ZENworks System Requirements

The following sections provide the ZENworks 24.2 system requirements for hardware and software:

- "Primary Server Requirements" on page 1
- "Virtual Appliance Requirements" on page 5
- "Managed Device Requirements" on page 5
- "Satellite Requirements" on page 12
- "Database Requirements" on page 15
- "Reporting Server Support" on page 16
- "User Source Requirements" on page 16
- "Inventoried-Only Device Requirements" on page 17
- "Mobile Management Support" on page 20
- "Administration Browser Requirements" on page 21
- "Installation User Requirements" on page 21
- "Supported Smart Cards and Smart Card Readers" on page 21
- "Platforms No Longer Supported" on page 21
- "Legal Notice" on page 22

Primary Server Requirements

Ensure that the server where you install the Primary Server software meets the following requirements:

NOTE: The operating systems listed below are the ones on which the ZENworks Primary Server software can be installed. The list does not necessarily represent the operating systems that ZENworks Patch Management can update.

For this list, see the following links:

- Legacy Patch Feed: *ZENworks Patch Management Content Report (Legacy Patch Feed)*.
- Advanced Patch Feed: *ZENworks Patch Management Content Report (Advanced Patch Feed)*.

NOTE: ZENworks no longer supports Windows Server as a Primary Server from version 24.2 onwards. For more information, see End of Support for Windows Primary Server.

Item	Requirements	Additional Details
Server Usage	Your server might be capable of handling tasks in addition to the tasks that a Primary Server performs. However, we recommend that any server where you install the Primary Server software be used only for ZENworks.	For example, you might not want the server to do the following: ♦ Host eDirectory ♦ Host Active Directory ♦ Host Terminal Services
Operating System Linux	♦ SLES 12 SP5 x86_64 ♦ SLES 15 SP3 x86_64 ♦ SLES 15 SP4 x86_64 ♦ SLES 15 SP5 x86_64 ♦ SLES 15 SP6 x86_64	**IMPORTANT:** ♦Remote management is not supported on Linux devices at runlevel 3 (text-only, no X server). ♦ If ZENworks is already installed on the system, do not perform a major in-place upgrade of the operating system (for example, from SLES 12 to SLES 15) as this might cause issues and the Primary Servers might have to be replaced. Minor, in-place upgrades of the operating system are supported. For example, from SLES 15 to SLES 15 SP1. For information on how to replace the servers, see "Replacing Primary Servers" in the ZENworks Disaster Recovery Reference.
Processor	Speed:2.0 GHz or faster Type: Quad-core or faster	
RAM	16 GB minimum	16 GB for 3000 devices. Add 1 GB RAM for every additional 3000 devices. If you are using Vertica, please refer to Vertica system requirements.

Item	Requirements	Additional Details
Disk Space	80 GB for installation. Depending on the amount of content you need to distribute the space. For ZENworks database, add 10 GB for every 1000 devices and for Audit database add 10 GB for every 5000 devices. 500 MB is recommended for the `tmp` directory. This disk space is required for rebuilding and editing the packages. Patch Management file storage (downloaded patch content) requires at least 25 GB of additional free disk space. All content replication servers also require this same amount of additional free disk space if Patch Management is enabled. If you use Patch Management in additional languages, each server also requires this additional amount of free space for each language.	Because the ZENworks database file and ZENworks content repository can each become very large, you might want a separate partition or hard drive available. For information on changing the default content repository location on a Windows server, see "Content Repository" in the *ZENworks Primary Server and Satellite Reference*. For Linux servers, you might want the `/var/opt` directory to be located on a large partition. This is where the database (if embedded) and content repository are stored. The `/etc` directory requires less space.
DNS Resolution	The servers and workstations in the Management Zone must use properly configured DNS to resolve device hostnames; otherwise, some features in ZENworks will not work properly. If the DNS is not properly configured, the servers cannot communicate with each other, and the workstations cannot communicate with the servers. Server names must support DNS requirements, such as not including underscores; otherwise, ZENworks login fails. Acceptable characters include the letters a-z (uppercase and lowercase), numbers, and the hyphen (-). Non-english characters are not supported. **NOTE:** If the host name of a Linux Primary Server contains upper case characters, the server host name should be included in the `/etc/hosts` file located on that server.	
IP Address	The server must have a static IP address or a permanently leased IP address in the case of DHCP configuration. An IP address must be bound to all NICs on your target server.	Installation hangs if it is trying to use a NIC that does not have an IP address bound to it.

