



**Server WHQL Testing Services  
Enterprise Platforms and Services Division**

# **Intel® Server Board S5000VCL**

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## **Server Test Submission (STS) Report For the Microsoft® Windows® Logo Program (WLP)**

Rev 1.0

**August 1, 2008**

This report describes the Intel® S5000VCL Server Platform 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 2008 Logo submission for the Intel® Server Board S5000VCL.

<b>Submission Type:</b>	<b>Reason for test run</b>	<b>Check one</b>
First Time Submission	Initial Microsoft Designed for Windows 2008 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

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Revision History		
Revision	Date	Comments
1.0	08/01/2008	Internal draft of the STS Report for Windows Server 2008 Submission for Intel® Server Board S5000VCL.

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# Contents

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<b>Revision History and Disclaimers.....</b>	<b>2</b>
<b>Introduction .....</b>	<b>4</b>
Overview of Contents .....	4
Terms and Definitions.....	4
<b>Server Board Submission Information.....</b>	<b>5</b>
Intel Server Board Submission Report: Completion of WLP .....	5
Submission Information .....	5
Submission ID.....	5
Submission Type .....	5
Product Category.....	5
Product Detail .....	5
General Product Information .....	5
Characterization (optional) .....	5
Server Board Configuration Information.....	6
Processor.....	6
System Memory.....	6
Power Management.....	6
BIOS.....	6
Bus Types .....	7
Integrated Components .....	7
Onboard Integrated Devices and Drivers.....	7
Product Data for HCL: Completion of WLP.....	8
Product Data.....	8
<b>Hardware Compatibility Tests Used .....</b>	<b>9</b>
<b>Errata and Contingencies.....</b>	<b>10</b>
Submission Readme File.....	10
Testing Exceptions for S5000VCL Windows Server 2008.....	11
Testing Exceptions for S5000VCL Windows Server 2008 64 Bit.....	11
Additional Information.....	11
<b>Appendix A – Submission History.....</b>	<b>12</b>

# Introduction

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This report provides an overview of the testing conducted on the Intel® Server Board S5000VCL 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
HCT	All HCT's used during testing
Errata and Contingencies	All Microsoft* errata or contingencies used during testing

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## 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: <a href="http://www.microsoft.com/windows/catalog/server/">http://www.microsoft.com/windows/catalog/server/</a>
HCT	Hardware Compatibility Tests. For latest Server HCTs visit: <a href="http://www.microsoft.com/whdc/hwtest/system/default.aspx">http://www.microsoft.com/whdc/hwtest/system/default.aspx</a>
STS	Server Test Submission Report published by EPSPD
WHDC	Windows* Hardware and Driver Central. Provides technical information, development and testing kits, newsletters and support information. <a href="http://www.microsoft.com/whdc/default.aspx">http://www.microsoft.com/whdc/default.aspx</a>
WHOS	Windows Hardware Online Service – Secure online web site used to submit products for logo qualification and review submission history. <a href="https://winqual.microsoft.com/">https://winqual.microsoft.com/</a>
WHQL	Windows* Hardware Qualification Lab. For more information visit the WHDC home page at: <a href="http://www.microsoft.com/whdc/whql/default.aspx">http://www.microsoft.com/whdc/whql/default.aspx</a>
WLP	Windows Logo Program. For further information see: <a href="http://www.microsoft.com/whdc/winlogo/default.aspx">http://www.microsoft.com/whdc/winlogo/default.aspx</a>
WTS	Workstation Test Submission Report published by EPSPD

## Server Board Submission Information

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### Intel Server Board Submission Report: Completion of WLP

Data in this section reflects system submission information at the time of WLP Update submission.

