VMware Horizon Client for Windows Embedded Operating System
Release Notes
Notes, cautions, and warnings

**NOTE:** A NOTE indicates important information that helps you make better use of your product.

**CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

**WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.
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VMware Horizon Client is a locally installed software application that communicates between View Connection Server and thin client operating system. It provides access to centrally hosted virtual desktops from your thin clients.

VMware session services can be made available on the network after you install the VMware Horizon Client. It provides virtualized or hosted desktops and applications through a single platform to end users.

Topics:

• Version matrix

Version matrix

The following table summarizes the VMware Horizon Client versions that are supported by Wyse thin clients:

<table>
<thead>
<tr>
<th>Version</th>
<th>Release date</th>
<th>Release notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>VMware Horizon Client</td>
<td>November 2019</td>
<td>VMware Horizon Client 5.2</td>
</tr>
<tr>
<td>Standard 5.2</td>
<td>August 2019</td>
<td>VMware Horizon Client 5.1</td>
</tr>
<tr>
<td>VMware Horizon Client</td>
<td>May 2019</td>
<td>VMware Horizon Client 5.0</td>
</tr>
<tr>
<td>Standard 5.0</td>
<td>February 2019</td>
<td>VMware Horizon Client 4.10</td>
</tr>
<tr>
<td>VMware Horizon Client</td>
<td>November 2018</td>
<td>VMware Horizon Client 4.9</td>
</tr>
<tr>
<td>Standard 4.9</td>
<td>July 2018</td>
<td>VMware Horizon Client 4.8</td>
</tr>
<tr>
<td>VMware Horizon Client</td>
<td>February 2018</td>
<td>VMware Horizon Client 4.7</td>
</tr>
<tr>
<td>Standard 4.8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
VMware Horizon Client version 5.2

Release summary
This release notes contains information about the add-on to update the VMware Horizon Client to the latest version 5.2.

Version
VMware Horizon Client version 5.2

Release date
November 2019
To download the package, see download the add-on.

Priority and recommendations
Recommended: Dell recommends applying this update during your next scheduled update cycle. The update contains feature enhancements or changes that will help keep your system software current and compatible with other system modules (firmware, BIOS, drivers and software).

Compatibility

Supported operating systems
- Microsoft Windows 10 IoT Enterprise
- Microsoft Windows Embedded Standard 7P

Previous version
VMware Horizon Client version 5.1

Add-on details
- **File name**—VMwareHorizonClient_5_2.exe
- **File version**—1.0.0.1
- **File size**—220,383,936 bytes
- **Silent parameter**—--silent

New and enhanced features
The following are the new features of VMware Horizon Client version 5.2:
- You can use the Log in as current user feature to log in to a Connection Server instance in a domain that is configured to have a one-way trust with the Horizon Client domain. You can log in without being prompted to reauthenticate.
- The Real-Time Audio-Video and scanner redirection features are supported in nested mode.
- The vmware-remotemks process is replaced with the Lightweight Protocol Client to increase the display device performance, and decrease CPU use.
- You can use Horizon Client to customize the display resolution and display scaling for a remote desktop.
- You can use the hot-key combination—Ctrl+Alt—to capture the input focus. You can also use the hot-key combination to release the input focus group policy settings to configure keyboard shortcuts for input focus.
- An administrator can synchronize the toggle states of the Num Lock, Scroll Lock, and Caps Lock keys from the client computer to a remote desktop by using the Automatically synchronize the keypad, scroll and caps lock keys group policy setting.
- An administrator can map drive letters by using the Configure drive letter mapping mode and Define drive letter mapping agent group policy settings.
- When you connect to a virtual desktop, the Real-Time Audio-Video feature redirects all the webcams and microphones that are connected to the client computer to the virtual desktop.

For more information about the VMware Horizon Client version 5.2 features, see the VMware Horizon Client 5.2 for Windows Release Notes at docs.vmware.com.

## Known issues

### Table 2. Known issues

<table>
<thead>
<tr>
<th>Issue ID</th>
<th>Description</th>
<th>Workaround</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIN-1243</td>
<td>If you connect six displays, and launch a VMware Horizon View Client 7.10 published desktop on the primary display, a blank screen is observed on the remaining five displays. This issue is observed in Wyse 5070 Thin Clients.</td>
<td>There is no workaround in this release.</td>
</tr>
<tr>
<td>WIN-1242</td>
<td>A lag is observed when you drag a window within the desktop or to a different desktop.</td>
<td>There is no workaround in this release.</td>
</tr>
</tbody>
</table>

## Important notes

### System requirement

Minimum free disk space required to install the VMware Horizon Client version 5.2 add-on is 800 MB.

### Tested environment

### Table 3. Windows 10 IoT Enterprise Redstone 1

<table>
<thead>
<tr>
<th>Platforms</th>
<th>Memory configuration</th>
<th>RAM size</th>
<th>Build package name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyse 5070 Thin Client with Pentium processor</td>
<td>64 GB SSD</td>
<td>8 GB</td>
<td>WIN10_5070_March2019.exe</td>
</tr>
<tr>
<td>Wyse 5070 Extended Thin Client with Pentium processor</td>
<td>64 GB SSD</td>
<td>8 GB</td>
<td>WIN10_5070_March2019.exe</td>
</tr>
<tr>
<td>Wyse 5070 Thin Client with Celeron processor</td>
<td>32 GB eMMC</td>
<td>4 GB</td>
<td>WIN10_5070_March2019.exe</td>
</tr>
<tr>
<td>Wyse 5470 Thin Client</td>
<td>32 GB eMMC</td>
<td>4 GB</td>
<td>WIE10_5470_July2019.exe</td>
</tr>
<tr>
<td>Wyse 5470 All-in-One Thin Client</td>
<td>32 GB eMMC</td>
<td>4 GB</td>
<td>WIE10_5470_All_in_One_June2019.exe</td>
</tr>
</tbody>
</table>
Table 4. Windows 10 IoT Enterprise Redstone 5

<table>
<thead>
<tr>
<th>Platforms</th>
<th>Memory configuration</th>
<th>RAM size</th>
<th>Build package name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyse 5070 Thin Client with Pentium processor</td>
<td>64 GB SSD</td>
<td>8 GB</td>
<td>WIN10_5070_Sepetember2019.exe</td>
</tr>
<tr>
<td>Wyse 5070 Extended Thin Client with Pentium processor</td>
<td>64 GB SSD</td>
<td>8 GB</td>
<td>WIN10_5070_Sepetember2019.exe</td>
</tr>
<tr>
<td>Wyse 5070 Thin Client with Celeron processor</td>
<td>32 GB eMMC</td>
<td>4 GB</td>
<td>WIN10_5070_Sepetember2019.exe</td>
</tr>
</tbody>
</table>

Table 5. Windows 10 IoT Enterprise Threshold 1

<table>
<thead>
<tr>
<th>Platform</th>
<th>Memory configuration</th>
<th>RAM size</th>
<th>Build package name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyse 7040 Thin Client</td>
<td>128 GB SSD/256 GB SED/500 GB hard drive</td>
<td>4 GB/8 GB/16 GB</td>
<td>7040_0A79_32GB_Standard.exe</td>
</tr>
</tbody>
</table>

Table 6. Windows Embedded Standard 7P

<table>
<thead>
<tr>
<th>Platform</th>
<th>Memory configuration</th>
<th>RAM size</th>
<th>Build package name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyse 7040 Thin Client</td>
<td>128 GB SSD/256 GB SED/500 GB hard drive</td>
<td>4 GB/8 GB/16 GB</td>
<td>7040_7091_32GB.exe</td>
</tr>
</tbody>
</table>

Table 7. Management server details

<table>
<thead>
<tr>
<th>Server</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dell Wyse Management Suite</td>
<td>1.4</td>
</tr>
<tr>
<td>Microsoft System Center Configuration Manager</td>
<td>Microsoft System Center Configuration Manager 2016 version 1606&lt;br&gt;Console version—5.0.8412.1313&lt;br&gt;Site version—5.0.8412.1000&lt;br&gt;Microsoft System Center Configuration Manager 2019 version 1902&lt;br&gt;Console version— 5.1902.1085.1700&lt;br&gt;Site version— 5.0.8790.1000</td>
</tr>
<tr>
<td>Dell Wyse Device Manager—Wyse 7040 thin client only</td>
<td>5.7.3</td>
</tr>
</tbody>
</table>

NOTE:
- Horizon Agent version 7.10 is used to test the features of VMware Horizon Client version 5.2.
- Wyse Device Agent (WDA) version 14.4.1.5 is used during the VMware Horizon Client version 5.2 add-on testing. It is recommended that you upgrade the Wyse Device Agent (WDA) to the latest version before deploying the VMware Horizon Client version 5.2 add-on.
VMware Horizon Client version 5.1

Release summary
This release notes contains information about the add-on to update the VMware Horizon Client to the latest version 5.1.

Version
VMware Horizon Client version 5.1

Release date
August 2019
To download the package, see download the add-on.

Priority and recommendations
Recommended: Dell recommends applying this update during your next scheduled update cycle. The update contains feature enhancements or changes that will help keep your system software current and compatible with other system modules (firmware, BIOS, drivers and software).

Compatibility

Supported operating systems
- Microsoft Windows 10 IoT Enterprise
- Microsoft Windows Embedded Standard 7P

Previous version
VMware Horizon Client version 5.0

Add-on details
- **File name**—VMwareHorizonClient_5_1.exe
- **File version**—1.0.0.1
- **File size**—220,383,936 bytes

New and enhanced features
The following are the new features of VMware Horizon Client version 5.1:
- Enhanced drag and drop features.
- You can install desktop and applications shortcuts when you start Horizon Client.
- Enhanced multiple monitor support.
- Serial port redirection is supported in nested mode.
- Device filtering with client drive redirection is enabled.
For more information about the VMware Horizon Client version 5.1 features, see the VMware Horizon Client 5.1 for Windows Release Notes at docs.vmware.com.

