ZENworks 2017 Update1 System Requirements

July 2017



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1 Primary Server Requirements

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

Item	Requirements	Additional Details
Server Usage	Your server might be capable of handling tasks in addition to the tasks that a Primary Server	For example, you might not want the server to do the following:
	performs. However, we recommend that any server where you install the Primary Server software be	Host Novell eDirectory
	used only for ZENworks.	Host Active Directory
		 Host Terminal Services
Operating System Windows	 Windows 2012 Server x86_64 (Foundation, Essential, Standard, and Datacenter editions) 	Installation on a server in a clustered environment is not supported.
	 Windows 2012 Server R2 x86_64 (Foundation, Essential, Standard, and Datacenter editions) 	
	 Windows 2016 Server x86_64 (Essential, Standard, Datacenter and Storage editions) 	

Item	Requirements	Additional Details
Operating	• SLES 11 SP3 x86_64	IMPORTANT
System Linux	• SLES 11 SP4 x86_64	SLES 12 requires the libXtst6-32bit-
-	• SLES 12 x86_64	1.2.2-3.60.x86_64.rpm to install
	• SLES 12 SP1 x86_64	ZENworks Server. This rpm is available on the SLES 12 media.
	• SLES 12 SP2 x86_64	If ZENworks is already installed on
	◆ SLES 12 SP3 x86_64	the system, do not perform a major in- place upgrade of the operating system (for example, from SLES 11 SP4 to SLES 12) as this might cause issues and the Primary Servers might have to be replaced.
		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	8 GB minimum; 12 GB and above recommended	8 GB for the first 3000 devices
		Add 1 GB RAM for every 3000 additional devices
Disk Space	20 GB for installation. Depending on the amount of content you need to distribute the space. For ZENworks database add 10 GB for every 1000	Because the ZENworks database file and ZENworks content repository can each become very large, you might want a separate partition or hard drive available
	devices and for Audit database add 10 GB for every 5000 devices.	For information on changing the default
	500~MB is recommended for the tmp directory. This disk space is required for rebuilding and editing the packages.	content repository location on a Window server, see "Content Repository" in the ZENworks Primary Server and Satellite Reference.
	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	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.
	server also requires this additional amount of free space for each language.	The /etc directory requires less space.
Display	Video Adaptor: 256 colors	
Resolution	Screen Resolution: 1024 x 768 minimum	
File System	If you have installed embedded Sybase on your device, ensure that the file system of the drive where you have installed ZENworks Configuration Management supports files larger than 4 GB.	

Item	Requirements	Additional Details
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 (-).	
	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.	Installation hangs if it is trying to use a NIC that does not have an IP address bound to it.
	An IP address must be bound to all NICs on your target server.	
Microsoft .NET (Only for Windows)	The Microsoft.NET 4.5 Framework and its latest updates must be installed and running on the Windows Primary Server in order to install ZENworks 2017.	On Windows Server 2012, .NET 4.5 is available by default. However, you need to enable it. You are given the option to enable .NET during the ZENworks
	Ensure that the full.NET 4.5 Framework is installed on the device and not the.NET 4.5 Client Profile.	installation. If you select the option, .NET is automatically enabled.
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.	For the list of TCP and UDP ports and how ZENworks uses them, see "TCP and UDP Ports Used by ZENworks Primary Servers" in the ZENworks Primary Server and
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.		Satellite Reference.

Item	Requirements	Additional Details
Supported Hypervisors	Primary server software can be installed in the following virtual machine environments:	 Only released versions of guest operating systems (VMs) are supported. Experimental guest
	 VMware Workstation 11.0 onwards 	operating systems are not supported.
	 Citrix XenServer 5.x, 6.2 	 The guest operating system must
	 XEN on SLES 11 SP4, SLES 12 and SLES12 SP1 	match the operating system specified when creating the VM. For example, if
	 VMware ESXi 5.x and 6.x 	during creation of the VM, the guest operating system is specified as
	 Microsoft Hyper-V Server Windows 2012, 2012 R2 and 2016. 	Windows Server 2012, the actual guest operating system must be Windows Server 2012.
		 Deployment of ZENworks Virtual Appliance is not supported on Citrix XenServer.