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#### Submission Information

Submission ID		
Submission ID / Master ID	1301236	
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 (32 & 64 Bit)	
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	1333 MHz
Family/Model	Dual-Core Intel <sup>®</sup> Xeon <sup>®</sup> (5100 and 5200 Series) and Quad-Core Intel <sup>®</sup> Xeon <sup>®</sup> (5300 and 5400 Series) processors
Speed	1.60, 1.86, 2.00 2.33, 2.66, and 3.0 GHz
System Memory	
Amount Installed	12 GB
Memory Type	FB DDR2-533 (2 GB FBDIMMs, ECC)
Power Management	
ACPI Sleep States (S1, S2, S3, S4)	S1, S4
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: D24481-700 (Superset SAS SKU) and D41874-700 (Depop SATA SKU)
Board Manufacturer	Intel Corporation
Board Model	Intel <sup>®</sup> Server Board S5000VCL
Northbridge* Chipset Manufacturer	Intel Corporation
Northbridge Chipset Model	Intel <sup>®</sup> 5000V Memory Controller Hub
Southbridge* Chipset Manufacturer	Intel Corporation
Southbridge Chipset Model	Intel <sup>®</sup> ESB2-E I/O Controller
BIOS	
BIOS Manufacturer	AMI*
BIOS Version	S5000.86B.03.00.0089
BIOS Date	06/20/2008
BIOS URL (For Updates)	<a href="http://support.intel.com/support/motherboards/server/S5000VCL/">http://support.intel.com/support/motherboards/server/S5000VCL/</a>

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 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 S5000VCL are available for download at:

[http://downloadcenter.intel.com/scripts-df-external/filter\\_results.aspx?strTypes=all&ProductID=2600&OSFullName=All+Operating+Systems&lang=eng&strOSs=All&submit=Go%21#FRM](http://downloadcenter.intel.com/scripts-df-external/filter_results.aspx?strTypes=all&ProductID=2600&OSFullName=All+Operating+Systems&lang=eng&strOSs=All&submit=Go%21#FRM)

Technology	OS	Version
<b>Intel® S5000/ESB2-E Chipset</b> 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.	<b>Windows Server 2008</b> <b>Windows Server 2008 – 64Bit</b>	8.6.1008_rev2 8.6.1008_rev1
<b>Embedded SAS RAID (ESB2-E) Controller</b> Native (Enhanced) mode	<b>Windows Server 2008</b> <b>Windows Server 2008 – 64Bit</b>	10.21.0507.2008 10.21.0507.2008
<b>LAN</b> 2 X Intel PRO/1000-EB Server Network Connection Supports 10/100/1000 and I/O Accelerated Technology (Intel 82563GB Controller)	<b>Windows Server 2008</b> <b>Windows Server 2008 – 64Bit</b>	Pkg 13.1 (WHQL)
<b>I/O Accelerated Technology</b>	<b>Windows Server 2008</b> <b>Windows Server 2008 – 64Bit</b>	Embedded Embedded

<p><b>Display</b> ATI* ES1000 SVGA PCI video controller with 16 MB of video memory</p>	<p><b>Windows Server 2008</b> <b>Windows Server 2008 – 64Bit</b></p>	<p>8.24.50.3-80121a-058714c 8.24.50.3-80121a-058714c</p>
<p><b>Intel® ESG-SHV backplane</b> (Null driver)</p>	<p><b>Windows Server 2008</b> <b>Windows Server 2008 – 64Bit</b></p>	<p>Embedded Embedded</p>

**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 S5000VCL	
Additional Product Names		
Supported Platforms		
	Check Tested	Comments
Windows 2000 Server	☑	
Windows 2000 Advanced Server	☑	
Windows Server 2003, Web Edition	☑	
Windows Server 2003, Standard Edition	☑	
Windows Server 2003, Enterprise Edition	☑	
Windows Server 2003, Enterprise Edition 64 Bit	☑	
Windows Server 2008, Enterprise Edition	☑	
Windows Server 2008, Enterprise Edition 64 Bit	☑	