**Known issues**

Table 8. Known issues

<table>
<thead>
<tr>
<th>Issue ID</th>
<th>Description</th>
<th>Workaround</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIN-952</td>
<td>VMware Horizon Client Repair functionality does not work when you try to repair via Control Panel.</td>
<td>Repair is done through command prompt by passing parameter as VMwareHorizonclient_5_1.exe --silent --repair using Installer (Add-on).</td>
</tr>
</tbody>
</table>

**Important notes**

**System requirement**

Minimum free disk space required to install the VMware Horizon Client version 5.1 add-on is 800 MB.

**Tested environment**

Table 9. Windows 10 IoT Enterprise RedStone 1

<table>
<thead>
<tr>
<th>Platforms</th>
<th>Memory configuration</th>
<th>RAM size</th>
<th>Build package name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyse 5070 thin client with Pentium processor</td>
<td>64 GB SSD</td>
<td>8 GB</td>
<td>WIN10_5070_March2019.exe</td>
</tr>
<tr>
<td>Wyse 5070 Extended thin client with Pentium processor</td>
<td>64 GB SSD</td>
<td>8 GB</td>
<td>WIN10_5070_March2019.exe</td>
</tr>
<tr>
<td>Wyse 5070 thin client with Celeron processor</td>
<td>32 GB eMMC</td>
<td>4 GB</td>
<td>WIN10_5070_March2019.exe</td>
</tr>
</tbody>
</table>

Table 10. Windows 10 IoT Enterprise Threshold 1

<table>
<thead>
<tr>
<th>Platform</th>
<th>Memory configuration</th>
<th>RAM size</th>
<th>Build package name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyse 7040 thin client</td>
<td>128 GB SSD/256 GB SED/ 500 GB hard drive</td>
<td>4 GB/ 8 GB/ 16 GB</td>
<td>7040_0A79_32GB_Standard.exe</td>
</tr>
</tbody>
</table>

Table 11. Windows Embedded Standard 7P

<table>
<thead>
<tr>
<th>Platform</th>
<th>Memory configuration</th>
<th>RAM size</th>
<th>Build package name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyse 7040 thin client</td>
<td>128 GB SSD/256 GB SED/ 500 GB hard drive</td>
<td>4 GB/8 GB/16 GB</td>
<td>7040_7091_32GB.exe</td>
</tr>
</tbody>
</table>

Table 12. Management server details

<table>
<thead>
<tr>
<th>Server</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dell Wyse Management Suite</td>
<td>1.4</td>
</tr>
<tr>
<td>Microsoft System Center Configuration Manager 2016</td>
<td>Microsoft System Center Configuration Manager version 1606 Console version—5.0.8412.1313 Site version—5.0.8412.1000</td>
</tr>
<tr>
<td>Dell Wyse Device Manager—Wyse 7040 thin client only</td>
<td>5.7.3</td>
</tr>
</tbody>
</table>
NOTE:

- Horizon Agent version 7.9 is used to test the features of VMware Horizon Client version 5.1.
- Wyse Device Agent (WDA) version 14.4.0.135 and 14.4.1.5 is used during the VMware Horizon Client version 5.1 add-on testing. It is recommended that you upgrade the Wyse Device Agent (WDA) to the latest version before deploying the VMware Horizon Client version 5.1 add-on.
VMware Horizon Client version 5.0

Release summary
This release notes contains information about the add-on to update the VMware Horizon Client to the latest version 5.0.

Version
VMware Horizon Client version 5.0

Release date
May 2019
To download the package, see download the add-on.

Priority and recommendations
Recommended: Dell recommends applying this update during your next scheduled update cycle. The update contains feature enhancements or changes that will help keep your system software current and compatible with other system modules (firmware, BIOS, drivers and software).

Compatibility

Supported operating systems
- Microsoft Windows 10 IoT Enterprise
- Microsoft Windows Embedded Standard 7P

Previous version
VMware Horizon Client version 4.10

Add-on details
- File name—VMwareHorizonClient_5_0.exe
- File version—1.0.0.1
- File size—206,772,304 bytes

New and enhanced features
The following are the new features of VMware Horizon Client version 5.0:
- Enhanced user interface.
- Behavioral changes when you log in as a current user.
- Enhanced domain security.
- Enhanced multiple monitor support.
- Ability to configure lock key synchronization.
Ability to synchronize DPI settings per connection.
- Ability to customize Horizon Client error message.
- Ability to customize Horizon Client menus.

For more information about the VMware Horizon Client version 5.0 features, see the VMware Horizon Client 5.0 for Windows Release Notes at docs.vmware.com.

**Known issues**

**Table 13. Known issues**

<table>
<thead>
<tr>
<th>Issue ID</th>
<th>Description</th>
<th>Workaround</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS-2427</td>
<td>VMware Horizon Client repair functionality does not work when you attempt to repair the Horizon Client using Control Panel.</td>
<td>Run the command <code>VMwareHorizonclient_5_0.exe --silent --Repair</code> in Command Prompt using the installer, or send the command using the management software such as Wyse Management Suite, Wyse Device Manager, or System Center Configuration Manager 2016 (SCCM).</td>
</tr>
</tbody>
</table>

**Important notes**

**System requirement**

Minimum free disk space required to install the VMware Horizon Client version 5.0 add-on is 800 MB.

**Tested environment**

**Table 14. Windows 10 IoT Enterprise RedStone 1**

<table>
<thead>
<tr>
<th>Platforms</th>
<th>Memory configuration</th>
<th>RAM size</th>
<th>Build package name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyse 5070 thin client with Pentium processor</td>
<td>64 GB SSD</td>
<td>8 GB</td>
<td>WIN10_5070_March2019.exe</td>
</tr>
<tr>
<td>Wyse 5070 Extended thin client with Pentium processor</td>
<td>64 GB SSD</td>
<td>8 GB</td>
<td>WIN10_5070_March2019.exe</td>
</tr>
<tr>
<td>Wyse 5070 thin client with Celeron processor</td>
<td>32 GB eMMC</td>
<td>4 GB</td>
<td>WIN10_5070_March2019.exe</td>
</tr>
</tbody>
</table>

**Table 15. Windows 10 IoT Enterprise Threshold 1**

<table>
<thead>
<tr>
<th>Platform</th>
<th>Memory configuration</th>
<th>RAM size</th>
<th>Build package name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyse 7040 thin client</td>
<td>128 GB SSD/256 GB SED/ 500 GB hard drive</td>
<td>4 GB/ 8 GB/ 16 GB</td>
<td>7040_0A79_32GB_Standard.exe</td>
</tr>
</tbody>
</table>

**Table 16. Windows Embedded Standard 7P**

<table>
<thead>
<tr>
<th>Platform</th>
<th>Memory configuration</th>
<th>RAM size</th>
<th>Build package name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyse 7040 thin client</td>
<td>128 SSD/256 GB SED/ 500 GB hard drive</td>
<td>4 GB/8 GB/16 GB</td>
<td>7040_7091_32GB.exe</td>
</tr>
</tbody>
</table>

**Table 17. Management server details**

<table>
<thead>
<tr>
<th>Server</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dell Wyse Device Manager—Wyse 7040 thin client only</td>
<td>5.7.3</td>
</tr>
<tr>
<td>Dell Wyse Management Suite</td>
<td>1.3</td>
</tr>
<tr>
<td>Server</td>
<td>Version</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>--------------------------------------------------</td>
</tr>
</tbody>
</table>
| Microsoft System Center Configuration Manager 2016 | Microsoft System Center Configuration Manager version 1606  
|                               | Console version—5.0.8412.1313                     |
|                               | Site version—5.0.8412.1000                       |

**NOTE:**

- Horizon Agent version 7.8 is used to test the features of VMware Horizon Client version 5.0.
- Wyse Device Agent (WDA) version 14.3.0.66 is used during the VMware Horizon Client version 5.0 add-on testing. It is recommended that you upgrade the Wyse Device Agent (WDA) to the latest version before deploying the VMware Horizon Client version 5.0 add-on.
VMware Horizon Client version 4.10

Release summary

This release notes contains information about the add-on to update the VMware Horizon Client to the latest version 4.10.

Version

VMware Horizon Client version 4.10

Release date

February 2019
To download the package, see Installation update procedure for VMware Horizon Client.

Priority and recommendations

Recommended: Dell recommends applying this update during your next scheduled update cycle. The update contains feature enhancements or changes that will help keep your system software current and compatible with other system modules (firmware, BIOS, drivers and software).

Compatibility

Supported operating systems

- Microsoft Windows 10 IoT Enterprise
- Microsoft Windows Embedded Standard 7P
- Microsoft Windows Embedded Standard 7

Previous version

VMware Horizon Client version 4.9

Add-on details

- File name—VMwareHorizonClient_4_10.exe
- File version—1.0.0.1
- File size—204,455,088 bytes

New and enhanced features

Added support for VMware Horizon Client version 4.10.
The following are the new features of VMware Horizon Client version 4.10:

- Ability to use published applications in multiple sessions.
- Ability to select specific monitors to display published applications.
- Ability to drag and drop files and folders between the client and published applications/remote desktops.
• Ability to use the geolocation redirection feature with Google Chrome.
• Ability to configure the clipboard audit feature to record information about copy and paste activity on the agent device.
• Support for VMware Virtual Print Redirection.
• Support for Virtual Printing on physical Remote Desktop Services (RDS) host machines.
• Support for Transport Layer Security (TLS) version 1.0 is discontinued.

