

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.



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 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 XP Pro or Vista. 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.



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.

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 XP Pro and Vista. 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.

At a glance features:

- Operating system and application streaming from the network.
- Supports Microsoft Windows XP Pro and Microsoft Vista.
- 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.



Wyse WSM: from single classroom to multiple site deployment

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

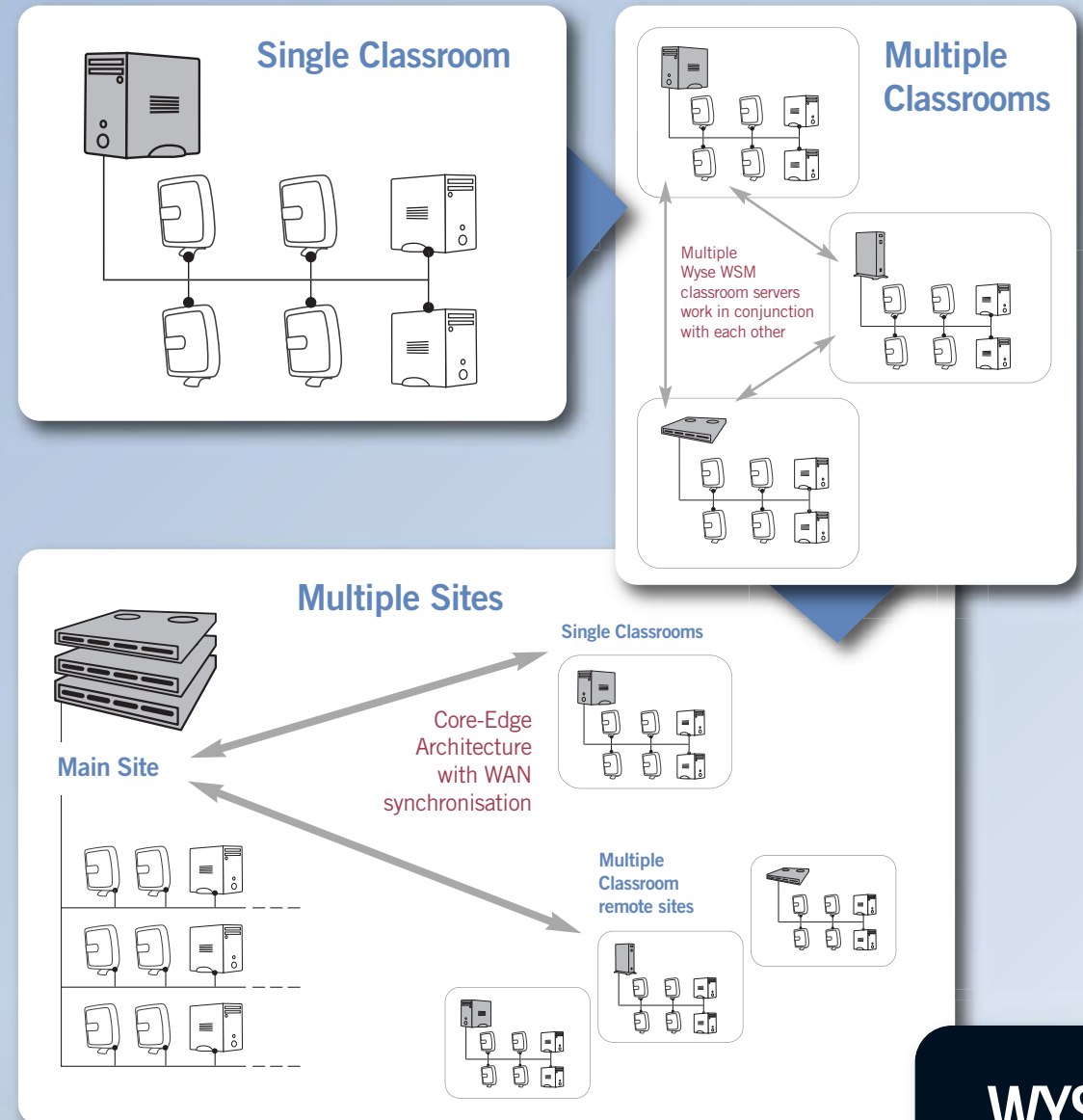
As additional classrooms are added Wyse WSM servers connect to each other to create a scalable and resilient computing network, through a feature called "server grouping".

