

Wyse WSM

WYSE

Low cost, scalable and
reliable diskless computing

Introducing Wyse WSM.

All you need to know. Here.



An introduction to Wyse WSM and Wyse Zero Clients

The Power of a PC. Without the complexity.

Wyse WSM Delivers full PC functionality with all the benefits of centralized management and maintenance-free 'Zero Clients'.

Wyse WSM powers Zero Clients and legacy Desktops to become fully fledged PCs running Microsoft Windows. Time consuming PC management tasks such as OS upgrades, service packs or new application installations are carried out one-time only centrally on the server, avoiding the need to visit individual desktops. Dramatically speeding-up and simplifying deployment in one stroke.

The power of a PC, without the complexity.

Wyse Zero Clients and Wyse WSM provide compact, energy efficient and productive desktops with all the dynamic user experience of a PC - without the day-to-day complexities and risks associated with one.

Plus, as Wyse Zero Clients have no moving parts, their service lives (typically 5-10 years) are extended beyond those of comparable PCs and the noise from fans and hard drives is eliminated. Better still, their low power consumption means low heat output enabling comfortable working environments with a reduced dependence on costly carbon-heavy air conditioning - often leaving workplace cooling achievable through natural ventilation.



What is a Zero Client?

A diskless computer without any form of local storage.

It uses the network as its virtual drive.

Zero Clients are more secure and reliable than traditional computers and a fraction of the cost.



Wyse WSM in Education

Sit down. Start up. Teach! A perfect fit for education.

Teachers can do more of what they do best: Teach

Classrooms are challenging enough for teachers without fixing PCs. Wyse WSM provides every student with a fresh PC experience every time they boot Wyse Zero Clients. No fiddling with computer settings or other IT distractions. Just a consistently high-performing desktop to support modern IT enabled teaching.

Save more than just money.

Wyse Zero Clients save valuable IT, maintenance and campus energy budgets. Since there are no moving parts - such as fans or hard drives - Wyse Zero Clients have considerably longer lifetimes than comparable PCs. Even in the unlikely event a Wyse Zero Client needs replacing, just plug in a new Wyse Zero Client and things are up and running again in an instant.

Wyse WSM also provides unique computer management features like the ability to restore a computer to its original clean, virus-free state with a click of a mouse.



At a glance features:

- Operating system and application streaming from the network
- Supports Microsoft Windows 7, Vista, and XP Pro
- 1-Click PC recovery and clean-up
- 100% application, peripheral and multimedia support
- Supports Flash, Quicktime and Windows Media files
- Centralized OS, application and computer management.

Full potential. Full control.

Wyse WSM and Wyse Zero Clients are 100% compatible with all PC applications and peripherals and deliver teachers and students the rich and engaging educational multimedia experience of Microsoft Windows. Administrators have the option to refresh computer software, giving students a brand-new, fresh computer in every reboot or the option to customize and preserve each individual's settings for a flexible, customized learning experience. In short, Wyse WSM gives students the best chance to fulfill their potential, while enabling IT managers to remain in full control.



Wyse WSM in Education

Multiply your desktops by reusing the power of your PCs. Wyse WSM makes great computing very affordable...
...without the limitations.

Single Classrooms

You can run Wyse WSM on standard PCs, Wyse WSM Appliances or servers to create low cost, entry-level and compact Wyse WSM classroom networks supporting Wyse Zero Clients and diskless PCs.

