



Server WHQL Testing Services

Enterprise Platforms and Services Division

Intel[®] Server Board S5520UR

Intel[®] Server System SR1625URSAS

Intel[®] Server System SR2600URLX

Intel[®] Server System SR2625URLX

Server Test Submission (STS) Report

For the Microsoft[®] Windows[®] Logo Program (WLP)

Rev 1.0

March 27, 2009

This report describes the Intel[®] Server Board S5520UR Windows* Logo Program test run conducted by Intel Enterprise Platforms and Services Division (EPSD).

Purpose of this WLP Submission:

System First Time submission for the Microsoft* Designed for Windows Logo submission for the Intel[®] Server Board S5520UR in an active SAS Mid-plane configuration.

Windows Server 2003 Submission Logo ID: 1323044

| 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 2008 logo to product.) | <input type="checkbox"/> |

Revision History and Disclaimers

| Revision History | | |
|------------------|-----------|---|
| Revision | Date | Comments |
| 1.0 | 3/27/2009 | Internal draft of the STS Report for Windows Server 2003 Submission for Intel® Server Board S5520UR configured in SAS Integrated RAID (IR) mode |
| | | |
| | | |

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Introduction

This report provides an overview of the testing conducted on the Intel® Server Board S5520UR by Intel EPSD and provides details about this testing run.

Overview of Contents

| Section | Content |
|---------------------------------------|--|
| Introduction | Brief descriptions of the sections in the report. Table listing terms and definitions. |
| Server Product Submission Information | Submission information, ID # and final server board configuration upon completion of WLP including HW, Driver version, BIOS version, and Board AA number |
| DTM | All DTM tests used during testing |
| Errata and Contingencies | All Microsoft* errata or contingencies used during testing |

Terms and Definitions

| Term | Definitions |
|------|--|
| EPSD | Enterprise Platforms and Services Division |
| HCL | Windows Hardware Compatibility List. Changed to Windows Server Catalogue. You can view the catalogue at: http://www.microsoft.com/windows/catalog/server/ |
| DTM | Driver Test manager. For latest Server DTM tests visit: http://www.microsoft.com/whdc/hwtest/system/default.aspx |
| STS | Server Test Submission Report published by EPSSD |
| WHDC | Windows* Hardware and Driver Central. Provides technical information, development and testing kits, newsletters and support information. http://www.microsoft.com/whdc/default.aspx |
| WHOS | Windows Hardware Online Service – Secure online web site used to submit products for logo qualification and review submission history. https://winqual.microsoft.com/ |
| WHQL | Windows* Hardware Qualification Lab. For more information visit the WHDC home page at: http://www.microsoft.com/whdc/whql/default.aspx |
| WLP | Windows Logo Program. For further information see: http://www.microsoft.com/whdc/winlogo/default.aspx |
| WTS | Workstation Test Submission Report published by EPSSD |

Server Board Submission Information

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 | 1323044 | |
| 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 family | |
| 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"/> | |

Server Board Configuration Information

| Processor | |
|------------------------------------|---|
| Quantity | 2 (physical processors installed) |
| Front Side Bus Speed | 6.40 GT/s |
| Family/Model | Intel® Xeon Quad-core Processor 5500 series |
| Speed | 1.86, 2.00, 2.13, 2.26, 2.53, 2.66, 2.80, and 2.93 GHz |
| System Memory | |
| Amount Installed | 96 GB |
| Memory Type | DDR3 |
| Power Management | |
| ACPI Sleep States (S1, S2, S3, S4) | S1 |
| Server Board Product | |
| 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: E22554-601 |
| Board Manufacturer | Intel Corporation |
| Board Model | Intel® Server Board S5520UR |
| Northbridge* Chipset Manufacturer | Intel Corporation |
| Northbridge Chipset Model | Intel® 5520 Chipset IOH |
| Southbridge* Chipset Manufacturer | Intel Corporation |
| Southbridge Chipset Model | Intel® 82801 Jx I/O Controller (ICH10R) |
| BIOS | |
| BIOS Manufacturer | AMI* |
| BIOS Version | S5500.86B.01.00.0033.03062009 |
| BIOS Date | 3/6/2009 |
| BIOS URL (For Updates) | http://support.intel.com/support/motherboards/server/s5520ur |

| 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 checked="" 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 S5520UR are available for download at:

<http://support.intel.com/support/motherboards/server/s5520ur>

| Technology | OS | Version |
|--|--|--|
| Intel® S5000/ESB2-E Chipset 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. | Windows Server 2003 Windows Server 2003 – 64Bit | 9.1.0.1012 9.1.0.1012 |
| Embedded SROMBSASMP2 (LSI 1078) Controller Integrated RAID (IR) mode | Windows Server 2003 Windows Server 2003 – 64Bit | 1.29.03.00 1.29.03.00 |
| LAN 2 X Intel 82575EB Server Network Connection Supports 10/100/1000 and I/O Accelerated Technology (Intel 82563GB Controller) | Windows Server 2003 Windows Server 2003 – 64Bit | 9.12.16.0 (Pkg 13.5) 9.12.16.0 (Pkg 13.5) |
| Display Server Engine iBMC video controller | Windows Server 2003 Windows Server 2003 – 64Bit | WDM20080228.1996-R4 WDM20080228.1996-R4 |