For more information about the VMware Horizon Client version 4.10 features, see the VMware Horizon Client 4.10 for Windows Release Notes at docs.vmware.com.

**Known issues**

### Table 18. Known issues

<table>
<thead>
<tr>
<th>Issue ID</th>
<th>Description</th>
<th>Workaround</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS-2440</td>
<td>BSOD with an error code CRITICAL PROCESS DIED is observed when you push the VMware Horizon Client version 4.10 add-on from WDM or Wyse Management Suite. This issue is observed on thin clients running Windows 10 IoT Enterprise operating system.</td>
<td>Download and install the cumulative KB released in January 2019—WIE10_1607_SecurityPatches_January2019.zip from support.microsoft.com. Ensure that you do not set the screensaver or the device does not go to sleep mode during the KB installation. <strong>NOTE:</strong> Perform the DotNetCompilation and OSGlobalComponentcleanup operations to remove the outdated KBs.</td>
</tr>
<tr>
<td>WS-2433</td>
<td>The CAD map tool does not work when you start an RDP session on WES7P clients.</td>
<td>Download and install the security update for Windows 7 for x64-systems—KB3075226 from support.microsoft.com.</td>
</tr>
<tr>
<td>WS-2427</td>
<td>VMware Horizon Client repair functionality does not work when you attempt to repair the Horizon Client using Control Panel.</td>
<td>Run the command VMwareHorizonClient_4_10.exe--silent--Repair in Command Prompt using the installer, or send the command using the management software.</td>
</tr>
<tr>
<td>WS-1829</td>
<td>An alert message Your Computer is on low memory close these programs 'VMware Remote MKS' may be displayed after you start a VMware session. This issue is observed on thin clients running Windows Embedded Standard 7P and Windows 10 IoT Enterprise operating system.</td>
<td>No workaround.</td>
</tr>
</tbody>
</table>

**Important notes**

**System requirement**

Minimum free disk space required to install the VMware Horizon Client version 4.10 add-on is 800 MB.

**Tested environment**

### Table 19. Windows 10 IoT Enterprise RedStone 1

<table>
<thead>
<tr>
<th>Platforms</th>
<th>Memory configuration</th>
<th>RAM size</th>
<th>Build package name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyse 5070 thin client</td>
<td>64 GB SSD</td>
<td>8 GB</td>
<td>WIN10_5070_Oct2018.exe</td>
</tr>
<tr>
<td>Wyse 5070 Extended thin client</td>
<td>64 GB SSD</td>
<td>8 GB</td>
<td>WIN10_5070_Oct2018.exe</td>
</tr>
<tr>
<td>Wyse 5060 thin client</td>
<td>32 GB flash</td>
<td>4 GB/ 8 GB</td>
<td>5060_0A71_32GB_Standard.exe</td>
</tr>
<tr>
<td>Latitude 3480 mobile thin client</td>
<td>128 GB SSD</td>
<td>8 GB</td>
<td>3480_0A72_32GB.exe</td>
</tr>
<tr>
<td>Latitude 5280 mobile thin client</td>
<td>128 GB SSD</td>
<td>8 GB</td>
<td>5280_0A73_32GB.exe</td>
</tr>
</tbody>
</table>
### Table 20. Windows 10 IoT Enterprise Threshold 1

<table>
<thead>
<tr>
<th>Platform</th>
<th>Memory configuration</th>
<th>RAM size</th>
<th>Build package name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyse 5020 thin client</td>
<td>32 GB flash</td>
<td>4 GB</td>
<td>GOG0_0A79_32GB.exe</td>
</tr>
<tr>
<td>Wyse 7020 thin client</td>
<td>32 GB flash</td>
<td>4 GB</td>
<td>GOG0_0A79_32GB.exe</td>
</tr>
<tr>
<td>Wyse 7020 accelerated graphics thin client</td>
<td>32 GB flash</td>
<td>4 GB</td>
<td>GOG0_0A79_32GB.exe</td>
</tr>
<tr>
<td>Wyse 7040 thin client</td>
<td>128 GB SSD/256 GB SED/500 GB hard drive</td>
<td>4 GB/8 GB/16 GB</td>
<td>7040_0A79_32GB_Standard.exe</td>
</tr>
</tbody>
</table>

### Table 21. Windows Embedded Standard 7P

<table>
<thead>
<tr>
<th>Platform</th>
<th>Memory configuration</th>
<th>RAM size</th>
<th>Build package name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyse 5020 thin client</td>
<td>16 GB flash</td>
<td>4 GB</td>
<td>BOB0_7091_16GB.exe</td>
</tr>
<tr>
<td>Wyse 7010 thin client</td>
<td>16 GB flash</td>
<td>4 GB</td>
<td>BZB0_0896_16GB.exe</td>
</tr>
<tr>
<td>Wyse 7020 thin client</td>
<td>16 GB flash</td>
<td>4 GB</td>
<td>BOB0_7091_16GB.exe</td>
</tr>
<tr>
<td>Wyse 7020 accelerated graphics thin client</td>
<td>16 GB flash</td>
<td>4 GB</td>
<td>BOB0_7091_16GB.exe</td>
</tr>
<tr>
<td>Latitude E7270 mobile thin client</td>
<td>128 GB SSD</td>
<td>8 GB</td>
<td>E7270_7065_128GB.exe</td>
</tr>
<tr>
<td>Latitude 3460 mobile thin client</td>
<td>128 GB SSD</td>
<td>8 GB</td>
<td>3460_7065_128GB.exe</td>
</tr>
<tr>
<td>Wyse 5060 thin client</td>
<td>32 GB flash</td>
<td>4 GB/8 GB</td>
<td>5060_7091_32GB.exe</td>
</tr>
<tr>
<td>Wyse 7040 thin client</td>
<td>128 SSD/256 GB SED/500 GB hard drive</td>
<td>4 GB/8 GB/16 GB</td>
<td>7040_7091_32GB.exe</td>
</tr>
</tbody>
</table>

### Table 22. Windows Embedded Standard 7

<table>
<thead>
<tr>
<th>Platform</th>
<th>Memory configuration</th>
<th>RAM size</th>
<th>Build package name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyse 3030 thin client</td>
<td>16 GB flash</td>
<td>4 GB</td>
<td>BEB0_7077_16GB.exe</td>
</tr>
<tr>
<td>Wyse 5010 thin client</td>
<td>16 GB flash</td>
<td>4 GB</td>
<td>BDB0_7064_16GB.exe</td>
</tr>
<tr>
<td>Wyse 5020 thin client</td>
<td>16 GB flash</td>
<td>4 GB</td>
<td>BOB0_7064_16GB.exe</td>
</tr>
<tr>
<td>Wyse 7010 thin client</td>
<td>16 GB flash</td>
<td>4 GB</td>
<td>B2B0_7064_16GB.exe</td>
</tr>
<tr>
<td>Wyse 7010 Extended Chassis thin client</td>
<td>16 GB flash</td>
<td>4 GB</td>
<td>B2B0_7064_16GB.exe</td>
</tr>
<tr>
<td>Wyse 7020 thin client</td>
<td>16 GB flash</td>
<td>4 GB</td>
<td>BOB0_7064_16GB.exe</td>
</tr>
</tbody>
</table>

### Table 23. Management server details

<table>
<thead>
<tr>
<th>Server</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dell Wyse Device Manager</td>
<td>5.7.3</td>
</tr>
<tr>
<td>Dell Wyse Management Suite</td>
<td>1.3</td>
</tr>
<tr>
<td>Microsoft System Center Configuration Manager 2016</td>
<td>Microsoft System Center Configuration Manager version 1606 Console version—5.0.8412.1313 Site version—5.0.8412.1000</td>
</tr>
</tbody>
</table>

**NOTE:**
- Horizon Agent version 7.7 is used to test the features of VMware Horizon Client version 4.10.
- Wyse Device Agent (WDA) version 14.3.0.66 is used during the VMware Horizon Client version 4.10 add-on testing. Dell recommends that you upgrade the Wyse Device Agent (WDA) to the latest version before deploying the VMware Horizon Client version 4.10 add-on.
Release type and definition

This release note provides information about the latest release of VMware Horizon Client v4.9 package on the following operating systems:

- Windows Embedded Standard 7
- Windows Embedded Standard 7P
- Windows 10 IoT Enterprise

The following are the features of VMware Horizon Client v4.9:

- Configuring display scaling for all remote desktops and published applications
- Configuring a keyboard shortcut to switch display settings
- Starting VMware Horizon Client in minimized mode
- RDS host per-device CAL licensing improvements in a Cloud Pod Architecture environment
- Configuring VMware Horizon Client data sharing
- Redirecting serial ports for published desktops and applications
- Client drive redirection improvements
- Installing the 32-bit Skype for business plugin on a 64-bit Windows operating system

The following are the features of VMware Horizon Agent v7.6:

- Logging copy and paste activity
- Redirecting geolocation information to remote desktops and published applications
- HTML5 multimedia redirection improvements

The following are the features of VMware Horizon Connection server v7.6:

- Supports VMware Horizon Client console
- Supports VMware Horizon Cloud Service on Microsoft Azure
- Supports VMware Horizon Cloud Pod architecture
- Supports VMware Horizon Client Administrator
- Supports VMware vSphere 6.5 U2

VMware Horizon Client v4.9 package information

This section provides information about VMware Horizon Client v4.9 package.