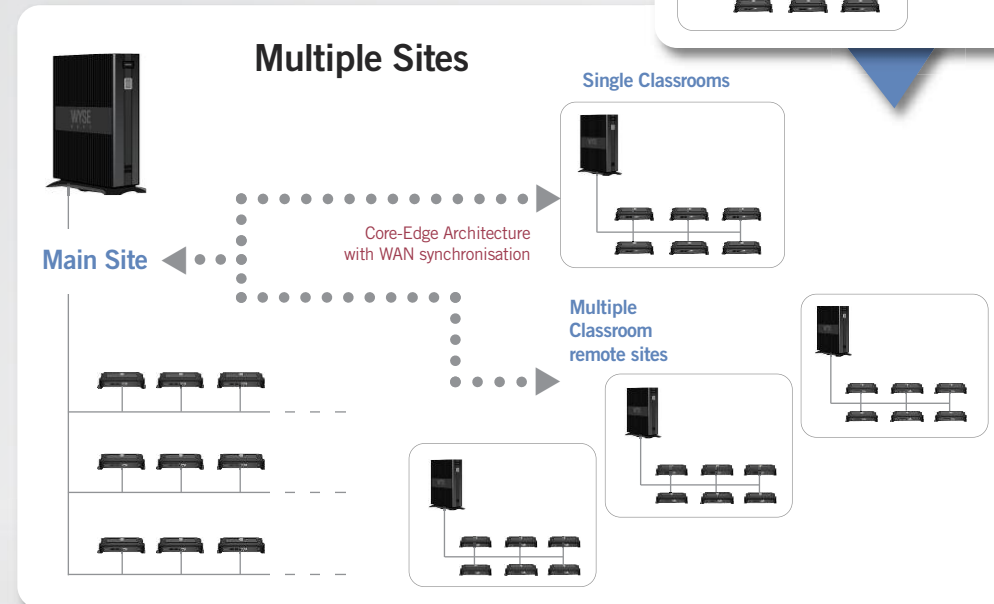
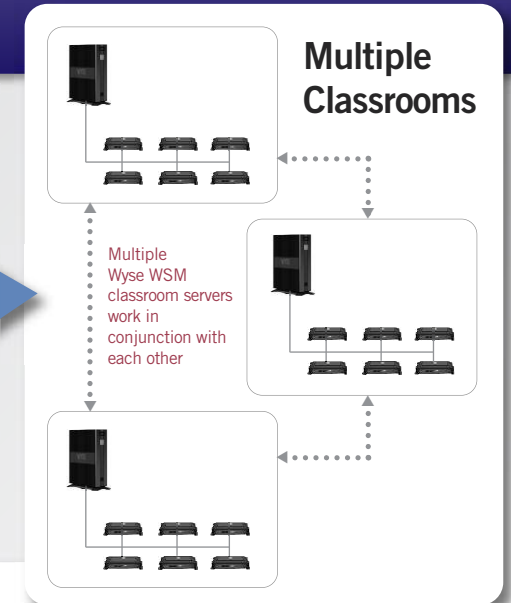
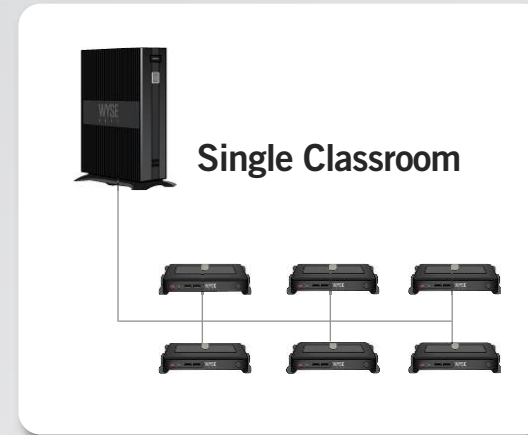
Multiple Classrooms

As additional classrooms are added Wyse WSM servers connect to each other to create a scalable and resilient computing network, through a feature called "server grouping". Wyse WSM server groups allow administrators to have a wholistic view of their environment and centrally manage and control all Zero Clients and diskless PCs powered by Wyse WSM.

Multiple Sites

Wyse WSM works within a real or virtualized server farm infrastructure together with centralized storage and, with the industry standard Microsoft Active Directory, is able to build a scalable, resilient multi-site architecture.

From simple to sophisticated, Wyse WSM is designed with built-in network flexibility

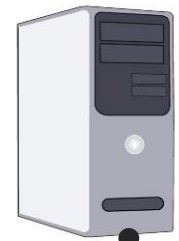


Wyse WSM Appliance

Simple, fast and ready to go.



- Wyse WSM Appliances come preloaded with Wyse WSM 3.0.
- Ready to go. Nothing to install.
- Internal hard drive for storing OS and application images.
- Can be used as a core server, or can be tied as an edge server to a core server.
- Multiple appliance boxes can be tied together to function as a “group” to provide load balancing and enhanced availability.
- Power up to 20 diskless computers.



