

ZENworks® 2020 Update 3 ZENworks Agent Reference

November 2022

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About This Guide

This ZENworks Agent Reference provides information to help you perform administrative tasks related to the ZENworks Agent.

The information in this guide is organized as follows:

- Chapter 1, "Introduction," on page 7
- Chapter 2, "Viewing the Version of the ZENworks Agent Software and Modules on a Device," on page 9
- Chapter 3, "Searching for Devices that Have a Specified Version of the ZENworks Agent," on page 11
- Chapter 4, "Configuring ZENworks Agent Settings after Deployment," on page 13
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Audience

This guide is intended for ZENworks administrators.

Feedback

We want to hear your comments and suggestions about this manual and the other documentation included with this product. Please use the **comment on this topic** feature at the bottom of each page of the online documentation.

Additional Documentation

ZENworks is supported by other documentation (in both PDF and HTML formats) that you can use to learn about and implement the product. For additional documentation, see the ZENworks 2020 documentation website.

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1 Introduction

The ZENworks Agent is part of the ZENworks software that lets you manage devices over the network. The ZENworks Agent, commonly referred to as the ZENworks AgentZENworks Agent, provides services that do the following without requiring you to visit individual devices:

- Deliver software, patches, and system updates to devices.
- Manage policies that determine the behavior of devices.
- Take inventory of device hardware and software.
- Access devices from a remote location to troubleshoot and fix problems with hardware and software.
- Act as a Satellite to help distribute content, image devices, and collect inventory and device messages.

Each of these services is provided through the use of modules that plug in to the ZENworks Agent. Using ZENworks Control Center, you can configure which modules are active on devices, thus controlling which services are available on those devices. You can also configure a variety of other ZENworks Agent Settings.

For information on how to deploy ZENworks Agent, see "ZENworks Agent Deployment" in the ZENworks Discovery, Deployment, and Retirement Reference.

2 Viewing the Version of the ZENworks Agent Software and Modules on a Device

- 1 In ZENworks Control Center, click the Devices tab.
- 2 Click Servers to view the ZENworks Agent software version on a server.

or

Click Workstations to view the ZENworks Agent software version on a workstation.

- 3 Click the underlined link for the desired device.
- 4 In the General section, view the version in the ZENworks Agent Version row.
- **5** (Optional) Click the underlined version number to display a list of the ZENworks Agent modules that are installed on the device, along with their version numbers.
 - You can uninstall, enable, or disable the ZENworks modules by using the ZENworks Agent settings on the device's Settings page. For more information, see "Agent Features" on page 17.

Searching for Devices that Have a Specified Version of the ZENworks Agent

For upgrading or troubleshooting purposes, you can use the Advanced Search feature to display a list of devices in your ZENworks Management Zone that have a specified version of the ZENworks Agent software installed.

- 1 Depending on whether you want to search for all devices (servers and workstations), for servers, or for workstations that have the specified version of the ZENworks Agent installed, do one of the following in ZENworks Control Center:
 - To search for all devices, click the **Devices** tab.
 - To search for all servers, click the Devices tab > Servers.
 - To search for all workstations, click the Devices tab > Workstations.
- 2 In the Search section, click Advanced Search.
- **3** Click **Add** to display the Search Criteria dialog box.
- 4 Click Add Filter, click Device/AgentVersion from the drop-down list, then click OK.

4 Configuring ZENworks Agent Settings after Deployment

By default, the ZENworks Agent is deployed with the features selected at the Management Zone level in the Agent Features panel of ZENworks Control Center. For more information on how to customize the agent features during deployment, see "Customizing Features before Deployment". After the deployment, you can choose to uninstall, enable or disable the ZENworks Agent features, configure the agent's cache, set retry settings, and select whether to let users uninstall the agent. The User Management feature is only supported on Windows managed devices across all the ZENworks products.

You can configure settings at three levels:

- Management Zone: The setting applies to all devices in the Management Zone.
- **Device Folder:** The setting applies to all devices contained within the folder or its subfolders. It overrides the Management Zone setting.
- **Device:** The setting applies only to the device for which it is configured. It overrides the settings established at the Management Zone and folder levels.

The following sections contain more information:

- Section 4.1, "Configuring Agent Settings on the Management Zone Level," on page 13
- Section 4.2, "Configuring Agent Settings on the Device Folder Level," on page 13
- Section 4.3, "Configuring Agent Settings on the Device Level," on page 14
- Section 4.4, "ZENworks Agent Settings," on page 14

4.1 Configuring Agent Settings on the Management Zone Level

- 1 In ZENworks Control Center, click the Configuration tab.
- 2 In the Management Zone Settings panel, click Device Management.
- 3 Click ZENworks Agent.
- 4 Fill in the fields. For more information, see Section 4.4, "ZENworks Agent Settings," on page 14.
- 5 Click OK to apply the changes.

4.2 Configuring Agent Settings on the Device Folder Level

- 1 In ZENworks Control Center, click the Devices tab.
- 2 Click the Servers or Workstations folder.
- 3 Click Details next to the folder for which you want to configure settings.

- 4 Click the Settings tab, click Device Management, then click ZENworks Agent.
- 5 Fill in the fields. For more information, see Section 4.4, "ZENworks Agent Settings," on page 14.
- 6 Click OK to apply the changes.

4.3 Configuring Agent Settings on the Device Level

- 1 In ZENworks Control Center, click the Devices tab.
- 2 Click the Servers or Workstations folder.
- **3** Click the device for which you want to configure settings.
- 4 Click the Settings tab, click Device Management, then click ZENworks Agent.
- 5 Fill in the fields. For more information, see Section 4.4, "ZENworks Agent Settings," on page 14.
- 6 Click OK to apply the changes.

4.4 ZENworks Agent Settings

The following sections provide details about the configuration settings available for the ZENworks Agent. Each section assumes that you have accessed the settings at the level (zone, device folder, or device) where you want the settings applied.

- Section 4.4.1, "Agent Security," on page 14
- Section 4.4.2, "Agent Location Awareness," on page 16
- Section 4.4.3, "Agent Features," on page 17
- Section 4.4.4, "General," on page 25
- Section 4.4.5, "Agent Preferences," on page 26

4.4.1 Agent Security

You can configure whether or not to allow users to uninstall the ZENworks Agent. In addition, you can require a password for the uninstall, define an override password to provide access to restricted administrative features in the agent, and enable self-defense to protect agent files from being removed.

If you are configuring the ZENworks Agent settings on a device folder or a device, click **Override** settings to activate the settings.

The following setting applies to all ZENworks versions of the ZENworks Agent:

Allow Users to Uninstall the ZENworks Agent: Enable this option to allow users to perform a
local uninstall of the ZENworks Agent. If this option is disabled, the agent can only be
uninstalled through the ZENworks Control Center.

The following settings apply only to the ZENworks 11 SP2 and newer versions of the ZENworks Agent. For older versions of the agent, use the Security Settings policy (one of the Windows Endpoint Security policies) to configure these settings.

• Require an Uninstall Password for the ZENworks Agent: Enable this option to require users to enter a password in order to uninstall the ZENworks Agent. Click Change to set the password.

To avoid distributing the uninstall password to users, we recommend that you use the Password Key Generator utility to generate a key for the uninstall password. The key, which is based on the uninstall password, functions the same as the uninstall password but can be tied to a single device or user so that its use is limited.

You access the Password Key Generator utility in the Configuration Tasks list in the left navigation pane.

- Enable an Override Password for the ZENworks Agent: An override password can be used in the ZENworks Agent to:
 - Access information about the device's current location and how the location was assigned.
 - Access the Administrative options in the Endpoint Security Agent. These options let you disable the currently applied security policies (with the exception of the Data Encryption policy), view detailed policy information, and view agent status information.
 - Access the Administrative options in the Full Disk Encryption Agent. These options let you
 view detailed policy information, view agent status information, and perform functions
 such as
 - Uninstall the ZENworks Agent.

To enable an override password, select the check box, then click Change to set the password.

To avoid distributing the override password to users, we recommend that you use the Password Key Generator utility to generate a key for the override password. The key, which is based on the override password, functions the same as the override password but can be tied to a single device or user and can have a usage or time limit.

You access the Password Key Generator utility in the Configuration Tasks list in the left navigation pane.

- Enable Self Defense for the ZENworks Agent Currently, self-defense functionality protects only the ZENworks Endpoint Security Agent. It does not protect the other ZENworks Agent modules.
 - Self defense protects the Endpoint Security Agent from being shut down, disabled, or tampered with in any way. If a user performs any of the following activities, the device is automatically rebooted to restore the correct system configuration:
 - Using Windows Task Manager to terminate any Endpoint Security Agent processes.
 - Stopping or pausing any Endpoint Security Agent services.
 - Removing critical files and registry entries. If a change is made to any registry keys or values associated with the Endpoint Security Agent, the registry keys or values are immediately reset.
 - Disabling NDIS filter driver binding to adapters.

Select the check box to enable self defense.

4.4.2 Agent Location Awareness

The Agent Location Awareness panel lets you choose the mode that the ZENworks Agent uses to determine the location (Configuration > Locations tab) applied to a device.

There are two Location Awareness modes:

- Location Awareness Lite: The agent uses network information provided by the operating system. This mode has limitations that the full Location Awareness mode does not. See Location Awareness Lite Limitations for details.
 - If you use Location Awareness Lite mode and a device also has ZENworks Endpoint Security Management installed and enabled, the device uses Location Awareness mode instead. This occurs because ZENworks Endpoint Security Management and Location Awareness mode use the same ZENworks drivers. The agent detects that the drivers are installed and automatically switches to full Location Awareness mode, regardless of the mode setting.
- Location Awareness: The agent installs ZENworks drivers to collect network information. The drivers provide more detailed information than the operating system, which enables the agent to make a more accurate determination of the location.

Select the mode you want applied to devices. Refer to "Location Awareness Mode Transitions" on page 17 for information about how changing modes affects device reboots.

Location Awareness Lite Limitations

Because Location Awareness Lite does not use the ZENworks drivers and depends solely on the operating system for network information, this mode has limitations that the Location Awareness mode does not. Some limitations appear on all operating systems and some on specific operating systems only.

All Operating Systems

- Location change latency: In Location Awareness mode, location changes are event driven. As soon as a ZENworks driver detects a network change, the change is sent to the agent so that the location assignment can be changed immediately (if necessary). In Location Awareness Lite mode, however, location changes are based on polling. The agent periodically polls the operating system for network information and determines if a location change is required. The result is that location changes are typically slower in Location Awareness Lite mode than in Location Awareness mode.
- Inaccurate network adapter classification: As network adapters enumerate to the operating system, they can mask their device type. For example, an 802.11 wireless adapter might indicate that it is an Ethernet device. Modems and cellular devices can also do this. Because of this, any location awareness that is based on network adapter classification can be inaccurate. This is not the case in Location Awareness mode, because the drivers validate the adapter type.

Windows XP, Windows Server 2003, and Windows 2003 R2

 Wireless SSID and MAC address information unavailable: In Location Awareness Lite mode, both wireless (802.11) SSID and MAC address information is not available. This means that network environment definitions based solely on this information cannot be matched.

Windows Vista, Windows 7, Windows 8, and Windows 10

WLAN service required: The wireless (802.11) controls require that the WLAN service is
installed and running on a device. If the service is disabled, wireless SSID and MAC address
information is not available (similar to the Windows XP/2003 issue described above). Any
network environment definitions based solely on this information are never matched.

Windows Servers: 2008, 2008 R2, 2012, 2012 R2, and 2016

WLAN service required: The wireless (802.11) controls require that the WLAN service is
installed and running on a device. The WLAN service on these servers must be manually
installed via the Features option in the Windows Server Manager. Without this service installed
and enabled, any network environment definitions based solely on this information are never
matched.

Location Awareness Mode Transitions

When a device transitions from one Location Awareness mode to another, the ZENworks drivers are either installed or removed. Because these are kernel drivers, the device must be rebooted for the change to take effect.

The timing of the reboot is determined by the Reboot Behavior setting in the Agent Features panel.

4.4.3 Agent Features

The ZENworks Agent uses modules to perform the following functions on managed devices:

- Asset Management
- Bundle Management
- Endpoint Security Management
- Full Disk Encryption
- Image Management
- Patch Management
- Policy Management
- Remote Management
- User Management

If you are viewing the properties of a Windows 2000 device, the User Management options are disabled because user management cannot be disabled or uninstalled from Windows 2000 devices. If you are viewing the properties of the Management Zone or a folder, user management settings are ignored for Windows 2000 devices.

By default, all modules are installed on a device. However, you can uninstall any of the modules. You can also disable (or enable) any of the installed modules.

To modify a module's state:

- 1 (Conditional) If you are configuring the ZENworks Agent settings on a device folder or a device, click Override settings.
- 2 To install a module, select the Installed check box.

or

To uninstall a module, deselect the Installed check box.

By default, the **Installed** check boxes for all modules are selected, meaning that all modules are installed on devices when they register to your ZENworks Management Zone. If you deselect a module's **Installed** check box, that module is uninstalled from the device the next time it refreshes.

3 To enable an installed module, click the **Enabled** button.

or

To disable an installed module, click the Disabled button.

By default, the **Enabled** option for all installed modules is selected, meaning that all modules are enabled on devices. Disabling a module does not cause that module to be uninstalled from currently managed devices. The module remains installed on the device, but it is disabled.

4 Specify the reboot behavior if a reboot is required.

This option applies only when installing or uninstalling a module. In some cases, Windows Installer might require a reboot of the device when installing or uninstalling the module. If a reboot is required during install, the module does not function until the reboot occurs. If a reboot is required during uninstall, the module's files are not completely removed until a reboot occurs, but the module stops functioning.

- Prompt user to reboot (Default): The user is prompted to reboot the device. The user can reboot immediately or wait until later.
- Do not reboot device: No reboot occurs. The user must initiate a reboot.
- Force device to reboot: The device is automatically rebooted. The user is notified that the device will reboot in 5 minutes.
- **5** Click **Apply** to save the changes.
- **6** (Conditional) If you install the Remote Management or Image Management module on a device, reboot the device for the install to be effective.

To understand the effects of enabling, disabling, or uninstalling the modules, see the following tables:

- Table 4-1, "Bundle Management," on page 19
- Table 4-2, "Endpoint Security Management," on page 20
- Table 4-3, "Full Disk Encryption," on page 21
- Table 4-4, "Image Management," on page 22
- Table 4-5, "Patch Management," on page 23
- Table 4-6, "Policy Management," on page 24
- Table 4-7, "Remote Management," on page 25

Table 4-1 Bundle Management

Installed and **Installed and Disabled** Uninstalled **Additional Details Enabled** • The Bundle • The Bundle • The Bundle ◆ If the ZENworks Management Management Management service license expires, you service is stopped is uninstalled from cannot create, edit, service is running on the and disabled on the the device. enable, or disable device. device. bundles. However, • The 👂 icon you can view the • The 🍠 icon The icon properties page does existing bundles in properties page properties page not display an entry **ZENworks Control** displays the displays the Bundle for the Bundle Center or by using Bundle Management status Management status zman commands. Management as Disabled. in the Agent Status If the ZENworks status as panel The Windows license is **Running** bundle, File bundle, **Bundles with content** deactivated, then or Directive bundle such as Windows the Bundles tab is that are assigned to bundle, File bundle, no longer displayed the device are not or Directive bundle in the left displayed in the that are assigned to navigation pane of NAL window or in the device but are the ZENworks the shortcut not yet installed on **Control Center and** locations such as the device are you cannot use Desktop, Start deleted from the bundles related Menu, Quick device. zman commands. Launch, or System Tray of the device. You cannot execute Windows bundle, File bundle, or Directive bundle related zac commands. • If you disable the Bundle Management module when a bundle is being applied to the device, the module is disabled after the bundle is applied

and the device is refreshed.

