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**DATE:** July 11, 2005  
**PRODUCT:** D945PSN/D945PLM/D945PVS/D945PAW Standard BIOS

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**Build 0044C**

**About This Release:**

- July 11, 2005
- SN94510J.86A.0044.2005.0711.1450
- SATA RAID info:
  - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28
- Memory reference code equivalent to MRC 1.00.
- CPU Patches: M1DF3417, MBDF4117, M9DF4305, M9DF4406.
- Supported firmware hubs:
  - Atmel® - AT49LH00B4
  - SST® - 49LF004B
  - STMicro® - M50FLW040
- SPI parts supported:
  - SST\_25LF040A
  - SST\_25LF080A

**New Fixes/Features:**

- Fixed an issue of no Audio after S3 resume.
- Added support for issuing ATA Security Freeze Lock to IDE devices on resume from S3.

**Known Errata:**

- BIOS recovery from CD is temporarily removed.

**Notes to Validation:**

**Build 0043C**

**About This Release:**

- July 07, 2005
- SN94510J.86A.0043.2005.0707.1254
- SATA RAID info:
  - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28
- Memory reference code equivalent to MRC 1.00.
- CPU Patches: M1DF3417, MBDF4117, M9DF4305, M9DF4406.
- Supported firmware hubs:
  - Atmel - AT49LH00B4
  - SST - 49LF004B
  - STMicro - M50FLW040
- SPI parts supported:
  - SST\_25LF040A
  - SST\_25LF080A

**New Fixes/Features:**

- Fixed delay at checkpoint 0x5A when certain CD drives are attached to the system as master drives.
- Cleared ICH7 SPI Access Request bit on S3 Resume.
- Fixed the problem where F9 key Load Setup defaults loads existing Setup values instead of BIOS defaults in Configuration mode.

**Known Errata:**

- BIOS recovery from CD is temporarily removed.

**Notes to Validation:**

<b>Build 0042C</b>
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**About This Release:**

- June 27, 2005
- SN94510J.86A.0042.2005.0627.1644
- SATA RAID info:
  - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28
- Memory reference code equivalent to MRC 1.00.
- CPU Patches: M1DF3417, MBDF4117, M9DF4305, M9DF4406.
- Supported firmware hubs:
  - Atmel - AT49LH00B4
  - SST - 49LF004B
  - STMicro - M50FLW040
- SPI parts supported:
  - SST\_25LF040A
  - SST\_25LF080A

**New Fixes/Features:**

- Added workaround to fix the LAN drop issue
- Fixed Spurious Interrupt Test failure with the Intel RAID Option ROM Integration Test Suite.
- Cleared CR4[10:9] before boot as per BWG recommendation.
- Updated processor microcode's.
- Corrected string listed for CAS latency in the aggressive settings.
- Fixed issue where Sony CDU76E CD-ROM is not detected and not bootable by the BIOS.
- Fixed POST hang with x8 PCI Express SCSI card.
- Fixed several second delay in POST while performing PS/2 port-swapping.
- Removed unused ICH7 PATA timing code and 40-80 pin cable code.
- Fixed convert and restore flash process.
- Added S3 support for TPM.
- Modified the TRP, and TRCD values used when a bad or errant SPD value is found in one or more of the DIMMs.
- Fixed a problem where the PEG slot was disabled if the card in the slot was a non-graphics card.
- Fixed TPM enable/disable functionality.
- Fixed the issue - "System hangs with PSL-2.8GHz CPU".
- Fixed issue where some CD-ROM drives are not detected in BIOS SETUP.
- Fixed issue where the NetCell SyncRAID 3100 card was not able to boot.

- Fixed the issue PSC T1 is not running at rated frequency.
- Fixed issue where some drives supporting the Security Feature set were not issued the Security Freeze Lock command during POST.
- Implemented a default Intel inside logo display method in case the target CPU badge doesn't exist in Flash.
- Fixed EIST setup question based on processor capability.
- Fixed issue where some CD-ROMs/DVD-ROMs attached as master with no slave were causing long delays in POST.

**Known Errata:**

- BIOS recovery from CD is temporarily removed.

<b>Build 0037C</b>
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**About This Release:**

- June 01, 2005
- SN94510J.86A.0037.2005.0601.1758
- SATA RAID info:
  - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28
- Memory reference code equivalent to MRC 1.00.
- CPU Patches: M1DF3414 and MBDF4112, M9DF4304, M9DF4404.
- Supported firmware hubs:
  - Atmel® - AT49LH00B4
  - SST® - 49LF004B
  - STMicro® - M50FLW040
- SPI parts supported:
  - SST\_25LF040A
  - SST\_25LF080A

**New Fixes/Features:**

- Added Flex Logo & Optional Module support.
- Fixed long delay in POST when some CD-ROMs are attached as an IDE master device.
- Fixed issue where Windows® was unable to enable DMA on SATA drives attached to the system.
- Added UQI language packages.
- Fixed a problem where PEG video devices that contains bridges does not work as the primary video device.
- Fixed slow POST when certain CD-ROMs are attached to the system.
- Fixed issue with Type 17 SMBIOS information.
- Fixed issue with incorrect SMBIOS PCI/PCIe slot information.
- Added Event Log Prompt support.
- Added display of System in Manufacturing Mode.
- Added support for writing SMBIOS data securely via EFI variables.
- Fixed errors with some memory stress tests when USB keyboard is plugged in the system.
- Fixed a hang in 3D Mark with NVideo® PEG cards.
- Fixed a problem where the setup option for XD Execute Disable bit did not work correct.
- Added setup option for SW Single Processor Mode.
- Fixed issue where system would reboot when calling TCG INT1A functions.

**Known Errata:**

- BIOS recovery from CD is temporarily removed.

## Notes to Validation:

Build 0031C
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### About This Release:

- May 19, 2005
- SN94510J.86A.0031.2005.0519.1842
- SATA RAID info:
  - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17 (Ekron)
- Initializing Intel(R) Boot Agent GE v1.2.28 (Tekoa)
- Memory reference code equivalent to MRC 1.00.
- CPU Patches: M1DF3414 and MBDF4112, M9DF4304, M9DF4404.
- Supported firmware hubs:
  - Atmel - AT49LH00B4
  - SST - 49LF004B
  - STMicro - M50FLW040
- SPI parts supported:
  - SST\_25LF040A
  - SST\_25LF080A

### New Fixes/Features:

- Updated board features table.
- Fixed issue where fifth BIOS drive (84h) is not accessible via INT13h in certain system configurations.

### Known Errata:

- BIOS recovery from CD is temporarily removed.