2 Virtual Appliance Requirements

Item	Requirement	Additional Details
ZENworks Virtual Appliance	RAM: 8 GB recommendedDisk Space: 60 GB minimum	ZENworks Virtual Appliance can be deployed in the following virtual machine environments:
		 VMware Workstation 11.0 onwards
		◆ VMware ESXi 5.x and 6.x
		 Microsoft Hyper-V Server Windows 2012, 2012 R2, 2016
		 XEN on SLES 12 and the support packs.
		Deployment of ZENworks Virtual Appliance is not supported on:
		 Citrix XenServer 5.x, 6.2 and 6.5
		 XEN on SLES 11 SP4 and the support packs.

3 Managed Device Requirements

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

- Section 3.1, "Windows Managed Device Requirements," on page 5
- Section 3.2, "Linux Managed Device Requirements," on page 9
- Section 3.3, "Macintosh Managed Device Requirements," on page 10

3.1 Windows Managed Device Requirements

ZENworks 2017 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.

Item	Requirements	Additional Details
Operating System: Windows Servers	 * Windows Server 2008 SP2, x86, x86_64 (Standard, Enterprise, Datacenter) 	
	 * Windows Server 2008 R2 	
	 Windows 2008 R2 Server SP1 x86_64 (Standard, Enterprise, Datacenter) 	
	 Windows 2012 Server x86_64 (Foundation, Essential, Standard, Datacenter) 	
	 Windows 2016 Server x86_64 (Essential, Standard, Datacenter and Storage) 	
	IMPORTANT: * Indicates that the Windows Server 2008 SP2 and Windows Server 2008 R2 SP0 are supported in the backward compatibility mode (with an older version of the agent installed on them).	
	In the backward compatibility mode, the 11.x version of the agent cannot be updated, however, it can be managed. You can also register new managed devices and Satellite Servers 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 7 SP1 x86, x86-64 (Professional, Ultimate, and Enterprise editions) 	A managed device name must not exceed 32 characters. If a device name exceeds 32 characters, that device is not inventoried. In
	 Windows Embedded 7 SP1 	addition, ensure that the device name is unique so that the device is recognized
	 Windows 8 x86, x86_64 (Professional and Enterprise editions) 	appropriately in the inventory reports. IMPORTANT
	 Windows Embedded 8 	 ZENworks supports Windows 10 that
	 Windows 8.1 Enterprise and Professional x86 and x86_64 	is migrated from older versions (Windows 7, Windows 8, and Windows 8.1).
	 Windows Embedded 8.1 	Microsoft does not retain the
	 Windows 10 x86, x86_64 (Professional, Education, Enterprise, Enterprise 2015 and 2016 LTSB editions) 	applications from the older versions of Windows to Windows 10 across editions. Hence, ZENworks will not be available if you migrate to Windows 10
	 Windows Embedded 10 (LTSB edition) 	from different editions (Windows older versions).
	* Windows XP SP3	For example:
	IMPORTANT	Windows 7 Enterprise to Windows 10 Enterprise or Enterprise LTSB is
	 Prior to installing or updating the agent, you need to ensure that 	supported.
	Microsoft .NET 4.5 Framework and its latest updates are installed and	Windows 8 Enterprise to Windows 1 Education is not supported.
	running on the Windows managed device.	Installing and updating the ZENworks
	 * Indicates that Windows XP is supported only in the backward compatibility mode (only 11.x versions of the agent are supported). 	2017 Agent is not supported on Windows XP SP3. However, you can continue to manage XP SP3 in backward compatibility mode (support for the older versions of the agent) with the 11.4.x agent installed on it.
	 Windows 7 SP0 is not supported. 	
Operating System:	 Windows Server 2012 SP2 	
Thin Client sessions	 Windows Server 2012 R2 SP1 	
	Windows 2016 Server x86_64	
	 Citrix XenApp 6.0,6.5,7.5, and 7.6 	