Table 24. Package information

<table>
<thead>
<tr>
<th>Operating system</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows Embedded Standard 7—WES7</td>
<td>Filename—VMwareHorizonClient_4_9_WES7.exe</td>
</tr>
<tr>
<td></td>
<td>Minimum requirements</td>
</tr>
<tr>
<td></td>
<td>• Package can be installed on Windows Embedded Standard 7 (WES7) builds.</td>
</tr>
<tr>
<td></td>
<td>• System reboots two times during the package deployment.</td>
</tr>
<tr>
<td></td>
<td>• Minimum free disk space required to install this package is 800 MB.</td>
</tr>
<tr>
<td></td>
<td>• The build size is 236 MB (248,419,416 bytes).</td>
</tr>
<tr>
<td>Windows Embedded Standard 7P—WES7P</td>
<td>Filename—VMwareHorizonClient_4_9_WES7P.exe</td>
</tr>
<tr>
<td></td>
<td>Minimum requirements</td>
</tr>
<tr>
<td></td>
<td>• Package can be installed on Windows Embedded Standard 7P (WES7P) builds.</td>
</tr>
</tbody>
</table>
Operating system

Windows 10 IoT Enterprise—WIE10

Filename—VMwareHorizonClient_4_9_WIE10.exe

Minimum requirements

• Package can be installed on Windows 10 IoT Enterprise (WIE10) builds.
• System reboots two times during the package deployment.
• Minimum free disk space required to install this package is 800 MB.
• The build size is 236 MB (248,419,400 bytes).

Known issues

The following table lists the known issues in this release:

Table 25. Known issues

<table>
<thead>
<tr>
<th>Defect ID</th>
<th>Summary</th>
<th>Workaround</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS-2248</td>
<td>C-A-D Map functionality does not work when the session is launched with RDP protocol on Windows Embedded Standard 7P clients.</td>
<td>Install KB3075226 as a prerequisite for C-A-D Map functionality to work in VMware for RDP protocol on Windows Embedded Standard 7 and Windows Embedded Standard 7P clients.</td>
</tr>
</tbody>
</table>

Supported platforms

Table 26. Windows Embedded Standard 7

<table>
<thead>
<tr>
<th>Platform name</th>
<th>Flash</th>
<th>RAM</th>
<th>Windows Embedded Standard 7 builds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dell Wyse 3030 thin client</td>
<td>16 GB</td>
<td>4 GB</td>
<td>7077</td>
</tr>
<tr>
<td>Dell Wyse 7010 thin client—Z90D7</td>
<td>16 GB</td>
<td>4 GB</td>
<td>7064</td>
</tr>
<tr>
<td>Dell Wyse 7010 Extended Chassis thin client—Z90DE7</td>
<td>16 GB</td>
<td>4 GB</td>
<td>7064</td>
</tr>
<tr>
<td>Dell Wyse 5010 thin client—D90D7</td>
<td>16 GB</td>
<td>4 GB</td>
<td>7064</td>
</tr>
<tr>
<td>Dell Wyse 7020 thin client—Z90Q7</td>
<td>16 GB</td>
<td>4 GB</td>
<td>7064</td>
</tr>
<tr>
<td>Dell Wyse 5020 thin client—D90Q7</td>
<td>16 GB</td>
<td>4 GB</td>
<td>7064</td>
</tr>
</tbody>
</table>

Table 27. Windows Embedded Standard 7P

<table>
<thead>
<tr>
<th>Platform name</th>
<th>Flash</th>
<th>RAM</th>
<th>Windows Embedded Standard 7P builds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dell Wyse 7020 thin client—Z90Q7P</td>
<td>16 GB</td>
<td>4 GB</td>
<td>7066—Asian</td>
</tr>
<tr>
<td>Dell Wyse 7020 thin client—Z90Q7P</td>
<td>16 GB</td>
<td>4 GB</td>
<td>7065—European</td>
</tr>
<tr>
<td>Dell Wyse 5020 thin client—D90Q7P</td>
<td>16 GB</td>
<td>4 GB</td>
<td>7066—Asian</td>
</tr>
<tr>
<td>Dell Wyse 5020 thin client—D90Q7P</td>
<td>16 GB</td>
<td>4 GB</td>
<td>7065—European</td>
</tr>
</tbody>
</table>
### Table 28. Windows 10 IoT Enterprise

<table>
<thead>
<tr>
<th>Platform name</th>
<th>Flash</th>
<th>RAM</th>
<th>Windows 10 IoT Enterprise builds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dell Wyse 7020 thin client—Z90Q10</td>
<td>32 GB</td>
<td>4 GB</td>
<td>0A79</td>
</tr>
<tr>
<td>Dell Wyse 5020 thin client—D90Q10</td>
<td>32 GB</td>
<td>4 GB</td>
<td>0A79</td>
</tr>
<tr>
<td>Dell Wyse 7020 Accelerated Graphics Thin Client—Z90QG10</td>
<td>32 GB</td>
<td>4 GB</td>
<td>0A79</td>
</tr>
<tr>
<td>Dell Wyse 5060 thin client</td>
<td>32 GB</td>
<td>4 GB</td>
<td>0A71</td>
</tr>
<tr>
<td>Dell Wyse 7040 thin client</td>
<td>256 GB SED/128GB SSD/500HDD</td>
<td>4 GB/8 GB/16 GB</td>
<td>0A79</td>
</tr>
<tr>
<td>Latitude 3480 mobile thin client</td>
<td>128GB SSD</td>
<td>8 GB</td>
<td>0A72</td>
</tr>
<tr>
<td>Latitude 5280 mobile thin client</td>
<td>128GB SSD</td>
<td>8 GB</td>
<td>0A73</td>
</tr>
<tr>
<td>Dell Wyse 5070 thin client Standard</td>
<td>64 GB</td>
<td>8 GB</td>
<td>10.03.06.10.18.00</td>
</tr>
<tr>
<td>Dell Wyse 5070 thin client Economy</td>
<td>64 GB</td>
<td>8 GB</td>
<td>10.03.06.10.18.00</td>
</tr>
<tr>
<td>Dell Wyse 5070 thin client Extended</td>
<td>128 GB</td>
<td>8 GB</td>
<td>10.03.06.10.18.00</td>
</tr>
<tr>
<td>Dell Wyse 5070 thin client Cost Down</td>
<td>32 GB</td>
<td>4 GB</td>
<td>10.03.06.10.18.00</td>
</tr>
</tbody>
</table>

### Table 29. Management Servers

<table>
<thead>
<tr>
<th>Management Server</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyse Management Suite</td>
<td>1.3</td>
</tr>
<tr>
<td>Wyse Device Manager</td>
<td>5.7.3</td>
</tr>
</tbody>
</table>
| Microsoft System Center Configuration Manager 2016 | Version: 1606  
Console version: 5.0.8412.1313  
Site version: 5.0.8412.1000 |
Table 30. VMware Horizon Client versions

<table>
<thead>
<tr>
<th>Dell thin client application</th>
<th>Control Panel</th>
<th>Advanced Preference</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Installed products—VMware Horizon Client v4.9.0.2862</td>
<td>Programs and Features—VMware Horizon Client v4.9.0.2862</td>
<td>About—4.9.0 build-9539668</td>
</tr>
<tr>
<td>• WDM Packages—VMware Horizon Client v4.9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ENERGY STAR compliant

The product meets the ENERGY STAR thin client requirement. The following are the default values displayed in the Control Panel applet of power options for Windows Embedded Standard 7, Windows Embedded Standard 7P, and Windows 10 IoT Enterprise:

- Supports WOL power off states.
- Supports Idle State wake.
- Screen off timer is set to 10 minutes.
- Sleep timer is set to 15 minutes.

System requirements

The following table provides the information about the system requirements to deploy the VMware Horizon Client v4.9 package on thin clients:

Table 31. System requirements

<table>
<thead>
<tr>
<th>Operating systems</th>
<th>Minimum free space required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows Embedded Standard 7</td>
<td>800 MB</td>
</tr>
<tr>
<td>Windows Embedded Standard 7P</td>
<td>800 MB</td>
</tr>
<tr>
<td>Windows 10 IoT Enterprise</td>
<td>800 MB</td>
</tr>
</tbody>
</table>
VMware Horizon Client version 4.8

Release type and definition

This release note provides information about the latest release of VMware Horizon Client 4.8 package on the following operating systems:

- Windows Embedded Standard 7
- Windows Embedded Standard 7P
- Windows 10 IoT Enterprise

The following are the features of VMware Horizon Client v4.8:

- Optimized VMware Blast protocol performance
- Supports VMware Horizon Performance tracker
- Supports Automatic Internet protocol selection.
- Lists only the smart card certificates
- Generates shortcut icons to access server related features
- Supports serial port redirection for published desktops and applications
- Supports Simple Device Orientation (SDO) sensor redirection
- Supports multiple files in nested mode
- Supports OpenSSL v1.0.2

The following are the features of VMware Horizon Agent v7.5:

- Supports HTML5 Multimedia Redirection for the Microsoft Edge browser
- Supports subdirectories with URL content redirection
- Supports Simple Device Orientation (SDO) Sensor Redirection
- Supports VMware logon monitor instance
- Supports VMware Horizon Performance tracker

The following are the features of VMware Horizon Connection server v7.5:

- Supports VMware Horizon Client console
- Supports instant clones
- Supports Cloud Pod architecture
- Supports VMware Horizon Client Help Desk Tool

VMware Horizon Client 4.8 package information

This section provides information about VMware Horizon Client 4.8 package.