Item	Requirements	Additional Details
Firewall Settings: TCP and UDP Ports	Many TCP and UDP ports are opened by the ZENworks Installer during installation. If a port required by ZENworks is in use, the ZENworks Installer prompts you to configure an alternate port. **IMPORTANT:** If the firewall is disabled during installation or upgrade, ensure that you manually open the ports in the firewall settings when the firewall is enabled.	For the list of TCP and UDP ports and how ZENworks uses them, see ZENworks TCP and UDP Ports.
Supported Hypervisors	ZENworks managed device software can be installed on the guest operating systems (VMs) of the following hypervisors: ◆ XEN on SLES 12 SP3, SP4, SP5 and SLES 15 SP1, SP2, SP3, SP4 and SP5 ◆ VMware ESXi 6.5.x, 6.7.x, 7.x and 8.x ◆ Microsoft Hyper-V Server Windows 2012, 2012 R2, 2016 and 2019 ◆ Citrix Hypervisor 8.x ◆ Proxmox 8.x	◆ Only released versions of guest operating systems (VMs) are supported. Experimental guest operating systems are not supported. ◆ The guest operating system must match the operating system specified when creating the VM. For example, if during creation of the VM, the guest operating system is specified as Windows Server 2012, the actual guest operating system must be Windows Server 2012.
Docker Support	◆ Docker: version 19.x or higher ◆ Docker Compose: version 1.x For more information, see Changes in the Primary Server Upgrade or Migration Process in the Upgrade guide.	

Virtual Appliance Requirements

Item	Requirement	Additional Details
ZENworks Virtual Appliance	- RAM: 16 GB recommended - Cores: 8 - Disk Space: 80 GB minimum NOTE: ◆For more information on the system requirements for Vertica, and Kafka servers click here. - By default, the appliance is configured with the requirements for a Vertica-based environment. For a non-Vertica environment you can decrease the number of cores from 8 to 4.	ZENworks Virtual Appliance, based on SLES 12 SP5, can be deployed in the following virtual machine environments: IMPORTANT: ZENworks Appliance running on SLES 12 SP5 will receive SUSE security updates and support until October 31, 2027, ensuring continued protection and maintenance during this period. - VMware ESXi 6.5.x, 6.7.x, 7.x, 8.x - Microsoft Hyper-V Server Windows 2012, 2012 R2, 2016 and 2019. - XEN on SLES 12, SLES 15 SP3 and SP4 and the support packs. - Citrix XenServer 7.x and Citrix Hypervisor 8.x - Proxmox 8.x For more information, see Deploying the ZENworks Appliance on Proxmox.

Managed Device Requirements

The ZENworks Agent is the management software that is installed on all managed devices, including Primary Servers.

- "Windows Managed Device Requirements" on page 6
- "Linux Managed Device Requirements" on page 9
- "Macintosh Managed Device Requirements" on page 11

NOTE: ◆After updating the Primary and Satellite Servers to ZENworks 2020 Update 3, all managed devices with ZENworks 2017 Update 1 or older agents will cease to communicate with servers.

It is recommended that you update managed devices with ZENworks 2017 Update 1 or older agents to ZENworks 2020 Update 2 before updating servers.

- Managed devices using anti virus software should have the paths that are referenced in the TID 7007545, added to the AV exclusion list, before installing, updating, or upgrading the ZENworks Agent on a client device.
- The operating systems listed below are the ones on which the ZENworks Agent software can be installed. The list does not necessarily represent the operating systems that ZENworks Patch Management can update.

For this list, see the following links:

- Legacy Patch Feed: *ZENworks Patch Management Content Report (Legacy Patch Feed)*.

- Advanced Patch Feed: *ZENworks Patch Management Content Report (Advanced Patch Feed)*.

- To install the ZENworks Agent on devices with the latest version of operating systems that are still not a part of the support matrix, see Adding Support for Newly Released Versions of Operating Systems

Windows Managed Device Requirements

ZENworks 2020 or later versions can manage any Windows workstation and server that meets the following requirements:

- If you plan to use ZENworks Full Disk Encryption on a managed device, the device must meet the additional requirements listed in "System Requirement" in the *ZENworks Full Disk Encryption Agent Reference*.

- If you plan to use ZENworks Endpoint Security Antimalware, the device must meet the additional requirements listed in Agent Installation Requirements in the ZENworks Endpoint Security Antimalware Reference.

- Advanced ZPM Agent is backward compatible with the older ZENworks Agents versions(2017.x or 2020.x) for the supported OS platforms and must meet the .NET Framework 4.8 requirement for Windows-managed devices. The .NET Framework 4.8 or newer must be installed. Not all Windows operating systems support version 4.8. Please refer to Microsoft's .NET Framework system requirements article.

