



Server WHQL Testing Services
Enterprise Platforms and Services Division
Intel[®] Server Board S5520HC

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

Rev 1.1

April 28th, 2009

This report describes the Intel[®] Server Board S5520HC 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 S5520HC in an ICH10R SATA SW RAID configuration.

Windows* Server 2008 Submission Logo ID: 1323763

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	4/3/2009	Internal draft of the STS Report for Windows* Server 2008 Submission for Intel® Server Board S5520HC configured in SATA SW RAID mode
1.1	4/28/2009	Correct submission ID on first page and Appendix A

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Introduction

This report provides an overview of the testing conducted on the Intel® Server Board S5520HC 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 EPSD
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 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	1323763	
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 2008 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"/>	

2BServer Board Submission Information

Server Board Configuration Information

Processor	
Quantity	2 (physical processors installed)
Front Side Bus Speed	6.40 GT/s (Gigatransfers per sec)
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: E26045-403
Board Manufacturer	Intel Corporation
Board Model	Intel [®] Server Board S5520HC
Northbridge* Chipset Manufacturer	Intel Corporation
Northbridge Chipset Model	Intel [®] 5520 I/O Hub (IOH)
Southbridge* Chipset Manufacturer	Intel Corporation
Southbridge Chipset Model	Intel [®] AF82801JIR I/O Controller Hub (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/s5520hc/index.htm

Bus Types			
	Check all that Apply		Check all that Apply
PS/2	<input 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 type="checkbox"/>	Networking	<input checked="" type="checkbox"/>
SCSI	<input 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 S5520HC are available for download at:

<http://support.intel.com/support/motherboards/server/S5520HC>

Technology	OS	Version
Intel® S5520 IOH Chipset The chipset contains 36 PCI-E 2.0 lanes to accommodate IO throughput for the system.	Windows* Server 2008 Windows* Server 2008 – 64Bit	9.1.0.1012 9.1.0.1012
Embedded Intel® ICH10R SATA Controller SATA RAID mode	Windows* Server 2008 Windows* Server 2008 – 64Bit	12.08.1023.2008 12.08.1023.2008
LAN Intel® 82575EB Server Network Connection Supports 10/100/1000	Windows* Server 2008 Windows* Server 2008 – 64Bit	10.6.15.0 (Pkg 14.0) 10.6.15.0 (Pkg 14.0)
Display ServerEngines* LLC Pilot II* Video Controller	Windows* Server 2008 Windows* Server 2008 – 64Bit	WDM20080228.1996-R4 WDM20080228.1996-R4

2BServer Board Submission Information

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 S5520HC	
Additional Product Names	Intel® Server Chassis SC5600LX	
	Intel® Server Chassis SC5600BRP	
	Intel® Server Chassis SC5600BASE	
	Intel® Server Chassis SC5650DP	
	Intel® Server Chassis SC5650BRP	
Supported Platforms		
	Check Tested	Comments
Windows* Server 2003 family	<input type="checkbox"/>	
Windows* Server 2003 x64 family	<input type="checkbox"/>	
Windows* Server 2008 family	<input checked="" type="checkbox"/>	
Windows* Server 2008 x64 family	<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.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 2008		<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 S5520HC Windows* Server 2008

Data in this section reflects product data and test exceptions listed in section 2 of the S5520HC Readme file at time of WLP First-Time submission ID Number **1323763**.

Operating system (Windows* XP, Windows* 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number
Windows* Server 2008	<i>None</i>	<i>None</i>
Failing test name	<i>None</i>	
Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)	<i>None</i>	
Additional information (for example, test system in a multiple system configuration)	<i>no errata included with this submission</i>	

Testing Exceptions for S5520HC Windows* Server 2008 x64

Data in this section reflects product data and test exceptions listed in section 2 of the S5520HC Readme file at time of WLP First-Time submission ID Number **1323763**.

Operating system (Windows* XP, Windows* 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number
Windows* Server 2008 x64	<i>None</i>	<i>None</i>
Failing test name	<i>None</i>	
Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)	<i>None</i>	
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 S5520HC Submission Readme file at time of WLP submission ID 1323763.

Appendix A – Submission History

Microsoft “Designed for Windows*” logo submission history for the Intel[®] Server Board S5520HC

Submission ID	Type	Date	OS Qualified	Processor Speeds	Board Revision	BIOS Version
1323763	First-Time	4/3/09	Windows*s Server 2008 - 32 & 64 Bit	1.86, 2.00, 2.13, 2.26, 2.53, 2.66, 2.80, and 2.93 GHz	403	S5500.86B.01.00.33 3/6/2009