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.	
	 Processor: Pentium III 700 MHz, or equivalent AMD or Intel 	
	 RAM: 256 MB minimum; 1 GB recommended 	
	 Disk Space: 230 MB minimum for installing; 4GB recommended for 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.	
	◆ Display resolution: 1024 x 768 with 256 colors	
Microsoft .NET	The Microsoft .NET 4.5 framework and its latest updates must be installed and running on the Windows managed device in order to install ZENworks 2017.	On Windows 8, Windows 8.1, and Windows Server 2012, .NET is available by default. However, you must enable the .NET framework before deploying the agent on these devices.
Microsoft Windows Installer	The Microsoft Windows Installer 4.5 or later must be installed and running on the Windows managed device in order to install ZENworks 2017.	If you choose to deploy the PreAgentPkg_AgentCompleteDotNet.ex e standalone package, Windows Installer 4.5 is automatically installed. If you choose to deploy the PreAgentPkg_Agent.exe network package or the PreAgentPkg_AgentComplete.exe standalone (.NET required) package, you must manually install Windows Installer 4.5 or later before you begin to install the agent.
TCP Ports	7628	In order to view the status of the ZENworks Agent for a managed device in ZENworks Control Center, ZENworks automatically opens port 7628 on the device if you are using the Windows firewall. However, if you are using a different firewall, you must open this port manually.
		Port 7628 must also be opened on the device if you want to send a Quick Task to the client from ZENworks Control Center.

Item	Requirements	Additional Details
	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 in the following hypervisors:	Only released versions of guest operating
	 XEN (Citrix XenServer 5.x, 6.2 6.5) XEN on SLES (XEN on SLES 11 	systems (VMs) are supported. Experimental guest operating systems are not supported.
	SP3 and SLES 12SLES) • VMware ESXi 5.x and 6.x	The guest operating system must match the operating system specified when creating
	 Microsoft Hyper-V Server Windows 2008 R2, 2012, 2012 R2 and 2016. 	the VM. For example, if the guest operating system is specified as Windows Vista during creation of the VM, the actual guest operating system must be Windows Vista.
		Deployment of ZENworks Virtual Appliance is not supported on the Citrix XenServer
Supported Virtual Desktop Interface	ZENworks managed device software can be installed in the following VDI environments:	
	 Citrix XenDesktop 7.0, 7.1, 7.5, 7.6 and 7.9 	
	• Citrix XenApp 7.5, 7.6 and 7.9x	
	 VMware VDI 5.2, 5.3, 6.0, 6.2 and 7.0 	
	 Microsoft VDI Windows 2012, 2012 R2, 2016 	
Client for Open Enterprise Server 2 SP4/Novell Client	The Novell Client is not required. However, if you choose to use the Novell Client on the managed device, the following versions are supported with ZENworks:	
	 Client 2 SP4 and higher (for Windows 7, 8, 8.1 and Windows 10) 	
	 Client 2 SP4 and higher (for Windows Server 2008, 2008 R2 and 2012) 	

3.2 Linux Managed Device Requirements

ZENworks 2017 can manage any Linux workstation and server that meets the following requirements:

Item	Requirements
Operating System: Servers	SLES 11 SP3 x86, x86_64 (Intel and AMD Opteron processors)
	 SLES 11 SP4 x86, x86_64 (Intel and AMD Opteron processors)
	• SLES 12 x86, x86_64
	• SLES 12 SP1 x86, x86_64
	• SLES 12 SP2 x86, x86_64
	 Open Enterprise Server 11 SP1 x86 and x86_64
	 Open Enterprise Server 11 SP2 x86 and x86_64
	 Open Enterprise Server 11 SP3 x86 and x86_64
	 Open Enterprise Server 2015 (OES 2015) x86 and x86_64
	 Open Enterprise Server 2015 SP1 (OES 2015 SP1) x86 and x86_64
Operating System: Workstations	 SLED 11 SP3 x86, x86_64 (Intel and AMD Opteron processors)
	 SLED 11 SP4 x86, x86_64 (Intel and AMD Opteron processors)
	• SLED 12 x86, x86_64
	• SLED 12 SP1 x86, x86_64
	• SLED12 SP2 x86, x86_64
	NOTE: SLED 12 SP2 Linux distributions require rpm-python installation as a prerequisite to run the patch scan process. For more information, see the <i>ZENworks 2017 Patch Management Reference</i> .
	 Red Hat Enterprise Linux 6.7 and 6.8 (RHEL 6.7, RHEL 6.8) x86, x86_64 (AS and ES) s
	• RHEL 7.0, 7.1, 7.2, 7.3 (without LPM subscriptions)
	 Scientific Linux 6.7, 6.8, x86, x86_64
	* Indicates that the platform is supported in the backward compatibility mode, with the older version of the agent running on them.
Hardware	 Processor: Minimum - Pentium IV 2.8 GHz 32-bit (x86) and 64-bit (x86_64), or equivalent AMD or Intel 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.
	• Display resolution: 1024 × 768 with 256 colors minimum

