

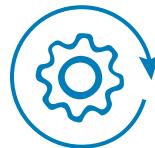


SECURE BY DESIGN

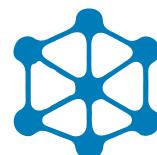
Wyse thin clients with Wyse ThinOS



SECURE, TRUE
THIN CLIENT EXPERIENCE



INTELLIGENT, UNIFIED
MANAGEMENT



SMARTER, FASTER
END-USER EXPERIENCES

Experience optimized performance with Wyse thin clients and software designed to enhance your digital workspaces with ultimate security and intelligent unified management. The new generation of Wyse thin clients powers your organization with a more efficient and effective digital experience.

Learn More at Dell.com/Wyse

Why Wyse ThinOS

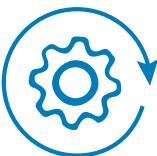
BUILT TO FIT YOUR ENVIRONMENT

Dell's exclusive Wyse ThinOS is the most secure thin client operating system¹ delivering a zero client experience with the latest high performance desktop virtualization protocols and a rich array of connectivity options to keep users at their productive best.



SECURE, TRUE THIN CLIENT EXPERIENCE

End to end security starts at the end point. With zero attack surface, an unpublished API and encrypted data, Wyse ThinOS is virus and malware resistant. Unlike Windows® and Linux, ThinOS was created just for virtual desktops with patented technology from Dell, the thin client leader with over 220 patents in this area. Wyse ThinOS is certified with Citrix®, Microsoft®, VMware®, and other ecosystem partners. Zero themes for Citrix and VMware brokers provide a seamless connectivity experience for the end users.



INTELLIGENT, UNIFIED MANAGEMENT

Wyse ThinOS requires zero external management software to configure, operate, and update, eliminating the need for IT to visit or touch the physical devices. As the number of devices grows, Wyse Management Suite offers process automation, insight, and helps lower costs for large deployments of Wyse endpoints.

With secure, HTTPS-based communications and active directory authentication for role based administration, Wyse Management Suite keeps Wyse endpoints always up to date and the mobile app allows IT to view critical alerts, notifications on the dashboard and send real time commands with one tap at any time.



SMARTER, FASTER END-USER EXPERIENCES

Ready to connect to Citrix®, Microsoft®, VMware® and Amazon Workspaces² environments, this light weight firmware base about the size of a digital photograph has minimal overhead and a boot time of less than 10 seconds for a shorter time to productivity. Support for leading unified communications solutions enables clear, crisp high-definition audio/video calls in an optimized architecture and delivers a rich user collaboration experience.

1-Based on Dell internal analysis of competitive products, March 2019.

2-Requires Wyse ThinOS with PCoIP version

Meet the Wyse Family

SECURE BY DESIGN

Base Operating System



BASE OS

With no facility to run or invoke external applications nor any ability to store user data on the device, Wyse ThinOS has practically no opportunity to execute typical security exploits. As virtual desktop infrastructures centrally store and manage all data and applications on a server, utilizing thin clients with Wyse ThinOS help organizations to further prevent the loss and/or theft of sensitive information and assist organizations in their efforts to remain compliant with privacy regulations by protecting the end points from attack.

Vulnerability Protection



PROTECTION

Virus programmers often target the largest OS communities where there is more to gain (notoriety, theft of data, etc.). Many vulnerabilities, viruses, and malware are transferred via internet browsers, email attachments, or by opening infected files in the local storage devices. These types of vulnerabilities are prevented in Wyse ThinOS, as users do not have access to a local browser and there is no run-time system for malware to latch onto or be executed. All internet and email applications are delivered via the centrally managed desktop virtualization environment where threats can be intercepted and managed without risks introduced via attacks on the edge device.

Security Policy Statement



SECURITY

Dell is dedicated to help our customers comply with regulations such as Sarbanes Oxley, HIPAA, and others. Should a new update become available from Dell or our technology partners that further enhances protection or alleviates a security concern, customers will be notified and directed to properly packaged firmware that can then be easily propagated to currently deployed thin clients.

Meet the Wyse Family

WYSE THIN CLIENTS WITH THINOS

WYSE 3040 THIN CLIENT

At the top of its class. Designed around Intel® quad-core processors, Wyse 3040 delivers business-class performance for virtual workspaces. Native support for dual display and robust connectivity including USB 3.1 Gen 1 for speedy data transfer provide convenient, confident connectivity and collaboration. Ideal for space-constrained environments, several custom designed mounting solutions help maximize work space set up and deliver an all-in-one experience with the behind-the-monitor mounting solution for Dell displays.