 Table 4-2
 Endpoint Security Management

Installed and Enabled	Installed and Disabled	Uninstalled	Additional Details
 The Endpoint Security Management services (ZESService. exe and ZESUser.exe) are running on the device. The Endpoint Security Management drivers are running on the device. The Socon properties page displays the Endpoint Security Management status as Running. 	 The Endpoint Security Management services (ZESService.ex e and ZESUser.exe) are running on the device to support Location Awareness and Agent Self Defense. The Endpoint Security Management drivers are stopped on the device. The Sicon properties page displays the Endpoint Security Management status as Disabled. If there are security policies assigned to the device when it enters this state, all security policies are removed from the device before the drivers are disabled. 	 The Endpoint Security Management services (ZESService.ex e and ZESUser.exe) are running on the device to support Location Awareness and Agent Self Defense. The Endpoint Security Management drivers are not installed on the device. The Sicon properties page does not display an entry for Endpoint Security Management in the Agent Status panel. If there are security policies assigned to the device when it enters this state, all security policies are removed from the device before the drivers are uninstalled. 	• If the ZENworks Endpoint Security Management license expires, you cannot create, edit, enable, or disable security policies. However, the security policies that are already enforced and enabled on a device continue to work on the device.

 Table 4-3
 Full Disk Encryption

nstalled and Enabled	Installed and Disabled	Uninstalled	Additional Details
 The Full Disk Encryption services (ZESService. exe and ZESUser.exe) and drivers are installed on the device The Full Disk Encryption drivers are running. The icon properties page displays the Full Disk Encryption status as Running. 	 The Full Disk Encryption services (ZESService.ex e and ZESUser.exe) and drivers are installed on the device The Full Disk Encryption drivers are running. The Sicon properties page displays the Full Disk Encryption status as Disabled. If a Full Disk Encryption status as Disabled. If a Full Disk Encryption policy is assigned to the device when it enters this state, the policy is removed, the disk is unencrypted, and the ZENworks PBA is removed (if previously enabled). 	 The Full Disk Encryption services (ZESService.ex e and ZESUser.exe) are running on the device to support Location Awareness and Agent Self Defense. The Full Disk Encryption drivers are not installed. The Sicon properties page does not display an entry for Full Disk Encryption in the Agent Status panel. If a Full Disk Encryption policy is assigned to the device when it enters this state, the policy is removed, the disk is unencrypted, and the ZENworks PBA is removed (if previously enabled). 	• If the ZENworks Full Disk Encryption license expires, you cannot create, edit, enable, or disable policies. However, the policies that are already enforced an enabled on a device continue to work or the device.

Table 4-4 Image Management

Installed and Enabled	Installed and Disabled	Uninstalled	Additional Details
 novell-ziswin is installed and enabled on Windows XP and Windows 2003 managed devices. novell-ziswin is installed but disabled on Windows Vista, Windows 2008, Windows 7, and Windows 2008 R2 managed devices. novell-zisdservice is installed and enabled on the Windows Vista, Windows 2008, Windows 7, and Windows 2008, Windows 7, and Windows 2008 R2 managed devices. The Image Management Agent is installed and enabled. The sicon properties page displays the status of Image Management as Running. 	 novell-ziswin is only disabled but it is not uninstalled on all the Windows XP and Windows 2003 managed devices. novell-zisdservice is only disabled but it is not uninstalled on the Windows Vista, Windows 2008, Windows 7, and Windows 2008 R2 managed devices. The con properties page displays the status of Image Management as Disabled. 	 novell-ziswin is uninstalled on all the Windows XP and Windows 2003 managed devices. novell-zisdservice is uninstalled on the Windows Vista, Windows 2008, Windows 7, and Windows 2008 R2 managed devices. The Image Management Agent is additionally uninstalled from the device. The Sicon properties page does not display an entry for the Image Management in the Agent Status panel. 	When the ZENworks Configuration Management license expires: • On the ZENworks Server: You cannot install the agent with Image Management module on any new device. Also, you cannot enable or disable the Image Management module for the existing devices. • On the Managed Device: novell- ziswin and the novell-zisdservice are disabled but are not uninstalled. Also, the sicon properties page displays the status of Image Management as Disabled.

Table 4-5 Patch Management

Installed and Enabled	Installed and Disabled	Uninstalled	Additional Details
 The Patch Management service is running on the device. The so icon properties page displays the Patch Management status as Running 	 ◆ The Patch Management service is stopped and disabled on the device. ◆ The → icon properties page displays the Patch Management status as Disabled ◆ The patch bundles that are assigned to the device are not displayed in the NAL window or in the shortcut locations such as Desktop, Start Menu, Quick Launch, or System Tray of the device. ◆ You cannot execute patch bundle related zac commands. 	 The Patch Management service is uninstalled from the device. The icon properties page does not display an entry for the Patch Management status in the Agent Status panel. Patch bundles that are assigned to the device but are not yet installed on the device are deleted from the device. 	• If the ZENworks license is deactivated, you cannot download any new patch bundles. However, the existing patches can be used for assignments.

Installed and Installed and Disabled Uninstalled **Additional Details Enabled** • The Policy • The Policy The Policy • If the ZENworks Management service Management Management Configuration service is stopped is uninstalled from Managementf license service is running on the and disabled on the device. expires, you cannot the device. device. create, edit, enable, The icon or disable policies. • The 🍠 icon • The 🥯 icon properties page does However, the policies properties page properties page not display an entry that are already displays the displays the Policy for the Policy enforced and enabled Policy Management Management status on a device continue status as Management in the Agent Status to work on the status as Disabled. panel. device. Running. All the policies All the policies • If the User assigned to the assigned to the Management is device are device are disabled: unenforced from unenforced from the The Roaming the device. device. Profile policy You can use If you uninstall the and the DLU **ZENworks Control Policy Management** policy is not Center to assign module on a device enforced on a policies to a that is running a device even if device. However, Dynamic Local User the user to the policies are (DLU) policy, the whom the policy not enforced on module is is assigned has the device until uninstalled after the logged in to the device is rebooted. the Policy device Management The Windows feature is **Group Policy** enabled. with user You cannot configuration execute policy settings is not related zac enforced on the commands. managed device If you disable the even if the Policy policy is Management assigned to the module on a device. device that is running a

Dynamic Local User (DLU) policy, the module is disabled after the device is rebooted

Table 4-7 Remote Management

Installed and Enabled	Installed and Disabled	Uninstalled	Additional Details
 The Remote Management service is running on the device. 	 The Remote Management service is stopped and disabled on the device. 	 The Remote Management service is uninstalled from the device. The picon properties 	If the ZENworks license expires, the Remote Management service continues to run and the device can be
◆ The icon properties page displays the Remote Management status as Running.	 The solicon properties page displays the Remote Management status as Disabled. The Remote 	page does not display an entry for the Remote Management status in the Agent Status panel The Remote Management policy is	remotely managed.
 The device can be remotely managed. 		unenforced from the device.The device cannot be remotely managed.	

4.4.4 General

You can configure the ZENworks Agent's cache and agent retry settings.

If you are configuring the ZENworks Agent settings on a device folder or a device, click **Override** settings.

The following settings can be configured:

• Cache Life: The ZENworks Agent's cache directory contains content data used by the agent. Each piece of data, referred to as a cache entry, is stored in the cache database.

When a cache entry is added to the cache database, it is assigned a creation time and an expiration time. The creation time is simply the time it was added to the database. The expiration time is the creation time plus the number of hours specified by the **Cache Life** setting (by default, 336 hours or 14 days). For example, suppose that a cache entry is added on June 10 at 3:00 p.m. With the default **Cache Life** setting, the expiration time is set to June 24 at 3:00 p.m.

The agent does not attempt to update a cache entry until after the entry's expiration time. At that point, the agent updates the cache entry the next time it contacts the ZENworks Server to refresh its information.

NOTE: Updates to expired cache entries occur only for cache entries that are content-related (bundles, policies, configuration settings, registration settings, and so forth). Updates to cache entries that are event-related (remote management, inventory, reporting, and so forth) only occur at the time the event takes place on the device.

A higher Cache Life setting reduces the traffic load on your network because cache entries are refreshed less frequently. A lower setting provides newer information but increases the traffic load.

This setting affects only how often the agent requests updates to a cache entry. Cache entries can also be updated before their expiration time if information is changed in ZENworks Control Center that causes the information to be pushed from the ZENworks Server to the agent.

- Cache Orphaning Threshold: Over a period of time, it is possible for entries to be inserted in the cache database but not removed. This can cause the cache to grow unnecessarily.
 - An orphan is an entry that is inserted into the cache but not accessed within the number of days specified by the **Cache Orphaning Threshold** setting. For example, suppose that a cache entry is accessed on July 1 at 10:00 a.m. Without the default **Cache Orphaning Threshold** setting (30 days), the entry becomes an orphan if it is not accessed again before July 31 at 10:00 a.m.
 - A higher Cache Orphaning Threshold setting ensures that infrequently accessed information is not removed from the cache database. A lower setting can reduce the cache size.
- Times to Retry Requests to a Busy Server: Lets you specify the number of times that the agent retries a request to a busy server before considering the server as bad instead of busy.
 - The default value is 15. The maximum value that you can specify is 20.
- Initial Retry Request Wait: The Initial Retry Request Wait setting lets you specify the initial amount of time that the agent waits before retrying a Web service request after receiving a busy response from the server. The wait time increases by one second with every busy response. The default setting is four seconds. The maximum value that you can set is ten seconds. Each subsequent request is incremented by one second.
 - For example, suppose that you leave this setting at the default (four seconds). After receiving a busy response from the server, the agent waits four seconds for the first retry attempt. If the server is still busy, the agent waits five additional seconds (4 + 1) before making the second retry attempt. The third retry attempt is 15 seconds after the initial retry attempt (4 + 5 + 6). The time increments until the value specified in the Maximum Retry Request Wait setting is reached. The retry attempts stop when the value specified in the Times to Retry Requests to a Busy Server setting is reached.
- Maximum Retry Request Wait: Lets you specify the maximum amount of time to wait before retrying a Web service request after receiving a busy response from the server.
 - The default setting is 16 seconds. The maximum value that you can specify is 20 seconds.

4.4.5 Agent Preferences

To provide optimal performance the default status upload frequency of the ZENworks Agent is 30 minutes. You can choose to override the default status upload frequency by configuring the following preferences on a Windows or Linux managed device:

- "Changing the Default Status Upload Frequency of the ZENworks Agent on a Windows Managed Device" on page 27
- "Changing the Default Status Upload Frequency of the ZENworks Agent on a Linux Managed Device" on page 27

Changing the Default Status Upload Frequency of the ZENworks Agent on a Windows Managed Device

- 1 On a Windows managed device, create the StatusSenderConfig.xml file in <CONF_DIR>.
- **2** Open <CONF_DIR>/StatusSenderConfig.xml in a text editor.
- **3** Provide the following values:

```
<configuration>
<StatusSender>
   <Parameter Name="SleepTime" Value="milliseconds"/>
</StatusSender>
</configuration>
```

Changing the Default Status Upload Frequency of the ZENworks Agent on a Linux Managed Device

- 1 On a Linux managed device, create the StatusSenderConfig.conf file in /etc/opt/novell/zenworks/StatusSenderConfig.conf
- **2** Add the following parameter: SleepTime=<nnn>

Where ${\rm nn}$ is the interval frequency (in minutes) which Status Sender will rollup the status messages.

Configuring ZENworks Explorer

You can configure common settings at three levels for the ZENworks Explorer component of the ZENworks Agent:

- Management Zone: The settings are inherited by all device folders and devices.
- **Device Folder:** The bundle settings are inherited by all devices contained within the folder or its subfolders.
- **Device:** The bundle settings apply only to the device for which they are configured.

The following sections contain more information:

- Section 5.1, "Configuring ZENworks Explorer Settings on the Management Zone Level," on page 29
- Section 5.2, "Configuring ZENworks Explorer Settings on the Device Folder Level," on page 29
- Section 5.3, "Configuring ZENworks Explorer Settings on the Device Level," on page 30
- Section 5.4, "ZENworks Explorer General Settings," on page 30

5.1 Configuring ZENworks Explorer Settings on the Management Zone Level

- 1 In ZENworks Control Center, click the Configuration tab.
- 2 Click the Device Management tab.
- 3 Click ZENworks Explorer Configuration.
- **4** Fill in the fields. For more information, see Section 5.4, "ZENworks Explorer General Settings," on page 30.
- 5 Click OK to apply the changes.

5.2 Configuring ZENworks Explorer Settings on the Device Folder Level

- 1 In ZENworks Control Center, click the Devices tab.
- 2 Click the Servers or Workstations folder.
- 3 Click Details next to the folder for which you want to configure settings.
- 4 Click the Settings tab, click Content, then click ZENworks Explorer Configuration.
- 5 Click Override Settings.

If you are configuring the settings on a device folder or a device, you need to click **Override Settings** before you can select any of the settings.

- **6** Fill in the fields. For more information, see Section 5.4, "ZENworks Explorer General Settings," on page 30.
- 7 Click OK to apply the changes.

5.3 Configuring ZENworks Explorer Settings on the Device Level

- 1 In ZENworks Control Center, click the Devices tab.
- 2 Click (Details) against the Servers or Workstations folder.
- **3** Click the device for which you want to configure settings.
- 4 Click the Settings tab, click Device Management, and then click ZENworks Explorer Configuration.
- 5 Click Override Settings.
 - If you are configuring the settings on a device folder or a device, you need to click **Override**Settings before you can select any of the settings.
- **6** Fill in the fields. For more information, see Section 5.4, "ZENworks Explorer General Settings," on page 30.
- **7** Click **OK** to apply the changes.

5.4 ZENworks Explorer General Settings

You can use the ZENworks Explorer General panel to configure ZENworks Explorer to uninstall a bundle that is no longer assigned to the device, specify the number of days to wait before uninstalling the bundle, and specify the default folder that ZENworks Explorer uses:

- Unassigned Bundles: Select whether or not you want a bundle to be uninstalled after it is no longer assigned to a device or the device's user.
 - If you choose to uninstall the bundle, select the number of days to wait before uninstalling the application. Specify 0 if you want the application to be uninstalled as soon as it is no longer assigned to the device or user.
- **Default Folder:** ZENworks Explorer displays a default folder (ZENworks) in Windows Explorer, on the Windows Start menu and in the ZENworks Window. Bundles are placed in the default folder unless you override the default folder by specifying a folder on a bundle's Summary page.
 - The default folder can be renamed to meet the needs of your organization. Click **Edit** to change the folder name.
- **Disable Icon Overlays:** Select this option to disable both the status indicator overlay and the red ZENworks icon overlay from a bundles icon.