Item	Requirements	Additional Details
Operating System: Windows Servers	◆ Windows 2012 Server x86_64 (Foundation, Essential, Standard, Datacenter) ◆ Windows 2012 R2 Server x86_64 (Foundation, Essential, Standard, Datacenter) ◆ Windows 2016 Server x86_64 (Essential, Standard, Datacenter and Storage) ◆ Windows 2019 Server x86_64 (Essential, Standard, Datacenter and Storage) ◆ Windows 2022 Server x86_64 (Essential, Standard, Datacenter and Storage) **IMPORTANT:** In the backward compatibility mode, the 11.3.x version of the agent cannot be updated. However, it can be managed. You can also register new managed devices with the older versions of the agent to the zone, and manage them, but you cannot upgrade the older agents.	

Item	Requirements	Additional Details
Operating System: Windows Workstations	◆ **Windows 10 x86, x86_64 (Professional, Enterprise, Education, up to version 22H2) ◆ **Windows 10 x86, x86_64 (Up to the 2016 Enterprise and 2016 LTSB editions) ◆ **Windows 10 Enterprise LTSC 2019, x86, x86_64 ◆ **Windows 10 Enterprise x86_64 (Enterprise 2021 LTSC) ◆ Windows 10 IoT (Enterprise 2019 LTSC) ◆ Windows 11 x86_64 (Professional, Enterprise, Education up to 23H2) ◆ Windows 11 x86_64 (Professional and Enterprise, up to 24H2)	A managed device name must not exceed 32 characters. If a device name exceeds 32 characters, that device is not inventoried. In addition, ensure that the device name is unique so that the device is recognized appropriately in the inventory reports.
	IMPORTANT: ◆ ** Indicates that support is provided for the demotion and re-configuration of existing 32-bit Satellites but not for the promotion and addition of new Satellite roles for 32-bit platforms. ◆ Windows 7 is not supported.	**IMPORTANT:** ◆ZENworks supports Windows 10 that is migrated from older versions (Windows 7, Windows 8, and Windows 8.1). Microsoft does not retain the applications from the older versions of Windows to Windows 10 **across editions**. Hence, ZENworks will not be available if you migrate to Windows 10 from different editions (Windows older versions). For example: Windows 7 Enterprise to Windows 10 Enterprise or Enterprise LTSB is supported. Windows 8 Enterprise to Windows 10 Education is not supported.
Operating System: Thin Client sessions	◆ Windows Server 2012 SP2 ◆ Windows Server 2012 R2 SP1 ◆ Windows 2016 Server x86_64 ◆ Windows 2019 Server x86_64 ◆ Windows 2022 Server x86_64 ◆ XenApp 7.6 LTSR, 7.15 LTSR ◆ Citrix Virtual Apps & Desktops 1912 LTSR, 2203 LTSR, 2212, 2303, 2305, 2308, 2311	

Item	Requirements	Additional Details
Hardware	The following are minimum hardware requirements. Use these requirements or the hardware requirements provided with your operating system, whichever is greater. ♦ AMD or Intel (x86, x86_64) ♦ RAM: 1 GB minimum; 2 GB recommended ♦ Disk Space: 4 GB minimum for installing and running. Depending on the amount of content you need to distribute, this number can vary greatly. If an agent is promoted to a content or imaging satellite role, ensure that you increase the disk space accordingly.	
Microsoft .NET	The Microsoft .NET 4.8 framework and its latest updates must be installed and running on the Windows managed device in order to install ZENworks 2020 or later versions.	On Windows Server 2012, .NET is available by default. However, you must enable the .NET framework before deploying the agent on these devices.
TCP Port	5950	For Remote Management where the ZENworks Agent is running, the device listens on port 5950. You can change the port in ZENworks Control Center (**Configuration** tab >**Management Zone Settings** > **Device Management** > **Remote Management**). Remote Management is used only with ZENworks Configuration Management.
Supported Hypervisors	ZENworks managed device software can be installed on the guest operating systems (VMs) of the following hypervisors: ♦ XEN on SLES (XEN on SLES 12 SP3, SP4, SP5 and SLES 15, SP1, SP2, SP3, SP4, SP5) ♦ VMware ESXi 6.5.x, 6.7.x, 7.x, 8.x ♦ Microsoft Hyper-V Server Windows 2012, 2012 R2, 2016 and 2019. ♦ Citrix Hypervisor 8.x ♦ Proxmox 8.x	Only released versions of guest operating systems (VMs) are supported. Experimental guest operating systems are not supported. The guest operating system must match the operating system specified when creating the VM. Deployment of ZENworks Virtual Appliance is not supported on the Citrix XenServer

