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

Jan 30, 2013

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.

Windows* Server 2012 Submission Logo ID: 1558771

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* Vista logo to product.)	☐

Revision History and Disclaimers

Revision History		
Revision	**Date**	**Comments**
1.0	1/30/2013	Internal draft of the STS Report for Windows* Server 2012 Submission for Intel® Server Board S5520HC.

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Contents

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
STS	Server Test Submission Report published by EPSD
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	1558771	
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 2012 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/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 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: E26045-551
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.01.00.0063.09212012
BIOS Date	9/21/2012
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	☑	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 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 2012**	embedded
Video adapter Matrox G200e (ServerEngines)	**Windows* Server 2012**	embedded
LAN Intel(R) 82575EB Gigabit Network Connection	**Windows* Server 2012**	V17.2

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 S5520HC
Additional Product Names	
Supported Platforms		
	Check Tested	**Comments**
Windows* Server 2012 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 2012		
	Logo'd Components Index Full Install	Logo'd Components Index Full Install (~9.8 MB)

Errata and Contingencies

Microsoft* System DTM Errata list is available at:

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

Operating System	Identification Number	Title
Windows* Server 2012		*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 2012

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 **1558771**.

Operating system (Windows* XP, Windows* 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number
Windows* Server 2012	*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 1558771.

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
1558771	First-Time	1/30/2013	Windows* Server 2012	1.86, 2.00, 2.13, 2.26, 2.53, 2.66, 2.80, 2.93 and 3.33 GHz	551	S5500.86B.01.00.0063.09212012