



**Server WHQL Testing Services**

**Enterprise Platforms and Services Division**

**Intel<sup>®</sup> Server Board S5520UR**

**Intel<sup>®</sup> Server System SR1600UR**

**Intel<sup>®</sup> Server System SR1625UR**

**Intel<sup>®</sup> Server System SR2600URBRP**

**Intel<sup>®</sup> Server System SR2625URBRP**

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## **Server Test Submission (STS) Report**

**For the Microsoft<sup>®</sup> Windows<sup>®</sup> Logo Program (WLP)**

Rev 1.0

**March 27, 2009**

This report describes the Intel<sup>®</sup> 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<sup>®</sup> Server Board S5520UR in an ICH10R SATA SW RAID configuration.

**Windows Server 2003 Submission Logo ID: 1323046**

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

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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 SATA SW RAID mode

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# Introduction

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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: <a href="http://www.microsoft.com/windows/catalog/server/">http://www.microsoft.com/windows/catalog/server/</a>
DTM	Driver Test manager. For latest Server DTM tests 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 EPSSD
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 EPSSD

# 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.

### Submission Information

Submission ID		
Submission ID / Master ID	1323046	
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 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	<input checked="" type="checkbox"/>	
SQL Database Server	<input checked="" type="checkbox"/>	
File Server	<input checked="" type="checkbox"/>	

## Server 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 <sup>®</sup> 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 <sup>®</sup> Server Board S5520UR
Northbridge* Chipset Manufacturer	Intel Corporation
Northbridge Chipset Model	Intel <sup>®</sup> 5520 Chipset IOH
Southbridge* Chipset Manufacturer	Intel Corporation
Southbridge Chipset Model	Intel <sup>®</sup> 82801 Jx I/O Controller (ICH10R)
BIOS	
BIOS Manufacturer	AMI*
BIOS Version	S5500.86B.01.00.0033.03062009
BIOS Date	3/6/2009
BIOS URL (For Updates)	<a href="http://support.intel.com/support/motherboards/server/s5520ur">http://support.intel.com/support/motherboards/server/s5520ur</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 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 S5520UR are available for download at:

<http://support.intel.com/support/motherboards/server/s5520ur>

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 2003</b> <b>Windows Server 2003 – 64Bit</b>	9.1.0.1012 9.1.0.1012
<b>Embedded ICH10R SATA Controller</b> SATA RAID mode	<b>Windows Server 2003</b> <b>Windows Server 2003 – 64Bit</b>	12.08.1023.2008 12.08.1023.2008
<b>LAN</b> 2 X Intel 82575EB Server Network Connection Supports 10/100/1000 and I/O Accelerated Technology	<b>Windows Server 2003</b> <b>Windows Server 2003 – 64Bit</b>	9.12.16.0 (Pkg 13.5) 9.12.16.0 (Pkg 13.5)
<b>Display</b> Server Engine iBMC video controller	<b>Windows Server 2003</b> <b>Windows Server 2003 – 64Bit</b>	WDM20080228.1996-R4 WDM20080228.1996-R4

## Server 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 S5520UR	
Additional Product Names	Intel® Server System SR1600UR	
	Intel® Server System SR1625UR	
	Intel® Server System SR2600URBRP	
	Intel® Server System SR2625URBRP	
Supported Platforms		
	Check Tested	Comments
Windows Server 2003 family	<input checked="" type="checkbox"/>	
Windows Server 2003 x64 family	<input checked="" type="checkbox"/>	
Windows Server 2008 family	<input type="checkbox"/>	
Windows Server 2008 x64 family	<input 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)  <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>	DTM 1.2 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 2008	DTM 1.2 Test Procedures and Readme files for Windows Server 2003 and Windows Server 2008 (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>	DTM 1.2 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>

## Errata and Contingencies

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Microsoft\* System DTM Errata list is available at:

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

Operating System	Identification Number	Title
Windows Server 2003		<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 S5520UR-SATA-SWR 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 **1323046**.

<b>Operating system</b> (Windows XP, Windows 2000, etc.)	<b>Failure type</b> (Contingency, Errata, Incident)	<b>ID number</b>
Windows Server 2003		
<b>Failing test name</b>		
<b>Applicable error message</b> (Type <b>N/A</b> if the error message or failing text is excessive or if there is no text)		
<b>Additional information</b> (for example, test system in a multiple system configuration)		
<i>no errata included with this submission</i>		

### Testing Exceptions for S5520UR-SATA-SWR 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 **1323046**.

<b>Operating system</b> (Windows XP, Windows 2000, etc.)	<b>Failure type</b> (Contingency, Errata, Incident)	<b>ID number</b>
Windows Server 2003 x64		
<b>Failing test name</b>		
<b>Applicable error message</b> (Type <b>N/A</b> if the error message or failing text is excessive or if there is no text)		
<b>Additional information</b> (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 S5520UR-SATA-SWR Submission Readme file at time of WLP submission ID 1323046.

## Appendix A – Submission History

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Microsoft “Designed for Windows\*” logo submission history for the Intel® Server Board S5520UR-SATA-SWR

Submission ID	Type	Date	OS Qualified	Processor Speeds	Board Revision	BIOS Version
1323046	First-Time	3/27/09	Windows Server 2003 - 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