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 S5520UR | |
| Additional Product Names | Intel® Server System SR1625URSAS | |
| | Intel® Server System SR2625URSAS | |
| Supported Platforms | | |
| | Check Tested | Comments |
| Windows Server 2003 family | <input checked="" type="checkbox"/> | |
| Windows Server 2003 x64 family | <input checked="" type="checkbox"/> | |
| Windows Server 2008 family | <input type="checkbox"/> | |
| Windows Server 2008 x64 family | <input type="checkbox"/> | |

Hardware Compatibility Tests Used

Microsoft* Windows Hardware Driver Central Server Testing Home Page:

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

Please check this website regularly for test kit updates.

| Operating Systems | Notes | Hardware Compatibility Tests (HCT) |
|---------------------|--|---|
| Windows Server 2003 | DTM 1.2 Test Procedures for Systems, Servers and Cluster Servers (Windows 2000) http://download.microsoft.com/download/whistler/Docs/Docs/W982KMeXP/EN-US/HCT9502_Systems.exe | DTM 1.2 Test Kit (Windows 2000) (35.4 MB) http://download.microsoft.com/download/whistler/Tools/Tools/W98NT42KMeXP/EN-US/HCT9502UPD.EXE |
| | Logo'd Components Index Full Install | Logo'd Components Index Full Install (~9.8 MB) http://download.microsoft.com/download/whistler/Install/20.0/W982KMeXP/EN-US/logoidx.exe |
| | 391 NDIS Intermediate Drivers Instructions http://download.microsoft.com/download/whistler/Install/20.1/W982KMeXP/EN-US/NDISIntermedDriver.exe | Beta NDIS Test Update (ndt391.exe) (2MB) http://download.microsoft.com/download/whistler/Install/12.2/W982KMeXP/EN-US/ndt391.exe |
| | 386 NDIS Intermediate Drivers Instructions http://download.microsoft.com/download/whistler/Install/20.1/W982KMeXP/EN-US/NDISIntermedDriver.exe | NDIS Test Update for Windows 98 SE, Windows Me, and Windows 2000 (ndt386.exe) (2.02MB) http://download.microsoft.com/download/whistler/Install/12.2/W982KMeXP/EN-US/ndt386.exe |
| Windows Server 2008 | DTM 1.2 Test Procedures and Readme files for Windows Server 2003 and Windows Server 2008 (4.95MB) http://www.microsoft.com/whdc/hwtest/search/details.aspx?ID=725 | DTM 1.2 Test Kit (4.95MB) http://www.microsoft.com/whdc/hwtest/search/details.aspx?ID=724 |
| | Logo'd Components Index Full Install | Logo'd Components Index Full Install (~9.8 MB) http://download.microsoft.com/download/whistler/Install/20.0/W982KMeXP/EN-US/logoidx.exe |

Errata and Contingencies

Microsoft* System DTM Errata list is available at:

<https://winqual.microsoft.com/EC/>

| Operating System | Identification Number | Title |
|---------------------|-----------------------|---|
| Windows Server 2003 | | <i>See Testing Exceptions section below</i> |
| | | |
| | | |

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://www.microsoft.com/whdc/winlogo/WLK/default.msp>

Testing Exceptions for S5520UR-SAS-IR Windows Server 2003

Data in this section reflects product data and test exceptions listed in section 2 of the S5520UR-SAS-IR Readme file at time of WLP First-Time submission ID Number **1323044**.

| Operating system (Windows XP, Windows 2000, etc.) | Failure type (Contingency, Errata, Incident) | ID number |
|---|--|------------------|
| Windows Server 2003 | | |
| Failing test name | | |
| Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text) | | |
| Additional information (for example, test system in a multiple system configuration) | | |
| <i>no errata included with this submission</i> | | |

Testing Exceptions for S5520UR-SAS-IR Windows Server 2003 x64

Data in this section reflects product data and test exceptions listed in section 2 of the S5520UR-SAS-IR Readme file at time of WLP First-Time submission ID Number **1323044**.

| Operating system (Windows XP, Windows 2000, etc.) | Failure type (Contingency, Errata, Incident) | ID number |
|---|--|------------------|
| Windows Server 2003 x64 | | |
| Failing test name | | |
| Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text) | | |
| Additional information (for example, test system in a multiple system configuration) | | |
| <i>no errata included with this submission</i> | | |

Additional Information

No additional information entered in section 3 of the S5520UR-SAS-IR Submission Readme file at time of WLP submission ID 1323044.

Appendix A – Submission History

Microsoft “Designed for Windows*” logo submission history for the Intel® Server Board S5520UR-SAS-IR

| Submission ID | Type | Date | OS Qualified | Processor Speeds | Board Revision | BIOS Version |
|---------------|------------|---------|--------------------------------------|--|----------------|--------------------------------|
| 1323041 | First-Time | 3/27/09 | Windows Server 2008 - 32 & 64 Bit | 1.86, 2.00, 2.13, 2.26, 2.53, 2.66, 2.80, and 2.93 GHz | 601 | S5500.86B.01.00.33 3/6/2009 |
| 1323044 | First-Time | 3/27/09 | Windows Server 2003 - 32 & 64 Bit | “ “ | 601 | S5500.86B.01.00.33 3/6/2009 |