NOTE: After choosing to disable the icon overlays, you must do the following on a Windows device for the bundle icon changes to be effective on the device:

- For the Desktop, System Tray, Start Menu, and Quick Launch bundle icons: Logout and log into the device again.
- For the ZENworks Application Window bundle icons: Close the ZENworks Application Window and launch it again.

6 Removing the ZENworks Pre-Agent from a Device

During the uninstallation of ZENworks software from a device, if you choose to leave the ZENworks Pre-Agent installed on the device, the ZENworks Pre-Agent responds to the Advertised discovery requests and also to ZENworks Ping requests if an IP-based discovery is performed on the device.

To remove the ZENworks Pre-Agent from a device after ZENworks has been uninstalled from the device, perform the following steps:

- $\textbf{1} \ \, \textbf{Delete the directory named } \textbf{ZENPreAgent from the following registry:}$
 - HKLM\SYSTEM\CurrentControlSet\Services\
- 2 Delete the zenworks directory from the operating system installation directory on the device. For example, if the operating system is installed in C: /:
 - On a Windows XP device: Remove C:\Windows\Novell\zenworks directory.
 - On a Windows 2000 device: Remove C:\WINNT\Novell\zenworks directory.

7 Configuring the System Update Behavior of the ZENworks Agent

You can configure System Update behavior on the ZENworks Agent that resides on managed devices. This includes if a dialog box displays on the managed devices prompting users to allow the system update or a required boot after a system update is applied. Users can either postpone the update or reboot. You can also provide custom text in the prompts that you choose to display.

For more information, see "Configuring the System Update Behavior of the ZENworks Agent" in the ZENworks System Updates Reference.

Optimizing the ZENworks AgentPerformance

On a managed device, considerable time is taken in fetching and updating the Local Cache Database which affects the performance of the Agent.

You can improve the refresh time and the user login experience by enabling the Asynchronous IO and Buffer Cache feature of the ZENcache database. By enabling the Asynchronous IO feature on the SQLite database, the response of the cache on the managed device improves. The response time of Agent refresh is also faster when policies and bundles are deployed at the terminal servers. Performance is further optimized by enabling the Buffer cache to interact with SQLite database.

To optimize performance of the ZENworks Agent on a device, do the following:

- 1 Open the Registry Editor.
- 2 Go to HKLM\Software\Novell\ZCM\.
 - To enable the Asynchronous IO, set the SqliteAsyncIOExtension string value to True.
 - To enable the Buffer cache set the SqliteCache string value to True.
 - To allow data to persist in the cache memory for some time before flushing it to the database, set the SqliteCacheSeconds string value to 10000. This allows data to be present in the cache memory for 10000 milliseconds and all the ZENcache reads are done from the memory rather than the database which improves the performance.
 - To configure the number of Cache entries to be persisted in the memory as 500 before flushing to the database, set the SqliteCacheLimit string value to 500.

8 Customizing the Look and Feel of the ZENworks Icon

The ZENworks Icon is located in the Windows notification area of the managed device. This is a default static icon. When the managed device is refreshed, the default static icon is replaced by the default animated icons.

As part of our initiative to make the icons and user interfaces consistent across all Novell Products, the ZENworks icons have been modified in ZENworks Configuration Management. However, you can continue using the ZENworks 10 Configuration Management icons. For more information, search for the *Replacing the ZENworks Icons with the ZENworks 10.x Icons* article at the ZENworks Cool Solutions Community (http://www.novell.com/communities/coolsolutions/zenworks).

ZENworks allows you to change the look and feel of the ZENworks Icon. You can choose to replace the default icons with different icons, such as your company logo.

- Section 8.1, "Replacing the Default ZENworks Icons with the New Customized Icons," on page 37
- Section 8.2, "Replacing the Customized Icons with the Default ZENworks Icons," on page 38

8.1 Replacing the Default ZENworks Icons with the New Customized Icons

To replace the following default ZENworks icons, you need 16x16-pixel PNG files:

- Customized Static Icon: The static icons named loggedIn_zappTray.png and zenworks.png.
- Customized Animated Icons One or more custom animated icons named refresh_x.png, where x represents a single and double-digit numeric value that can range from 1 to 12. These icons are displayed when the managed device is refreshed.

You must have at least one animated icon. If you choose to have more than one animated icon, the icons are displayed sequentially based on the value of xx in the filename. For example, if you have the refresh_1.png and refresh_2.png icons, refresh_1.png is displayed first followed by refresh_2.png.

Before changing the default icons with the customized icons, ensure that you rename or back up the default icons.

To replace the default icons on a managed device:

- **1** Copy the customized static and animated icons <code>loggedIn_zappTray.png</code>, <code>zenworks.png</code>, and <code>refresh_x.png</code> icons to the <code>%ZENWORKS_HOME%\zapp\assets</code> directory.
- 2 Stop the zapp.exe process by using the Windows Task Manager.
- **3** Go to the %ZENWORKS_HOME%\bin directory and double-click zapp-launcher.exe to restart the process.

8.2 Replacing the Customized Icons with the Default ZENworks Icons

- 1 Delete the customized icons from the %ZENWORKS_HOME%\zapp\assets directory.
- 2 Stop the zapp.exe process by using the Windows Task Manager.
- $\textbf{3} \ \ \textbf{Copy the default ZENworks lcons to } \\ \texttt{ZENWORKS_HOME} \\ \texttt{\app\assets directory}.$
- **4** Restart % ZENWORKS_HOME%\bin\zapp-launcher.exe.

10 Troubleshooting the ZENworks Agent

The following section provides solutions to the problems you might encounter while working with the ZENworks Agent:

- "ZENworks icon is cropped on the Linux devices" on page 42
- "Desktop Icons are Rearranged after the Reboot" on page 42
- "ZENworks icon display issue on Linux devices" on page 42
- "Satellite menu is not displayed in the left navigation pane of the ZENworks Agent page" on page 44
- "Unable to use rights-based authentication to remotely manage a device" on page 44
- "Unable to launch a terminal session with a Citrix Server that has ZENworks Agent installed" on page 44
- "The ZENworks Agent Policies page does not display the correct status for the DLU policy" on
- "The partial or the general refresh of a terminal server might cause high usage of system resources and take considerable time to refresh the server" on page 45
- "The status or collection data upload by the agent times out because of slow links or because the server is busy managing other device requests in the zone" on page 46
- "Agents may fail to connect to the Servers on slow links" on page 46
- "An agent refresh might take a considerable amount of time because of slow links or because the server is too busy managing other device requests in the zone" on page 47
- "By default, the general refresh on a Windows device refreshes both the device and user sessions." on page 47
- "The quick-task execution fails when a policy is assigned to a device." on page 48
- "If you perform a Remote Desktop access to a Windows 2008 device and keep the console idle, the Remote Desktop connection gets disconnected after 20 seconds." on page 48
- "The zisInx functionality does not work when the agent is installed through YUM on RHEL6.1 devices and the agent does not read or write the Device GUID and Device Data from or to the Image-safe data on the device." on page 48
- "Unable to restart a Windows 7 device when using the Reboot quicktask in the ZENworks Control Center." on page 48
- "Some garbage characters are displayed on the Mac console, while uninstalling agent from a Mac device." on page 48
- "User tracking displays different values for user login name" on page 49
- "Agent Package with the Microsoft .NET Framework Fails to Install on the Windows 8 and Windows Server 2012" on page 49
- "ZENworks Agent service crashes" on page 50

- "A Mac workstation having ZENworks Agent installed on it is shown as a workstation even after installing a Mac Server App on it" on page 50
- "ZENworks icon is not displaying or rendering content correctly" on page 50

ZENworks icon is cropped on the Linux devices

Source: ZENworks, ZENworks Agent

Explanation: The ZENworks icon appears to be cropped on the desktop menu bar of Linux

distributions like SLES, OES and RHEL managed devices or Primary Servers.

Action: None

Desktop Icons are Rearranged after the Reboot

Source: ZENworks Agent

Explanation: Due to Microsoft technical limitations, the NAL icons and default shortcut icons

are placed in unexpected locations on the desktop.

Action: None

ZENworks icon display issue on Linux devices

Source: ZENworks, ZENworks Agent

Explanation: The ZENworks icon is not displayed on the desktop menu bar of Linux

distributions like SLES, SLED, OES and RHEL managed devices or Primary Servers.

However, when the ZENworks icon is run manually, a message "Another

instance of ZENworks icon is running" is displayed.

Action: You need to download and enable the supported gnome extension based on the

version of the gnome environment installed. You can perform any one of the

following methods.

Method 1

Perform the following steps to install the extension:

1. Find the gnome environment version installed by running the following command in the terminal:

```
gnome-shell --version
```

- 2. Go to https://extensions.gnome.org
- 3. Find the compatible version of the TopIcons Fix plugin based on your gnome environment version.
- 4. Click the link Click here to install browser extension.
- 5. Specify https://extensions.gnome.org/local/ that will list the installed extensions.
- 6. Search for the Topicons Fix extension and enable it.
- 7. Verify whether the ZENworks icon is displayed in the system tray.

Method 2

On SLES/SLED devices:

To install and enable a GNOME Shell extension from a zip file on an SLES/SLED device, perform the following steps:

1. Find the gnome environment version installed by running the following command in the terminal:

```
gnome-shell --version
```

- 2. Go to https://extensions.gnome.org
- 3. Find and download the compatible version of the TopIcons Fix plugin based on your gnome environment version.
- 4. Install the required packages by running the following command:

```
sudo zypper install gnome-shell gnome-tweak-tool unzip
```

- 5. Download the zip file of the GNOME Shell extension you want to install.
- 6. Add the downloaded extension to the gnome-shell path.

```
mkdir ~/.local/share/gnome-shell/extensions/
unzip <Extension_path>/extension.zip -d ~/.local/share/
gnome-shell/extensions
```

- 7. Open the GNOME Tweak tool by searching for **Tweaks** in the application launcher or by running the gnome-tweak-tool command in the terminal.
- 8. In the GNOME Tweak Tool, click the **Extensions** tab on the left sidebar.
- 9. Find the extension you installed in the list and toggle the switch to enable it.
- 10. Logout of the session and login again.

After login, the newly installed extension will be active and zicon (ZENworks icon) will be visible on the taskbar.

On RHEL Devices:

To install and enable a GNOME Shell extension from a zip file on an RHEL device, perform the following steps:

1. Find the gnome environment version installed by running the following command in the terminal:

```
gnome-shell --version
```

- 2. Go to https://extensions.gnome.org
- 3. Find the compatible version of the TopIcons Fix plugin based on your gnome environment version.
- 4. Install the required packages by running the following command:

```
sudo yum install unzip gnome-tweaks gnome-shell-
extension-prefs
```

- 5. Download the zip file of the TopiconsFix GNOME Shell extension based on your GNOME environment version.
- 6. Add the downloaded extension to the gnome-shell path.

mkdir ~/.local/share/gnome-shell/extensions/
unzip <Extension_path>/extension.zip -d ~/.local/share/
gnome-shell/extensions

- 7. Open the GNOME Tweak Tool by searching for **Tweaks** in the application launcher or by running the gnome-tweaks command in the terminal.
- 8. In GNOME Tweaks, go to the **Extensions** section on the left sidebar.
- 9. Find the extension you installed in the list and toggle the switch to enable it.
- 10. Logout of the session and login again.

After login, the newly installed extension will be active and zicon (ZENworks icon) will be visible on the taskbar.

Satellite menu is not displayed in the left navigation pane of the ZENworks Agent page

Source: ZENworks; ZENworks Agent.

Explanation: When you promote a device to Satellite through ZENworks Control Center, the

configured Satellite role is added to the device. However, when you double-click the so icon, the Satellite menu is not displayed in the left navigation pane of the

ZENworks Agent page.

Action: Refresh the managed device (In the notification area of the device, right-click

the so icon, then click Refresh).

Unable to use rights-based authentication to remotely manage a device

Source: ZENworks; ZENworks Agent.

Explanation: When you use rights-based authentication to remotely manage a device, the

following error is logged on the device:

Rights Authentication failed. An internal error occurred while communicating to ZENworks Management Daemon. Contact

Micro Focus Customer Support.

Possible Cause: ZENworks Agent is not installed on the device. Only Remote Management

service is installed on the device.

Action: Install ZENworks Agent on the device. For more information on installing the

ZENworks Agent, see in *ZENworks Quick Start Reference*.

Unable to launch a terminal session with a Citrix Server that has ZENworks Agent installed

Source: ZENworks; ZENworks Agent.

Explanation: After deploying the ZENworks Agent on a Citrix server, you might encounter any of the following ICA login session issues:

- The ICA login session that is launched from Citrix agent terminates after some time.
- The ICA login session displays the following exception:

```
winlogon.exe .. Application Error
```

If you try to close the exception window, the session hangs displaying the following message:

Running login scripts

Action: Before launching a terminal session with the Citrix server, do any of the following on the server:

- Rename NWGina.dll.
 - 1. In the c:\windows\system32 directory, rename NWGina.dll.
 - 2. In the Registry Editor, go to HKLM\Software\Microsoft\WindowsNT\CurrentVersion\Win logon, and change the value of the CtxGinaDLL key to the new name for NWGina.dll.
 - 3. Reboot the server.
- Install Novell Client.

NOTE: This needs to be done only once.

The ZENworks Agent Policies page does not display the correct status for the DLU policy

Source: ZENworks; ZENworks Agent.

Explanation: If the User Management Agent Feature is disabled or uninstalled in ZENworks

Control Center (Agent Features panel on the ZENworks Agent page), the status for the DLU policy on the ZENworks Agent Policies page is displayed as Success,

even though the policy is not effective on the device

Action: None.

The partial or the general refresh of a terminal server might cause high usage of system resources and take considerable time to refresh the server

Source: ZENworks; ZENworks Agent.

Explanation: During a partial or general refresh of a terminal server, the ZENworks agent on

the server simultaneously refreshes the sessions of all the users logged into the terminal server. If too many users are logged in to the terminal server, the ZENworks agent might take substantial time to refresh the terminal server and

the usage of the system resources on the server might also be high.

Action: Perform the following steps to refresh the user sessions in batches:

- 1 Open the Registry Editor.
- 2 Go to HKLM\Software\Novell\ZCM\.
- **3** To enable batch refreshes, create a string called EnableBatchRefresh and set the value to 1.
 - By default, there are 5 sessions in a batch.
- **4** (Optional) To change the number of user sessions in a batch, create a string called maxUserRefreshThreads and set the desired value.

The status or collection data upload by the agent times out because of slow links or because the server is busy managing other device requests in the zone

Source: ZENworks 10 Configuration Management; ZENworks Agent.

Explanation: The agent periodically uploads the status and collection data to the Primary or

Satellite Servers in the zone. On slow links or when the server is too busy managing other device requests in the zone, this attempt to upload the data might time out. To address this, the upload-timeout setting must be increased

to a suitable value above the default value of 100 seconds.