Item	Requirements	Additional Details
Supported Virtual Desktop Interface	ZENworks managed device software can be installed in the following VDI environments: ◆ VMware Horizon View 7.x, 8.x ◆ Microsoft VDI Windows 2012, 2012 R2, 2016, 2019, 2022 ◆ Citrix Virtual Apps and Desktops (7 1912 LTSR, 7 2203 LTSR, 7 2212, 7 2303, 2305, 2308, 2311) ◆ Citrix XenApp (7.6 LTSR and 7.15 LTSR)	
Client for Open Enterprise Server 2 SP6	◆ Client 2 SP6 and higher (for Windows 7, 8, 8.1 and Windows 10) ◆ Client 2 SP6 and higher (for Windows Server 2008, 2008 R2 and 2012)	

Linux Managed Device Requirements

ZENworks can manage any Linux workstation and server that meets the following requirements:

Item	Requirements
Operating System: Servers	◆ SLES 12 SP4 x86_64 ◆ SLES 12 SP5 x86_64 ◆ SLES 15 SP1 x86_64 ◆ SLES 15 SP2 x86_64 ◆ SLES 15 SP3 x86_64 ◆ SLES 15 SP4 x86_64 ◆ SLES 15 SP5 x86_64 ◆ SLES 15 SP6 x86_64 ◆ Open Enterprise Server 2018 SPE and SP3 (OES 2018 SP2 & SP3) x86_64 ◆ Open Enterprise Server 2023 (OES 2023) x86_64 - Available only with ZENworks 2020 Update 3 - FTF 20.3.0.957 or later. ◆ Open Enterprise Server 2023.4 (OES 23.4) x86_64 ◆ Open Enterprise Server 24.1 ◆ Open Enterprise Server 24.2 **NOTE:** ZENworks Patch Management will not be detected on Appliance and OES devices.

Item	Requirements
Operating System: Workstations	- SLED 12 SP4 x86_64 - SLED 12 SP5 x86_64 - SLED 15 x86_64 - SLED 15 SP1 x86_64 - SLED 15 SP2 x86_64 - SLED 15 SP3 x86_64 - SLED 15 SP4 x86_64 - SLED 15 SP6 x86_64 - OpenSUSE Leap 15.3, 15.4, 15.5 - RHEL 8.2, 8.4, 8.6, 8.8, 8.9 (without RHN subscription) - RHEL 9.0, 9.2, 9.3 (without RHN subscription) - RHEL 8.7 (x86, x86_64) - Available only with ZENworks 2020 Update 3 - FTF 20.3.0.957 or later **RHEL 7.9 x86_64 (without RHN subscriptions) **NOTE:** Installing ZENworks Agent on RHEL 8.x is registered as RHEL 8.1 Workstation. For more information on setting the device type, see the *Troubleshooting* section in the ZENworks Agent Guide. - CentOS 8.x **Scientific Linux 7.9 x86, x86_64 (without RHN subscription)- (Supported in Backward Compatibility Mode - Installed Agent continues to work) * Indicates that the platform is supported in the backward compatibility mode, with the 11.x version of the agent running on them. ** Indicates that support is provided for the demotion and re-configuration of existing 32-bit Satellites but not for the promotion and addition of new Satellite roles for 32 bit platforms.
Hardware	**Processor:** Intel 7th generation Core, or compatible processor **RAM:** 512 MB minimum; 2 GB recommended **Disk Space:** 230 MB minimum for installing; 4 GB recommended for running. Depending on the amount of content you need to distribute, this number can vary greatly.
Hostname Resolution	- The server must resolve device hostnames by using a method such as DNS (recommended). - Server names must support DNS requirements, such as not having underscores in their names; otherwise, ZENworks login fails. Acceptable characters are the letters a-z (uppercase and lowercase), numbers, and the hyphen (-). If the server host name contains upper case characters, the server host name should be included in the /etc/hosts file located on that server. If you use DNS, it must be properly set up, or some features in ZENworks might not work.

Item	Requirements
IP Address	◆ The server must have a static IP address. ◆ If you have multiple NICs, we recommend that you bind the IP addresses on all the NICs. However, ZENworks works even if one IP address is configured.
Supported Hypervisors	ZENworks managed device software can be installed in the following hypervisors: ◆ XEN (SLES 12, SLES 15) ◆ VMware ESXi 6.5.x, 6.7.x, 7.x, 8.x ◆ Microsoft Hyper-V Server Windows 2012, 2012 R2, 2016 and 2019. In addition, the following requirements apply: ◆ Only released versions of guest operating systems (VMs) are supported. Experimental guest operating systems are not supported. ◆ The guest operating system must match the operating system specified when creating the VM. For example, if the guest operating system is specified as SLES 12 during creation of the VM, the actual guest operating system must be SLES 12.