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

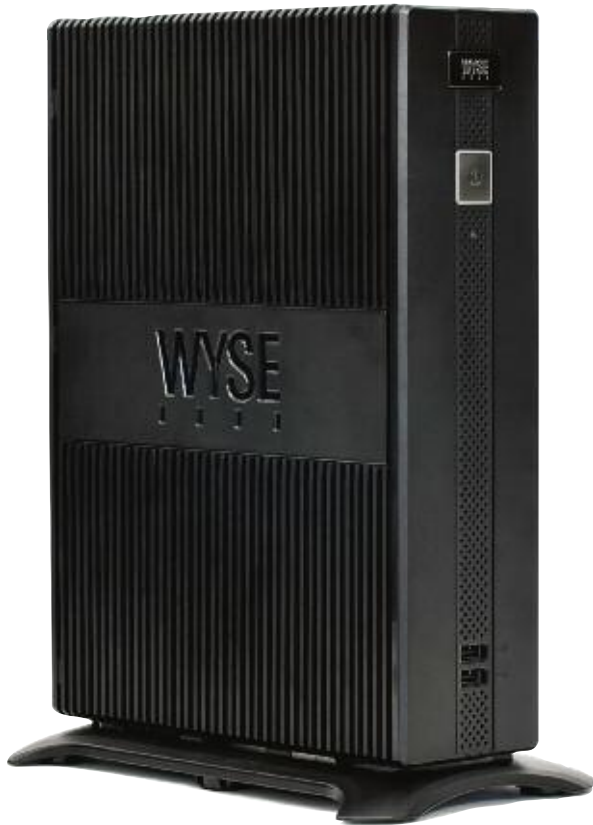
Wyse WSM works within a real or virtualised server farm infrastructure together with centralised storage and, with the industry standard Microsoft Active Directory, is able to build a scalable, resilient multi-site architecture.

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

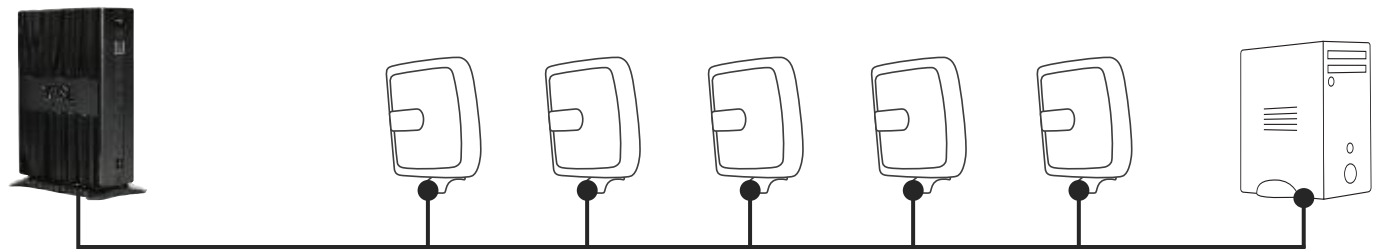


Wyse WSM Appliance

Simple, fast and ready to go.



- Wyse WSM Appliances come preloaded with Wyse WSM 2.3.
- 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 25 diskless computers.



Wyse WSM Appliance
Powers up to 25
diskless computers

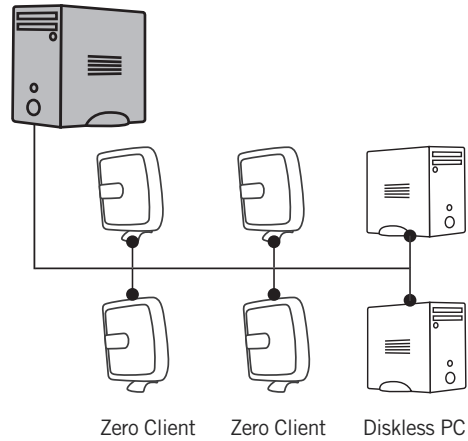
Zero Clients or Diskless PCs



Wyse WSM: Low cost. Maximum scalability

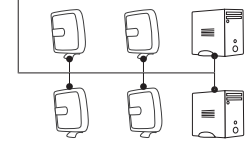
Single Classroom

Reuse the power of your PCs



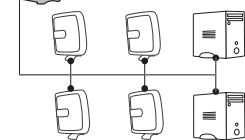
Multiple Classroom

Wyse WSM on a reused PC

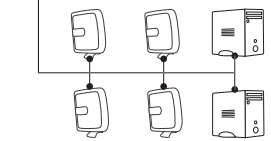


Multiple Wyse WSM classroom servers work in conjunction with each other

Wyse WSM Appliance



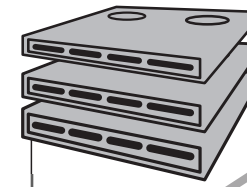
Wyse WSM on a server



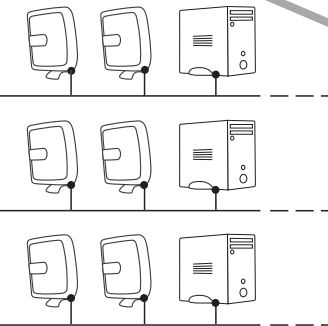
- Scales as requirements grow
- Resilient and highly available solution

Multiple Sites

Wyse WSM Server, Storage and Active Directory infrastructure

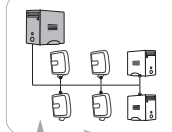


Main Site

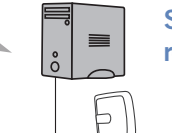


Core-Edge Architecture with WAN synchronisation

Multiple Classroom remote sites



Single Classroom remote site



Available Wyse Zero Clients

Versatile, powerful stateless desktop devices.



Wyse V00L

A compact Wyse WSM desktop Zero Client from the very capable Wyse V class family



Wyse R00L

High Performance, slim form factor.



Wyse R00LE

Highest Performance, comprehensive expansion options.

	Windows XP	•	•	•
	Windows Vista		• (Good experience)	• (Best experience)
End User Application Use	Office Applications, Internet and basic Multimedia (including Flash Video)		Rich multimedia and 3D apps (like Google earth, Rosetta stone, etc... for education) on top of all the V00L capabilities	Intensive Graphics Apps (Video / Audio editing, database, science / eng apps), Imaging, health-care (X-rays), CAD/CAM, Hi-Def Kiosks. Any environment requiring high-end 3-D or quad hi-def screen support.
Ideal For	Call Centers (Cross Industry)	•		
	CAD/CAM (Cross Industry)			•
	Education	•	•	
	Finance	•	•	
	Government	•	•	
	Healthcare	•	•	•



Wyse WSM Specifications

Device Hardware Requirements	<ul style="list-style-type: none">• Minimum processor 800MHz.• Minimum memory 256MB.• Flash size/local storage – none needed. If the device has flash it will be disregarded.
Server Requirements	<ul style="list-style-type: none">• Minimum processor speed 1GHz (3GHz or higher is recommended).• Server Operating System Server OS Windows XP Pro SP3, Windows Server 2003, Windows Server 2008
Network Requirements	<ul style="list-style-type: none">• Server Lan Speed = Minimum 100Mbps (1Gbps recommended).• Device Lan Speed = Minimum 10Mbps (100 Mbps duplex is recommended)
Operating Systems Supported	<ul style="list-style-type: none">• Microsoft Windows XP• Microsoft Windows Vista.
Databases supported	<ul style="list-style-type: none">• Microsoft SQL Server.
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.
Fast and Easy Installation	<ul style="list-style-type: none">• Installing Wyse WSM is simply a matter of running a single, graphical installer.• 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.• 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 operatingsystem image for the specific hardware configuration and an application image for all hardware configurations.• 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.• Prevents changes to operating system drive except by administrators, helping stop viruses, spyware, or malware from infecting the device.



Wyse WSM 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 computer 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 V00L / LE family, Wyse V00, Wyse R00L / LE family thin computers as well as with existing thin computers, personal computers, and virtual-desktop systems.



Contact Wyse

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Visit our website at:

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

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Some features require support by server operating system and protocol. April 2009.

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

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



WYSE
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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 enables this 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 networks 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 reconfigured PCs or WSM Appliances functioning as WSM servers, provisioning both Zero Clients and reconfigured 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 PCs. For less cost.

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

Fully scalable

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

Device compatibility

Wyse WSM works with Wyse Zero Client variants from the Wyse V and R class family, Wyse 941G thin computers, as well as existing thin computers, PCs and virtual desktop systems.

Management

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

Operating systems and applications

Wyse WSM efficiently provisions the vital teaching applications, and necessary operating systems, precisely where and when they're need: at the start of each and every lesson.

Wyse WSM in Education

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