Wyse WSM Appliance
Powers up to 20
diskless computers

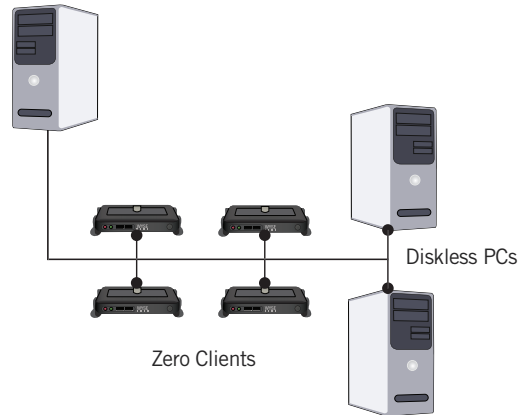
Zero Clients or Diskless PCs



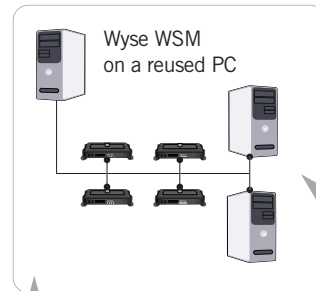
Wyse WSM: Low cost. Maximum scalability

Single Classroom

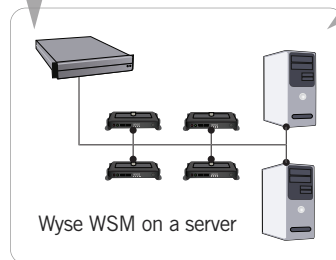
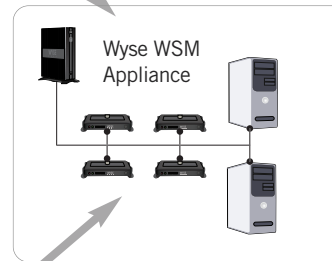
Reuse the power of your PCs



Multiple Classroom



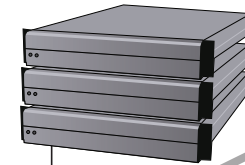
Multiple Wyse WSM classroom servers work in conjunction with each other



- Scales as requirements grow
- Resilient and highly available solution

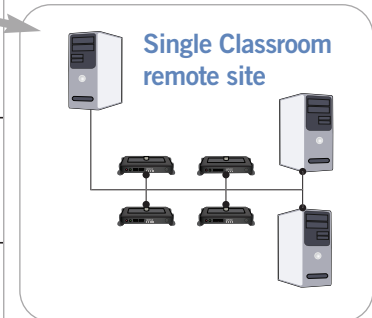
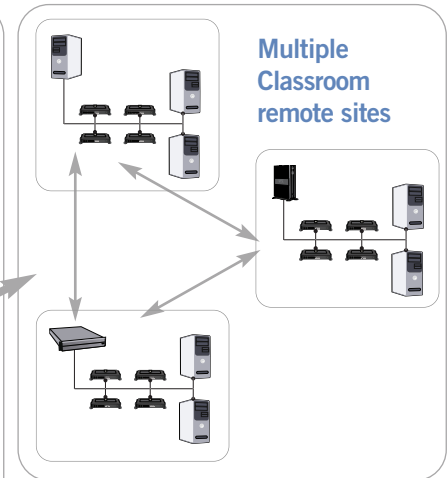
Multiple Sites

Wyse WSM Server, Storage and Active Directory infrastructure



HQ Site

Core-Edge Architecture with WAN synchronisation



Wyse WSM and NetSupport School

Complete classroom management for ICT Teachers and IT Technicians

Today's increasingly PC-literate students, with their growing reliance on the internet, present a variety of challenges to busy ICT teachers. Many of whom are expected to balance managing the content of their student desktops - with maintaining a fully-focused learning environment.

Powerful classroom partnership

Wyse WSM and leading classroom management software NetSupport combine to provide ICT teachers with a powerful solution to delivering a better and more manageable learning experience. NetSupport School provides an innovative suite of tools across Wyse WSM networks that ICT teachers value, from internet and application monitoring, printer management, real-time presentation tools, to a recently-released unique Language Lab mode.

Management tools

NetSupport School also provides IT technicians with a dedicated console displaying real-time thumbnails of every connected desktop, showing which teachers are connected to student desktops within each classroom. The console allows for the full remote control of all student desktops along with instant hardware and software audits.

Plus, NetSupport School's Instant Survey tool and innovative Test Designer helps provide continuous learning assessment; digital Student Journals track vital lesson content; while the ability to prepare Lesson Plans in advance helps ICT teachers to save time and meet their target objectives.