Macintosh Managed Device Requirements

ZENworks can manage Macintosh workstations that run the following operating systems:

NOTE:

 ◆ * Indicates that the platform is supported only in the backward compatibility mode.

 ◆ In ZENworks 2020 Update 3, the ZENworks Patch Management advanced feed does not support patching of macOS devices. Update to ZENworks 23.3 to gain support for patching macOS devices using the advanced patch feed.

Table 1

Operating System	Requirements
*Macintosh 10.8.3 (Mountain Lion) *Macintosh 10.9.x (Mavericks) *Macintosh 10.10.x (Yosemite) *Macintosh 10.11.x (EL Capitan) *Macintosh 10.12.x (Sierra) - Macintosh 10.13.x (High Sierra) - Macintosh 10.14.x (Mojave) - Macintosh 10.15.x (Catalina) - Macintosh 11.x (Big Sur) - Macintosh 12.x (Monterey) - Macintosh 13.x (Ventura) - Macintosh 14.x (Sonoma)	Supported Architecture: 64-bit Hardware: Processor Intel Core 2 Duo Disk space: 2 GB recommended for running. Display resolution:1024 × 768 with 256 colors minimum TCP ports: 7628

Satellite Requirements

A Satellite is a managed device that can perform some of the roles that a ZENworks Primary Server normally performs, including authentication, information collection, content distribution, and imaging. A Satellite can be any managed Windows, or Linux device (server or workstation), but not a Primary Server.

The following sections contain more information:

Windows Satellite Requirements

A Windows device performing Satellite roles must meet the minimum requirements of a Windows managed device, as listed in "Windows Managed Device Requirements" on page 6 with the following exception:

The following table lists additional Windows Satellite requirements:

Item	Requirements	Additional Details
ZENworks Agent Version	We recommend updating the Satellite's Agent version	When you create a Satellite, you designate a ZENworks Primary Server as the parent server for the Satellite. We recommend updating the Satellite's agent version as the parent Primary Server version. For example, the Satellite's agent version cannot be 11.4.3 if the parent Primary Server version is 2020 or later.
	443	Used for CASA authentication.
	998	Used by Preboot Server (novell-pbserv). The Preboot Server (novell-pbserv) is used only with ZENworks Configuration Management.

Item	Requirements	Additional Details
	7019	Used by Join Proxy.
Firewall Settings: Open UDP Ports	67	Used by proxy DHCP when it is not running on the same device as the DHCP server.
	69	Used by the Imaging TFTP, but will not work across the firewall because it opens a random UDP port for each PXE device. The Imaging TFTP is used only with ZENworks Configuration Management.
	997	Used by the Imaging Server for multicasting. The Imaging Server is used only with ZENworks Configuration Management.
	4011	Used for proxy DHCP when it is running on the same device as the DHCP server. Ensure that the firewall is configured to allow the broadcast traffic to the proxy DHCP service.
	13331	Used by the zmgpreboot policy, but will not work across the firewall because it opens a random UDP port for each PXE device. The zmgpreboot policy is used only with ZENworks Configuration Management.

Linux Satellite Requirements

A Linux device performing Satellite roles must meet the minimum requirements of a Linux managed device, as listed in "Linux Managed Device Requirements" on page 9.

The following table lists additional Linux Satellite requirements:

Item	Requirements	Additional Details
ZENworks Agent Version	We recommend updating the Satellite's Agent version	When you create a Satellite, you designate a ZENworks Primary Server as the parent server for the Satellite. We recommend updating the Satellite's agent version as the parent Primary Server version. For example, the Satellite's agent version cannot be 11.4.3 if the parent Primary Server version is 2020 or later.
Firewall Settings: Open TCP Ports	443	Used for CASA authentication.

