Hewlett Packard
Enterprise

Intelligent Provisioning 2.70 Release Notes

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Description

Intelligent Provisioning is a single-server deployment tool that installs the operating system. It is embedded in all ProLiant Gen9 servers and HPE Synergy compute modules. Intelligent Provisioning supplies most of the drivers required for the operating system in a wizard-style format.

Intelligent Provisioning replaces and improves upon the SmartStart CDs and Smart Update Firmware DVD that were used with previous generation ProLiant servers.

This document includes information about this release of Intelligent Provisioning, including support information, enhancements, and known issues and their potential workarounds.

You can find the Intelligent Provisioning user documentation on its Information Library page (**http://www.hpe.com/info/intelligentprovisioning/docs**).

Supersedes

2.6x

Product models

The current release of Intelligent Provisioning supports ProLiant Gen9 servers and HPE Synergy compute modules. For a complete list of supported servers, see the *Intelligent Provisioning Server Support Guide*.

IMPORTANT:

- The ProLiant ML10 Gen9 Server and the ProLiant ML10 v2 Server do not support Intelligent Provisioning. For information on installing an OS on these servers, see the documentation for the servers.
- The ProLiant SL, SE, and XL Servers (except the ProLiant XL420 Gen9 Server) do not support operating system installations with Intelligent Provisioning, but do support the maintenance features described in the *Intelligent Provisioning User Guide for HPE ProLiant Gen9 Servers and HPE Synergy* and online help.

Version

2.70

Operating systems and devices

NOTE:

Intelligent Provisioning does not support all server-supported operating systems, including 32-bit Linux and Windows operating systems. To install a 32-bit operating system, download the drivers from the Drivers and Downloads page (**http://www.hpe.com/support**) and search by the server model.

The following operating systems are supported for use with Intelligent Provisioning:

- Microsoft Windows Server 2016
- Microsoft Windows Server 2012 R2
- Microsoft Windows Server 2012

- Windows Server 2008 R2 SP1
- Red Hat Enterprise Linux 6.8, 6.9, 7.3, and 7.4
- SUSE Linux Enterprise Server 11 SP3, 11 SP4, 12 SP2, and 12 SP3
- VMware ESXi 5.5 Update 3
- vSphere 6.0 Update 3, 6.0 Update 2, 6.5, and 6.5 Update 1
- ClearOS 7.3

NOTE:

Support for ClearOS is purchased and delivered by ClearCenter not Hewlett Packard Enterprise. You can purchase single support incidents by submitting a support ticket to ClearCenter, or purchase a Bronze, Silver, Gold, or Platinum ClearCARE subscription. For more information, see the ClearOS web site (**https://www.clearos.com**/).

NOTE:

IP 2.70 no longer supports StoreVirtual VSA.

OS	Supported Modes			Installation Type		
	UEFI	Legacy	Secure Boot	Recom-mended	Custom	Manual
Windows Server 2016 Standard, Datacenter, Hyper-V, and Essentials	X	X	X	X	X	X
Windows Server 2012 R2 Standard, Datacenter, Hyper-V, Essentials, and Foundation	X	X	X	X	X	X
Windows Server 2012 Standard, Datacenter, Hyper-V, Essentials, and Foundation	X	X	X	X	X	X
Windows Server 2008 R2 SP1	X	X	NA	X	X	X
Red Hat Enterprise Linux 6.8 64-bit	X	X	NA	X	NA	X
Red Hat Enterprise Linux 6.9 64-bit	X	X	NA	X	NA	X
Red Hat Enterprise Linux 7.3 64-bit	X	X	NA	X	NA	X
Red Hat Enterprise Linux 7.4 64-bit	X	X	NA	X	NA	X