NetSupport School software is purchased separately.

A free 90 day trial of NetSupport School and 1 year's free NetSupport School software maintenance is available when Wyse WSM is purchased.



ICT Teachers can monitor entire classroom or individual student desktops



IT Technicians benefit from thumbnails of all connected desktops



Available Wyse Zero Clients

Versatile, powerful stateless desktop devices.



Wyse COOLE

Ultra-compact unit with high performance multimedia support.



Wyse R00L

Desktop unit with highest performance and comprehensive expansion capability.

Microsoft Windows XP	•	
Microsoft Windows Vista		•
Microsoft Windows 7		•
Ideal For:	Windows XP, Microsoft Office, Internet-based curriculum, including basic multimedia (Flash, Quicktime) support.	Rich Windows 7 Aero experience, outstanding multimedia and 3D CAD/CAM support.
Processor	High performance processor	Super-scalar processor for highest level performance
Graphics processor	Media processor accelerates streaming media	Graphics co-processor accelerates general graphics and streaming media
Display support	2 displays with splitter cable*(digital and VGA) 1920x1200	Dual digital outputs 2560 x 1600
Network	10/100/Gigabit Ethernet	10/100/Gigabit Ethernet
Expansion	USB & PS/2	USB, Serial & PS/2
Typical power	< 7 Watts	< 15 Watts



Wyse WSM Software Specifications

Device Hardware Requirements	<ul style="list-style-type: none">• Minimum processor speed 800MHz (1GHz or higher is recommended).• Minimum 1GB or higher is recommended	<ul style="list-style-type: none">• Flash size/local storage – none needed. If the device has flash it can be used as a local cache for offline mode.
Server Requirements	<ul style="list-style-type: none">• Minimum processor speed 1GHz (3GHz or higher is recommended).	<ul style="list-style-type: none">• Server Operating System: Windows XP Pro SP3, Windows Server 2003, Windows Server 2008 and 2008 R2
Network Requirements	<ul style="list-style-type: none">• Server Lan Speed = Minimum 100Mbps (1Gbps and up is recommended).• Device Lan Speed = Minimum 10Mbps (100 Mbps full duplex is recommended)	
Operating Systems Supported	<ul style="list-style-type: none">• Microsoft Windows XP• Microsoft Windows Vista.• Microsoft Windows 7.	
Databases supported	<ul style="list-style-type: none">• Microsoft SQL 2005 and 2008 (Server and Express Editions).	
Built-in high Availability	<ul style="list-style-type: none">• Database availability using SQL clustering.• Built-in server high availability through WSM Server Grouping feature.• Server to Server Fail-over Capability.	
Fast and Easy Installation	<ul style="list-style-type: none">• Installing Wyse WSM is simply a matter of running a single, graphical installer.	<ul style="list-style-type: none">• The installer checks for all the prerequisite components before installation.
Web-based Admin Console	<ul style="list-style-type: none">• Allows IT administrators to access Wyse WSM from any browser.• Control the entire installation from a central location.	<ul style="list-style-type: none">• Dramatically simplifies administration, saving IT time and user downtime.• Wizards to guide the user through specific tasks.
Operation System and Application Imaging Tools	<ul style="list-style-type: none">• Imaging tool simplifies the process of creating an OS image for the specific hardware configuration and an application image for all hardware configurations.	<ul style="list-style-type: none">• All OS and application images are ready for deployment once created, no further modifications needed.
Application Subscription Management	<ul style="list-style-type: none">• Use flexible application deployment methods:<ul style="list-style-type: none">- Auto-subscribed applications are ready for use when user logs in for the first time.- Manual subscriptions allow users the flexibility to use applications only when needed.- Mandatory subscriptions that cannot be unsubscribed by users.	
Protected System Drive	<ul style="list-style-type: none">• Allows administrators to protect the system drive from enduser initiated updates.	<ul style="list-style-type: none">• Prevents changes to operating system drive except by administrators, helping stop viruses, spyware, or malware from infecting the device.



Wyse WSM Software Specifications *continued*

Operating System Streaming

- Wyse WSM provides an on-demand operating system to thin-computers on the network.
- Only those bits needed for the normal device operation are sent in order to reduce network traffic.
- Innovative technology makes each thin client think there is a virtual hard disk attached to the device.
- Operating-system images can be shared across multiple devices, making management easier.