WYSE 5070 THIN CLIENT

Ultimate configurability: To meet the advanced business needs of collaborative knowledge workers and graphics-intensive power users, the Wyse 5070 delivers high-speed processing with the latest-gen Intel quad-core processors. The Wyse 5070 boosts user productivity with a high level of configurability and twenty-one ports and slots options. Features like True 4K graphics, multiple DisplayPort interfaces, USB-C, several network connection options, and integrated CAC/SmartCard reader option help ensure an extended, productive user experience day after day.



WYSE 5470 ALL-IN-ONE THIN CLIENT

Get lost in the project on the beautiful 23.8" FHD IPS display with support for a second display at 4K at 60Hz for even more productivity. Make space for the things that matter with a space-saving footprint and multiple stand options, so you can find the position that gets you to peak productivity with optimal comfort. Featuring DisplayPort, RJ-45, six USB ports and Bluetooth 5.0 option, you can benefit from a broad support of peripherals to empower a faster, smarter workflow and seamless collaboration with built-in support for unified communications



WYSE 5470 MOBILE THIN CLIENT

Connect, collaborate and work confidently on the move with the Wyse 5470 mobile thin client. A full HD 14" display, built-in support for unified communications and rich connectivity options deliver a productive user experience and faster and smarter collaboration. With inherent Wyse software security and ultra-manageability, the Wyse 5470 delivers a robust mobile cloud computing experience and keep your data safe in the cloud while you transition confidently from your desk to meetings to remote work..



WYSE THINOS VERSIONS

Wyse ThinOS version/ broker client

- Citrix Receiver 4.x compatible
- Microsoft RDP 10 compatible
- VMware Horizon client with Blast Extreme
- VMware Horizon client with Blast Extreme and PCoIP

ThinOS

- ✓
- ✓
- ✓
-

ThinOS with PCoIP

- ✓
- ✓
- ✓
- ✓

Features & Technical Specifications

TECHNICAL SPECIFICATIONS

Feature	Technical Specifications
Supported Wyse thin clients	Wyse ThinOS 8.6: Wyse 3040 thin client Wyse 5070 Extended thin client Wyse 5470 AIO thin client Wyse 5470 mobile thin client Wyse ThinOS 8.6 with PCoIP Wyse 3040 thin client Wyse 5070 thin client Server OS Infrastructure Support Citrix Virtual Apps and Desktops (formerly XenDesktop/XenApp) VMware Horizon Microsoft® Windows Terminal Server Amazon Workspaces (requires ThinOS with PCoIP option)
Citrix Receiver 4.X Compatible	<ul style="list-style-type: none">- Native Storefront authentication- HDX Mediastream- HDX Multi-stream- HDX Plug-n-Play- HDX 3D, HDX 3D Pro- HDX Realtime Optimization Pack 2.5- Seamless Windows- Desktop restart (XenDesktop)- Smartcard / proximity card authentication & redirection- Citrix Access Gateway and Citrix Secure Gateway support (direct LDAP or RSA authentication)
RDP 10 Compatible Client	<ul style="list-style-type: none">- Multi-stream (simultaneous UDP and TCP connections)- RemoteFX USB redirection- Terminal Server Gateway- Multi Codec (GFX)- Enhanced video playback- VOR (H.264 multimedia redirection)- Windows® Media Player redirection- Support for H.264 decoding & AVC 4:4:4 on RDP 10 to deliver higher quality text rendering without losing benefit of H.264 compression- Personal virtual desktops and virtual desktop pools- Multiple monitor support- Bidirectional audio- Copy/paste by files between sessions- RD Connection Broker- Load balancing- Bandwidth estimation
VMware Horizon 5.x Client	VMware Blast Extreme and optional PCoIP protocols support ensures high quality video and graphics via an onboard GPU acceleration of H.264 video content and up to Full HD (1920 x 1200) resolution <ul style="list-style-type: none">- Blast extreme/H.264- Blast Network Condition Settings- Blast High Color Accuracy- PCoIP Relative Mouse- Real-Time Audio-Video Support- USB Redirection- Smartcard Authentication- Multimedia Support (for RDP connection)- Blast UDP/BEAT- SecureID Authentication
Unified Communications support	<ul style="list-style-type: none">- Citrix Realtime Media Engine And Multiple Audio Device Support- VMware Horizon Virtualization Pack for Skype for Business- Cisco Jabber Softphone for VDI (formerly known as Virtualization Experience Media Edition (VXME). Support for Citrix Virtual Apps and Desktops.
ThinOS firmware updates	ThinOS firmware and maintenance release updates are available on Dell eSupport for the respective Wyse thin clients.
Management	Simple file server management Wyse Management Suite