Action: To change the default upload timeout value of the ZENworks Agent on a Windows managed device, perform the following steps:

- 1 Open the Registry Editor.
- **2** Go to HKLM\Software\Novell\ZCM\.
- **3** Add the upload-timeout parameter as upload-timeout=200 seconds.

Action: To change the default upload timeout value of the ZENworks Agent on a Linux managed device, perform the following steps:

- 1 Open /etc/opt/novell/zenworks/conf/xplatzmd.propertiesin
 a text editor.
- **2** Add the upload-timeout parameter as upload-timeout=200 seconds.

Agents may fail to connect to the Servers on slow links

Source: ZENworks; ZENworks Agent

Explanation: On slow links, agents may fail to connect to the servers. This can be observed by

the connection timeout errors in the agent log file. To address this, the

connection-timeout and socket-timeout settings must be increased to a suitable

value above the default value of 100000. This value is in milliseconds.

Action: To change the default values for connection-timeout and socket-timeout on a Linux or a Macintosh managed device:.

- 1 Open /etc/opt/novell/zenworks/conf/xplatzmd.properties in a text editor.
- **2** Add the connection-timeout parameter as connection-timeout=200000, and socket-timeout parameter as socket-timeout=200000.

An agent refresh might take a considerable amount of time because of slow links or because the server is too busy managing other device requests in the zone

Source: ZENworks Configuration Management; ZENworks Agent.

Explanation: In the debug mode, the administrator observes a read timeout error in the

agent log file. To address this, the read-timeout setting must be increased to a suitable value above the default value of 30000. This value is in milliseconds.

Action: To change the default read timeout value of the ZENworks Agent on a Windows managed device, perform the following steps:

- 1 Open the Registry Editor.
- 2 Go to HKLM\Software\Novell\ZCM\.
- **3** Add the read-timeout parameter as read-timeout=100000.

Action: To change the default read timeout value of the ZENworks Agent on a Linux managed device, perform the following steps:

- 1 Open /etc/opt/novell/zenworks/conf/xplatzmd.properties in a text editor.
- **2** Add the read-timeout parameter as read-timeout=100000.

By default, the general refresh on a Windows device refreshes both the device and user sessions.

Source: ZENworks; ZENworks Agent.

Explanation: The general refresh on a Windows device from the ZENworks icon or the zac

command utility refreshes both the device and user sessions. You can disable

the general refresh for the device session by setting the value of the

ManualDeviceRefresh registry key to Disabled.

Action: To disable the general refresh for the device session, perform the following

steps:

- 1 Open the Registry Editor.
- **2** Go to HKLM\Software\Novell\ZCM\.
- 3 Set the Manual Device Refresh registry key value to Disabled.

The quick-task execution fails when a policy is assigned to a device.

Source: ZENworks; ZENworks Agent.

Explanation: The quick-task execution fails when a policy is assigned to a device because the

primary server is unable to communicate to the Agent on the Quick Task port.

Possible Causes: The possible causes for this issue could be:

The Agent is switched off.

• The Firewall of the Agent or router prevents communication with the Quick Task port.

 Any security software, such as an antivirus, blocks the communication with the Quick Task port.

If you perform a Remote Desktop access to a Windows 2008 device and keep the console idle, the Remote Desktop connection gets disconnected after 20 seconds.

Source: ZEN works; ZENworks Agent.

Explanation: When you perform a Remote Desktop access to a Windows 2008 device by

using the mstsc command and keep the console idle, the Remote Desktop

connection gets disconnected after 20 seconds.

Action: After connecting to a Remote Desktop, keep the console active until the desktop

screen appears.

The zislnx functionality does not work when the agent is installed through YUM on RHEL6.1 devices and the agent does not read or write the Device GUID and Device Data from or to the Image-safe data on the device.

Source: ZENworks; ZENworks Agent.

Actions: Manually download the ZENworks Agent deployment package from the server

and install the Agent. For more information on installing an Agent, see

"Deploying the ZENworks Agent" in the ZENworks Discovery, Deployment, and

Retirement Reference.

Unable to restart a Windows 7 device when using the Reboot quicktask in the ZENworks Control Center.

Source: ZENworks; ZENworks Agent.

Action: Manually restart the Windows 7 device for the Reboot quicktask to work.

Some garbage characters are displayed on the Mac console, while uninstalling agent from a Mac device.

Source: ZENworks; ZENworks Agent.

Explanation: While uninstalling the ZENworks Agent from a Mac device, some garbage

characters are displayed on the Mac console. This is observed in some localized

languages such as Chinese.

Action: Uninstallation is done by a root user. Hence, the root user's locale needs to be

set. The terminal settings, which include the user locale settings needs to be

 $\ done \ along \ with \ the \ Operating \ System \ settings \ to \ support \ localization.$

User tracking displays different values for user login name

Source: ZENworks; ZENworks Agent.

Explanation: According to the user account configuration, online Active Directory login, or

cached Active Directory login, you can see the User login Id or Active Directory

Full Name of the user for usage tracking.

Action: To have a consistent display of user identity, you can switch the usage tracking

from Full Name mode to User-Id mode:

1 Stop the Novell ZENworks Agent Service.

2 In the Task Manager, terminate the TSUsage32.exe, TSUsage64.exe, and ZCMUMHelpr.exe programs.

3 Open the Registry Editor.

4 Go to HKLM\Software\Novell\ZCM\Usage.

5 Create a string called UMUserFullName and set the value to 0.

6 Start the Novell ZENworks Agent Service.

To change the settings from User-Id to Full Name mode, set the UMUserFullName value to 1.

Agent Package with the Microsoft .NET Framework Fails to Install on the Windows 8 and Windows Server 2012

Source: ZENworks; ZENworks Agent.

Explanation: An agent package with Microsoft .NET Framework fails to install on Windows 8

and Windows Server 2012 device.

Action: You must enable the Microsoft .NET Framework 3.5 before deploying the agent

on Windows 8 and Windows Server 2012 devices.

If your computer is connected to the internet, perform the following steps:

On Windows 8

1 Go to Control Panel > Programs and Features > Turn Windows features on and off.

2 Select Microsoft .NET Framework 3.5 and click OK.

On Windows Server 2012

- 1 Go to Control Panel > Programs and Features > Turn Windows features on and off.
- 2 Click Server Management and click Features.
- 3 Select Microsoft .NET Framework 3.5 and click OK.

NOTE: Installing a Windows language pack on Windows 8 before installing the .NET Framework 3.5 will cause the .NET Framework 3.5 installation to fail. Install the .NET Framework 3.5 before installing any Windows language packs.

ZENworks Agent service crashes

Source: ZENworks; ZENworks Agent.

Explanation: Sometimes ZENworks Agent service crashes due to an internal error in the .NET

Runtime with exit code 80131506 and unable to recover automatically.

Action: You must apply the hotfix (KB2640103) provided by Microsoft support. For more

information, see Microsoft support.

A Mac workstation having ZENworks Agent installed on it is shown as a workstation even after installing a Mac Server App on it

Source: ZENworks; ZENworks Agent

Action: Un-register and re-register the device for it to be listed under Servers.

ZENworks icon is not displaying or rendering content correctly

Source: ZENworks; ZENworks Agent

Action: If zicon (ZENworks icon) is not displaying content properly or it is not working

correctly, you need to restart the zicon services:

 On Windows: Stop and then start the ZenNotifylconService from the Windows services panel, or from C:\Program Files (x86)\Novell\ZENworks\bin\ZenNotifylcon.exe

• On Linux: Stop the zicon process by using the kill <pid> command and then start the zicon process from /opt/novell/zenworks/bin with the ./zicon command.



RPMs for the Linux ZENworks Agent

Agent	RPMs

SLES 10, 32-

Dependency resolution faced with 2 problems.

bash.i586, novell-zenworks-jre-links.noarch, bzip2.i586, expat.i586, glib2.i586, libxml2.i586, popt.i586, rpm.i586, sqlite.i586, zlib.i586, grep.i586, sed.i586, wget.i586, gdbm.i586, ncurses.i586, openssl.i586, readline.i586, net-tools.i586, util-linux.i586, hwinfo.i586, libjpeg.i586, xorg-x11-libs.i586, xinetd.i586, coreutils.i586, findutils.i586, gawk.i586, glibc.i686, gnome-filesystem.i586, fillup.i586, insserv.i586, perl.i586, permissions.i586, susebuild-key.noarch, info.i586, audit-libs.i586, dbus-1.i586, hal.i586, sysfsutils.i586, fontconfig.i586, freetype2.i586, logrotate.i586, tcpd.i586, libacl.i586, libattr.i586, pam.i586, filesystem.i586, mktemp.i586, db.i686, gzip.i586, aaa_base.i586, gpg.i586, libzio.i586, pwdutils.i586, dbus-1-glib.i586, libusb.i586, cracklib.i586, libgcc.i586, libstdc++.i586, aaa_skel.i586, ash.i586, cpio.i586, diffutils.i586, mingetty.i586, sles-release.i586, openldap2-client.i586, libnscd.i586, libxcrypt.i586, openslp.i586, pam-modules.i586, cyrus-sasl.i586

SLES 10, 64bit Dependency resolution faced with 2 problems.

bash.x86_64, novell-zenworks-jre-links.noarch, bzip2.x86_64, expat.x86_64, glib2.x86_64, glib2.x86_64, libxml2.x86_64, popt.x86_64, rpm.x86_64, sqlite.x86_64, zlib.x86_64, grep.x86_64, sed.x86_64, wget.x86_64, gdbm.x86_64, ncurses.x86_64, openssl.x86_64, readline.x86_64, net-tools.x86_64, util-linux.x86_64, hwinfo.x86_64, libjpeg.x86_64, xorg-x11-libs.x86_64, glibc-32bit.x86_64, libjpeg-32bit.x86_64, zlib-32bit.x86_64, xinetd.x86_64, coreutils.x86_64, findutils.x86_64, gawk.x86_64, gnome-filesystem.x86_64, filesystem.x86_64, suse-build-key.noarch, fillup.x86_64, insserv.x86_64, perl.x86_64, permissions.x86_64, info.x86_64, audit-libs.x86_64, dbus-1.x86_64, hal.x86_64, sysfsutils.x86_64, fontconfig.x86_64, freetype2.x86_64, logrotate.x86_64, tcpd.x86_64, libacl.x86_64, libattr.x86_64, pam.x86_64, mktemp.x86_64, gpg.x86_64, dbus-1-glib.x86_64, libacl.x86_64, libacl.x86_64, openIdap2-client.x86_64, libgcc.x86_64, libstdc++.x86_64, libusb.x86_64, cracklib.x86_64, openIdap2-client.x86_64, mingetty.x86_64, sles-release.x86_64, libnscd.x86_64, libxcrypt.x86_64, openslp.x86_64, pam-modules.x86_64, cyrus-sasl.x86_64

SLES 11, 32-

Dependency resolution faced with 2 problems

bash.i586, novell-zenworks-jre-links.noarch, libbz2-1.i586, libexpat1.i586, libglib-2 0-0.i586, libgmodule-2_0-0.i586, libgobject-2_0-0.i586, libsqlite3-0.i586, libxml2.i586, rpm.i586, zlib.i586, grep.i586, sed.i586, wget.i586, gdbm.i586, libncurses5.i586, libopenssl0_9_8.i586, libreadline5.i586, net-tools.i586, util-linux.i586, hwinfo.i586, libavahi-client3.i586, libavahicommon3.i586, libjpeg.i586, xorg-x11-libX11.i586, xorg-x11-libXext.i586, xorg-x11libXfixes.i586, xorg-x11-libs.i586, xinetd.i586, coreutils.i586, findutils.i586, gawk.i586, glibc.i686, glib2.i586, pcre.i586, diffutils.i586, fillup.i586, insserv.i586, libselinux1.i586, perlbase.i586, permissions.i586, popt.i586, info.i586, terminfo-base.i586, audit-libs.i586, libblkid1.i586, libsepol1.i586, libuuid1.i586, util-linux-lang.i586, dbus-1.i586, hal.i586, xorgx11-libXau.i586, xorg-x11-libxcb.i586, fontconfig.i586, freetype2.i586, xorg-x11-libICE.i586, xorg-x11-libSM.i586, xorg-x11-libXmu.i586, xorg-x11-libXp.i586, xorg-x11-libXpm.i586, xorgx11-libXprintUtil.i586, xorg-x11-libXrender.i586, xorg-x11-libXt.i586, xorg-x11-libXv.i586, xorgx11-libfontenc.i586, xorg-x11-libxkbfile.i586, logrotate.i586, tcpd.i586, coreutils-lang.i586, libacl.i586, libattr.i586, pam.i586, filesystem.i586, glib2-lang.i586, glib2-branding-SLES.noarch, libgcc43.i586, libstdc++43.i586, aaa base.i586, libzio.i586, pwdutils.i586, ConsoleKit.i586, PolicyKit.i586, dbus-1-glib.i586, libsmbios2.i586, libusb-0_1-4.i586, libvolume_id1.i586, parted.i586, pciutils.i586, pm-utils.i586, pmtools.i586, setserial.i586, bzip2.i586, cron.i586, cracklib.i586, libdb-4_5.i586, libxcrypt.i586, cpio.i586, login.i586, mingetty.i586, ncurses-utils.i586, psmisc.i586, sles-release.i586, udev.i586, libldap-2_4-2.i586, libnscd.i586, openslp.i586, pam-modules.i586, libgthread-2 0-0.i586, pamconfig.i586, device-mapper.i586, libreiserfs.i586, pciutils-ids.noarch, sysvinit.i586, cracklibdict-full.i586, cpio-lang.i586, sles-release-DVD.i586, cyrus-sasl.i586, postfix.i586, openIdap2client.i586, netcfg.noarch