Item	Requirements
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.
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.
TCP Ports: 7628	You must assign the Network Interface to the firewall zone. Firewall rules are applied to this zone for managing the ports used by ZENworks 2017.
Supported Hypervisors	ZENworks managed device software can be installed in the following hypervisors:
	 XEN (SLES 11, SLES 12, and Citrix XenServer 5.x, 6.0, 6.1 6.2)
	 VMware ESXi 5.0.x, 5.1, 5.5, and 6.0
	 Microsoft Hyper-V Server Windows 2008 R2 and Windows 2012, 2012 R2 and 2016.
	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.
	 Deployment of ZENworks Virtual Appliance is not supported on the Citrix XenServer.

3.3 Macintosh Managed Device Requirements

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

- Section 3.3.1, "Macintosh 10.8.3 (Mountain Lion)," on page 11
- Section 3.3.2, "* Macintosh 10.9.x (Mavericks)," on page 11
- Section 3.3.3, "Macintosh 10.10.x (Yosemite)," on page 11
- Section 3.3.4, "Macintosh 10.11.x (EL Capitan)," on page 11
- Section 3.3.5, "Macintosh 10.12.x (Sierra)," on page 12

NOTE: Drive case-sensitive setup is not supported for OS X.

3.3.1 Macintosh 10.8.3 (Mountain Lion)

Item	Requirements
Version	10.8.x
Supported Architecture	64 bit
Hardware	Processor Intel Core 2 Duo
	 Disk space: 2 GB recommended for running.
	 Display resolution:1024 x 768 with 256 colors minimum
TCP ports	7628

3.3.2 * Macintosh 10.9.*x* (Mavericks)

Item	Requirements	
Version	10.9.x	
Supported Architecture	64 bit	
Hardware	Processor Intel Core 2 Duo	
	 Disk space: 2 GB recommended for running. 	
	◆ Display resolution:1024 x 768 with 256 colors minimum	
TCP ports	7628	

3.3.3 Macintosh 10.10.*x* (Yosemite)

Item	Requirements	
Version	10.10.x	
Supported Architecture	64 bit	
Hardware	Processor Intel Core 2 Duo	
	 Disk space: 2 GB recommended for running. 	
	 Display resolution:1024 x 768 with 256 colors minimum 	
TCP ports	7628	

3.3.4 Macintosh 10.11.x (EL Capitan)

Item	Requirements
Version	10.11.x
Supported Architecture	64 bit

Item	Requirements
Hardware	Processor Intel Core 2 Duo
	 Disk space: 2 GB recommended for running.
	 Display resolution:1024 x 768 with 256 colors minimum
TCP ports	7628

3.3.5 Macintosh 10.12.x (Sierra)

Item	Requirements	
Version	10.12.x	
Supported Architecture	64 bit	
Hardware	Processor Intel Core 2 Duo	
	 Disk space: 2 GB recommended for running. 	
	 Display resolution:1024 x 768 with 256 colors minimum 	
TCP ports	7628	

4 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, Macintosh, or Linux device (server or workstation), but not a Primary Server.

The following sections contain more information:

- Section 4.1, "Windows Satellite Requirements," on page 12
- Section 4.2, "Linux Satellite Requirements," on page 13
- Section 4.3, "Macintosh Satellite Requirements," on page 15

4.1 Windows Satellite Requirements

A Windows device performing satellite roles must meet the minimum requirements of a Windows managed device, as listed in Section 3.1, "Windows Managed Device Requirements," on page 5 with the following exception:

Windows Embedded XP is not a supported workstation operating system for Satellite devices.

The following table lists additional Windows Satellite requirements:

Item	Requirements	Additional Details
ZENworks Agent Version	Same version as the ZENworks Primary Server	When you create a Satellite, you designate a ZENworks Primary Server as the parent server for the Satellite. The Satellite's agent version must be the same 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 2017.

Item	Requirements	Additional Details
Firewall Settings: Open TCP Ports	80	Used for content replication.
	443	Used for CASA authentication.
	998	Used by Preboot Server (novell-pbserv).
		The Preboot Server (novell-pbserv) is used only with ZENworks Configuration Management.
	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.

4.2 Linux Satellite Requirements

A Linux device performing satellite roles must meet the minimum requirements of a Linux managed device, as listed in Section 3.2, "Linux Managed Device Requirements," on page 9.