Wyse ThinOS 8.6

CITRIX RECEIVER FEATURE MATRIX WITH THINOS

	Feature	ThinOS 8.6.024	Windows 4.10	Linux 13.7
Content	XenApp Applications	Y	Y	Y
	XenDesktop Desktops	Y	Y	Y
	Follow Me Apps / Subscriptions	Y	Y	Y
	Offline Apps (App V)	n/a	Y	Y
	File Open In Receiver	n/a	Y	Y
	Desktop Viewer/Toolbar	N	Y	Y
	Multi-tasking	Y	Y	Y
	Follow Me Sessions (Workspace Control)	Y	Y	Y
	URL Redirection	N	Y	Y
HDX	Audio Playback	Y	Y	Y
	UDP Audio	Y	Y	Y
	Bidirectional Audio (VoIP)	Y	Y	Y
	Web Cam (Video Chat)	Y	Y	Y
	Video Playback	Y	Y	Y
	Flash Redirection	Y (x86 only)	Y	Y (x86 only)
	Skype for business Optimization pack	Y (x86 only)	Y	Y (x86 only)
	Cisco Jabber UC Optimizations	Y (x86 only)	Y	Y
	Windows Multimedia Redirection	Y	Y	Y
	Local Printing	Y	Y	Y
	H.264-enhanced SuperCodec	Y	Y	Y
	Adaptive Transport	Y (DTLS audio limitation)	Y	Y
	Framehawk	N	Y	
	Client hardware acceleration	Y(Limitation to HW platform)	Y	Y
	Desktop Composition redirection	N	Y	
	3DPro Graphics	Y	Y	Y
	Remote FX	N	Y	
	Location Based Services	N	Y	
	Client drive mapping / File Transfer****	Y	Y	Y
	Generic USB redirection	Y	Y	Y
	SDWAN Support	To be verified	Y	Y
	Local App Access	n/a	Y	
	Multi-touch	N	Y	
	Mobility Pack	n/a	Y	
	HDX Insight	Y	Y	Y
	Experience Metrics	Y	Y	Y
	External Monitor	Y	Y	Y
	Session Sharing, Session Reliability	Y	Y	Y
	Auto Client reconnect	Y	Y	Y
	Multi-port ICA	Y	Y	Y

Wyse ThinOS 8.6

CITRIX RECEIVER FEATURE MATRIX WITH THINOS

	Feature	ThinOS 8.6	Windows 4.10	Linux 13.8
Security/Communication	Receiver for Web Access	n/a	Y	Y
	Remote Access via NetScaler Gateway	Y	Y*StoreFront only	Y
	NetScaler Full VPN	Y	Y	Y
	RSA Soft Token	Y		
	Challenge Response SMS	Y	Y	
	User Cert Auth via NetScaler Gateway	Y	Y	
	Smart Card (CAC,PIV Etc.)	Y	Y	Y
	Proximity/Contactless Card (Fast Connect)	Y	Y	Y
	Pass Through Authentication	Y	Y	
	SAN Cert	To be verified	Y	Y
	SHA2 Certs	Y	Y	Y
	TLS 1.1/1.2	Y	Y	Y
	AES & 3DES Encryption	Y	Y	Y
	Smart Access	Y	Y	Y
	IPV6	Y	Y	Y
Update	Auto Discovery/Configuration	N	Y	Y
	App Store Updates/Citrix update	N	Y	