Table 32. Package information

<table>
<thead>
<tr>
<th>Operating system</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows Embedded Standard 7—WES7</td>
<td>Filename—VMwareHorizonClient_4_8_WES7.exe</td>
</tr>
<tr>
<td></td>
<td><strong>Minimum requirements</strong></td>
</tr>
<tr>
<td></td>
<td>• Package can be installed on Windows Embedded Standard 7 (WES7) builds.</td>
</tr>
<tr>
<td></td>
<td>• System reboots two times during the package deployment.</td>
</tr>
<tr>
<td></td>
<td>• Minimum free disk space required to install this package is 800 MB.</td>
</tr>
<tr>
<td>Windows Embedded Standard 7P—WES7P</td>
<td>Filename—VMwareHorizonClient_4_8_WES7P.exe</td>
</tr>
<tr>
<td></td>
<td><strong>Minimum requirements</strong></td>
</tr>
</tbody>
</table>
### Known issues

The following table lists the known issues in this release:

#### Table 33. Known issues

<table>
<thead>
<tr>
<th>Defect ID</th>
<th>Summary</th>
<th>Workaround</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS-2102</td>
<td>The mapped drive Z and USB is not getting redirected in the PCoIP VMware Session</td>
<td>To access drive Z in VMware session, go to Settings &gt;Sharing add drive Z to be shared for the published desktop and save the settings. This redirects the Z drive.</td>
</tr>
<tr>
<td>WS-1829</td>
<td>In VMware Horizon Client, there will be low computer memory and the VMware Remote MKS alert dialogue appears after the VMware session is launched.</td>
<td>There is no workaround available.</td>
</tr>
</tbody>
</table>

### Supported platforms

#### Windows Embedded Standard 7
- Dell Wyse 3030 thin client
- Dell Wyse 7010 thin client—Z90D7
- Dell Wyse 7010 Extended Chassis thin client—Z90DE7
- Dell Wyse 5010 thin client—D90D7
- Dell Wyse 7020 thin client—Z90Q7
- Dell Wyse 5020 thin client—D90Q7

#### Windows Embedded Standard 7P
- Dell Wyse 7020 thin client—Z90Q7P
- Dell Wyse 5020 thin client—D90Q7P
- Dell Wyse 7020 accelerated graphics thin client—Z90QQ7P
- Dell Wyse 5010 thin client—D90D7P
- Z90D7P
- Dell Wyse 7040 thin client
- Latitude E7270 mobile thin client
- Latitude 3460 mobile thin client
- Dell Wyse 5060 thin client

#### Windows 10 IoT Enterprise
- Dell Wyse 7020 thin client—Z90Q10
- Dell Wyse 5020 thin client—D90Q10
- Dell Wyse 7020 thin client—Z90QQ10
- Dell Wyse 5060 thin client
- Dell Wyse 7040 thin client
- Latitude 3480 mobile thin client
- Latitude 5280 mobile thin client

System requirements

The following table provides the information about the system requirements to deploy the VMware Horizon Client 4.8 package on thin clients:

Table 34. System requirements

<table>
<thead>
<tr>
<th>Operating systems</th>
<th>Minimum free space required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows Embedded Standard 7</td>
<td>800 MB</td>
</tr>
<tr>
<td>Windows Embedded Standard 7P</td>
<td>800 MB</td>
</tr>
<tr>
<td>Windows 10 IoT Enterprise</td>
<td>800 MB</td>
</tr>
</tbody>
</table>

ENERGY STAR compliant

The product meets the ENERGY STAR version 6.0 thin client requirement. The following are the default values displayed in the Control Panel applet of power options for Windows Embedded Standard 7, Windows Embedded Standard 7P, and Windows 10 IoT Enterprise:
- Supports WOL power off states.
- Supports Idle State wake.
- Screen off timer is set to 10 minutes.
- Sleep timer is set to 15 minutes.
Release type and definition

This release note provides information about the latest release of VMware Horizon Client 4.7 package on the following operating systems:

- Windows Embedded Standard 7
- Windows Embedded Standard 7P
- Windows Embedded 8 Standard
- Windows 10 IoT Enterprise

The following are the new features in this release:

- VMware Blast network recovery enhanced.
- USB devices are connected automatically.
- URL content redirection works with Google Chrome browser.
- High color accuracy with VMware Blast.
- Windows 10 Fall Creator update is supported on operating system build 1709 onwards.
- Session collaboration is supported.
- Blocks multiple horizon client instances.
- Fingerprint scanner redirection is supported.

To install the VMware Horizon Client 4.7 package ensure that you are using:

1. Use Wyse Device Manager v5.7.2 with the latest version of HAgent/WDA installed on your thin client.
2. Use Wyse Management Suite v1.1 with the latest version of Wyse Device Agent installed on your thin client.
3. Use SCCM 2016 with the latest version of configuration Management agent installed on your thin client.

VMware Horizon Client 4.7 package information

This section provides information about VMware Horizon Client 4.7 package.

Table 35. Package information

<table>
<thead>
<tr>
<th>Operating system</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows Embedded Standard 7—WES7</td>
<td>Filename—VMwareHorizonClient_4_7_WES7.exe</td>
</tr>
<tr>
<td></td>
<td>Minimum requirements</td>
</tr>
<tr>
<td></td>
<td>• Package can be installed on Windows Embedded Standard 7 (WES7) builds.</td>
</tr>
<tr>
<td></td>
<td>• System reboots two times during the package deployment.</td>
</tr>
<tr>
<td></td>
<td>• Minimum free disk space required to install this package is 450 MB.</td>
</tr>
<tr>
<td></td>
<td>• File size is 243 MB.</td>
</tr>
<tr>
<td></td>
<td>More information</td>
</tr>
<tr>
<td></td>
<td>• Shortcut icon for the VMware Horizon client is created on the Desktop.</td>
</tr>
<tr>
<td></td>
<td>• Install the vWorkspace_USB_uninstall.exe file before installing VMwareHorizonClient_4_7_WES7.exe file through Wyse Management Suite v1.1 or manually for Wyse 3030 thin client.</td>
</tr>
<tr>
<td></td>
<td>Package name: vWorkspace_USB_uninstall.exe</td>
</tr>
<tr>
<td></td>
<td>• Install the package to uninstall vWorkspace USB hub.</td>
</tr>
</tbody>
</table>
Operating system | Details
---|---
• Install the package before installing VMwareHorizonClient_4_7_WES7.exe package.
• Package can be installed on Windows Embedded Standard 7 (WES7) builds.
• System reboots two times during the package deployment.
• Minimum free disk space required to install this package is 90 MB.

Windows Embedded Standard 7P—WES7P
Filename—VMwareHorizonClient_4_7_WES7P.exe
Minimum requirements
• Package can be installed on Windows Embedded Standard 7P (WES7P) builds.
• System reboots two times during the package deployment.
• Minimum free disk space required to install this package is 450 MB.
• File size is 243 MB.
More information
• Shortcut icon for the VMware Horizon View client is created on the Desktop.

Windows Embedded 8 Standard—WE8S
Filename—VMwareHorizonClient_4_7_WE8S.exe
Minimum requirements
• Package can be installed on Windows Embedded Standard 8 (WE8S) builds.
• System reboots two times during the package deployment.
• Minimum free disk space required to install this package is 450 MB.
• File size is 243 MB.
More information
• Shortcut icon for the VMware Horizon View client is created on the Desktop.

Windows 10 IoT Enterprise—WIE10
Filename—VMwareHorizonClient_4_7_WIE10.exe
Minimum requirements
• Package can be installed on Windows 10 IoT Enterprise (WIE10) builds.
• System reboots two times during the package deployment.
• Minimum free disk space required to install this package is 450 MB.
• File size is 330 MB.
More information
• Shortcut icon for the VMware Horizon View client is created on the Desktop.

Known issues

The following table lists the known issues in this release:

### Table 36. Known issues

<table>
<thead>
<tr>
<th>Summary</th>
<th>Workaround</th>
</tr>
</thead>
<tbody>
<tr>
<td>The BSOD screen with an error code “0x000000CE” is displayed when you upgrade the VMware add-on version 4.3 to version 4.6.1</td>
<td>Install the vWorkspace_USB_uninstall.exe file before you install VMwareHorizonClient_4_7_WES7.exe</td>
</tr>
</tbody>
</table>
## Summary

<table>
<thead>
<tr>
<th>Using VMware 4.6.1 installer through Wyse Device Manager and Wyse Management Suite.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VMware session is displayed in full screen mode when the full screen option is not enabled in profile configuration.</td>
</tr>
<tr>
<td>There is no workaround.</td>
</tr>
<tr>
<td>After you deploy VMware profile configuration with Microsoft RDP protocol, VMware session is launched with Microsoft RDP for the first login, and with VMware Blast* for all subsequent logins.</td>
</tr>
<tr>
<td>There is no workaround.</td>
</tr>
<tr>
<td>After you launch the publication application through VMware horizon client 6 processes by name VMware View HTML5 Video player 64-bit is created on the thin client.</td>
</tr>
<tr>
<td>There is no workaround.</td>
</tr>
<tr>
<td>While using the published applications on the thin client, the background color is black and an yellow bang is displayed on the AMD display adapter drivers.</td>
</tr>
<tr>
<td>There is no workaround.</td>
</tr>
<tr>
<td>The memory space is low when you start the VMware session.</td>
</tr>
<tr>
<td>There is no workaround.</td>
</tr>
<tr>
<td>Audio playback is not clear with USB audio devices (USB headset or USB speaker) when redirected to virtual desktop of VMware session.</td>
</tr>
<tr>
<td>There is no workaround.</td>
</tr>
<tr>
<td>The memory space is low while collecting the support data in VMware session.</td>
</tr>
<tr>
<td>There is no workaround.</td>
</tr>
<tr>
<td>A black screen is displayed when you play a video inside the VMware session.</td>
</tr>
<tr>
<td>There is no workaround.</td>
</tr>
<tr>
<td>H.264 is not enabled in logs.</td>
</tr>
<tr>
<td>There is no workaround.</td>
</tr>
<tr>
<td>On the thin client desktop a folder named GPUcache is created after you launch the desktop through VMware horizon client.</td>
</tr>
<tr>
<td>There is no workaround.</td>
</tr>
<tr>
<td>The following message is displayed when you start the VMware session Your Computer is on low memory close these programs *VMware Remote MKS</td>
</tr>
<tr>
<td>There is no workaround.</td>
</tr>
<tr>
<td>Observed FBWF low memory issue While working with VMware, FBWF low memory issues is displayed.</td>
</tr>
<tr>
<td>There is no workaround.</td>
</tr>
<tr>
<td>The VMware icon is not displayed on the remote clients tab in the metro start menu.</td>
</tr>
<tr>
<td>There is no workaround.</td>
</tr>
</tbody>
</table>