SLES 11, 64-

Dependency resolution faced with 2 problems

bash.x86_64, novell-zenworks-jre-links.noarch, glibc.x86_64, libbz2-1.x86_64, libexpat1.x86_64, libglib-2_0-0.x86_64, libgmodule-2_0-0.x86_64, libgobject-2_0-0.x86_64, libsqlite3-0.x86_64, libxml2.x86_64, rpm.x86_64,zlib.x86_64, grep.x86_64, sed.x86_64, wget.x86 64, gdbm.x86 64, libncurses5.x86 64, libopenssl0 9 8.x86 64, libreadline5.x86_64, net-tools.x86_64, util-linux.x86_64, hwinfo.x86_64, licenses.noarch, libavahi-client3.x86 64, libavahi-common3.x86 64, libjpeg.x86 64, xorg-x11-libX11.x86 64, xorg-x11-libXext.x86_64, xorg-x11-libXfixes.x86_64, xorg-x11-libs.x86_64, glibc-32bit.x86_64, libjpeg-32bit.x86_64, zlib-32bit.x86_64, xinetd.x86_64, coreutils.x86_64, findutils.x86_64, gawk.x86 64, filesystem.x86 64, glib2.x86 64, pcre.x86 64, diffutils.x86 64, fillup.x86 64, insserv.x86 64, libselinux1.x86 64, perl-base.x86 64, permissions.x86 64, popt.x86 64, info.x86_64, terminfo-base.x86_64, audit-libs.x86_64, libblkid1.x86_64, libsepol1.x86_64, libuuid1.x86_64, util-linux-lang.x86_64, dbus-1.x86_64, hal.x86_64, xorg-x11-libXau.x86_64, xorg-x11-libxcb.x86_64, fontconfig.x86_64, freetype2.x86_64, xorg-x11-libICE.x86_64, xorgx11-libSM.x86_64, xorg-x11-libXmu.x86_64, xorg-x11-libXpm.x86_64, xorg-x11-libXpm.x86_64, xorg-x11-libXprintUtil.x86 64, xorg-x11-libXrender.x86 64, xorg-x11-libXt.x86 64, xorg-x11libXv.x86_64, xorg-x11-libfontenc.x86_64, xorg-x11-libxkbfile.x86_64, logrotate.x86_64, tcpd.x86 64, coreutils-lang.x86 64, libacl.x86 64, libattr.x86 64, pam.x86 64, glib2branding-SLES.noarch, glib2-lang.x86_64, libgcc43.x86_64, libstdc++43.x86_64, aaa_base.x86_64, libzio.x86_64, pwdutils.x86_64, ConsoleKit.x86_64, PolicyKit.x86_64, dbus-1-glib.x86 64, libsmbios2.x86 64, libusb-0 1-4.x86 64, libvolume id1.x86 64, parted.x86 64, pciutils.x86 64, pm-utils.x86 64, pmtools.x86 64, setserial.x86 64, bzip2.x86 64, cron.x86 64, cracklib.x86 64, libdb-4 5.x86 64, libxcrypt.x86 64, cpio.x86_64, login.x86_64, mingetty.x86_64, ncurses-utils.x86_64, psmisc.x86_64, slesrelease.x86_64, udev.x86_64, libldap-2_4-2.x86_64, libnscd.x86_64, openslp.x86_64, pammodules.x86_64, libgthread-2_0-0.x86_64, pam-config.x86_64, device-mapper.x86_64, libreiserfs.x86 64, pciutils-ids.noarch, sysvinit.x86 64, cracklib-dict-full.x86 64, cpiolang.x86_64, sles-release-DVD.x86_64, cyrus-sasl.x86_64, postfix.x86_64, netcfg.noarch, openIdap2-client.x86 64

SLES 12, 64-

filesystem, libX11-data.noarch, terminfo-base, insserv-compat.noarch, file-magic, cracklibdict-full, hicolor-icon-theme.noarch, sles-release-DVD, xbitmaps.noarch, libthai-data, branding-SLE.noarch, desktop-translations.noarch, libicu52 1-data, libnl-config.noarch, glibc, dmz-icon-theme-cursors.noarch, mozilla-nspr, libnl3-200, libfastjson4, libestr0, libxtables10, libmnl0, libfuse2, libvpx1, libltdl7, libexif12, libcdio14, traceroute, libdatrie1, libgraphite2-3, liblcms2-2, libavahi-common3, libepoxy0, libogg0, libspeex1, fribidi, adjtimex, hardlink, libelf0, libsasl2-3, libverto1, libkeyutils1, libcom_err2, libaio1, libidn11, libdbus-1-3, libjbig2, libsamplerate0, libasound2, libpciaccess0, libseccomp2, libgrencode3, libgpg-error0, libapparmor1, libpython2 7-1 0, libwrap0, libICE6, libxshmfence1, libdrm2, libX11-xcb1, Mesa-libglapi0, pkg-config, libpixman-1-0, libnettle4, libXvnc1, libXdmcp6, libustr-1_0-1, libsepol1, libXau6, libuuid1, libsmartcols1, libcap-ng0, libaudit1, libx86emu1, libpopt0, liblua5_1, libelf1, libbz2-1, fillup, liblzma5, libpcre1, libgcc_s1, perl-base, libkmod2, libgmp10, libcap2, libattr1, libsqlite3-0, libexpat1, libyaml-0-2, libgdbm4, libffi4, dmidecode, libz1, libjpeg8, libcdio cdda1, net-tools, libthai0, libvorbis0, libavahi-client3, alsa-plugins, libgcrypt20, libdrm radeon1, libdrm nouveau2, libdrm intel1, libdrm amdgpu1, libxcb1, libSM6, libblkid1, libasm1, libselinux1, libglib-2_0-0, libstdc++6, libmpfr4, libisl10, libhogweed2, libacl1, libgbm1, expat, libp11-kit0, libdw1, pigz, luit, libpng16-16, libfontenc1, libzio1, libmagic1, libpci3, libxml2-2, libjasper1, libcdio_paranoia1, libvorbisenc2, libxcbxfixes0, libxcb-shm0, libxcb-render0, libxcb-sync1, libxcb-present0, libxcb-glx0, libxcb-dri3-0, libxcb-dri2-0, libX11-6, libfdisk1, libudev1, libsystemd0, libmount1, libsemanage1, glib2lang.noarch, libmozjs-17 0, libmodman1, libtiff5, libncurses6, libncurses5, libdb-4 8, libmpc3, libcloog-isl4, libfreetype6, file, Mesa-libEGL1, libXcomposite1, libXt6, libXpm4, libXrender1, xmodmap, libXmuu1, libXdamage1, libXfixes3, libXext6, libatasmart4, libusb-1 0-0, liblogging0, libavahi-glib1, libcroco-0 6-3, libgmodule-2 0-0, libgobject-2 0-0, libproxy1, libdialog11, libedit0, ncurses-utils, perl, cpp48, libbluray1, libharfbuzz0, mkfontscale, ft2demos, libXfont1, libXcursor1, libXi6, libXmu6, libXrandr2, libXinerama1, libXxf86vm1, xauth, libXtst6, libusb-0_1-4, libmtp9, libgudev-1_0-0

libatspi0, libatk-1_0-0, dialog, libLLVM, libreadline6, perl-XML-XPathEngine.noarch, perl-Tie-IxHash.noarch, perl-X11-Protocol, perl-gettext, perl-XML-Parser, xsetroot, libXaw7, Mesa, bash, perl-XML-XPath, Mesa-libGL1, info, perl-XML-Twig.noarch, readline-doc.noarch, perl-Net-DBus, bash-doc.noarch, libxml2-tools, libwicked-0-6, iproute2, bash-completion.noarch, mkfontdir, time, xz, gzip, elfutils, cpp, findutils, cpio, gdk-pixbuf-query-loaders, fontconfig, python-base, libcrack2, libtasn1-6, sed, grep, diffutils, hwinfo, which, coreutils, systemd-bashcompletion.noarch, xz-lang.noarch, xrdb, cpio-lang.noarch, gd, libcairo2, libXft2, pythonpycparser.noarch, python-pyasn1.noarch, python-ipaddress.noarch, python-idna.noarch, python-enum34.noarch, cracklib, libtasn1, sed-lang.noarch, xdg-utils.noarch, coreutilslang.noarch, libcairo-gobject2, libpango-1_0-0, python-cffi, libgnutls28, p11-kit-tools, p11-kit, timezone, blog, shared-mime-info, kbd, systemd-presets-branding-SLE.noarch, sles-release, update-alternatives, xkeyboard-config.noarch, permissions, pciutils-ids.noarch, rpm, libopenssl1 0 0, libicu52 1, sysvinit-tools, dbus-1-x11, wallpaper-branding-SLE.noarch, gawk, xkeyboard-config-lang.noarch, pam, libutempter0, pciutils, openssl, gptfdisk, libgio-2_0-0, desktop-data-SLE.noarch, libxkbfile1, pam-config, util-linux, alsa-utils, ca-certificates.noarch, glib2-tools, setxkbmap, xkbcomp, util-linux-lang.noarch, alsa, ca-certificates-mozilla.noarch

continued...

SLES 12, 64-

gio-branding-SLE.noarch, fuse, aaa_base, libarchive13, libFLAC8, libssh2-1, libldap-2_4-2, libfipscheck1, python, libgoa-1_0-0, gcr-data, libsecret-1-0, libjson-glib-1_0-0, libcolord2, gtk3-data.noarch, libgdk_pixbuf-2_0-0, netcfg.noarch, libsndfile1, fipscheck, pythonsix.noarch, libsecret-lang.noarch, json-glib-lang.noarch, gdk-pixbuf-lang.noarch, shadow, python-cryptography, libgck-1-0, librsvg-2-2, liblockdev1, kmod-compat, dbus-1, pythonpyOpenSSL.noarch, gdk-pixbuf-loader-rsvg, lockdev, at-spi2-core, dconf, libcryptsetup4, libgphoto2-6, libatk-bridge-2_0-0, libdconf1, libcurl4, libgphoto2-6-lang.noarch, gsettingsbackend-dconf, systemd, krb5, liboauth0, cups-libs, device-mapper, systemd-sysvinit, susemodule-tools, udev, dracut, kmod, logrotate, aaa base-extras, util-linux-systemd, wicked, wicked-service, sysconfig, sysconfig-netconfig, syslog-service.noarch, rsyslog, postfix, cron, libpolkit0, cronie, cantarell-fonts.noarch, xterm, fonts-config.noarch, xinetd, polkit, gsettingsdesktop-schemas, xdg-menu.noarch, xinit, xorg-x11-fonts-core.noarch, polkit-defaultprivs.noarch, libudisks2-0, gsettings-desktop-schemas-lang.noarch, udisks2, glib-networking, udisks2-lang.noarch, glib-networking-lang.noarch, libsoup-2_4-1, libsoup-lang.noarch, librest0, gtk3-tools, adwaita-icon-theme.noarch, libgtk-3-0, icewm-default, libgcr-3-1, icewm, gcr-prompter, icewm-lite, libgdata22, icewm-theme-branding.noarch, gvfs, gvfs-backends, gvfs-fuse, gvfs-lang.noarch, gcr-lang.noarch, gtk3-lang.noarch, gcr-viewer

Agent

RPMs

SLES 15 64hit

boost-license1_66_0.noarch, firewall-macros.noarch, libX11-data.noarch, libicu60_2ledata.noarch, system-user-root.noarch, terminfo-base, file-magic.noarch, libtirpc-netconfig, kbd-legacy.noarch, xbitmaps.noarch, hicolor-icon-theme.noarch, gtk3-data.noarch, gtk3schema.noarch, libthai-data, cracklib-dict-full, desktop-translations.noarch, publicsuffix.noarch, branding-SLE.noarch, gtk2-data.noarch, filesystem, dmz-icon-themecursors.noarch, glibc, libpcre1, libselinux1, glibc-extra, libfuse2, libwebp6, libltdl7, libexif12, libnfs8, libcdio16, traceroute, libplist3, adjtimex, libdatrie1, libgraphite2-3, libavahicommon3, liblcms2-2, libwayland-egl1, libepoxy0, libjbig2, libspeex1, libogg0, libfribidi0, libsamplerate0, libasound2, hardlink, libICE6, libsmartcols1, libjson-c3, libargon2-1, libcapng0, libustr-1_0-1, libsepol1, libsasl2-3, libverto1, libkeyutils1, libcom_err2, libseccomp2, libgrencode4, liblz4-1, libgpg-error0, libapparmor1, libaudit1, libunistring2, pkg-config, libx86emu1, perl-base, libpopt0, liblua5_3-5, libbz2-1, fillup, liblzma5, libgmp10, libcap2, libattr1, libnghttp2-14, libuuid1, libpixman-1-0, libnettle6, libXvnc1, libXdmcp6, libXau6, libsqlite3-0, libglib-2 0-0, libexpat1, libyaml-0-2, libgdbm4, libffi7, libgcc s1, libz1, libjpeg8, libcdio cdda2, libusbmuxd4, libthai0, libvorbis0, libFLAC8, alsa-plugins, krb5, libgcrypt20, libidn2-0, libsemanage1, libmpfr6, libisl15, libudev1, libacl1, libSM6, libblkid1, libhogweed4, libxcb1, glib2-lang.noarch, expat, libwayland-client0, libp11-kit0, libstdc++6, libpci3, pigz, libpng16-16, libzio1, libkmod2, libfontenc1, libmagic1, libelf1, libxml2-2, libcdio_paranoia2, libvorbisenc2, libtirpc3, libsystemd0, libpsl5, libmpc3, libatasmart4, libusb-1 0-0, libfdisk1, libmount1, libxcb-shm0, libxcb-render0, libX11-6, libavahi-glib1, libgmodule-2 0-0, libgobject-2_0-0, libwayland-cursor0, libmozjs-52, libmodman1, libtiff5, libdb-4_8, libncurses6, libboost system1 66 0, libfreetype6

file, libdw1, libcroco-0 6-3, libsndfile1, libnsl2, libdbus-1-3, cpp7, libXcomposite1, libXrender1, libXt6, libXpm4, xmodmap, libXmuu1, libglvnd, libXdamage1, libXfixes3, libXext6, libgudev-1_0-0, libatk-1_0-0, libproxy1, perl, ncurses-utils, libboost_thread1_66_0, mkfontscale, libharfbuzz0, fontconfig, libXfont2-2, libebl-plugins, hostname, libavahi-client3, libatspi0, libGLU1, libXcursor1, libXxf86vm1, libXxf86misc1, libXi6, libXrandr2, libXinerama1, libXmu6, xauth, libXtst6, atk-lang.noarch, perl-TimeDate.noarch, perl-HTML-Tagset.noarch, perl-IO-HTML.noarch, perl-URI.noarch, perl-Try-Tiny.noarch, perl-LWP-MediaTypes.noarch, perl-Encode-Locale.noarch, perl-Devel-Symdump.noarch, perl-Test-Pod.noarch, perl-CPAN-Changes.noarch, perl-X11-Protocol, perl-gettext, gptfdisk, libdialog14, libreadline7, libgd3, libbluray2, libcairo2, libXft2, libasm1, net-tools, xsetroot, libXaw7, perl-HTTP-Date.noarch, perl-WWW-RobotRules.noarch, perl-Net-HTTP.noarch, perl-Pod-Coverage.noarch, dialog, bash, libcairo-gobject2, libpango-1 0-0, net-tools-lang.noarch, perl-HTTP-Message.noarch, perl-File-Listing.noarch, perl-Test-Pod-Coverage.noarch, dialog-lang.noarch, info, perl-HTML-Parser, perl-HTTP-Negotiate.noarch, perl-HTTP-Daemon.noarch, perl-HTTP-Cookies.noarch, readline-doc.noarch, bash-doc.noarch, libxml2-tools, bash-lang.noarch, gcr-data, time, mkfontdir, bash-completion.noarch, shared-mime-info, gdk-pixbuf-query-loaders, which, xz, gzip, elfutils, cpp, sed, libdevmapper1_03, findutils, libcrack2, libtasn1-6, grep, diffutils, hwinfo, coreutils, systemd-bash-completion.noarch, shared-mime-info-lang.noarch, xzlang.noarch, elfutils-lang.noarch