Source: <https://support.citrix.com/article/CTX104182>

Wyse ThinOS 8.6

HORIZON CLIENT FEATURE MATRIX WITH THINOS

	Client Type	ThinOS 8.6_024	Windows client 4.10	Linux client 4.10
Client Appearance and Workflow	Customer branding	Not Supported	•	-
	Kiosk mode	Supported	•	•
	In-product help	Not Supported	-	-
	Online help	Not Supported	•	•
	English, French, German, Japanese, Traditional Chinese Simplified, Chinese localization	Supported	•	•
	Korean localization	Not Supported	•	•
	Spanish localization	Not Supported	•	•
Broker Connectivity	XML-API version	13	15	15
	SSL	Supported	•	•
	SSL certificate verification	Supported	•	•
	Disclaimer dialog	Supported	•	•
	Security Server compatibility	Supported	•	•
	UAG compatibility	Supported	•	•
	Multi-broker/Multi-site redirection - DaaS	Not Supported	•	•
	Client info	Supported	•	•
	Phonehome	Not Supported	•	•
Broker Authentication	Password authentication	Supported		•
	Password change	Supported	•	•
	RSA authentication	Supported	•	•
	Radius	Supported	•	•
	Integrated RSA SecurID token generator	Not Supported	-	-
	Single Sign On	Supported	•	•
	Log in as current user	Not Supported	•	-
	Nested log in as current user	Not Supported	•	-
	Unauthentication access	Supported	•	•
Smartcard	x.509 certificate authentication (Smart Card)	Supported		•
	CAC support	Supported	•	•
	.Net support	Supported	•	•
	PIV support	Not Supported	•	-
	Java support	Not Supported	•	-
	Purebred derived credentials	Not Supported	•	-
Desktop Operations	Reset	Supported	•	•
	Restart	Not Supported	•	•
	Log off	Supported	•	•
Session Management (Blast Extreme & PCoIP)	Switch desktops	Supported		•
	Multiple Connections	Supported	•	•
	App Launch on Multiple end points	Supported	•	•
	Auto-Retry	Supported	•	•
	Auto-Retry 5+ minutes	Supported	•	•

Wyse ThinOS 8.6

HORIZON CLIENT FEATURE MATRIX WITH THINOS

	Client Type	ThinOS 8.6_024	Windows client 4.10	Linux client 4.10
Client Customization	Fullscreen mode	Supported	•	•
	Fullscreen toolbar	Not Supported	•	•
	Windowed mode	Supported	•	•
	Time Zone Synchronization	Supported	•	•
	Jumplist integration (Windows 7-Windows 10)	Not Supported	•	-
Client Customization	Command Line Options	Not Supported	•	•
	URI Schema	Not Supported	•	•
	Preference File	Blast Supported Only	•	•
	Non Interactive Mode	Not Supported	•	•
	GPO-based customization	Not Supported	•	-
Protocols supported	Blast Extreme	Supported	•	•
	H.264 - HW decode	Supported	•	•
	H.265 - HW decode	Not Supported	•	-
	JPEG / PNG	Supported	•	•
	Blast Extreme Adaptive Transportation	Supported	•	•
	RDP 6.x, RDP 7.x	Supported	•	•
	RDP 8.x, 10.x	Supported	•	-
	PCoIP	Supported	•	•
Protocol Enhancements	RDP-VC Bridge	Blast Supported Only	•	•
	Session Enhancement SDK	Not Supported	•	•
Features / Extensions Monitors / Displays	Dynamic Display Resizing	Supported	•	•
	Multiple Monitor Support	Supported	•	•
	External Monitor Support	Supported	•	•
	Display Pivot	Supported	•	•
	Multiple Aspect Ratio support	Supported	•	•
	Number of displays supported	4	4	4
	Maximum Resolution	3840x2160	3840x2160	3840x2160
	Video out	Supported	•	•
	High DPI scaling	Not Supported	•	•
	DPI Sync	Supported	•	•
	Exclusive Mode	Not Supported	-	-
	Multiple Monitor Selection	Supported	•	•
Input Device (Keyboard / Mouse)	Relative mouse	PCoIP Supported Only	•	•
	External Mouse Support	Supported	•	•
	Local buffer text input box	Not Supported	-	-
	Keyboard Mapping	Supported	•	•
	Unicode Keyboard Support	Not Supported	-	-
	International Keyboard Support	Supported	•	•
	Input Method local/remote switching	Not Supported	•	-
	IME Sync	Not Supported	•	•