Table Continued

OS	Supported Modes			Installation Type		
	UEFI	Legacy	Secure Boot	Recom-mended	Custom	Manual
SUSE Linux Enterprise Server 11 SP3 64-bit	X	X	NA	X	NA	X
SUSE Linux Enterprise Server 11 SP4 64-bit	X	X	NA	X	NA	X
SUSE Linux Enterprise Server 12.2 64-bit	X	NA	NA	X	NA	X
SUSE Linux Enterprise Server 12.3 64-bit	X	NA	NA	X	NA	X
VMware ESXi 5.5 Update 3	X	X	NA	X	X	X
vSphere 6.0 Update 2	X	X	NA	X	X	X
vSphere 6.0 Update 3	X	X	NA	X	X	X
vSphere 6.5	X	X	NA	X	X	X
vSphere 6.5 Update 1	X	X	NA	X	X	X
ClearOS 7.3	X	N/A	NA	X	NA	X

NOTE:

Windows Essentials does not support Intelligent Provisioning network installations.

The following Secure Digital (SD) cards are supported for use with Intelligent Provisioning:

OS	Supported Models		Installation Type			Supported SD Card
	UEFI	Legacy	Recommended	Custom	Manual	
Windows Server 2016	X	NA	X	X	NA	32 GB (Part #-700139-B21)
Windows Server 2012 R2	X	NA	X	X	NA	32 GB (Part #-700139-B21)
Windows Server 2012	X	NA	X	X	NA	32 GB (Part #-700139-B21)
Windows Server 2008 R2 SP1	X	NA	X	X	NA	32 GB (Part #-700139-B21)

Table Continued

OS	Supported Models		Installation Type			Supported SD Card
	UEFI	Legacy	Recommended	Custom	Manual	
Red Hat Enterprise Linux 6.8 64-bit	X	NA	X	NA	X	32 GB (Part #-700139-B21)
Red Hat Enterprise Linux 6.9 64-bit	X	NA	X	NA	X	32 GB (Part #-700139-B21)
Red Hat Enterprise Linux 7.3 64-bit	X	NA	X	NA	X	32 GB (Part #-700139-B21)
Red Hat Enterprise Linux 7.4 64-bit	X	NA	X	NA	X	32 GB (Part #-700139-B21)
SUSE Linux Enterprise Server 11 SP3 64-bit	X	NA	X	NA	X	32 GB (Part #-700139-B21)
SUSE Linux Enterprise Server 11 SP4 64-bit	X	NA	X	NA	X	32 GB (Part #-700139-B21)
SUSE Linux Enterprise Server 12.2 64-bit	X	NA	X	NA	X	32 GB (Part #-700139-B21)
SUSE Linux Enterprise Server 12.3 64-bit	X	NA	X	NA	X	32 GB (Part #-700139-B21)
VMware ESXi 5.5 Update 3	X	NA	X	NA	NA	8 GB
vSphere 6.0 Update 2	X	NA	X	NA	NA	8 GB
vSphere 6.0 Update 3	X	NA	X	NA	NA	8 GB
vSphere 6.5	X	NA	X	NA	NA	8 GB
vSphere 6.5 Update 1	X	NA	X	NA	NA	8 GB

The following source media types are supported for use with Intelligent Provisioning:

DVD (disc) installation methods

OS	Recommended	Custom	Manual
Windows Server 2016 Standard, Datacenter, and Hyper-V	X	X	X
Windows Server 2016 Essentials	X	X	X
Windows Server 2012 R2 Standard, Datacenter, Hyper-V, and Foundation	X	X	X
Windows Server 2012 R2 Essentials	X	X	X
Windows Server 2012 Standard, Datacenter, Hyper-V, and Foundation	X	X	X
Windows Server 2012 Essentials	X	X	X
Windows Server 2008 R2 SP1	X	X	X
Red Hat Enterprise Linux 6.8 64-bit	X	NA	X
Red Hat Enterprise Linux 6.9 64-bit	X	NA	X
Red Hat Enterprise Linux 7.3 64-bit	X	NA	X
Red Hat Enterprise Linux 7.4 64-bit	X	NA	X
SUSE Linux Enterprise Server 11 SP3 64-bit	X	NA	X
SUSE Linux Enterprise Server 11 SP4 64-bit	X	NA	X
SUSE Linux Enterprise Server 12.2 64-bit	X	NA	X
SUSE Linux Enterprise Server 12.3 64-bit	X	NA	X
VMware ESXi 5.5 Update 3	X	X	X
vSphere 6.0 Update 2	X	X	X

Table Continued

OS	Recommended	Custom	Manual
vSphere 6.0 Update 3	X	X	X
vSphere 6.5	X	X	X
vSphere 6.5 Update 1	X	X	X
ClearOS 7.3	X	NA	X

Network file share (NFS) installation methods

NOTE:

Red Hat Enterprise Linux does not support installation through an NFS source.