xrdb, sed-lang.noarch, libcryptsetup12, findutils-lang.noarch, cracklib, libtasn1, grep-lang.noarch, diffutils-lang.noarch, coreutils-lang.noarch, libpwquality1, p11-kit-tools, p11-kit, libgnutls30, issue-generator.noarch, pciutils-ids.noarch, blog, kmod, systemd-presets-branding-SLE.noarch, netcfg.noarch, permissions, timezone, xkeyboard-config.noarch, rpm, update-alternatives, libpwquality-lang.noarch, libopenssl1_1, pciutils, sysvinit-tools, pam, libicu60_2, xkeyboard-config-lang.noarch, kmod-compat, dbus-1-x11, wallpaper-branding-SLE.noarch, gawk, cryptsetup, openssl-1_1, alsa-utils, pam-config, kbd, shadow, libxkbcommon0, libxkbfile1, openssl.noarch, alsa, liblockdev1, sysuser-shadow.noarch, dbus-1, xclock, setxkbmap, xkbcomp, ca-certificates.noarch, lockdev, system-group-hardware.noarch, gio-branding-SLE.noarch, ca-certificates-mozilla.noarch, system-user-lp.noarch, libutempter0, glib2-tools, libarchive13, perl-Net-SSLeay, libimobiledevice6, dump-rmt, libssh4, libldap-2 4-2,

cups-config, xterm-bin, util-linux, libgio-2_0-0, perl-IO-Socket-SSL.noarch, cpio, libcurl4, libcups2, xinit, util-linux-lang.noarch, libgoa-1 0-0, libsecret-1-0, dconf, at-spi2-core, libjsonglib-1_0-0, libcolord2, libgdk_pixbuf-2_0-0, perl-libwww-perl.noarch, cpio-lang.noarch, liboauth0, fuse, libsecret-lang.noarch, libdconf1, at-spi2-atk-common, at-spi2-corelang.noarch, libatk-bridge-2_0-0, json-glib-lang.noarch, gdk-pixbuf-lang.noarch, perl-LWP-Protocol-https.noarch, cpio-mt, gsettings-backend-dconf, at-spi2-atk-gtk2, libgck-1-0, gdkpixbuf-thumbnailer, librsvg-2-2, perl-XML-Parser, systemd, gdk-pixbuf-loader-rsvg, perl-XML-Twig.noarch, logrotate, systemd-sysvinit, perl-Net-DBus, udev, xdg-utils.noarch, libpolkit0, util-linux-systemd, sles-release, desktop-data-SLE.noarch, polkit, aaa base, xdg-menu.noarch, libudisks2-0, polkit-default-privs.noarch, google-opensans-fonts.noarch, dejavu-fonts.noarch, udisks2, release-notes-sles.noarch, udisks2-lang.noarch, aaa base-extras, cantarellfonts.noarch, dracut, fonts-config.noarch, gsettings-desktop-schemas, suse-module-tools, xorg-x11-fonts-core.noarch, gsettings-desktop-schemas-lang.noarch, libmtp9, libgphoto2-6, glib-networking, libmtp-udev, libgphoto2-6-lang.noarch, glib-networking-lang.noarch, libsoup-2 4-1, libsoup-lang.noarch, librest-0 7-0, gtk3-tools, adwaita-icon-theme.noarch, libgtk-3-0, libgcr-3-1, , gcr-prompter, libgdata22, gvfs, gvfs-backends, gvfs-fuse, gvfslang.noarch, gvfs-backend-afc, gcr-lang.noarch, gtk2-tools, libgtk-2_0-0, gtk2-themingengine-adwaita, metatheme-adwaita-common.noarch, gtk2-metatheme-adwaita.noarch, gtk2-branding-SLE.noarch, gtk3-metatheme-adwaita.noarch, gtk2-lang.noarch, gtk3branding-SLE.noarch, libglade-2 0-0, gtk3-lang.noarch, xscreensaver-data, gcr-viewer, polkitgnome, xscreensaver, polkit-gnome-lang.noarch, xscreensaver-lang.noarch, icewm-themebranding.noarch, icewm-default, icewm, icewm-lang.noarch, xorg-x11-Xvnc

RHEL 5, 32- Dependency resolution faced with 6 problems bit

bash.i386, glibc.i686, zlib.i386, libtermcap.i386, ncurses.i386, readline.i386, gdbm.i386, coreutils.i386, openssl.i686, net-tools.i386, util-linux.i386, libjpeg.i386, libxml2.i386, sed.i386, gawk.i386, grep.i386, findutils.i386, libsysfs.i386, mktemp.i386, basesystem.noarch, glibc-common.i386, libgcc.i386, termcap.noarch, info.i386, libacl.i386, libselinux.i386, pam.i386, e2fsprogs-libs.i386, krb5-libs.i386, chkconfig.i386, audit-libs.i386, popt.i386, udev.i386, pcre.i386, setup.noarch, filesystem.i386, tzdata.noarch, libattr.i386, libsepol.i386, mcstrans.i386, cracklib-dicts.i386, cracklib.i386, device-mapper.i386, keyutils-libs.i386, MAKEDEV.i386, libstdc++.i386, libcap.i386, initscripts.i386, python.i386, shadow-utils.i386, glib2.i386, procps.i386, iproute.i386, iputils.i386, ethtool.i386, mingetty.i386, redhat-release.i386, psmisc.i386, e2fsprogs.i386, module-init-tools.i386, SysVinit.i386, bzip2-libs.i386, db4.i386, rsyslog.i386, logrotate.i386

Agent

RPMs

RHEL 5, 64-

Dependency resolution faced with 14 problems

bash.x86 64, glibc.x86 64, zlib.x86 64, libtermcap.x86 64, ncurses.x86 64, readline.x86 64, gdbm.x86_64, coreutils.x86_64, openssl.x86_64, net-tools.x86_64, util-linux.x86_64, sed.x86_64, gawk.x86_64, grep.x86_64, findutils.x86_64, libsysfs.x86_64, libxml2.x86_64, mktemp.x86 64, basesystem.noarch, glibc-common.x86 64, libgcc.x86 64, termcap.noarch, info.x86 64, libattr.x86 64, libacl.x86 64, libselinux.x86 64, pam.x86 64, e2fsprogslibs.x86 64, krb5-libs.x86 64, chkconfig.x86 64, audit-libs.x86 64, popt.x86 64, udev.x86_64, pcre.x86_64, setup.noarch, filesystem.x86_64, tzdata.noarch, libsepol.x86_64, mcstrans.x86 64, cracklib-dicts.x86 64, shadow-utils.x86 64, cracklib.x86 64, devicemapper.x86 64, keyutils-libs.x86 64, MAKEDEV.x86 64, libstdc++.x86 64, libcap.x86 64, initscripts.x86 64, python.x86 64, glib2.x86 64, procps.x86 64, iproute.x86 64, iputils.x86 64, ethtool.x86 64, mingetty.x86 64, redhat-release.x86 64, psmisc.x86 64, e2fsprogs.x86 64, SysVinit.x86 64, module-init-tools.x86 64, bzip2-libs.x86 64, db4.x86 64, binutils.x86_64, mkinitrd.x86_64, nash.x86_64, cpio.x86_64, hmaccalc.x86_64, gzip.x86_64, tar.x86_64, kpartx.x86_64, device-mapper-multipath.x86_64, lvm2.x86_64, dmraid.x86_64, nspr.x86 64, nss.x86 64, less.x86 64, device-mapper-event.x86 64, dmraid-events.x86 64, sgpio.x86_64, rsyslog.x86_64, logrotate.x86_64

RHEL 6, 32bit

bash.i686, grep.i686, sed.i686, wget.i686, gdbm.i686, glibc.i686, zlib.i686, db4.i686, ncurseslibs.i686, openssl.i686, util-linux-ng.i686, net-tools.i686, libXext.i686, libjpeg.i686, libX11.i686, libXtst.i686, libxml2.i686, gawk.i686, findutils.i686, coreutils.i686, hal.i686, hallibs.i686, dbus.i686, dbus-libs.i686, libsysfs.i686, readline.i686, pcre.i686, info.i686, libselinux.i686, nss-softokn-freebl.i686, glibc-common.i686, libgcc.i686, basesystem.noarch, ncurses-base.i686, krb5-libs.i686, ca-certificates.noarch, libcom err.i686, libsepol.i686, pam.i686, libutempter.i686, udev.i686, audit-libs.i686, libblkid.i686, libuuid.i686, popt.i686, libxcb.i686, libX11-common.noarch, libXi.i686, libcap.i686, libacl.i686, ncurses.i686, libattr.i686, gmp.i686, coreutils-libs.i686, glib2.i686, initscripts.i686, dbus-glib.i686, dmidecode.i686, libusb.i686, ConsoleKit.i686, acl.i686, expat.i686, chkconfig.i686, pciutilslibs.i686, pm-utils.i686, shadow-utils.i686, hal-info.noarch, cryptsetup-luks.i686, libcapng.i686, libstdc++.i686, tzdata.noarch, setup.noarch, filesystem.i686, keyutils-libs.i686, cracklib.i686, cracklib-dicts.i686, sysvinit-tools.i686, hwdata.noarch, MAKEDEV.i686, libXau.i686, gamin.i686, upstart.i686, iputils.i686, mingetty.i686, cpio.i686, redhat-releaseserver.i686, iproute.i686, module-init-tools.i686, procps.i686, psmisc.i686, ethtool.i686, polkit.i686, ConsoleKit-libs.i686, hdparm.i686, kbd.i686, cryptsetup-luks-libs.i686, gzip.i686, libnih.i686, libidn.i686, iptables.i686, binutils.i686, eggdbus.i686, kbd-misc.noarch, devicemapper-libs.i686, libgpg-error.i686, libgcrypt.i686, less.i686, device-mapper.i686, ibudev.i686, xinetd.i686, tcp wrappers-libs.i686

RHEL 6, 64-

bash.x86_64, sed.x86_64, grep.x86_64, wget.x86_64, openssl.x86_64, ncurses-libs.x86_64, glibc.x86 64, gdbm.x86 64, zlib.x86 64, db4.x86 64, util-linux-ng.x86 64, net-tools.x86 64, libjpeg.x86 64, libXext.x86 64, libX11.x86 64, libXtst.x86 64, coreutils.x86 64, gawk.x86 64, findutils.x86 64, dbus.x86 64, dbus-libs.x86 64, hal-libs.x86 64, hal.x86 64, libsysfs.x86_64, libxml2.x86_64, info.x86_64, libselinux.x86_64, pcre.x86_64, krb5libs.x86_64, ca-certificates.noarch, libcom_err.x86_64, ncurses-base.x86_64, libgcc.x86_64, glibc-common.x86_64, nss-softokn-freebl.x86_64, basesystem.noarch, libblkid.x86_64, auditlibs.x86_64, libutempter.x86_64, popt.x86_64, pam.x86_64, libsepol.x86_64, libuuid.x86_64, udev.x86 64, libX11-common.noarch, libxcb.x86 64, libXi.x86 64, coreutils-libs.x86 64, libattr.x86_64, ncurses.x86_64, libcap.x86_64, libacl.x86_64, gmp.x86_64, expat.x86_64, chkconfig.x86 64, shadow-utils.x86 64, libcap-ng.x86 64, glib2.x86 64, cryptsetupluks.x86_64, pciutils-libs.x86_64, libusb.x86_64, pm-utils.x86_64, dbus-glib.x86_64, initscripts.x86 64, ConsoleKit.x86 64, hal-info.noarch, acl.x86 64, dmidecode.x86 64, freetype.x86 64, libXdmcp.x86 64, libXau.x86 64, readline.x86 64, libstdc++.x86 64, keyutils-libs.x86 64, tzdata.noarch, filesystem.x86 64, setup.noarch, cracklib.x86 64, cracklib-dicts.x86_64, sysvinit-tools.x86_64, hwdata.noarch, MAKEDEV.x86_64, gamin.x86_64, cryptsetup-luks-libs.x86_64, kbd.x86_64, hdparm.x86_64, redhat-releaseserver.x86_64, module-init-tools.x86_64, procps.x86_64, ethtool.x86_64, upstart.x86_64, mingetty.x86_64, iproute.x86_64, cpio.x86_64, psmisc.x86_64, iputils.x86_64, ConsoleKitlibs.x86 64, polkit.x86 64, gzip.x86 64, libgcrypt.x86 64, device-mapper-libs.x86 64, libgpgerror.x86_64, kbd-misc.noarch, binutils.x86_64, libnih.x86_64, iptables.x86_64, libidn.x86 64, eggdbus.x86 64, less.x86 64, device-mapper.x86 64, libudev.x86 64, xinetd.x86_64, tcp_wrappers-libs.x86_64

RHEL 7, 64bit

libgcc, libX11-common.noarch, redhat-release-server, ncurses-base.noarch, tzdata.noarch, tigervnc-license.noarch, xkeyboard-config.noarch, mesa-filesystem, setup.noarch, bash, filesystem, basesystem.noarch, glibc, nss-softokn-freebl, libsepol, libstdc++, pcre, libselinux, glibc-common, ncurses-libs, tcp wrappers-libs, libnfnetlink, libmnl, mesa-libglapi, sysvinittools, hostname, pixman, libxshmfence, libXdmcp, libICE, freetype, hardlink, popt, libverto, keyutils-libs, libtasn1, nspr, expat, dbus-libs, libuuid, libgpg-error, ustr, libcap-ng, libXau, libcom_err, pciutils-libs, xz-libs, qrencode-libs, bzip2-libs, ncurses, libattr, gmp, libffi, libdb, gdbm, dmidecode, zlib, libjpeg-turbo, libnetfilter conntrack, chkconfig, nss-util, libSM, libgcrypt, audit-libs, libxcb, xz, libcap, libacl, p11-kit, libdb-utils, cyrus-sasl-lib, mesa-privatellvm, libfontenc, libxml2, kmod-libs, elfutils-libelf, info, iptables, libsemanage, libX11, acl, p11kit-trust, libXfont, pkgconfig, elfutils-libs, nettle, tar, findutils, libidn, cpio, sed, gawk, diffutils, grep, readline, which, iproute, libxkbfile, libXfixes, libXext, ca-certificates.noarch, glib2, lua, sqlite, xorg-x11-xkb-utils, libXdamage, libXxf86vm, libXi, openssl-libs, shared-mime-info, nsssoftokn, libXtst, coreutils, krb5-libs, python-libs, nss-sysinit, libssh2, gzip, binutils, libblkid, shadow-utils, python, nss, cracklib, libmount, libutempter, nss-tools, cracklib-dicts, rpm, libpwquality, rpm-libs, pam, openIdap, systemd-libs, libcurl, procps-ng, curl, libuser, util-linux, kmod, virt-what, cryptsetup-libs, systemd, dbus, device-mapper-libs, device-mapper, kpartx, dracut, systemd-sysv, iputils, trousers, hwdata, initscripts, gnutls, libpciaccess, pciutils, libdrm, mesa-libGL, mesa-dri-drivers