Item	Requirements	Additional Details
	998	Used by Preboot Server (novell-pbserv).
		The Preboot Server (novell-pbserv) is used only with ZENworks Configuration Management.
	7628	Used by the ZENworks Agent.
	8005	Used by Tomcat to listen to shutdown requests. This is a local port, and cannot be accessed remotely.
	8009	Used by Tomcat AJP connector.
	7019	Used by Join Proxy.
Firewall Settings: Open UDP Ports	67	Used by proxy DHCP when it is not running on the same device as the DHCP server.
	69	Used by the Imaging TFTP, but will not work across the firewall because it opens a random UDP port for each PXE device.
		The Imaging TFTP is used only with ZENworks Configuration Management.
	997	Used by the Imaging Server for multicasting.
		The Imaging Server is used only with ZENworks Configuration Management.
	4011	Used for proxy DHCP when it is running on the same device as the DHCP server. Make sure that the firewall is configured to allow the broadcast traffic to the proxy DHCP service.
	13331	Used by the zmgpreboot policy, but will not work across the firewall because it opens a random UDP port for each PXE device.
		The zmgpreboot policy is used only with ZENworks Configuration Management.

Database Requirements

The database must meet the following requirements:

Item	Requirement
Database Version	- Oracle 19c including Cluster and RAC - Oracle 21c including Cluster and RAC - Microsoft SQL Server 2016, 2016 SP1 and later, including Cluster (Standard and Enterprise editions) - Microsoft SQL Server 2017, including Cluster (Standard and Enterprise editions) - Microsoft SQL Server 2019 - Microsoft SQL Server 2022 - Embedded PostgreSQL 12.x - External PostgreSQL 12.x, , 13.x, 14.x, 15.x, 16.x
Database Server Hostname	The database server hostname must be resolvable by the Domain Name Server Service.
TCP Ports	The server must allow Primary Server communication on the database port. For MS SQL, ensure that you configure static ports for the database server. Default Ports: 1433 for MS SQL 1521 for Oracle 54327 for embedded PostgreSQL 5432 for external PostgreSQL You can change the default port number if there is a conflict. However, you must ensure that the port is opened for the Primary Server to talk to the database.
UDP Ports	1434 for MS SQL (if ZENworks uses named instance of the database)
WAN Consideration	Primary Servers and the ZENworks database must reside on the same network segment. Primary Servers cannot write across a WAN to the ZENworks database.
Default Character Set	For MS SQL, ZENworks does not require any specific character set. ZENworks supports all character sets supported by MS SQL. For Oracle, the NLS_CHARACTERSET parameter must be set to AL32UTF8, the MAX_STRING_SIZE parameter must be set to Standard and the NLS_NCHAR_CHARACTERSET parameter must be set to AL16UTF16. If the existing Oracle Database is installed with another character set, then to migrate to the AL32UTF8 character set, contact Oracle Support.
Collation	ZENworks is not supported with a case-sensitive instance of the MS SQL database. Therefore, you must ensure that the database is case insensitive before setting it up.

Item	Requirement
Database User	Ensure that there is no restriction for the ZENworks database user to connect to a remote database. For example, if the ZENworks database user is an Active Directory user, ensure that the Active Directory policies allow the user to connect to a remote database.

Reporting Server Support

Item	Requirements
ZENworks Reporting Server Platform	ZENworks Reporting 8.1.x Appliance
ZENworks Reporting Server backward compatibility (support for the older versions).	ZENworks Reporting appliance released with ZENworks 2020 Update 2
Browser	Refer to "Administration Browser Requirements" on page 21
Database	Refer to "Database Requirements" on page 15

User Source Requirements

ZENworks can reference user sources such as eDirectory, Active Directory and Azure Active Directory (ZENworks 23.3 onwards) for user-related tasks such as assigning content to users and associating users with devices. LDAP (Lightweight Directory Access Protocol) is the protocol used by ZENworks for interacting with directories.

Item	Requirements
Authoritative user source	◆ eDirectory 9.0 or above (on all supported platforms) Ensure that no two eDirectory users have the same user name and password. Even if the user names are the same, ensure that the passwords are different. ◆ Microsoft Active Directory (as shipped with Windows 2016 or later) ◆ Domain Services for Windows (DSfW)
LDAP version	LDAP v3 OPENLDAP is not supported. However, if you have eDirectory installed on a SUSE Linux server, you can use that as a user source. LDAP v3 can be used to access eDirectory on the Linux server by using the alternate ports that you specified for eDirectory when installing it (because OPENLDAP might have been using the default ports).
LDAP user access	ZENworks requires only read access to the LDAP directory. For more information, see "Connecting to User Sources" in the *System Configuration*.

Item	Requirements
LDAP Authentication	Simple bind
	With simple bind, an application provides a Distinguished Name (DN) and the clear text password for that DN. To use a simple bind, the client must supply the DN of an existing LDAP entry and a password that matches the userPassword attribute for that entry. The Administrator can also enter the DN and the clear text password by using the Configuration page in ZENworks Control Center.

Inventoried-Only Device Requirements

You can use ZENworks to inventory workstations and servers by deploying the Inventory-Only module on these devices.