## Workaround

### Summary

<table>
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</tr>
</thead>
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<tr>
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</tr>
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<tr>
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</tr>
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<td>The memory space is low when you start the VMware session.</td>
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<tr>
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<tr>
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<tr>
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<tr>
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<tr>
<td>There is no workaround.</td>
</tr>
</tbody>
</table>

## Tested platforms

This section lists the tested platforms.

### Table 37. Windows Embedded Standard 7

<table>
<thead>
<tr>
<th>Platform</th>
<th>Configuration</th>
<th>Build number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dell Wyse 3030 thin client—3290</td>
<td>16GB Flash and 4GB RAM</td>
<td>7064</td>
</tr>
<tr>
<td>Dell Wyse 7010 thin client—Z90D7</td>
<td>16GB Flash and 4GB RAM</td>
<td>7064</td>
</tr>
<tr>
<td>Dell Wyse 7010 Extended Chassis thin client—Z90DE7</td>
<td>16GB Flash and 4GB RAM</td>
<td>7064</td>
</tr>
<tr>
<td>Platform</td>
<td>Configuration</td>
<td>Build number</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Dell Wyse 5010 thin client—D90D7</td>
<td>16 GB Flash and 4 GB RAM</td>
<td>7064</td>
</tr>
<tr>
<td>Dell Wyse 7020 thin client—Z90Q7</td>
<td>16 GB Flash and 4 GB RAM</td>
<td>7064</td>
</tr>
<tr>
<td>Dell Wyse 5020 thin client—D90Q7</td>
<td>16 GB Flash and 4 GB RAM</td>
<td>7064</td>
</tr>
</tbody>
</table>

**Table 38. Windows Embedded Standard 7P**

<table>
<thead>
<tr>
<th>Platform</th>
<th>Configuration</th>
<th>Build number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dell Wyse 7020 thin client—Z90Q7P</td>
<td>16 GB Flash and 4 GB RAM</td>
<td>7066 (Asian)</td>
</tr>
<tr>
<td>Dell Wyse 7020 thin client—Z90Q7P</td>
<td>16 GB Flash and 4 GB RAM</td>
<td>7065 (European)</td>
</tr>
<tr>
<td>Dell Wyse 5020 thin client—D90Q7P</td>
<td>16 GB Flash and 4 GB RAM</td>
<td>7066 (Asian)</td>
</tr>
<tr>
<td>Dell Wyse 5020 thin client—D90Q7P</td>
<td>16 GB Flash and 4 GB RAM</td>
<td>7065 (European)</td>
</tr>
<tr>
<td>Dell Wyse 7020 accelerated graphics thin client—Z90QQ7P</td>
<td>16 GB Flash and 4 GB RAM</td>
<td>7066 (Asian)</td>
</tr>
<tr>
<td>Dell Wyse 7020 accelerated graphics thin client—Z90QQ7P</td>
<td>16 GB Flash and 4 GB RAM</td>
<td>7065 (European)</td>
</tr>
<tr>
<td>D90D7P</td>
<td>16 GB Flash and 4 GB RAM</td>
<td>0896</td>
</tr>
<tr>
<td>Z90D7P</td>
<td>16 GB Flash and 4 GB RAM</td>
<td>0896</td>
</tr>
<tr>
<td>Dell Wyse 7040 thin client</td>
<td>256 GB SED/128 GB SSD/500 HDD and 4 GB/8 GB RAM</td>
<td>7065</td>
</tr>
<tr>
<td>Latitude E7270 mobile thin client</td>
<td>128 GB Flash and 8 GB RAM</td>
<td>7065</td>
</tr>
<tr>
<td>Latitude 3460 mobile thin client</td>
<td>128 GB Flash and 8 GB RAM</td>
<td>7065</td>
</tr>
<tr>
<td>Dell Wyse 5060 thin client</td>
<td>64 GB Flash and 4 GB RAM</td>
<td>7067</td>
</tr>
</tbody>
</table>

**Table 39. Windows Embedded 8 Standard**

<table>
<thead>
<tr>
<th>Platform</th>
<th>Configuration</th>
<th>Build number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dell Wyse 7010 thin client—Z90D8</td>
<td>16 GB Flash and 4 GB RAM</td>
<td>0924</td>
</tr>
<tr>
<td>Dell Wyse 5010 thin client—D90D8</td>
<td>16 GB Flash and 4 GB RAM</td>
<td>0924</td>
</tr>
<tr>
<td>Dell Wyse 7020 thin client—Z90Q8</td>
<td>16 GB Flash and 4 GB RAM</td>
<td>0924</td>
</tr>
<tr>
<td>Dell Wyse 5020 thin client—D90Q8</td>
<td>16 GB Flash and 4 GB RAM</td>
<td>0924</td>
</tr>
</tbody>
</table>

**Table 40. Windows 10 IoT Enterprise**

<table>
<thead>
<tr>
<th>Platform</th>
<th>Configuration</th>
<th>Build number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dell Wyse 7020 thin client—Z90Q10</td>
<td>32 GB Flash and 4 GB RAM</td>
<td>0A62</td>
</tr>
<tr>
<td>Dell Wyse 5020 thin client—D90Q10</td>
<td>32 GB Flash and 4 GB RAM</td>
<td>0A62</td>
</tr>
<tr>
<td>Dell Wyse 7020 thin client—Z90QQ10</td>
<td>32 GB Flash and 4 GB RAM</td>
<td>0A62</td>
</tr>
<tr>
<td>Dell Wyse 5060 thin client</td>
<td>32 GB Flash and 4 GB RAM</td>
<td>0A60</td>
</tr>
<tr>
<td>Platform</td>
<td>Configuration</td>
<td>Build number</td>
</tr>
<tr>
<td>------------------------------</td>
<td>----------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Dell Wyse 7040 thin client</td>
<td>256 GB SED/128 GB SSD/500 HDD and 4 GB/8 GB RAM</td>
<td>0A62</td>
</tr>
<tr>
<td>Latitude 3480 mobile thin client</td>
<td>128 GB SSD and 8 GB RAM</td>
<td>0A63</td>
</tr>
<tr>
<td>Latitude 5280 mobile thin client</td>
<td>128 GB SSD and 8 GB RAM</td>
<td>0A64</td>
</tr>
</tbody>
</table>

**ENERGY STAR compliant**

The product meets the ENERGY STAR version 6.0 thin client requirement. The following are the default values displayed in the Control Panel applet of power options for Windows Embedded Standard 7, Windows Embedded Standard 7P, Windows Embedded 8 Standard, and Windows 10 IoT Enterprise:

- Supports WOL power off states.
- Supports Idle State wake.
- Screen off timer is set to 10 minutes.
- Sleep timer is set to 15 minutes.

**System requirements**

The following table provides the information about the system requirements to deploy the VMware Horizon Client 4.7 package on thin clients:

**Table 41. System requirements**

<table>
<thead>
<tr>
<th>Operating systems</th>
<th>Minimum free space required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows Embedded Standard 7</td>
<td>450 MB</td>
</tr>
<tr>
<td>Windows Embedded Standard 7P</td>
<td>450 MB</td>
</tr>
<tr>
<td>Windows Embedded 8 Standard</td>
<td>450 MB</td>
</tr>
<tr>
<td>Windows 10 IoT Enterprise</td>
<td>450 MB</td>
</tr>
</tbody>
</table>
Installing the add-on

Downloading the installation file

1. Go to www.dell.com/support.
2. In the Enter a Service Tag, Serial Number, Service Request... field, type the Service Tag or the model number of your device, and press Enter or click the search icon.
3. On the product support page, click Drivers & downloads.
4. Select the appropriate operating system.
5. From the list, locate the file entry and click the download icon.

Installation procedure

The VMware Horizon Client can be installed using any of the following methods:

- Wyse Management Suite
- Wyse Device Manager—WDM
- Microsoft System Center Configuration Manager 2016—SCCM

Install the add-on using Wyse Management Suite

This section describes the steps to install the add-on using Wyse Management Suite.