RHEL 8, 64-

python3-newt.x86_64, geolite2-city.noarch, cronie.x86_64, redhat-release-eula.x86_64, NetworkManager.x86 64, basesystem.noarch, policycoreutils.x86 64, pcre2.x86 64, passwd.x86 64, glibc-common.x86 64. selinux-policy-targeted.noarch. zlib.x86 64, timedatex.x86 64, bzip2-libs.x86 64, python3-linux-procfs.noarch, popt.x86 64, python3libselinux.x86_64, readline.x86_64, python3-perf.x86_64, libgcrypt.x86_64, python3asn1crypto.noarch, libcap-ng.x86_64, python3-pycparser.noarch, which.x86_64, python3rhnlib.noarch, libunistring.x86_64, bind-export-libs.x86_64, libnl3.x86_64, rpm-pluginsystemd-inhibit.x86_64, libacl.x86_64, pciutils.x86_64, pcre.x86_64, libgudev.x86_64, libxslt.x86 64, plymouth.x86 64, gdbm-libs.x86 64, python3-slip-dbus.noarch, libcollection.x86_64, python3-firewall.noarch, xmlsec1.x86_64, gnupg2.x86_64, libksba.x86 64, python3.x86 64, ethtool.x86 64, rpm-build-libs.x86 64, libnfnetlink.x86 64, python3-rhn-client-tools.x86_64, p11-kit-trust.x86_64, dnf-plugins-core.noarch, squashfstools.x86 64, rhn-check.x86 64, gdbm.x86 64, python3-subscription-manager-rhsm.x86 64, tar.x86_64, sssd-kcm.x86_64, ipset-libs.x86_64, tuned.noarch, libmetalink.x86_64, open-vmtools.x86 64, e2fsprogs-libs.x86 64, authselect.x86 64, freetype.x86 64, kernel.x86 64, brotli.x86_64, microcode_ctl-20180807a.x86_64, hdparm.x86_64, parted.x86_64, libpath_utils.x86_64, man-db.x86_64, libpipeline.x86_64, lshw-B.02.18.x86_64, libpcap.x86_64, langpacks-en.noarch, nftables.x86_64, iwl6000g2a-firmware.noarch, libsss autofs.x86 64, iwl4965-firmware.noarch, libverto.x86 64, iwl2000-firmware.noarch, numactl-libs.x86 64, iwl100-firmware.noarch, libfastjson.x86 64, perl-Exporter.noarch, libxkbcommon.x86_64, perl-parent.noarch, kbd-misc.noarch, perl-threads-shared.x86_64, firewalld-filesystem.noarch, perl-constant.noarch, libssh.x86 64, libXau.x86 64, libkcapihmaccalc.x86_64, libXfixes.x86_64, openssl.x86_64, libXrender.x86_64, cracklib.x86_64, avahi-libs.x86 64, procps-ng.x86 64, libX11-xcb.x86 64, grub2-tools-minimal.x86 64, libglvnd-glx.x86 64, rpm.x86 64, pixman.x86 64, glib2.x86 64, tigervnc-license.noarch, systemd-libs.x86 64, ca-certificates.noarch, kmod.x86 64, systemd-pam.x86 64, pam.x86_64, openssl-libs.x86_64, grub2-tools.x86_64, systemd-udev.x86_64, platformpython.x86_64, json-glib.x86_64, python3-iniparse.noarch, polkit-libs.x86_64m, libgcc.x86 64, polkit-pkla-compat.x86 64, geolite2-country.noarch, python3syspurpose.x86 64, tzdata-2018i.noarch, crontabs.noarch, subscription-manager-rhsmcertificates.x86 64, cronie-anacron.x86 64, redhat-release.x86 64, NetworkManagerlibnm.x86_64, filesystem.x86_64, ima-evm-utils.x86_64, publicsuffix-list-dafsa.noarch, libsss certmap.x86 64, ncurses-base.noarch, virt-what.x86 64, libselinux.x86 64, libldb.x86_64, glibc-langpack-en.x86_64, usermode.x86_64, glibc.x86_64, selinuxpolicy.noarch, libsepol.x86 64, unbound-libs.x86 64, xz-libs.x86 64

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kernel-modules.x86_64, info.x86_64, device-mapper-event.x86_64, libcom_err.x86_64, python3-configobj.noarch, libxcrypt.x86 64, python3-pyudev.noarch, libcap.x86 64, python3-libcomps.x86_64, libstdc++.x86_64, python3-slip.noarch, elfutils-libelf.x86_64, python3-dmidecode.x86_64, chkconfig.x86_64, python3-schedutils.x86_64, libffi.x86_64, kernel-tools.x86_64, gmp.x86_64, python3-idna.noarch, audit-libs.x86_64, python3ply.noarch, lua-libs.x86_64, python3-cffi.x86_64, p11-kit.x86_64, python3pyOpenSSL.noarch, findutils.x86_64, python3-hwdata.noarch, libidn2.x86_64, grub2-toolsextra.x86_64, json-c.x86_64, fipscheck-lib.x86_64, libassuan.x86_64, openssh.x86_64, libattr.x86 64, xmlsec1-openssl.x86 64, sed.x86 64, dracut-squash.x86 64, lz4-libs.x86 64, dhcp-libs.x86_64, grep.x86_64, dracut-network.x86_64, libsemanage.x86_64, libusbx.x86 64, libtdb.x86 64, plymouth-scripts.x86 64, file.x86 64, logrotate.x86 64, keyutils-libs.x86_64, python3-dbus.x86_64, libbasicobjects.x86_64, teamd.x86_64, libref array.x86 64, python3-gobject-base.x86 64, pciutils-libs.x86 64, libsecret.x86 64, libnl3-cli.x86 64, gnupg2-smime.x86 64, nettle.x86 64, gpgme.x86 64, diffutils.x86 64, libdnf.x86_64, cpio.x86_64, python3-hawkey.x86_64, fuse-libs.x86_64, python3-gpg.x86_64, libedit.x86_64, python3-rpm.x86_64, libseccomp.x86_64, dnf.noarc, libtasn1.x86_64, rhnclient-tools.x86_64, lzo.x86_64, dnf-plugin-subscription-manager.x86_64, newt.x86_64, python3-dnf-plugin-spacewalk.noarch, libnetfilter_conntrack.x86_64, python3-rhncheck.x86_64, device-mapper-persistent-data.x86_64, rhnsd.x86_64, xz.x86_64, rhnsetup.x86 64, acl.x86 64, libnfsidmap.x86 64, vim-minimal.x86 64, sssdcommon.x86_64libpsl.x86_64, subscription-manager.x86_64, ipset.x86_64, firewalld.noarch, libcomps.x86 64, NetworkManager-team.x86 64, libicu.x86 64, kexec-tools.x86 64, snappy.x86_64, openssh-clients.x86_64, libss.x86_64, grub2.x86_64, libpng.x86_64, rhnlib.noarch, pigz.x86 64, chrony.x86 64, less.x86 64, NetworkManager-tui.x86 64, cares.x86 64, hardlink.x86 64, libdaemon.x86 64, libnghttp2.x86 64, libini config.x86 64, libdrm.x86 64, libpkgconf.x86 64, pkgconf-pkg-config.x86 64, iptables-libs.x86 64, iptablesebtables.x86_64, libselinux-utils.x86_64, gawk.x86_64, libsss_nss_idmap.x86_64, libsysfs.x86_64, libyaml.x86_64, npth.x86_64, sg3_utils-libs.x86_64, libestr.x86_64, libmaxminddb.x86 64, libmspack.x86 64,

continued...

Agent

RPMs

linux-firmware-20190111.noarch, dnf-data.noarch, kbd-legacy.noarch, fuse.x86_64, dhcpcommon.noarch, cyrus-sasl-lib.x86 64, openIdap.x86 64, libkcapi.x86 64, libarchive.x86 64, curl.x86_64, elfutils-default-yama-scope.noarch, gzip.x86_64, cracklib-dicts.x86_64, libcroco.x86 64, krb5-libs.x86 64, libnsl2.x86 64, kpartx.x86 64, openssl-pkcs11.x86 64, libfdisk.x86_64, gettext.x86_64, dbus-libs.x86_64, coreutils.x86_64, libblkid.x86_64, shadowutils.x86_64, dbus-daemon.x86_64, shared-mime-info.x86_64, kmod-libs.x86_64, libpwquality.x86_64, cryptsetup-libs.x86_64, libdb.x86_64, util-linux.x86_64, trouserslib.x86_64, grubby.x86_64, os-prober.x86_64, gnutls.x86_64, systemd.x86_64, trousers.x86 64, platform-python-setuptools.noarch, python3-libs.x86 64, python3decorator.noarch, libmodulemd1.x86_64, python3-dateutil.noarch, libsolv.x86_64, devicemapper-event-libs.x86 64, initscripts.x86 64, rng-tools.x86 64, dracut-config-rescue.x86 64, xfsprogs.x86_64, prefixdevname.x86_64, irqbalance.x86_64, biosdevname.x86_64, iprutils.x86 64, lsscsi.x86 64, rootfiles.noarch, iwl6050-firmware.noarch, iwl6000firmware.noarch, iwl5000-firmware.noarch, iwl3945-firmware.noarch, iwl2030firmware.noarch, iwl135-firmware.noarch, iwl1000-firmware.noarch, perl-Carp.noarch, perllibs.x86_64, perl-macros.x86_64, perl-Errno.x86_64, perl-threads.x86_64, perl-Text-Tabs+Wrap.noarch, perl-PathTools.x86_64, perl-IO.x86_64, perl-Socket.x86_64, libxcb.x86_64, libX11.x86_64, libXdamage.x86_64, libXinerama.x86_64, libXrandr.x86_64, libXtst.x86 64, libjpeg-turbo.x86 64, mesa-libglapi.x86 64, libglvnd.x86 64, libXxf86vm.x86 64, mesa-libGL.x86 64, libSM.x86 64, llvm-libs.x86 64, mesa-dridrivers.x86_64, libxkbfile.x86_64, libXdmcp.x86_64, polkit.x86_64, hwdata.noarch, kernelcore.x86 64, xkeyboard-config.noarch, iputils.x86 64, setup.noarch, libevent.x86 64, pkgconf-m4.noarch, libuser.x86_64, ncurses-libs.x86_64, rpm-plugin-selinux.x86_64, bash.x86 64, python3-unbound.x86 64, libxml2.x86 64, lvm2-libs.x86 64, libgpgerror.x86 64, python3-ethtool.x86 64, libuuid.x86 64, python3-libxml2.x86 64, expat.x86 64, python3-netifaces.x86 64, sqlite-libs.x86 64, python3-inotify.noarch, libmnl.x86_64, python3-cryptography.x86_64, libtalloc.x86_64, authselect-libs.x86_64, grub2-common.noarch, fipscheck.x86_64, jansson.x86_64, sssd-client.x86_64, libsmartcols.x86_64, dhcp-client.x86_64, libtevent.x86_64, plymouth-core-libs.x86_64, filelibs.x86_64, dbus-glib.x86_64, libaio.x86_64, gobject-introspection.x86_64, libtoolltdl.x86 64, pinentry.x86 64, libnftnl.x86 64, librepo.x86 64, libgomp.x86 64, python3librepo.x86_64, libdhash.x86_64, python3-dnf.noarch, libsss_idmap.x86_64,

continued...

python3-dnf-plugins-core.noarch, slang.x86_64, dnf-plugin-spacewalk.noarch, libteam.x86 64, python3-rhn-setup.x86 64, groff-base.x86 64, sssd-nfs-idmap.x86 64, grub2-pc-modules.noarch, yum.noarch, mpfr.x86 64, rsyslog.x86 64, mozjs52.x86 64, openssh-server.x86 64, coreutils-common.x86 64, lvm2.x86 64, kernel-tools-libs.x86 64, audit.x86 64, dmidecode.x86 64, sudo.x86 64, libndp.x86 64, e2fsprogs.x86 64, libpciaccess.x86_64, sg3_utils.x86_64, pkgconf.x86_64, hostname.x86_64, iptables.x86_64, iwl7260-firmware.noarch, libsigsegv.x86 64, iwl5150-firmware.noarch, libsss sudo.x86 64, iwl3160-firmware.noarch, ncurses.x86 64, iwl105-firmware.noarch, libdnet.x86 64, ipcalc.x86 64, perl-Scalar-List-Utils.x86 64, libreport-filesystem.x86 64, perl-Unicode-Normalize.x86 64, fuse-common.x86 64, perl-File-Path.noarch, dbus-common.noarch, perlinterpreter.x86 64, libcurl.x86 64, libX11-common.noarch, libdb-utils.x86 64, libXext.x86 64, elfutils-libs.x86 64, libXi.x86 64, gettext-libs.x86 64, libfontenc.x86 64, libtirpc.x86 64, libxshmfence.x86 64, device-mapper.x86 64, libICE.x86 64, libmount.x86 64, mesa-filesystem.x86 64, dbus-tools.x86 64, xorg-x11-xkb-utils.x86 64, device-mapper-libs.x86_64, libutempter.x86_64, kbd.x86_64, dracut.x86_64, rpmlibs.x86 64, crypto-policies.noarch, dbus.x86 64, platform-python-pip.noarch, python3six.noarch, librhsm.x86_64, iproute.x86_64