IMPORTANT: In situations where ZENworks product issues are caused by an issue with the platform, the following support standards apply:

- Platforms that are generally supported by platform vendors are supported.
- If the platform vendor provides support for installation through a special agreement (such as extended support), Open Text Support expects you to extend this support infrastructure to resolve the issue.
- If the platform vendor does not support the platform, no additional support if provided.

The inventoried-only devices must meet the following requirements:

Item	Requirements
Operating System: Servers	- Windows 2012 Server x86_64 (Foundation, Essential, Standard, Datacenter) - Windows 2012 R2 Server x86_64 (Foundation, Essential, Standard, Datacenter) - Windows 2016 Server x86_64 (Essential, Standard, Datacenter and Storage) - Windows 2019 Server x86_64 (Essential, Standard, Datacenter and Storage) - SLES 12 SP4 x86_64 - SLES 12 SP5 x86_64 - Support for following operating systems in ZENworks can be added by populating required platforms in the custom_ostargets.xml file. - SLES 15 x86_64 - SLES 15 SP1 x86_64 - SLES 15 SP2 x86_64 - SLES 15 SP3 x86_64 - SLES 15 SP4 x86_64 - Open Enterprise Server 2018 SP2 (OES 2018 SP2) x86_64 - Open Enterprise Server 2018 SP3 (OES 2018 SP3) x86_64 - Open Enterprise Server 2023 (OES 2023) x86_64 - Available only with ZENworks 2020 Update 3 - FTF 20.3.0.957 or later - Open Enterprise Server 2023.4 (OES 23.4) x86_64 - Open Enterprise Server 24.1 - Open Enterprise Server 24.2 - OpenSUSE Leap 15.3, 15.4, 15.5

Item	Requirements
Operating System: Workstations	◆ *Mac OS 10.8.3 to 10.10
	◆ Mac OS X 10.11
	NOTE: Mac OS 10.15 (Catalina) and Mac OS 11.x (Big Sur) and other newer versions of mac devices are no longer supported as Inventory-only devices.
	◆ **Windows 10 x86, x86_64 (Professional, Education, Enterprise, up to the April 2018 Update)
	◆ **Windows 10 1809 x86, x86_64
	◆ **Windows 10, 1903 x86, x86_64
	◆ **Windows 10, 1909 x86, x86_64
	◆ Windows 11 x86_64 (Professional, Enterprise, Education up to 23H2)
	◆ Windows 11 x86_64 (Professional and Enterprise, up to 24H2)
	◆ SLED 12 SP3 x86_64
	◆ SLED 12 SP5 x86_64
	◆ SLED 15 x86_64
	◆ SLED 15 SP1 x86_64
	◆ SLED 15 SP2 x86_64
	◆ SLED 15 SP3 x86_64
	◆ SLED 15 SP4 x86_64
	◆ SLED 15 SP5 x86_64
	◆ * RHEL 7.0, 7.1, 7.2 x86, x86_64 (without subscription)
	◆ RHEL 7.3, 7.4, 7.5, 7.6, 7.7, 8.0, 8.1, 8.2, 8.4, 8.6, 8.7, 8.8, 9.0, 9.1, 9.2 (without subscription)
	◆ RHEL 8.7 (x86, x86_64) (without subscription) - Available only with ZENworks 2020 Update 3 - FTF 20.3.0.957 or later
	◆ *Scientific Linux 7.0, 7.1 and 7.2 x86 and x86_64 (without RHN subscription)
	◆ **Scientific Linux 7.8, 7.9 x86_64 (without RHN subscription)
	* Indicates that the platform is supported in backward compatibility mode (with the 11.x version of the agent installed)
	** Indicates that support is provided for the demotion and re-configuration of existing 32-bit Satellites but not for the promotion and addition of new Satellite roles for 32 bit platforms.
Operating System: Thin Client Sessions	◆ Windows Server 2012 SP2
	◆ Windows Server 2012 R2 SP1
	◆ Windows 2016 Server x86_64
	◆ Windows 2019 Server x86_64
	◆ Citrix XenApp 6, 6.5,7.6 onwards, 7.1x, 7 1906 7.6 LTSR , 7.15 LTSR, 7 1912 LTSR, 7 2203 LTSR, 7 2109, 7 2112, 7 2206, 7 2209, 7 2212, 7 2303.