The following table lists additional Linux Satellite requirements:

Item	Requirements	Additional Details
ZENworks Agent Version	Same version as the parent ZENworks Primary Server	When you create a Satellite, you designate a ZENworks Primary Server as the parent server for the Satellite. The Satellite's agent version must be the same 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 2017.

Item	Requirements	Additional Details
Firewall Settings: Open TCP Ports	80	Used for Tomcat non-secure port.
	443	Used for CASA authentication.
	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.

4.3 Macintosh Satellite Requirements

A Macintosh device performing satellite roles must meet the minimum requirements of a Macintosh managed device as listed in Section 3.3, "Macintosh Managed Device Requirements," on page 10.

The following table lists additional Macintosh Satellite requirements:

Item	Requirements	Additional Details
ZENworks Agent Version	Same version as the parent ZENworks Primary Server	When you create a Satellite, you designate a ZENworks Primary Server as the parent server for the Satellite. The Satellite's agent version must be the same version as parent Primary Server version. For example, the Satellite's ZENworks Agent version cannot be 11.4.3 if the parent Primary Server version is 2017.
Firewall Settings: Open TCP Ports	80	Used for HTTP non-secure port.
	7628	Used by the ZENworks Agent.

5 Database Requirements

If you choose to use a database for the ZENworks database other than the embedded Sybase SQL Anywhere database that is available as the default for ZENworks 2017, the database must meet the following requirements:

Item	Requirement	
Database Version	 Oracle 11g R2 with version 11.2.0.4 Standard, Enterprise Edition and Oracle RAC (with or without partitioning). For information about partitioning, see Oracle Enterprise with Partitioning. 	
	 Oracle 12c R1 with version 12.1.0.2 Standard, Enterprise Edition and Oracle RAC (with or without partitioning). 	
	 Microsoft SQL 2008 SP3 and higher, including Cluster (Standard and Enterprise editions) 	
	 Microsoft SQL 2008 R2 and higher, including Cluster (Datacenter, Standard and Enterprise editions) 	
	 Microsoft SQL Server 2012 SP3 and later, including Cluster (Standard, Enterprise, and Business Intelligence editions) 	
	 Microsoft SQL Server 2014 SP1and later, including Cluster (Standard, Enterprise, and Business Intelligence editions) 	
	 Microsoft SQL Server 2016, including Cluster (Standard and Enterprise editions) 	
	 Sybase Anywhere 17 (and latest Electronic Bug Fix) 	
	PostgreSQL 9.5.4	
	NOTE: ZENworks Reporting is not supported.	
	NOTE	
	If you are planning to use Oracle Real Application Clusters (Oracle RAC) with ZENworks, see the following information:	
	 Oracle RAC One Node with Oracle 11.2.0.1 Solution for ZCM (http://www.novell.com/communities/node/13805/oracle-rac-one-node-11201-solution-zcm) 	
	 Oracle RAC Two Node with Oracle 11.2.0.1 Solution for ZCM (http://www.novell.com/communities/node/13806/oracle-rac-11201-2-node-cluster-solution-zcm) 	
Database Server Hostname	The database server hostname must be resolvable by the Domain Name Server Service.	

Item	Requirement	
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	
	2638 for Sybase SQL	
	2639 for Audit Sybase DB	
	• 1521 for Oracle	
	 54327 for embedded PostgreSQL 	
	 5432 for external PostgreSQL (you can assign a different port, if required.) 	
	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 Sybase, the UTF-8 character set is required.	
	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, 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.	
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.	

6 Reporting Server Support

Item	Requirements
ZENworks Reporting Server Platform	ZENworks Reporting Server Appliance
ZENworks Reporting Server backward compatibility (support for the older versions).	From ZENworks 11.4.x
Browser	Refer to Section 10, "Administration Browser Requirements," on page 21

Item	Requirements
Database	Refer to Section 5, "Database Requirements," on page 16

7 LDAP Directory Requirements

ZENworks 2017 can reference existing user sources (directories) for user-related tasks such as assigning content to users, creating ZENworks administrator accounts, and associating users with devices. LDAP (Lightweight Directory Access Protocol) is the protocol used by ZENworks for interacting with directories.