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RPMs

OSL 42 64-bit filesystem, libX11-data.noarch, terminfo-base, file-magic, icewm-config-upstream.noarch, hicolor-icon-theme.noarch, openSUSE-release-dvd, kbd-legacy.noarch, xbitmaps.noarch, cracklib-dict-full, libthai-data, branding-openSUSE.noarch, libldap-data.noarch, desktoptranslations.noarch, libicu52 1-data, libnl-config.noarch, glibc, dmz-icon-themecursors.noarch, libpcre1, libselinux1, glibc-extra, libpth20, libadns1, libvisual, libtheoradec1, libopusO, libcdda_interfaceO, liborc-O_4-O, libwebp5, libhyphenO, mozilla-nspr, libfastjson4, libestr0, libnl3-200, libxtables10, libmnl0, libfuse2, libvpx1, libltdl7, libexif12, libnfs8, libcdio16, traceroute, libtidyp-1 04-0, libdatrie1, libgraphite2-3, liblcms2-2, libavahicommon3, libepoxy0, libogg0, libspeex1, fribidi, adjtimex, hardlink, libelf0, libsasl2-3, libverto1, libkeyutils1, libcom_err2, libaio1, libidn11, libdbus-1-3, libjbig2, libsamplerate0, libasound2, libpciaccess0, libseccomp2, libgrencode3, libgpg-error0, libapparmor1, libpython2_7-1_0, libustr-1_0-1, libsepol1, libwrap0, libICE6, libxshmfence1, libdrm2, libX11xcb1, Mesa-libglapi0, pkg-config, libuuid1, libsmartcols1, libcap-ng0, libaudit1, libx86emu1, perl-base, libpopt0, liblua5 1, libelf1, libbz2-1, fillup, liblzma5, libkmod2, libgmp10, libcap2, libattr1, libpixman-1-0, libnettle4, libgcc s1, libXvnc1, libXdmcp6, libXau6, libsqlite3-0, libglib-2_0-0, libexpat1, libyaml-0-2, libgdbm4, libffi4, dmidecode, libz1, libjpeg8, libcdda_paranoia0, libcdio_cdda2, net-tools, libthai0, libtheoraenc1, libvorbis0, libFLAC8, libavahi-client3, alsa-plugins, libksba8, libassuan0, libgcrypt20, libdrm_radeon1, libdrm nouveau2, libdrm intel1, libdrm amdgpu1, libSM6, libblkid1, insserv-compat.noarch, libasm1, libsemanage1, libmpfr4, libisl10, libudev1, libacl1, libhogweed2, libstdc++6, libxcb1, glib2-lang.noarch, expat, libwayland-server0, libwayland-client0, libp11-kit0, libdw1, pigz, luit, libpng16-16, libzio1, libfontenc1, libmagic1, libpci3, libxml2-2, libjasper1, libcdio_paranoia2, libvorbisenc2, libsystemd0, libmount1, libfdisk1, libmpc3, libcloog-isl4, libatasmart4, libusb-1 0-0, libmozjs-17 0, libmodman1, libdb-4 8, libtiff5, libncurses6, libncurses5, libxcb-shm0, libxcb-render0, libxcb-xfixes0, libxcb-sync1, libxcb-present0, libxcbglx0, libxcb-dri3-0, libxcb-dri2-0, libX11-6, libavahi-glib1, libgmodule-2 0-0, libgobject-2 0-0, libgbm1, libfreetype6, file, libxslt1, libplist3, libcroco-0 6-3, libsndfile1, liblogging0, cpp48, libusb-0_1-4, libproxy1, perl, libdialog11, libedit0, ncurses-utils, libXcomposite1, libXt6, libXpm4, libXrender1, libxkbfile1, xmodmap, libXmuu1, libXdamage1, libXfixes3, libXext6, libgudev-1 0-0, libatspi0, libatk-1 0-0, Mesa-libEGL1, libharfbuzz0, mkfontscale, ft2demos, libXfont1, libusbmuxd4, perl-TimeDate.noarch, perl-Data-Dump.noarch, perl-XML-XPathEngine.noarch, perl-Text-Wrapper.noarch, perl-HTML-Tagset.noarch, perl-IO-HTML.noarch, perl-URI.noarch, perl-LWP-MediaTypes.noarch, perl-Encode-Locale.noarch, perl-Tie-IxHash.noarch, perl-X11-Protocol, perl-gettext, perl-XML-Parser, dialog, libLLVM, libreadline6, setxkbmap, xkbcomp, libXcursor1, libXv1, libXi6, libXmu6, libXrandr2, libXinerama1, libXxf86vm1, xauth, libXtst6, perl-HTTP-Date.noarch, perl-WWW-RobotRules.noarch, perl-XML-XPath, Mesa-libva, Mesa, bash, xsetroot, libXaw7, perl-HTTP-Message.noarch, perl-File-Listing.noarch, Mesa-libGL1, info, perl-HTML-Parser, perl-HTTP-Negotiate.noarch, perl-HTTP-Daemon.noarch, perl-HTTP-Cookies.noarch, readlinedoc.noarch, bash-lang.noarch, libxml2-tools, bash-doc.noarch, bzip2, pinentry, libaspell15, hunspell, libwicked-0-6, iproute2, glibc-32bit, hicolor-icon-theme-brandingopenSUSE.noarch, alsa-oss, bash-completion.noarch, mkfontdir, time, xz, gzip, elfutils, cpp, openSUSE-release, findutils, cpio, gdk-pixbuf-query-loaders, fontconfig, libcrack2, libtasn1-6, python-base, sed, grep, diffutils, hwinfo, which, coreutils, hunspell-tools, libgcc s1-32bit, systemd-bash-completion.noarch, xz-lang.noarch, xrdb, cpio-lang.noarch, gd, libbluray2, libcairo2, libXft2, cracklib, libtasn1, python-pycparser.noarch, python-pyasn1.noarch, pythonipaddress.noarch, python-idna.noarch, python-enum34.noarch, sed-lang.noarch, coreutilslang.noarch, libenchant1, libstdc++6-32bit, libcairo-gobject2, libpango-1 0-0, p11-kit-tools, p11-kit, libgnutls28, python-cffi, timezone, sound-theme-freedesktop.noarch, blog, sharedmime-info, kbd, systemd-presets-branding-openSUSE.noarch, permissions, pciutilsids.noarch, xkeyboard-config.noarch, rpm, update-alternatives, s2tc-32bit, libopenssl1_0_0, libicu52 1, sysvinit-tools, shared-mime-info-lang.noarch, libutempter0, pam, pciutils, xkeyboard-config-lang.noarch, libsolv-tools, dbus-1-x11, wallpaper-brandingopenSUSE.noarch, gawk, s2tc, openssl, libharfbuzz-icu0, libjavascriptcoregtk-4_0-18, gptfdisk, pam-config, util-linux, alsa-utils

, glib2-tools, libgio-2_0-0, lsof, ca-certificates.noarch, util-linux-lang.noarch, alsa, gcr-data, gtk3-data.noarch, gio-branding-openSUSE.noarch, ca-certificates-mozilla.noarch, fuse, aaa base, libgstreamer-1 0-0, libsecret-1-0, libjson-glib-1 0-0, libcolord2, libgdk pixbuf-2 0-0, libimobiledevice6, libarchive13, perl-Net-SSLeay, libssh2-1, libldap-2 4-2, libfipscheck1, python, netcfg.noarch, gstreamer, libsecret-lang.noarch, json-glib-lang.noarch, gdk-pixbuflang.noarch, perl-IO-Socket-SSL.noarch, fipscheck, python-six.noarch, shadow, gstreamerlang.noarch, libgck-1-0, librsvg-2-2, perl-Net-HTTP.noarch, python-cryptography, liblockdev1, kmod-compat, dbus-1, gdk-pixbuf-loader-rsvg, perl-libwww-perl.noarch, pythonpyOpenSSL.noarch, lockdev, dbus-1-glib, at-spi2-core, dconf, libcryptsetup4, perl-LWP-Protocol-https.noarch, libtelepathy-glib0, libatk-bridge-2_0-0, libdconf1, libcurl4, perl-HTML-Tidy, gsettings-backend-dconf, systemd, perl-XML-Twig.noarch, krb5, perl-Net-DBus, liboauth0, cups-libs, device-mapper, xdg-utils.noarch, systemd-sysvinit, desktop-dataopenSUSE.noarch, suse-module-tools, udev, dracut, kmod, logrotate, dirmngr, libmtp9, libgphoto2-6, aaa base-extras, util-linux-systemd, dirmngr-lang.noarch, libmtp-udev, libgphoto2-6-lang.noarch, wicked, gpg2, wicked-service, gpg2-lang.noarch, sysconfig, libzypp, sysconfig-netconfig, syslog-service.noarch, rsyslog, postfix, cron, libpolkit0, cronie, cantarellfonts.noarch, xterm, fonts-config.noarch, xinetd, polkit, metatheme-adwaitacommon.noarch, gsettings-desktop-schemas, xdg-menu.noarch, xinit, xorg-x11-fontscore.noarch, libpackagekit-glib2-18, polkit-default-privs.noarch, libudisks2-0, gtk3metatheme-adwaita.noarch, gsettings-desktop-schemas-lang.noarch, PackageKit-brandingopenSUSE.noarch, udisks2, glib-networking, PackageKit-backend-zypp, udisks2-lang.noarch, glib-networking-lang.noarch, PackageKit, libsoup-2 4-1, PackageKit-lang.noarch, libsouplang.noarch, PackageKit-gtk3-module, PackageKit-gstreamer-plugin, librest0, gstreamerplugins-base, gtk3-tools, libgstvideo-1 0-0, adwaita-icon-theme.noarch, libgsttag-1 0-0, libgtk-3-0, icewm-default, libgstaudio-1 0-0, libgcr-3-1, icewm, libgstpbutils-1 0-0, gcrprompter, icewm-lite, libgstapp-1_0-0, gvfs, icewm-lang.noarch, libgstriff-1_0-0, notificationdaemon, gvfs-backend-afc, gcr-lang.noarch, gstreamer-plugins-base-lang.noarch, notificationdaemon-lang.noarch, gcr-viewer, libgstfft-1_0-0, libnotify4, libwebkit2gtk-4_0-37, webkit2gtk-4_0-injected-bundles, libwebkit2gtk3-lang.noarch, libgoa-1_0-0, libgoa-backend-1_0-1, gnome-online-accounts, gnome-online-accounts-lang.noarch, libgdata22, libgdatalang.noarch, gyfs-backends, gyfs-fuse, gyfs-lang.noarch, gtk3-branding-openSUSE.noarch, gtk3-lang.noarch, gtk3-immodule-amharic, gtk3-immodule-inuktitut, gtk3-immodule-thai, gtk3-immodule-vietnamese

Agent

OSL15 64-bit

RPMs

boost-license1_66_0.noarch, firewall-macros.noarch, libX11-data.noarch, libicu60_2ledata.noarch, system-user-root.noarch, terminfo-base, file-magic.noarch, libtirpc-netconfig, kbd-legacy.noarch, xbitmaps.noarch, openSUSE-release-ftp, hicolor-icon-theme.noarch, cracklib-dict-full, libwacom-data, libldap-data.noarch, publicsuffix.noarch, brandingopenSUSE.noarch, libqt5-qttranslations, filesystem, dmz-icon-theme-cursors.noarch, glibc, libpcre1, libselinux1, glibc-extra, traceroute, liblcms2-2, libwebp6, adjtimex, libevdev2, libgraphite2-3, libts0, libmtdev1, libdrm2, libX11-xcb1, libjbig2, libgif7, libexif12, hardlink, libICE6, libsmartcols1, libjson-c3, libargon2-1, libcap-ng0, libustr-1 0-1, libsepol1, libsasl2-3, libverto1, libkeyutils1, libcom err2, pkg-config, libseccomp2, libqrencode4, liblz4-1, libgpgerror0, libapparmor1, libaudit1, libunistring2, libx86emu1, perl-base, libpopt0, liblua5_3-5, libbz2-1, fillup, liblzma5, libgmp10, libcap2, libattr1, libnghttp2-14, libuuid1, libpixman-1-0, libnettle6, libXvnc1, libXdmcp6, libXau6, libsqlite3-0, libglib-2_0-0, libexpat1, libyaml-0-2, libgdbm4, libffi7, libgcc s1, libz1, libjpeg8, libwebpdemux2, krb5, libgcrypt20, libidn2-0, insserv-compat.noarch, libsemanage1, libmpfr6, libisl15, libudev1, libacl1, libSM6, libblkid1, libhogweed4, libxcb1, glib2-lang.noarch, expat, libp11-kit0, libstdc++6, pigz, libpng16-16, libzio1, libkmod2, libfontenc1, libmagic1, libdw1, libxml2-2, libmng2, libjasper4, libtirpc3, libsystemd0, libpsl5, libmpc3, libfdisk1, libmount1, libxcb-util1, libxcb-xkb1, libxcb-xinerama0, libxcb-xfixes0, libxcb-sync1, libxcb-shm0, libxcb-shape0, libxcb-render0, libxcb-randr0, libxcbkeysyms1, libxcb-icccm4, libxcb-glx0, libX11-6, libgobject-2 0-0, libmodman1, libdoubleconversion1, libtiff5, libdb-4 8, libncurses6, libboost system1 66 0, libfreetype6, file, libelf1, libnsl2, libdbus-1-3, cpp7, libxcb-image0, libxcb-render-util0, libglvnd, libXrender1, libXt6, libXpm4, xmodmap, libXmuu1, libXdamage1, libXfixes3, libXext6, libgudev-1 0-0, libproxy1, perl, ncurses-utils, libboost_thread1_66_0, mkfontscale, libharfbuzz0, ftview, ftvalid, ftstring, ftmulti, ftlint, ftgrid, ftgamma, ftdump, ftdiff, ftbench, fontconfig, libXfont2-2, libebl-plugins, hostname, libXcursor1, libXi6, libXinerama1, libXmu6, xauth, libXtst6, libwacom2, perl-TimeDate.noarch, perl-IO-HTML.noarch, perl-HTML-Tagset.noarch, perl-URI.noarch, perl-Try-Tiny.noarch, perl-LWP-MediaTypes.noarch, perl-Encode-Locale.noarch, perl-Devel-Symdump.noarch, perl-Test-Pod.noarch, perl-CPAN-Changes.noarch, perl-X11-Protocol, perl-gettext, libreadline7, libXft2, libasm1, net-tools, xsetroot, libXaw7, libinputudey, perl-HTTP-Date.noarch, perl-WWW-RobotRules.noarch, perl-Net-HTTP.noarch, perl-Pod-Coverage.noarch, bash, net-tools-lang.noarch, libinput10, perl-HTTP-Message.noarch, perl-File-Listing.noarch, perl-Test-Pod-Coverage.noarch, info, perl-HTTP-Negotiate.noarch, perl-HTTP-Daemon.noarch, perl-HTTP-Cookies.noarch, perl-HTML-Parser, readlinedoc.noarch, bash-doc.noarch, libxml2-tools, bash-lang.noarch, hicolor-icon-theme-brandingopenSUSE.noarch, mkfontdir, time, bash-completion.noarch, which, xz, gzip, elfutils, cpp, sed, libdevmapper 1 03, findutils, libcrack2, libtasn 1-6, grep, diffutils, hwinfo, coreutils, systemdbash-completion.noarch, xz-lang.noarch, elfutils-lang.noarch, xrdb, sed-lang.noarch, libcryptsetup12, findutils-lang.noarch, cracklib, libtasn1, grep-lang.noarch, diffutilslang.noarch, coreutils-lang.noarch, p11-kit-tools, p11-kit, libgnutls30, blog, systemd-presetscommon-SUSE.noarch, netcfg.noarch, kmod, permissions, timezone, xkeyboardconfig.noarch, rpm, update-alternatives, libopenssl 1, sysvinit-tools, systemd-presetsbranding-openSUSE.noarch, pam, libicu60 2, xkeyboard-config-lang.noarch, kmod-compat, dbus-1-x11, wallpaper-branding-openSUSE.noarch, gawk, openssl-1_1, pam-config, kbd, shadow, libQt5Core5, libxkbcommon0, libxkbfile1, openSUSE-release, openssl.noarch, sysuser-shadow.noarch, dbus-1, libQt5DBus5, libxkbcommon-x11-0, setxkbmap, xkbcomp, ca-certificates.noarch, system-group-hardware.noarch, ca-certificates-mozilla.noarch, libutempter0, perl-Net-SSLeay, dump-rmt, libQt5Network5, libssh4, libldap-2 4-2, xterm-bin, util-linux, perl-IO-Socket-SSL.noarch, cpio, libQt5Gui5, libcurl4, xinit, util-linux-lang.noarch, perl-libwww-perl.noarch, cpio-lang.noarch, libqt5-qtimageformats, perl-LWP-Protocolhttps.noarch, cpio-mt, libQt5Widgets5, perl-XML-Parser, systemd, ftinspect, perl-XML-Twig.noarch, logrotate, systemd-sysvinit, ft2demos, perl-Net-DBus, udev, xdg-utils.noarch, util-linux-systemd, aaa base, desktop-data-openSUSE.noarch, aaa base-extras, xdgmenu.noarch, dracut, fonts-config.noarch, WindowMaker, suse-module-tools, xorg-x11-fontscore.noarch, xorg-x11-Xvnc

B

Documentation Updates

This section contains information on documentation content changes that were made in this *ZENworks Agent Reference* for Novell ZENworks 11 SP3. The changes are listed according to the date they were published.

The documentation for this product is provided on the Web in two formats: HTML and PDF. The HTML and PDF documentation are both kept up-to-date with the changes listed in this section.

If you need to know whether a copy of the PDF documentation that you are using is the most recent, the PDF document includes a publication date on the title page.

The documentation was updated on the following dates: