



Server WHQL Testing Services  
Enterprise Platforms and Services Division

# Intel® Server Board S5000PALSATA-NR

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## Server Test Submission (STS) Report For the Microsoft® Windows® Logo Program (WLP)

Rev 2.0

June 22, 2006

This report describes the Intel® S5000PALSATA Server Platform Windows\* Logo Program test run conducted by Intel Enterprise Platforms and Services Division (EPSD). The -NR designation in the product name indicates that this certification applies to non-RAID configuration.

### Purpose of this WLP Submission:

System First Time submission for the Microsoft\* Designed for Windows Logo submission for the Intel® Server Board S5000PALSATA-NR.

| Submission Type:      | Reason for test run  | Check one                           |
|-----------------------|--|-------------------------------------|
| First Time Submission | Initial Microsoft Designed for Windows logo submission. New product submission.  | <input checked="" type="checkbox"/> |
| System Update         | Hardware update. (For example, update submission test run with new processor speeds.)  | <input type="checkbox"/>            |
| BIOS Update           | BIOS and/or Firmware update. (For example, update submission test run with new BIOS to support additional processor speeds.) | <input type="checkbox"/>            |
| OS Update             | OS update. (For example, update submission test run to add Microsoft Designed for Windows Server 2003 logo to product.)      | <input type="checkbox"/>            |

## Revision History and Disclaimers

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| Revision History |           |  |
|------------------|-----------|--|
| Revision         | Date      | Comments   |
| 1.0              | 6/12/2006 | Internal draft of the STS Report for Windows Server 2003 EE x64 Submission for Intel® Server Board S5000PALSATA-NR (non-RAID Configuration). |
| 2.0              | 6/22/2006 | Addition of Submission ID and other details for 64-bit version of Windows Server 2003 EE   |
|                  |           |  |

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## Server Board Submission Information

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### Intel Server Board Submission Report: Completion of WLP

Data in this section reflects system submission information at the time of WLP Update submission.

#### Submission Information

| Submission ID                                  |  |          |
|--|--|----------|
| Submission ID / Master ID                      | 1134174 – 32-bit OS<br>1137101 – 64-bit OS   |          |
| Submission Type                                |  |          |
|  | Check Submission Type  | Comments |
| First-Time Hardware and Driver Test Submission | <input checked="" type="checkbox"/>  |          |
| System Update Test Submission                  | <input type="checkbox"/>   |          |
| Product Category                               |  |          |
| Hardware Category                              | PC System or Server  |          |
| Operating System family                        | Windows Server 2003 32-bit and 64-bit and Windows 2000 (Supported Status only for 2000) families |          |
| Product Detail                                 |  |          |
| General Product Information                    |  |          |
| Equipment Type                                 | Server   |          |
| Primary Target Market                          | Business/Corporate   |          |
| Compliance                                     | All applicable requirements  |          |
| Characterization (optional)                    |  |          |
|  | Check appropriate options  | Comments |
| Web Server                                     | <input checked="" type="checkbox"/>  |          |
| SQL Database Server                            | <input checked="" type="checkbox"/>  |          |
| File Server                                    | <input checked="" type="checkbox"/>  |          |

Deleted: Revision History and Disclaimers

**Server Board Configuration Information**

| <b>Processor</b>                   |   |
|------------------------------------|---|
| Quantity                           | 2 (physical processors installed)   |
| Front Side Bus Speed               | 1067 MHz  |
| Family/Model                       | Dual-Core Intel® Xeon® processors   |
| Speed                              | 1.60, 1.86, 2.00, 2.33, 2.66, 3.00, 3.20, and 3.73 GHz  |
| <b>System Memory</b>               |   |
| Amount Installed                   | 32 GB   |
| Memory Type                        | FB DDR2-533 (4 GB FBDIMMs, ECC)   |
| <b>Power Management</b>            |   |
| ACPI Sleep States (S1, S2, S3, S4) | S1, S4  |
| <b>Server Board Product</b>        |   |
| System uses logo'd motherboard     | NO (Server boards are <u>NOT</u> eligible for logo under the Microsoft* Motherboard logo program)   |
| Board AA #/Fab                     | PBA   |
| Board Manufacturer                 | Intel Corporation   |
| Board Model                        | Intel® Server Board S5000PALSATA  |
| Northbridge* Chipset Manufacturer  | Intel Corporation   |
| Northbridge Chipset Model          | Intel® 5000P Memory Controller Hub  |
| Southbridge* Chipset Manufacturer  | Intel Corporation   |
| Southbridge Chipset Model          | Intel® ESB2-E I/O Controller  |
| <b>BIOS</b>                        |   |
| BIOS Manufacturer                  | AMI*  |
| BIOS Version                       | S5000.86B.01.00.0045  |
| BIOS Date                          | 5/32/2006   |
| BIOS URL (For Updates)             | <a href="http://support.intel.com/support/motherboards/server/S5000PAL/">http://support.intel.com/support/motherboards/server/S5000PAL/</a> |

| Bus Types             |                                     |                   |                                     |
|-----------------------|-------------------------------------|-------------------|-------------------------------------|
|                       | Check all that Apply                |                   | Check all that Apply                |
| PS/2                  | <input checked="" type="checkbox"/> | AGP*              | <input type="checkbox"/>            |
| 1394                  | <input type="checkbox"/>            | PCCard* (16-bit)  | <input type="checkbox"/>            |
| CF (Compact Flash)    | <input type="checkbox"/>            | CardBus* (32-bit) | <input type="checkbox"/>            |
| PCI                   | <input checked="" type="checkbox"/> | USB               | <input type="checkbox"/>            |
| Mini-PCI              | <input type="checkbox"/>            | USB 2.0           | <input checked="" type="checkbox"/> |
| AMR                   | <input type="checkbox"/>            | InfiniBand*       | <input type="checkbox"/>            |
| ACR                   | <input type="checkbox"/>            | Bluetooth*        | <input type="checkbox"/>            |
| COM (Serial)          | <input checked="" type="checkbox"/> | PCI Express       | <input checked="" type="checkbox"/> |
| Integrated Components |                                     |                   |                                     |
|                       | Check all that Apply                |                   | Check all that Apply                |
| Audio                 | <input type="checkbox"/>            | Display           | <input checked="" type="checkbox"/> |
| IDE                   | <input checked="" type="checkbox"/> | Networking        | <input checked="" type="checkbox"/> |
| SCSI                  | <input checked="" type="checkbox"/> | RAID              | <input type="checkbox"/>            |
| Modem                 | <input type="checkbox"/>            | Bluetooth*        | <input type="checkbox"/>            |

### Onboard Integrated Devices and Drivers

Data in this section reflects system configuration at the time of WLP submission. The latest drivers for the Intel® Server Board S5000PALSATA-NR are available for download at:

<http://support.intel.com/support/motherboards/server/S5000PALSATA-NR/>

| Technology   | OS   | Version                  |
|--|--|--------------------------|
| <b>Intel® S5000/ESB2-E Chipset</b><br>The chipset contains two main components: the Memory Controller Hub (MCH) for the host bridge and the I/O controller hub for the I/O sub-system. The chipset uses the Enterprise South Bridge (ESB2-E) for the I/O controller hub. | <b>Windows Server 2003</b><br><b>Windows Server 2003 – 64Bit</b> | 7.4.0.1005<br>7.4.0.1005 |
| <b>Embedded SATA RAID (ESB2-E) Controller</b><br>Enhanced (Native) mode  | <b>Windows Server 2003</b><br><b>Windows Server 2003 – 64Bit</b> | Embedded<br>Embedded     |
| <b>LAN</b><br>2 X Intel PRO/1000-EB Server Network Connection Supports 10/100/1000 and I/O Accelerated Technology (Intel 82563GB Controller)   | <b>Windows Server 2003</b><br><b>Windows Server 2003 – 64Bit</b> | 9.3.39.0<br>9.3.39.0     |
| <b>I/O Accelerated Technology</b>  | <b>Windows Server 2003</b><br><b>Windows Server 2003 – 64Bit</b> | 1.2.52.0<br>1.2.52.0     |

Deleted: Revision History and Disclaimers

|  |  |                            |
|--|--|----------------------------|
| <b>Display</b><br>ATI® ES1000 SVGA PCI video controller with 16 MB of video memory | <b>Windows Server 2003</b><br><b>Windows Server 2003 – 64Bit</b> | 8.24.3.0<br>8.24.3.0       |
| <b>Intel® ESG-SHV backplane</b><br>(Null driver)                                   | <b>Windows Server 2003</b><br><b>Windows Server 2003 – 64Bit</b> | 5.00.6055.2<br>5.00.6055.2 |

## Product Data for HCL: Completion of WLP

Data in this section reflects product data for HCL at time of WLP submission.

| Product Data                                   |                                     |          |
|--|-------------------------------------|----------|
| Product Name                                   | Intel® Server Board S5000PALSATA-NR |          |
| Additional Product Names                       |                                     |          |
| Supported Platforms                            |                                     |          |
|  | Check Tested                        | Comments |
| Windows 2000 Server                            | <input checked="" type="checkbox"/> |          |
| Windows 2000 Advanced Server                   | <input checked="" type="checkbox"/> |          |
| Windows Server 2003, Web Edition               | <input checked="" type="checkbox"/> |          |
| Windows Server 2003, Standard Edition          | <input checked="" type="checkbox"/> |          |
| Windows Server 2003, Enterprise Edition        | <input checked="" type="checkbox"/> |          |
| Windows Server 2003, Enterprise Edition 64 Bit | <input checked="" type="checkbox"/> |          |



## Hardware Compatibility Tests Used

Microsoft\* Windows Hardware Driver Central Server Testing Home Page:

<http://www.microsoft.com/whdc/hwtest/system/default.msp>.