## 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* 2000	HCT 12.1.01 Test Procedures for Systems, Servers and Cluster Servers (Windows 2000)  <a href="http://download.microsoft.com/download/whistler/Docs/Docs/W982KmeXP/EN-US/HCT9502_Systems.exe">http://download.microsoft.com/download/whistler/Docs/Docs/W982KmeXP/EN-US/HCT9502_Systems.exe</a>	HCT 12.1.01 Test Kit (Windows 2000) (35.4 MB)  <a href="http://download.microsoft.com/download/whistler/Tools/Tools/W98NT42KmeXP/EN-US/HCT9502UPD.EXE">http://download.microsoft.com/download/whistler/Tools/Tools/W98NT42KmeXP/EN-US/HCT9502UPD.EXE</a>
	Logo'd Components Index Full Install	Logo'd Components Index Full Install (~9.8 MB)  <a href="http://download.microsoft.com/download/whistler/Install/20.0/W982KmeXP/EN-US/logoidx.exe">http://download.microsoft.com/download/whistler/Install/20.0/W982KmeXP/EN-US/logoidx.exe</a>
	391 NDIS Intermediate Drivers Instructions  <a href="http://download.microsoft.com/download/whistler/Install/20.1/W982KmeXP/EN-US/NDISIntermedDriver.exe">http://download.microsoft.com/download/whistler/Install/20.1/W982KmeXP/EN-US/NDISIntermedDriver.exe</a>	Beta NDIS Test Update (ndt391.exe) (2MB)  <a href="http://download.microsoft.com/download/whistler/Install/12.2/W982KmeXP/EN-US/ndt391.exe">http://download.microsoft.com/download/whistler/Install/12.2/W982KmeXP/EN-US/ndt391.exe</a>
	386 NDIS Intermediate Drivers Instructions  <a href="http://download.microsoft.com/download/whistler/Install/20.1/W982KmeXP/EN-US/NDISIntermedDriver.exe">http://download.microsoft.com/download/whistler/Install/20.1/W982KmeXP/EN-US/NDISIntermedDriver.exe</a>	NDIS Test Update for Windows 98 SE, Windows Me, and Windows 2000 (ndt386.exe) (2.02MB)  <a href="http://download.microsoft.com/download/whistler/Install/12.2/W982KmeXP/EN-US/ndt386.exe">http://download.microsoft.com/download/whistler/Install/12.2/W982KmeXP/EN-US/ndt386.exe</a>
Windows Server 2003	HCT 12.1.0 Test Procedures and Readme files for Windows XP SP1 and Windows Server 2003 (4.95MB)  <a href="http://www.microsoft.com/whdc/hwtest/search/details.aspx?ID=725">http://www.microsoft.com/whdc/hwtest/search/details.aspx?ID=725</a>	HCT 12.1.01 (Windows XP SP1 and Windows Server 2003) Test Kit (4.95MB)  <a href="http://www.microsoft.com/whdc/hwtest/search/details.aspx?ID=724">http://www.microsoft.com/whdc/hwtest/search/details.aspx?ID=724</a>
	Logo'd Components Index Full Install	Logo'd Components Index Full Install (~9.8 MB)  <a href="http://download.microsoft.com/download/whistler/Install/20.0/W982KmeXP/EN-US/logoidx.exe">http://download.microsoft.com/download/whistler/Install/20.0/W982KmeXP/EN-US/logoidx.exe</a>
Windows Server 2008	DTM 1.2	

## Errata and Contingencies

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Microsoft\* System DTM Errata list is available at:

<http://www.microsoft.com/whdc/hwtest/search/results.aspx?type=errata&key=system&kit=-1>

Operating System	Identification Number	Title

### 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://download.microsoft.com/download/whistler/install/1.0/w98nt42kmexp/en-us/readme.exe>

### **Testing Exceptions for S5000VCL Windows Server 2008**

Data in this section reflects product data and test exceptions listed in section 2 of the S5000VCL Readme file at time of WLP First-Time submission ID Number 1301236.

### **Testing Exceptions for S5000VCL Windows Server 2008 64 Bit**

Data in this section reflects product data and test exceptions listed in section 2 of the S5000VCL Readme file at time of WLP First-Time submission ID Number 1301236.

- **Additional Information**

No additional information entered in section 3 of the S5000VCL Readme file at time of WLP submission ID 1301236.

## Appendix A – Submission History

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Microsoft “Designed for Windows\*” logo submission history for the Intel® Server S5000VCL:

Submission ID	Type	Date	OS Qualified	Processor Speeds	Board Revision	BIOS Version
1301236	First-Time	08/01/08	Windows 2008 EE 32 & 64 Bit	1.60, 1.86, 2.00, 2.33, 2.66, 3.0 GHz	700	S5000.86B.03.00.89 06/20/2008