1. Register the device to the Wyse Management Suite server, and add the device to the respective groups.
2. Copy the .exe file to the Wyse Management Suite server repository.
3. Log in to Wyse Management Suite.
4. Click Portal Administration, and then click File Repository under Console Settings.
5. Select the Local Repository check box.
6. Click Sync Files.
   Wait for the synchronization process to complete. The synchronization process copies the package from the repository to Apps and Data.
7. Click Apps and Data.
   The Apps and Data page is displayed.
8. Verify the copied package in the applications list.
9. To create a group in the Wyse Management Suite server, click Groups & Configs.
   The Groups & Configs page is displayed.
10. Click the Plus sign (+) button and enter the required details to register your client in the same group.
11. Click Apps and Data.
    The Apps and Data page is displayed.
12. Click Thin Clients under App Policies.
13. Click Add Policy to add the policy to the required group.
14. Update the required fields and click Save.
   **NOTE:** For the .exe file installation, the silent installation parameter is --silent. For repair, the silent parameter is --silent --repair, and for uninstallation, the silent parameter is --silent --uninstall
15. Click Yes to schedule the job immediately.
16. Go to the App Policy job, and enter the description.
17. From the Run drop-down menu, select Immediately.
18. Click Preview and then click Schedule.
    The package deployment takes a few minutes to complete.
NOTE:

- The lock screen is displayed during the package installation process on all the thin clients.
- System reboots two times during the package deployment.

Install the add-on using Wyse Device Manager

This section describes the steps to install the add-on using Wyse Device Manager.

1. Copy the respective .exe file to the WDM server.
2. Launch Wyse Device Manager and login using valid credentials.
3. Click Applications in the Dell Wyse Device Manager dashboard page.
   The options Images, Other Packages, Agent Update, Device Configuration, and PCoIP Device Configuration are displayed.
4. Select Other Packages.
5. Click Create Package Plus (+).
   The application prompts to download the Package Register utility.
6. Click Allow.
   The Create Package window is displayed.
7. Download the .exe file on your local repository.
8. Navigate to the folder, and run the Package Register utility file.
   The WDM Package Registration Utility window is displayed.
9. Enter WDM server address and user credentials in the respective fields.
10. Select EXE to register, and click Browse.
    The WDM Package Uploader window is displayed with the progress status bar.
11. Click Open.
    The list of selected packages is displayed.
12. Select the appropriate operating system package and provide the command line parameter as --silent for installation. For repair, provide the command line parameter as --silent --repair, and for uninstallation provide the command line parameter as --silent --uninstall.
13. Click Upload.
   The status is displayed as Success, and the package is displayed under Other Packages.
14. Go to Devices and select the target client.
15. Click Update.
16. Go to Select Package > Other Package, and select the add-on package.
17. Click Save.
   A pop-up is displayed on the target device.
18. Click Update Now on the target device.
   C:\Temp folder is created. You must edit the .rsp script manually to delete the temp folder using the command DT C:\Temp.

NOTE:

- The lock screen is not displayed during the package installation process on all the thin clients.
- System reboots two times during the package deployment.

Install the add-on using System Center Configuration Manager 2016/2019—SCCM

Prerequisites:

1. Disable the write filter.
2. Add the thin client to the SCCM server domain and restart.
3. Log in to the thin client with valid SCCM domain credentials.
4. Change the time zone and time (HH:MM:SS) according to the SCCM server.
5. Go to Control Panel > Configuration Manager > Site > Configuration Settings.
6. In the Configuration Manager service location section, enter the site code.
7. In the Actions tab, select each action, and click Run Now.
A system tray message is displayed, and the new software is available for installation.

Add a device to the new device collection

This section describes the steps to add a thin client to the new device collection list.

1. Go to Assets and Compliance > Device Collections.
2. In the Devices list, right-click a device, and go to Add Selected Items > Add Selected Items to New Device collection.
3. In the Device Collections window, enter the new device collection details, such as name and limiting collection, and click OK.
4. In the Assets and Compliance section, click Device Collections, and verify whether the device is added.

Add a device to the existing device collection

This section describes the steps to add a thin client to the existing device collection list.

1. Go to Assets and Compliance > Device Collections.
2. In the Devices list, right-click a device, and go to Add Selected Items > Add Selected Items to Existing Device collection.
3. In the Device Collections window, select the device collection group to which you need to add the device, and click OK.
4. In the Assets and Compliance section, click Device Collections, and verify whether the device is added.

Package deployment

After the thin client is added to the device collection list, use any of the following methods to deploy the add-on:

- Create and distribute a package.
- Create and deploy a task sequence.

Create and distribute a package

This section describes the steps to create and distribute a package.

1. Copy the .exe or .msi file to a shared folder.
2. Expand Software Library > Overview > Application management > Packages.
3. Right-click Packages, and click Create Package.
4. Enter the package name, description, manufacturer name, language, and version.
5. Click Next.
6. Browse to the source folder where you have copied the add-on files.
7. Click Next.
   - The newly created packages are listed in the Application Management under Package.
8. Select the Standard Program option as the program type.
   - The Standard Program page is displayed.
9. Enter the required details, and click Browse to go to the file location.
10. Select the .exe or .msi file, and enter --silent or /qn for silent installation, --silent --repair for repair, and --silent --uninstall for uninstallation.
11. Click Next.
12. Click Next until the window with the Close button is displayed.
13. Click Close.
14. Select the package, right-click, and click Distribute Content.
15. From the Add drop-down list, select Distribution Point.
16. Select an option to schedule job at a specified time, and click Next.
17. Verify the information that you have provided on the summary page, and click Next.
18. Click Close.
19. Right-click on the created package, and click Deploy.
20. Click Collection, and browse to the device collection list.
21. Select the device, and click Next.
22. From the Add drop-down list, select Distribution Point.
23. Select the available distribution points, and click OK.
24. Click Next to complete the deployment process.
25. Click Close.

The content status is displayed in green. It may take a few minutes to complete the distribution process.

Create and deploy a task sequence
This section describes the steps to create and deploy a task sequence.

1. Copy the .exe file to a shared folder.
2. Expand Software Library > Overview > Operating System.
3. Right-click Task Sequence, and click Create Task Sequence.
4. In the New Task Sequence wizard, select Create Custom Task Sequence, and click Next.
5. Click Close.
6. Right-click the created task sequence, and click Edit.
7. From the Add drop-down list, go to Software > Install Package.
8. Select the created package, and click Apply.
9. Click OK.
10. Go to Start > All Programs > Microsoft System Center > Configuration Manager Console.
    The System Center Configuration Manager window is displayed.
11. Click Software Library.
12. Right-click the created task sequence and deploy it to the required device collection.

NOTE: After you deploy the add-on using the package deployment method or through task sequence, enable the write filter.
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1. DEFINITIONS.
1.1 “Affiliate” means, with respect to a party at a given time, an entity that then is directly or indirectly controlled by, is under common control with, or controls that party, and here “control” means an ownership, voting or similar interest representing fifty percent (50%) or more of the total interests then outstanding of that entity.
1.2 “Documentation” means that documentation that is generally provided to You by VMware with the Software, as revised by VMware from time to time, and which may include end user manuals, operation instructions, installation guides, release notes, and on-line help files regarding the use of the Software.
1.3 “Guest Operating Systems” means instances of third-party operating systems licensed by You, installed in a Virtual Machine and run using the Software.
1.4 “Intellectual Property Rights” means all worldwide intellectual property rights, including without limitation, copyrights, trademarks, service marks, trade secrets, know how, inventions, patents, patent applications, moral rights and all other proprietary rights, whether registered or unregistered.
1.5 “License” means a license granted under Section 2.1 (General License Grant).
1.6 “License Key” means a serial number that enables You to activate and use the Software.
1.7 “License Term” means the duration of a License as specified in the Order.
1.8 “License Type” means the type of License applicable to the Software, as more fully described in the Order.
1.9 “Open Source Software” or “OSS” means software components embedded in the Software and provided under separate license terms, which can be found either in the open_source_licenses.txt file (or similar file) provided within the Software or at www.vmware.com/download/open_source.html.
1.10 “Order” means a purchase order, enterprise license agreement, or other ordering document issued by You to VMware or a VMware authorized reseller that references and incorporates this EULA and is accepted by VMware as set forth in Section 4 (Order).
1.11 “Product Guide” means the current version of the VMware Product Guide at the time of Your Order, copies of which are found at www.vmware.com/download/eula.
1.12 “Support Services Terms” means VMware’s then-current support policies, copies of which are posted at www.vmware.com/support/policies.
1.13 “Software” means the VMware Tools and the VMware computer programs listed on VMware’s commercial price list to which You acquire a license under an Order, together with any software code relating to the foregoing that is provided to You pursuant to a support and subscription service contract and that is not subject to a separate license agreement.
1.14 “ Territory” means the country or countries in which You have been invoiced; provided, however, that if You have been invoiced within any of the European Economic Area member states, You may deploy the corresponding Software throughout the European Economic Area.
1.15 “Third Party Agent” means a third party delivering information technology services to You pursuant to a written contract with You.
1.16 “Virtual Machine” means a software container that can run its own operating system and execute applications like a physical machine.
1.17 “VMware” means VMware, Inc., a Delaware corporation, if You are purchasing Licenses or services for use in the United States and VMware International Limited, a company organized and existing under the laws of Ireland, for all other purchases.
1.18 “VMware Tools” means the suite of utilities and drivers, Licensed by VMware under the “VMware Tools” name, that can be installed in a Guest Operating System to enhance the performance and functionality of a Guest Operating System when running in a Virtual Machine.

2. LICENSE GRANT.

2.1 General License Grant. VMware grants to You a non-exclusive, non-transferable (except as set forth in Section 12.1 (Transfers; Assignment)) license to use the Software and the Documentation during the period of the license and within the Territory, solely for Your internal business operations, and subject to the provisions of the Product Guide. Unless otherwise indicated in the Order, licenses granted to You will be perpetual, will be for use of object code only, and will commence on either delivery of the physical media or the date You are notified of availability for electronic download.