Please check this website regularly for test kit updates.

| Operating Systems   | Notes  | Hardware Compatibility Tests (HCT)  |
|---------------------|--|---|
| Windows* 2000       | HCT 12.1.01 Test Procedures for Systems, Servers and Cluster Servers (Windows 2000)<br><br><a href="http://download.microsoft.com/download/whistler/Docs/Docs/W982KMeXP/EN-US/HCT9502_Systems.exe">http://download.microsoft.com/download/whistler/Docs/Docs/W982KMeXP/EN-US/HCT9502_Systems.exe</a> | HCT 12.1.01 Test Kit (Windows 2000) (35.4 MB)<br><br><a href="http://download.microsoft.com/download/whistler/Tools/Tools/W98NT42KMeXP/EN-US/HCT9502UPD.EXE">http://download.microsoft.com/download/whistler/Tools/Tools/W98NT42KMeXP/EN-US/HCT9502UPD.EXE</a>                              |
|                     | Logo'd Components Index Full Install   | Logo'd Components Index Full Install (~9.8 MB)<br><br><a href="http://download.microsoft.com/download/whistler/Install/20.0/W982KMeXP/EN-US/logoidx.exe">http://download.microsoft.com/download/whistler/Install/20.0/W982KMeXP/EN-US/logoidx.exe</a>                                       |
|                     | 391 NDIS Intermediate Drivers Instructions<br><br><a href="http://download.microsoft.com/download/whistler/Install/20.1/W982KMeXP/EN-US/NDISIntermedDriver.exe">http://download.microsoft.com/download/whistler/Install/20.1/W982KMeXP/EN-US/NDISIntermedDriver.exe</a>                              | Beta NDIS Test Update (ndt391.exe) (2MB)<br><br><a href="http://download.microsoft.com/download/whistler/Install/12.2/W982KMeXP/EN-US/ndt391.exe">http://download.microsoft.com/download/whistler/Install/12.2/W982KMeXP/EN-US/ndt391.exe</a>   |
|                     | 386 NDIS Intermediate Drivers Instructions<br><br><a href="http://download.microsoft.com/download/whistler/Install/20.1/W982KMeXP/EN-US/NDISIntermedDriver.exe">http://download.microsoft.com/download/whistler/Install/20.1/W982KMeXP/EN-US/NDISIntermedDriver.exe</a>                              | NDIS Test Update for Windows 98 SE, Windows Me, and Windows 2000 (ndt386.exe) (2.02MB)<br><br><a href="http://download.microsoft.com/download/whistler/Install/12.2/W982KMeXP/EN-US/ndt386.exe">http://download.microsoft.com/download/whistler/Install/12.2/W982KMeXP/EN-US/ndt386.exe</a> |
| Windows Server 2003 | HCT 12.1.01 Test Procedures and Readme files for Windows XP SP1 and Windows Server 2003 (4.95MB)<br><br><a href="http://www.microsoft.com/whdc/hwtest/search/details.aspx?ID=725">http://www.microsoft.com/whdc/hwtest/search/details.aspx?ID=725</a>  | HCT 12.1.01 (Windows XP SP1 and Windows Server 2003) Test Kit (4.95MB)<br><br><a href="http://www.microsoft.com/whdc/hwtest/search/details.aspx?ID=724">http://www.microsoft.com/whdc/hwtest/search/details.aspx?ID=724</a>   |
|                     | Logo'd Components Index Full Install   | Logo'd Components Index Full Install (~9.8 MB)<br><br><a href="http://download.microsoft.com/download/whistler/Install/20.0/W982KMeXP/EN-US/logoidx.exe">http://download.microsoft.com/download/whistler/Install/20.0/W982KMeXP/EN-US/logoidx.exe</a>                                       |

## Errata and Contingencies

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Microsoft\* System HCT Errata list is available at:

<http://www.microsoft.com/whdc/hwtest/search/results.aspx?type=errata&key=system&kit=-1>

| Operating System    | Identification Number | Title  |
|---------------------|-----------------------|--|
| Windows Server 2003 | 772                   | LAN Device Wake test is not required on network devices in mobile systems, multifunction, broadband, LAN emulation, wireless LAN, server LAN, or bus-powered USB network devices |
| Windows Server 2003 | 1522                  | PCI Compliance Test fails when the interrupt line in the North Bridge is defined as Read Only  |
| Windows Server 2003 | 1306                  | The PCI Compliance test fails for MSI capability   |

### Submission Readme File

Effective May 1, 2002, the new Microsoft standardized Readme form will be required for all hardware submissions that include any of the following testing exceptions:

- Test failures
- Tests not run
- Missing test logs
- Inconclusive test results

All testing exceptions must be identified with a valid Errata ID, Incident ID, or Contingency ID provided by WHQL. The new Microsoft standardized Readme file is available for download at:

<http://download.microsoft.com/download/whistler/install/1.0/w98nt42kmexp/en-us/readme.exe>

## Testing Exceptions for S5000PALSATA-NR Windows Server 2000

As of November 1<sup>st</sup>, 2004, Windows 2000 logs are no longer required for submission. Windows will only get a "Supported" status when submitted along with Windows Server 2003.

## Testing Exceptions for S5000PALSATA-NR Windows Server 2003 EE x86

Data in this section reflects product data and test exceptions listed in section 2 of the S5000PALSATA-NR Readme file at time of WLP First-Time submission **ID 1134174**.

| Operating system<br>(Windows XP, Windows 2000, etc.)  | Failure type<br>(Contingency, Errata, Incident)  | ID number |
|---|--|-----------|
| Windows Server 2003 EE x86  | Errata   | 1522      |
| <b>Failing test name</b>  | PCI Compliance Test  |           |
| <b>Applicable error message</b><br>(Type <b>N/A</b> if the error message or failing text is excessive or if there is no text) | 0D4.0D8 : DEVICE INFO : Intel(R) 5000 Series Chipset PCI Express x4 Port 3 - 25E3<br>0D4.0D8 : DEVICE INFO :<br>PCIIVEN_8086&DEV_25E3&SUBSYS_00000000&REV_9213&11583659&0&18<br>0D4.0D8 : +TEST+SEV2 : FAIL: 4.52.3 - If the device uses an interrupt, the Interrupt Line field must be implemented as read/write. |           |
| <b>Additional information</b><br>(for example, test system in a multiple system configuration)                                |  |           |

| Operating system<br>(Windows XP, Windows 2000, etc.)  | Failure type<br>(Contingency, Errata, Incident)   | ID number |
|---|---|-----------|
| Windows Server 2003 EE x86  | Errata  | 1306      |
| <b>Failing test name</b>  | PCI Compliance  |           |
| <b>Applicable error message</b><br>(Type <b>N/A</b> if the error message or failing text is excessive or if there is no text) | 0D4.0D8 : DEVICE INFO : Intel(R) 6311ESB/6321ESB PCI Express Upstream Port - 3500<br>0D4.0D8 : DEVICE INFO :<br>PCIIVEN_8086&DEV_3500&SUBSYS_00000000&REV_0114&18c5d6a3&0&0010<br>0D4.0D8 : +TEST+SEV2 : FAIL: - A PCI-Express device that generates interrupts must have an MSI or MSI-X capability. |           |
| <b>Additional information</b><br>(for example, test system in a multiple system configuration)                                |   |           |

| Operating system<br>(Windows XP, Windows 2000, etc.) | Failure type<br>(Contingency, Errata, Incident) | ID number |
|--|---|-----------|
| Windows Server 2003 EE x86                           | Errata  | 772       |
| <b>Failing test name</b>                             | Wake Device Server                              |           |

|   |  |
|---|--|
| <b>Applicable error message</b><br>(Type <b>N/A</b> if the error message or failing text is excessive or if there is no text) |  |
| <b>Additional information</b><br>(for example, test system in a multiple system configuration)                                | This test is not required for servers with Gb Ethernet devices, such as the Intel® PRO/1000 EB |

| <b>Operating system</b><br>(Windows XP, Windows 2000, etc.)   | <b>Failure type</b><br>(Contingency, Errata, Incident)   | <b>ID number</b> |
|---|--|------------------|
| Windows Server 2003 EE x86  | Errata   | 772              |
| <b>Failing test name</b>  | LAN Device Wake Up   |                  |
| <b>Applicable error message</b><br>(Type <b>N/A</b> if the error message or failing text is excessive or if there is no text) |  |                  |
| <b>Additional information</b><br>(for example, test system in a multiple system configuration)                                | This test is not required for servers with Gb Ethernet devices, such as the Intel® PRO/1000 EB |                  |