Wyse ThinOS 8.6

HORIZON CLIENT FEATURE MATRIX WITH THINOS

	Client Type	ThinOS 8.6_024	Windows client 4.10	Linux client 4.10
Clipboard Services	Clipboard Text	Blast Supported Only	•	•
	Clipboard Graphics	Not Supported	•	-
	Clipboard memory size configuration	Not Supported	•	•
	Drag and Drop	Not Supported	•	-
Client Caching	View Agent to Client-side caching	Blast Supported Only	•	•
Connection Management	Blast network recovery	Supported	•	•
	IPv6 support	Supported	•	-
	PCoIP IP roaming	Supported	•	•
High-Level Device Redirection	Serial (COM) Port Redirection	Not Supported	•	•
	Client Drive Redirection/File Transfer	Not Supported	•	•
	Scanner (TWAIN/WIA) Redirection	Not Supported	•	•
	x.509 Certificate (Smart Card)	Supported	•	•
	Gyro Sensor Redirection	Not Supported	•	
Real-Time Audio-Video	Analog in (input)	Supported	•	•
	Real-Time Audio-Video	Supported	•	•
	Multiple webcams	Not Supported	•	-
USB Redirection	Generic USB / HID	Supported	•	•
	Policy: ConnectUSBOnInsert	Supported	•	•
	Policy: ConnectUSBOnStartup	Supported	•	•
	Connect/Disconnect UI	Not Supported	•	•
	USB device filtering (client side)	Supported	•	•
	Isochronous Device Support	Supported	•	•
	Split device support	Supported	•	•
	Bloomberg Keyboard compatibility	Not Supported	•	•
	Smartphone sync	Supported	•	•
	USB 3.0	Supported	•	•
Unified Communications	USB Redirection USB storage devices	Supported	•	•
	Cisco UC Jabber	Not Supported	•	•
	Avaya UC One-X Desktop	Not Supported	•	•
	Mitel UCA	Not Supported	•	-
	Microsoft Lync 2013	Not Supported	•	-
Multimedia Support	Skype for business	Blast Supported Only	•	•
	Multimedia Redirection (MMR)	Not Supported	•	•
	Flash URL Redirection (Unicast/Multicast)	Not Supported	•	•
	Flash Redirection	Not Supported	•	
	HTML5 Redirection	Not Supported	•	

Wyse ThinOS 8.6

HORIZON CLIENT FEATURE MATRIX WITH THINOS

	Client Type	ThinOS 8.6_024	Windows client 4.10	Linux client 4.10
Graphics	vDGA	Supported	•	•
	vSGA	Supported	•	•
	NVIDIA GRID VGPU	Supported	•	•
	Intel vDGA	Supported	•	•
	AMD vGPU	Supported	•	•
Mobile Support	Client-side soft keyboard	Not Supported	-	-
	Client-side soft touchpad	Not Supported	-	-
	Full Screen Trackpad	Not Supported	-	-
	Gesture Support	Not Supported	-	-
	Multi-touch Redirection	Not Supported	-	-
	Presentation Mode	Not Supported	-	-
	Unity Touch	Not Supported	-	-
Printing	Printer Redirection	Blast Supported Only	•	•
	Location Based Printing	Blast Supported Only	•	•
	Native Driver Support	Not Supported	•	-
Security	FIPS-140-2 Mode Support	Not Supported	•	•
	Imprivata Integration	Supported	•	-
	TLS 1.0	Supported	-	-
	TLS 1.1, TLS 1.2	Supported	•	•
	Client Device Authentication	Not Supported	•	-
Session Collaboration	Session Collaboration	Not Supported	-	-
	Read-only Collaboration	Not Supported	-	-
Update	Automatic Updates	Not Supported	•	-
	App Store update	Not Supported	-	-
Other	Smart Policies	Not Supported	•	•
	File Type Association	Not Supported	•	-
	URL content redirection	Not Supported	•	-
	Remember credentials	Supported	-	-
	Access to Linux Desktop - Blast Protocol	Supported	•	•
	Audio Playback	Supported	•	•
	Seamless Window	Not Supported	•	•
	Launching multiple client instances using URI	Not Supported	•	•
	One-click Install of Client	Not Supported	•	-
	Parameter pass-through to RDSH apps	Not Supported	•	•
	Performance Tracker	Supported	•	•
	Shortcuts from server	Not Supported	•	-
	Workspace ONE mode	Not Supported	•	•

- Supported with VDI, RDS Hosted Desktops and Apps
- Only supported with VDI