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.	☑
System Update	Hardware update. (For example, update submission test run with new processor speeds.)	☐

| BIOS Update | BIOS and/or Firmware update. (For example, update submission test run with new BIOS to support additional processor speeds.) | ☐ |
| OS Update | OS update. (For example, update submission test run to add Microsoft Designed for Windows Server 2008 logo to product.) | ☐ |

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

Contents

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.mspx
STS	Server Test Submission Report published by EPSD
WHDC	Windows* Hardware and Driver Central. Provides technical information, development and testing kits, newsletters and support information. http://www.microsoft.com/whdc/default.mspx
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.mspx
WLP	Windows Logo Program. For further information see: http://www.microsoft.com/whdc/winlogo/default.mspx
WTS	Workstation Test Submission Report published by EPSD

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	☑	
System Update Test Submission	☐	
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	☑	
SQL Database Server	☑	
File Server	☑	

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 (ICHIOR)
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	☑	AGP*	☐
1394	☐	PCCard* (16-bit)	☐
CF (Compact Flash)	☐	CardBus* (32-bit)	☐
PCI	☑	USB	☐
Mini-PCI	☐	USB 2.0	☑
AMR	☐	InfiniBand*	☐
ACR	☐	Bluetooth*	☐
COM (Serial)	☑	PCI Express	☑
Integrated Components			
	Check all that Apply		**Check all that Apply**
Audio	☐	Display	☑
IDE	☑	Networking	☑
SCSI	☑	RAID	☑
Modem	☐	Bluetooth*	☐

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	☑	
Windows Server 2003 x64 family	☑	
Windows Server 2008 family	☐	
Windows Server 2008 x64 family	☐	

Hardware Compatibility Tests Used

Microsoft* Windows Hardware Driver Central Server Testing Home Page:
http://www.microsoft.com/whdc/hwtest/system/default.mspx.

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		*See Testing Exceptions section below*

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.mspx

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)	no errata included with this submission	

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)	no errata included with this submission	

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