

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 1.0

March 30, 2010

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 SATA Enhanced mode configuration.

Windows* Server 2008 R2 &sp2 Submission Logo ID: 1398022

Submission Type:	Reason for test run	
First Time Submission	Initial Microsoft Designed for Windows* logo submission. New product submission.	V
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* Vista logo to product.)	

Revision History and Disclaimers

Revision History			
Revision	Revision Date Comments		
1.0	3/30/2010	Internal draft of the STS Report for Windows* Server 2008R2 x64 & Windows* Server 2008sp2 x64&x86 Submission for Intel® Server Board S5520HC.	

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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/workstation 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/workstation board Submission Information

Intel Server/workstation 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	1398022		
Submission Type			
	Check Submission Type	Comments	
First-Time Hardware and Driver Test Submission	V		
System Update Test Submission			
Product Category			
Hardware Category	PC System or Server		
Operating System family	Windows* Server 2008R2 x64 fam	ily	
	Windows* Server 2008sp2 x64 fan	Windows* Server 2008sp2 x64 family	
Windows* Server 2008sp2 x86 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	\checkmark		
SQL Database Server	\checkmark		
File Server	V		

Server/workstation board Configuration Information

Processor		
Quantity	2 (physical processors installed)	
Front Side Bus Speed	6.40 GT/s (Gigatransfers per sec)	
Family/Model	Intel® Xeon Processor 5600 series	
Speed	2.4, 2.53, 2.66, 2.80, 2.93, 3.06, 3.33 and 3.46 GHz	
System Memory		
Amount Installed	96 GB	
Memory Type	DDR3	
Power Management		
ACPI Sleep States (S1, S2, S3, S4)	S1	
Server/workstation board Pro	duct	
System uses logo'd motherboard	NO (Server boards are NOT eligible for logo under the Microsoft* Motherboard logo program)	
Board AA #/Fab	PBA: E26045-551	
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 (ICHI0R)	
BIOS		
BIOS Manufacturer	Intel Corporation	
BIOS Version	S5500.86B.01.00.0048.022720101222	
BIOS Date	2/27/2010	
BIOS URL (For Updates)	http://www.intel.com/support/motherboards/server/s5520hc/index.htm	

Bus Types			
	Check all that Apply		Check all that Apply
PS/2		AGP*	
1394		PCCard* (16-bit)	
CF (Compact Flash)		CardBus* (32-bit)	
PCI	\square	USB	
Mini-PCI		USB 2.0	V
AMR		InfiniBand*	
ACR		Bluetooth*	
COM (Serial)	V	PCI Express	V
Integrated Components	·		
	Check all that Apply		Check all that Apply
Audio	V	Display	V
IDE		Networking	
SCSI		RAID	V
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 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 sp2 x86	9.1.1.1019
Video adapter Matrox G200e (ServerEngines)	Windows* Server 2008 R2 x64	5.97.6.6
LAN Intel(R) 82575EB Gigabit Network Connection	Windows* Server 2008 sp2 x86	11.0.103.0

Note: Windows Server 2008 sp2 x64 can be covered by Windows Server 2008 R2 x64 certification and NO independent certification was required.

Product Data for HCL: Completion of WLP

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

Server/workstation board Submission Information

Product Data				
Product Name	Intel [®] Server board	S5520HC		
	Intel® Server Chas	Intel® Server Chassis SC5600LX		
Additional Product Names	Intel® Server Chassis SC5600BRP			
Additional Froduct Names	Intel [®] Server Chas	sis SC5600BASE		
	Intel [®] Server Chas	sis SC5650DP		
	Intel® Server Chas	sis SC5650BRP		
Supported Platforms	Supported Platforms			
	Check Tested	Comments		
Windows* Server 2003 family				
Windows* Server 2003 x64 family				
Windows* Vista family				
Windows* Vista x64 family				
Windows* Server 2008 R2 x64 family	\checkmark			
Windows* Server 2008 sp2 x64 family	V			
Windows* Server 2008 sp2 x86 family	V			

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 1.4 Test Procedures for Systems, Servers and Cluster Servers (Windows* 2000)	DTM 1.4 Test Kit (Windows* 2000)
	http://download.microsoft.com/download/whistler/ Docs/Docs/W982KMeXP/EN- US/HCT9502_Systems.exe	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/Instal I/20.0/W982KMeXP/EN-US/logoidx.exe
	391 NDIS Intermediate Drivers Instructions	Beta NDIS Test Update (ndt391.exe) (2MB)
	http://download.microsoft.com/download/whistler/ Install/20.1/W982KMeXP/EN- US/NDISIntermedDriver.exe	http://download.microsoft.com/download/whistler/Instal I/12.2/W982KMeXP/EN-US/ndt391.exe
	386 NDIS Intermediate Drivers Instructions	NDIS Test Update for Windows* 98 SE, Windows* Me, and Windows* 2000 (ndt386.exe) (2.02MB)
	http://download.microsoft.com/download/whistler/ Install/20.1/W982KMeXP/EN- US/NDISIntermedDriver.exe	http://download.microsoft.com/download/whistler/Instal I/12.2/W982KMeXP/EN-US/ndt386.exe
Windows* Vista	DTM 1.4 Test Procedures and Readme files for Windows* Server 2003 and Windows* Vista	DTM 1.4 Test Kit
	http://www.microsoft.com/whdc/hwtest/search/de tails.aspx?ID=725	http://www.microsoft.com/whdc/hwtest/search/details.a spx?ID=724
	Logo'd Components Index Full Install	Logo'd Components Index Full Install (~9.8 MB)
		http://download.microsoft.com/download/whistler/Instal I/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 R2 x64		See Testing Exceptions section below
Windows* Server 2008 sp2 x86		See Testing Exceptions section below
Windows* Server 2008 sp2 x64		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 S5520HC Windows* Server 2008 R2 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 **1398022**.

Operating system (Windows* XP, Windows* 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number	
Windows* Server 2008 R2 x64	None None		
Failing test name	None		
Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)	None		
Additional information (for example, test system in a multiple system configuration)	no errata included with this submission		

Testing Exceptions for S5520HC Windows* Server 2008 sp2 x86

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 **1398022**.

Operating system (Windows* XP, Windows* 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number	
Windows* Server 2008 sp2 x86	None	None	
Failing test name	None		
Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)	None		
Additional information (for example, test system in a multiple system configuration)	no errata included with this submission		

Testing Exceptions for S5520HC Windows* Server 2008 sp2 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 **1398022**.

Errata and Contingencies

Operating system (Windows* XP, Windows* 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number	
Windows* Server 2008 sp2 x64	None	None	
Failing test name	None		
Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)	None		
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 S5520HC Submission Readme file at time of WLP submission ID 1398022.

Appendix A – Submission History

Microsoft "Designed for Windows*" logo submission history for the Intel[®] Server board S5520HC

Submission ID	Туре	Date	OS Qualified	Processor Speeds	Board Revision	BIOS Version
1398022	First- Time	3/30/2010	Windows* Server 2008 R2 x64, Server 2008 SP2 x64, Server 2008 SP2 x86	1.86, 2.00, 2.13, 2.26, 2.53, 2.66, 2.80, 2.93 and 3.33 GHz	551	S5500.86B.01.00.0048.022720101222