021)**

1. Updated 5.22\_WhitleyCrb\_OACMS\_ICX\_069 Beta Intel BKCWW39 2021 PV MR7, please check header for firmware revisions.
2. Updated Dx/Mx microcode from Intel-Generic-Microcode-20210927\_NDA.
3. Extended NVMe OPROM control options to 24 slots.
4. Enabled shutdown suppression and log MCA IERR to fix crash dump error.
5. Removed default support for the certificates CA-Cert, Client-Cert, and Private-Key.
6. Added multiple KMS servers support for SmcKMS.
7. Allowed COM port parameters to be changed in the BIOS settings.
8. Updated BMC boot status to indicate that the ROM is being flashed at a different memory location.
9. Updated SmcOutBand in SmcPKG/Module/SmcOOB to allow the DMI data to be stored when executing "SUM -c LoadDefaultBiosCfg".

***1.0 (8/31/2021)***

Initial release.