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2.5 VMware Tools. You may distribute the VMware Tools to third parties solely when installed in a Guest Operating System within a Virtual Machine. You are liable for compliance by those third parties with the terms and conditions of this EULA.

2.6 Open Source Software. Notwithstanding anything herein to the contrary, Open Source Software is licensed to You under such OSS’s own applicable license terms, which can be found in the open_source_licenses.txt file, the Documentation or as applicable, the corresponding source files for the Software available at www.vmware.com/download/open_source.html. These OSS license terms are consistent with the license granted in Section 2 (License Grant), and may contain additional rights benefiting You. The OSS license terms shall take precedence over this EULA to the extent that this EULA imposes greater restrictions on You than the applicable OSS license terms. To the extent the license for any Open Source Software requires VMware to make available to You the corresponding source code and/or modifications (the “Source Files”), You may obtain a copy of the applicable Source Files from VMware's website at www.vmware.com/download/open_source.html or by sending a written request, with Your name and address to: VMware, Inc., 3401 Hillview Avenue, Palo Alto, CA 94304, United States of America. All requests should clearly specify: Open Source Files Request, Attention: General Counsel. This offer to obtain a copy of the Source Files is valid for three years from the date You acquired this Software.

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8. INTELLECTUAL PROPERTY INDEMNIFICATION.

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9.1 Limitation of Liability. TO THE MAXIMUM EXTENT MANDATED BY LAW, IN NO EVENT WILL VMWARE AND ITS LICENSORS BE LIABLE FOR ANY LOST PROFITS OR BUSINESS OPPORTUNITIES, LOSS OF USE, LOSS OF REVENUE, LOSS OF GOODWILL, BUSINESS INTERRUPTION, LOSS OF DATA, OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES UNDER ANY THEORY OF LIABILITY, WHETHER BASED IN CONTRACT, TORT, NEGLIGENCE, PRODUCT LIABILITY, OR OTHERWISE. BECAUSE SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE PRECEDING LIMITATION MAY NOT APPLY TO YOU. VMWARE’S AND ITS LICENSORS’ LIABILITY UNDER THIS EULA WILL NOT, IN ANY EVENT, REGARDLESS OF WHETHER THE CLAIM IS BASED IN CONTRACT, TORT, STRICT LIABILITY, OR OTHERWISE, EXCEED THE GREATER OF THE LICENSE FEES YOU PAID FOR THE SOFTWARE GIVING RISE TO THE CLAIM OR $5000. THE FOREGOING LIMITATIONS SHALL APPLY REGARDLESS OF WHETHER VMWARE OR ITS LICENSORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES AND REGARDLESS OF WHETHER ANY REMEDY FAILS OF ITS ESSENTIAL PURPOSE.

9.2 Further Limitations. VMware’s licensors shall have no liability of any kind under this EULA and VMware’s liability with respect to any third party software embedded in the Software shall be subject to Section 9.1 (Limitation of Liability). You may not bring a claim under this EULA more than eighteen (18) months after the cause of action arises.

10. TERMINATION.

10.1 EULA Term. The term of this EULA begins on the notice of availability for electronic download or delivery of the Software and continues until this EULA is terminated in accordance with this Section 10.

10.2 Termination for Breach. VMware may terminate this EULA effective immediately upon written notice to You if: (a) You fail to pay any portion of the fees under an applicable Order within ten (10) days after receiving written notice from VMware that payment is past due; or (b) You breach any other provision of this EULA and fail to cure within thirty (30) days after receipt of VMware’s written notice thereof.

10.3 Termination for Insolvency. VMware may terminate this EULA effective immediately upon written notice to You if You: (a) terminate or suspend your business; (b) become insolvent, admit in writing Your inability to pay Your debts as they mature, make an assignment for the benefit of creditors; or become subject to control of a trustee, receiver or similar authority; or (c) become subject to any bankruptcy or insolvency proceeding.

10.4 Effect of Termination. Upon VMware’s termination of this EULA: (a) all Licensed rights to all Software granted to You under this EULA will immediately cease; and (b) You must cease all use of all Software, and return or certify destruction of all Software and License Keys (including copies) to VMware, and return, if requested by VMware, destroy, any related VMware Confidential Information in Your possession or control and certify to VMware that You have fully complied with these requirements. Any provision will survive any termination or expiration if by its nature and context it is intended to survive, including Sections 1 (Definitions), 2.6 (Open Source Software), 3 (Restrictions; Ownership), 5 (Records and Audit), 7.2 (Software Disclaimer of Warranty), 9 (Limitation of Liability), 10 (Termination), 11 (Confidential Information) and 12 (General).

11. CONFIDENTIAL INFORMATION.

11.1 Definition. “Confidential Information” means information or materials provided by one party (“Discloser”) to the other party (“Recipient”) which are in tangible form and labelled “confidential” or the like, or, information which a reasonable person knew or should have known to be confidential. The following information shall be considered Confidential Information whether or not marked or identified as such: (a) License Keys; (b) information regarding VMware’s pricing, product roadmaps or strategic marketing plans; and (c) non-public materials relating to the Software.

11.2 Protection. Recipient may use Confidential Information of Discloser: (a) to exercise its rights and perform its obligations under this EULA; or (b) in connection with the parties’ ongoing business relationship. Recipient will not use any Confidential Information of Discloser for any purpose not expressly permitted by this EULA, and will disclose the Confidential Information of Discloser only to the employees or contractors of Recipient who have a need to know such Confidential Information for purposes of this EULA and who are under a duty of confidentiality no less restrictive than Recipient’s duty hereunder. Recipient will protect Confidential Information from unauthorized use, access, or disclosure in the same manner as Recipient protects its own confidential or proprietary information of a similar nature but with no less than reasonable care.

11.3 Exceptions. Recipient’s obligations under Section 11.2 (Protection) with respect to any Confidential Information will terminate if Recipient can show by written records that such information: (a) was already known to Recipient at the time of disclosure by Discloser; (b) was disclosed to Recipient by a third party who had the right to make such disclosure without any confidentiality restrictions; (c) is, or through no fault of Recipient has become, generally available to the public; or (d) was independently developed by Recipient without access to, or use of, Discloser’s Information. In addition, Recipient will be allowed to disclose Confidential Information to the extent that such disclosure is required by law or by the order of a court of similar judicial or administrative body, provided that Recipient notifies Discloser of such required disclosure promptly and in writing and cooperates with Discloser, at Discloser’s request and expense, in any lawful action to contest or limit the scope of such required disclosure.

11.4 Data Privacy. You agree that VMware may process technical and related information about Your use of the Software which may include internet protocol address, hardware identification, operating system, application software, peripheral hardware, and non-personally
identifiable Software usage statistics to facilitate the provisioning of updates, support, invoicing or online services and may transfer such
information to other companies in the VMware worldwide group of companies from time to time. To the extent that this information
constitutes personal data, VMware shall be the controller of such personal data. To the extent that it acts as a controller, each party shall
comply at all times with its obligations under applicable data protection legislation.

12. GENERAL.

12.1 Transfers; Assignment. Except to the extent transfer may not legally be restricted or as permitted by VMware’s transfer and
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assign this EULA, any Order, or any right or obligation herein or delegate any performance without VMware’s prior written consent, which
consent will not be unreasonably withheld. Any other attempted assignment or transfer by You will be void. VMware may use its Affiliates
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performance of the services.

12.2 Notices. Any notice delivered by VMware to You under this EULA will be delivered via mail, email or fax.

12.3 Waiver. Failure to enforce a provision of this EULA will not constitute a waiver.

12.4 Severability. If any part of this EULA is held unenforceable, the validity of all remaining parts will not be affected.

12.5 Compliance with Laws; Export Control; Government Regulations. Each party shall comply with all laws applicable to the actions
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export control laws is prohibited. You represent that (1) you are not, and are not acting on behalf of, (a) any person who is a citizen,
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the U.S. Government shall be governed solely by the terms and conditions of this EULA.

12.6 Construction. The headings of sections of this EULA are for convenience and are not to be used in interpreting this EULA. As used in
this EULA, the word “including” means “including but not limited to”.

12.7 Governing Law. This EULA is governed by the laws of the State of California, United States of America (excluding its conflict of law
rules), and the federal laws of the United States. To the extent permitted by law, the state and federal courts located in Santa Clara
County, California will be the exclusive jurisdiction for disputes arising out of or in connection with this EULA. The U.N. Convention on
Contracts for the International Sale of Goods does not apply.

12.8 Third Party Rights. Other than as expressly set out in this EULA, this EULA does not create any rights for any person who is not a
party to it, and no person who is not a party to this EULA may enforce any of its terms or rely on any exclusion or limitation contained in it.

12.9 Order of Precedence. In the event of conflict or inconsistency among the Product Guide, this EULA and the Order, the following
order of precedence shall apply: (a) the Product Guide, (b) this EULA and (c) the Order. With respect to any inconsistency between this
EULA and an Order, the terms of this EULA shall supersede and control over any conflicting or additional terms and conditions of any
Order, acknowledgement or confirmation or other document issued by You.

12.10 Entire Agreement. This EULA, including accepted Orders and any amendments hereto, and the Product Guide contain the entire
agreement of the parties with respect to the subject matter of this EULA and supersede all previous or contemporaneous
communications, representations, proposals, commitments, understandings and agreements, whether written or oral, between the parties
regarding the subject matter hereof. This EULA may be amended only in writing signed by authorized representatives of both parties.

12.11 Contact Information. Please direct legal notices or other correspondence to VMware, Inc., 3401 Hillview Avenue, Palo Alto, California
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