Flexible Boot Options

- Each device can boot from four operating system image assignments.
- Administrators can assign or let users choose which operating system they want to boot.
- First disk mode for the default OS image to boot from every time device starts up.
- First available mode to boot from the first responding server in order to balance loads.

Application License Management and Metering

- Wyse WSM provides the infrastructure to collect information about the application license-usage across the enterprise. This information allows IT organizations to save money associated with application licenses.
- Licenses can be stored for all the applications deployed. It also enforces license compliance.
- Types of licenses that can be controlled include:
 - Time-based licenses (valid for X days).
 - Number of concurrent users.

Modes of Operation

Wyse WSM allows administrators to choose modes of operation for the operating system:

- **Private Mode** – for administration of operating system images.
- **Shared Mode** – has two additional modes of normal operation:
 - *Volatile* – returns desktop to pristine state after a device reboot.
 - *Persistent* – remembers any user settings after a device reboot.

Remote Servers for Scalability

- IT administrators can deploy multiple remote servers to improve scalability of the overall solution.
- Central management of remote servers allows easy deployment of the solution across different geographic locations.

Comprehensive Reporting

- Easy ad-hoc reporting based on flexible parameters.
- Reports are delivered through HTML, giving you the flexibility to output in any form.
- License-metering reports can be used to make proactive purchasing decisions.
- License-audit reports can be used for compliance purposes.

Desktop Compatibility

- Wyse WSM works with Wyse COOLE, V00L/E, R00L/E and X00C/L family thin computers as well as with existing thin computers, personal computers, and virtual-desktop systems.



Contact Wyse

Wyse Technology Inc.

3471 North First Street, San Jose, CA 95134-1801

Visit our website at:

<http://www.wyse.com> or send an email to: sales@wyse.com

Wyse Sales

800 GET WYSE (800 438 9973)

Wyse Customer Service Center:

800 800 WYSE (800 800 9973)

**Wyse offers thin computing sales, service
and support expertise around the globe.**

[Click here for contact details of your regional Wyse office.](#)

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Wyse WSM in Education

Low cost, scalable and
reliable thin computing

Summary Data

Wyse WSM Provisioning Software

Sit down. Start up. Teach.

Classrooms are challenging enough places for teachers without the added distractions of students struggling with unreliable PCs. Wyse WSM ensures every student is provisioned with a consistent computer – to their exacting needs – at the start of each and every lesson.

The Power of a PC. Without the complexity.

Wyse WSM creates a better learning environment through powerful, compact, energy efficient and productive desktops known as Zero Clients. Together with Wyse WSM, they deliver the dynamic user experience of a PC – without the complexities and risks associated with one.

Low cost, easy to deploy, scalable classroom networks.

Wyse WSM enables you to set up single stand alone class network that, as requirements grow, can be combined with other standalone WSM networks to create intelligent multi-class room networks both on site and across multiple sites, with the inherent scalability to grow into fully fledged server-based environments.

This can be achieved with PCs, Servers or WSM Appliances functioning as WSM servers, provisioning both Zero Clients and repurposed Diskless PCs.

Easy to manage classroom networks.

Time consuming PC management tasks such as OS upgrades, service packs or new application installations are carried out one-time centrally on the server, eliminating prohibitive ongoing IT support costs in a stroke.

Choice of operating systems.

Wyse WSM is compatible with all PC operating systems and software.

Call Wyse: 1-800-GET-WYSE www.wyse.com

Features at a glance

PC Performance

Delivers full PC performance and functionality. Students will think they're running a PC – but with greater reliability.

More For Less

Wyse WSM drives down the cost-per-desktop enabling schools and colleges attain their targets of a computer for every student.

Grow As Needed

Wyse WSM enables the creation of low cost single-classroom networks with the potential to network them together to form multi-classroom, multi-site environments with the inherent scalability to grow into fully fledged server-based infrastructures.

Compatibility

Wyse WSM works with Wyse Zero Clients as well as PCs and virtual desktop systems. It supports any application or peripheral that runs on Windows PCs.

Management

Easy centralized management is carried out on the WSM server without the need to visit individual desktops.

OS Support

Wyse WSM supports Windows 7, Vista, and XP Pro Operating Systems and any application that runs on these OS.

Wyse WSM in Education

Specifications

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Wyse Customer Service Center:
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