Item	Requirements
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).
Authoritative user source	Novell eDirectory 8.7.3, 8.8 or 9.0 (on all supported platforms)
	If you use eDirectory as the user source, 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 2000 SP4 or later)
	 Domain Services for Windows (DSfW)
LDAP user access	ZENworks requires only read access to the LDAP directory. For more information, see "Connecting to User Sources" in the <i>System Configuration</i> .
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.

8 Inventoried-Only Device Requirements

You can use ZENworks 2017 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 by Novell.
- If the platform vendor provides support for your installations through a special agreement (such as extended support), Novell expects you to extend this support infrastructure to us in order to resolve the issue.
- If the platform vendor does not support the platform at all, Novell offers no additional support.

The inventoried-only devices must meet the following requirements:

Item	Requirements
Operating System: Servers	◆ Mac OS X 10.10 to 10.12
	 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)
	 SLES 11 SP3 x86, x86_64 (Intel and AMD Opteron processors)
	 SLES 11 SP4 x86, x86_64 (Intel and AMD Opteron processors)
	• SLES 12 x86, x86_64
	• SLES 12 SP1 x86, x86_64
	• SLES 12 SP2 x86, x86_64
	 Open Enterprise Server 2015 (OES 2015) x86 and x86_64
	 Open Enterprise Server 2015 SP1 (OES 2015 SP1) x86 and x86_64

Item	Requirements
Operating System: Workstations	◆ Mac OS X 10.10 to 10.12
	 Windows 7 SP1 x86, x86-64 (Professional, Ultimate, and Enterprise editions)
	 Windows Embedded 7 SP1
	 Windows 8 x86, x86_64 (Professional and Enterprise editions)
	 Windows Embedded 8
	 Windows 8.1 Enterprise and Professional x86 and x86_64
	 Windows Embedded 8.1
	 Windows 10 x86, x86_64 (Professional, Education, Enterprise, and Enterprise 2015 LTSB editions)
	 Windows Embedded 10 (LTSB edition)
	 Windows 2008 R2 SP1 x86_64 (Standard, Enterprise, Datacenter)
	 SLED 11 SP3 x86, x86_64 (Intel and AMD Opteron processors)
	 SLED 11 SP4 x86, x86_64 (Intel and AMD Opteron processors)
	• SLED 12 x86, x86_64
	• SLED 12 SP1 x86, x86_64
	• SLED 12 SP2 x86, x86_64
	 Red Hat Enterprise Linux 6.7 and 6.8 (RHEL 6.7 and RHEL 6.8) x86, x86_64 (AS and ES)
	 * RHEL 7.0, 7.1 (without subscription)
	 RHEL 7.2, 7.3, 7.4 (without subscription)
	 Scientific Linux 6.7 and 6.8, x86, x86_64
	 * Scientific Linux 7.0, 7.1 (without subscription)
	 Scientific Linux 7.x, x86_64 (without subscription)
	* Indicates that the platform is supported in backward compatibility mode (support for the 11.x version of the agent)
Operating System: Thin	Windows Server 2012 SP2
Client Sessions	 Windows Server 2012 R2 SP1
	 Windows 2016 Server x86_64
	• Citrix XenApp 6.0, 6.5,7.5,
Inventory Only Module	After installing ZENworks 2017 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
	Mac OS: 8 MB

9 Mobile Management Support

Item	Requirements
Browser Support - EUP	Google Chrome
	 Firefox ESR 31.4 and 31.5, Firefox 30 onwards
	 Internet Explorer 10, 11 and Edge
	◆ Safari
Browser Support - Mobile Devices	Google Chrome for Android devices
	Safari for iOS devices
Mobile OS support	 Android 4.1 and higher
	• iOS 8.0 and higher
	 Windows 8.0 and higher (ActiveSync only)
	 Blackberry - 10.2 and 10.3 (ActiveSync only)
ActiveSync Server Support	 ActiveSync Server version 12.1 bundled with:
	 Microsoft Exchange 2007 and higher
	 Groupwise Mobility Server 2.0 or higher
ActiveSync Client Support	 Exchange ActiveSync 12.1 and higher. Tested on supported mobile operating system platforms.

10 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:
	◆ Internet Explorer 11
	 Firefox version 50 and higher
	 Firefox ESR versions 38.5 and 45.5
	◆ Edge 40
	 Chrome version 55 and higher (experimental support)
	NOTE: Administration of features dependent on ZCC Helper is supported only on Windows and SUSE Linux Enterprise devices.
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.

11 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.

12 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.

13 Legal Notice

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