**Testing Exceptions for S5000PALSATA-NR Windows Server 2003 EE x64**

Data in this section reflects product data and test exceptions listed in section 2 of the S5000PALSATA-NR Readme file at time of WLP First-Time submission **ID 1137010**.

| <b>Operating system</b><br>(Windows XP, Windows 2000, etc.)   | <b>Failure type</b><br>(Contingency, Errata, Incident)  | <b>ID number</b> |
|---|---|------------------|
| Windows Server 2003 EE x64  | Errata  | 1522             |
| <b>Failing test name</b>  | PCI Compliance Test   |                  |
| <b>Applicable error message</b><br>(Type <b>N/A</b> if the error message or failing text is excessive or if there is no text) | 664.668 : DEVICE INFO : PCI standard PCI-to-PCI bridge<br>664.668 : DEVICE INFO :<br>PCI\VEN_8086&DEV_25E3&SUBSYS_00000000&REV_92\3&11583659&0&18<br>664.668 : +TEST+SEV2 : FAIL: 4.52.3 - If the device uses an interrupt, the Interrupt Line field must be implemented as read/write. |                  |
| <b>Additional information</b><br>(for example, test system in a multiple system configuration)                                |   |                  |

| <b>Operating system</b><br>(Windows XP, Windows 2000, etc.) | <b>Failure type</b><br>(Contingency, Errata, Incident) | <b>ID number</b> |
|---|--|------------------|
|   |  |                  |

|   |   |      |
|---|---|------|
| Windows Server 2003 EE x64  | Errata  | 1306 |
| <b>Failing test name</b>  | PCI Compliance  |      |
| <b>Applicable error message</b><br>(Type <b>N/A</b> if the error message or failing text is excessive or if there is no text) | 664.668 : DEVICE INFO : PCI standard PCI-to-PCI bridge<br>664.668 : DEVICE INFO : PCI\VEN_8086&DEV_3500&SUBSYS_00000000&REV_01\4&18c5d6a3&0&0010<br>664.668 : +TEST+SEV2 : FAIL: - A PCI-Express device that generates interrupts must have an MSI or MSI-X capability. |      |
| <b>Additional information</b><br>(for example, test system in a multiple system configuration)                                |   |      |

| <b>Operating system</b><br>(Windows XP, Windows 2000, etc.)   | <b>Failure type</b><br>(Contingency, Errata, Incident)   | <b>ID number</b> |
|---|--|------------------|
| Windows Server 2003 EE x64  | Errata   | 772              |
| <b>Failing test name</b>  | Wake Device Server   |                  |
| <b>Applicable error message</b><br>(Type <b>N/A</b> if the error message or failing text is excessive or if there is no text) |  |                  |
| <b>Additional information</b><br>(for example, test system in a multiple system configuration)                                | This test is not required for servers with Gb Ethernet devices, such as the Intel <sup>®</sup> PRO/1000 EB |                  |

| <b>Operating system</b><br>(Windows XP, Windows 2000, etc.)   | <b>Failure type</b><br>(Contingency, Errata, Incident)   | <b>ID number</b> |
|---|--|------------------|
| Windows Server 2003 EE x64  | Errata   | 772              |
| <b>Failing test name</b>  | LAN Device Wake Up   |                  |
| <b>Applicable error message</b><br>(Type <b>N/A</b> if the error message or failing text is excessive or if there is no text) |  |                  |
| <b>Additional information</b><br>(for example, test system in a multiple system configuration)                                | This test is not required for servers with Gb Ethernet devices, such as the Intel <sup>®</sup> PRO/1000 EB |                  |

### Additional Information

No additional information entered in section 3 of the S5000PALSATA-NR Readme file at time of WLP submission **ID 1134174** and **ID 1137101**.

## Appendix A – Submission History

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Microsoft “Designed for Windows\*” logo submission history for the Intel® Server S5000PALSATA-NR:

| Submission ID | Type       | Date    | OS Qualified              | Processor Speeds   | Board Revision | BIOS Version                    |
|---------------|------------|---------|---------------------------|--|----------------|---------------------------------|
| 1134174       | First-Time | 6/12/06 | Windows 2003 EE<br>32-Bit | 1.60, 1.86, 2.00,<br>2.33, 2.66, 3.00,<br>3.20, and 3.73 GHz | 603            | S5000.86B.01.00.45<br>5/23/2006 |
| 1137011       | First-Time | 6/21/06 | Windows 2003 EE<br>64-Bit |  |                |                                 |