Item	Requirements
Inventory Only Module	After installing ZENworks 2020 or later to your network, you must install this module on the above-listed devices to inventory them. For more information, see "Deploying the Inventory-Only Module" in the *ZENworks Discovery, Deployment, and Retirement Reference*.
Hardware: Disk Space	The Inventory-Only module requires the following minimum disk space: ◆ Linux: 900 KB ◆ Windows: 15 MB

Mobile Management Support

Item	Requirements
Browser Support - EUP	◆ Google Chrome 95 onwards ◆ Firefox ESR 68 to ESR 91.x ◆ Firefox ESR 91.x ◆ Edge with Chromium Engine 95 onwards ◆ Latest version of Safari
Browser Support - Mobile Devices	◆ Google Chrome for Android devices ◆ Safari for iOS devices
Mobile OS support	◆ ZENworks Agent version 23.4 app supports Android 14 ◆ Android 10.x and higher ◆ iOS 10.x and higher **NOTE:** ZENworks now supports the iPadOS platform that are iPad devices with iOS version 13 or later installed. This feature is by default in a disabled state and needs to be enabled after migrating to the ZENworks 2020 Update 1 or later versions. For more information, see Supported Devices for Mobile Management in the ZENworks Mobile Management Reference. ◆ Windows 10.0 and higher (ActiveSync only)
ActiveSync Server Support	◆ ActiveSync Server version 12.1 bundled with: ◆ Microsoft Exchange 2007 and higher ◆ GroupWise Mobility 2014.x and 2018.x
ActiveSync Client Support	◆ Exchange ActiveSync 12.0 and higher. Tested on supported mobile operating system platforms.

Administration Browser Requirements

Ensure that the workstation or server where you run ZENworks Control Center to administer your system meets the following requirements:

Item	Requirements
Web Browser	The following web browsers are supported: ◆ Firefox version 95 and higher ◆ Firefox ESR 91.x ◆ Chrome version 95 and higher ◆ Edge Chromium 95 and higher **NOTE:** Administration of features dependent on ZCC Helper is supported only on Windows and SUSE Linux Enterprise devices.
Display Resolution	1024 × 768 minimum screen resolution required for ZENworks Control Center
TCP Ports	To fulfill a user's request for a remote session on a managed device, you must open port 5550 on the device, in order to run Remote Management Listener.

Installation User Requirements

The user running the installation program must have administrator or root privileges on the device. For example:

◆ **Windows:** Log in as a Windows administrator.

◆ **Linux:** If you log in as a non-root user, use the `su` command to elevate your privileges to root, then run the installation program.

Supported Smart Cards and Smart Card Readers

For information about smart cards and smart card readers supported for ZENworks login, see *Novell Enhanced Smart Card Method Installation and Administration Guide* (http://www.novell.com/documentation/iasclient30x/nescm_install/data/b7gwvo2.html).

If you are using ZENworks Full Disk Encryption, see "Supported Smart Card Terminals and Tokens" in the *ZENworks Full Disk Encryption Agent Reference* for information about smart cards supported for both ZENworks Full Disk Encryption Pre-Boot Authentication and general ZENworks login.

Platforms No Longer Supported

The following section displays the list of platforms that are not supported in ZENworks 24.2, but were supported in ZENworks 23.4.

Table 2   *Unsupported Platforms*

Item	Platforms
Primary Server	SLES 12 SP2 and earlier
	RHEL all versions
	Windows Server all versions
Managed Device	Agents with ZENworks 2017 Update 1
Inventoried-Only Device Requirements	RHEL 6.8 and earlier, RHEL 8.5
	SLES 11 SP4 x86_64
	SLES 12 SP3 x86_64 and earlier
	Windows XP SP3 x86 (Professional and Enterprise)
	Windows 8 x86, x86_64
	Windows Embedded 8.1
	Open Enterprise Server 2018 SP1x86_64 and earlier
	Scientific Linux 7.0, 7.1 and 7.2 x86 and x86_64, 7.3 to 7.7, and 7.8 and earlier (without RHN subscription)
	OpenSUSE Leap 42.3, 15 and 15.1, 15.2
Database Requirements	Oracle 20c and earlier (including Cluster and RAC)
Database Version	Microsoft SQL Server 2012 SP3 and later, including Cluster (Standard, Enterprise, and Business Intelligence editions)
	External PostgreSQL 11.x
Thin Client	XENApp 6, 6.5, 7.x (7.6 onwards) - 7.1x, 7 1906, 7 2106
VDI support (XENDesktop and XENApp)	7 1906, 7 2106, 7 2109, 7 2112, 7 2206, 7 2209
	7 1912 LTSR, 7 2203 LTSR, 7 1906, 7 2106, 7 2109, 7 2112, 7 2206, 7 2209, 7 2212, 7 2303

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