OS	Recommended	Custom	Manual
Windows Server 2016 Standard, Datacenter, and Hyper-V	X	X	NA
Windows Server 2016 Essentials	NA	NA	NA
Windows Server 2012 R2 Standard, Datacenter, Hyper-V, and Foundation	X	X	NA
Windows Server 2012 R2 Essentials	NA	NA	NA
Windows Server 2012 Standard, Datacenter, Hyper-V, and Foundation	X	X	NA
Windows Server 2012 Essentials	NA	NA	NA
Windows Server 2008 R2 SP1	X	X	NA
SUSE Linux Enterprise Server 11 SP3 64-bit	X	NA	NA
SUSE Linux Enterprise Server 11 SP4 64-bit	X	NA	NA
SUSE Linux Enterprise Server 12.2 64-bit	X	NA	NA
SUSE Linux Enterprise Server 12.3 64-bit	X	NA	NA

Table Continued

OS	Recommended	Custom	Manual
VMware ESXi 5.5 Update 3	X	X	NA
vSphere 6.0 Update 2	X	X	NA
vSphere 6.0 Update 3	X	X	NA
vSphere 6.5	X	X	NA
vSphere 6.5 Update 1	X	X	NA

FTP installation methods

NOTE:

Windows and SUSE Linux Enterprise Server do not support installation from an FTP source.

OS	Recommended	Custom	Manual
Red Hat Enterprise Linux 6.8 64-bit	X	NA	NA
Red Hat Enterprise Linux 6.9 64-bit	X	NA	NA
Red Hat Enterprise Linux 7.3 64-bit	X	NA	NA
Red Hat Enterprise Linux 7.4 64-bit	X	NA	NA
VMware ESXi 5.5 Update 3	X	X	NA
vSphere 6.0 Update 2	X	X	NA
vSphere 6.0 Update 3	X	X	NA
vSphere 6.5	X	X	NA
vSphere 6.5 Update 1	X	X	NA

USB installation methods

NOTE:

Red Hat Enterprise Linux and SUSE Linux Enterprise Server do not support installation from a USB.

OS	Recommended	Custom	Manual
Windows Server 2016 Standard, Datacenter, and Hyper-V	X	X	NA
Windows Server 2016 Essentials	X	X	NA
Windows Server 2012 R2 Standard, Datacenter, Hyper-V, and Foundation	X	X	NA
Windows Server 2012 R2 Essentials	X	X	NA
Windows Server 2012 Standard, Datacenter, Hyper-V, and Foundation	X	X	NA
Windows Server 2012 Essentials	X	X	NA
Windows Server 2008 R2 SP1	X	X	NA
VMware ESXi 5.5 Update 3	X	X	NA
vSphere 6.0 Update 2	X	X	NA
vSphere 6.0 Update 3	X	X	NA
vSphere 6.5	X	X	NA
vSphere 6.5 Update 1	X	X	NA

Internet from nearest mirror server method

OS	Recommended	Custom	Manual
ClearOS **NOTE:** If ClearOS is using the Recommended installation, the only option is to install using the **Internet from nearest mirror server** source media. All other operating systems cannot be installed using the **Internet from nearest mirror server** source media.	X	NA	NA

For information about supported servers and the supported firmware, software, and driver versions, see the Intelligent Provisioning Server support guide, available on the Intelligent Provisioning Information Library (**http://www.hpe.com/info/intelligentprovisioning/docs**).

Enhancements

- Support for Red Hat Enterprise Linux 6.9 x64-bit
- Support for Red Hat Enterprise Linux 7.4 x64-bit
- Support for SUSE Enterprise Linux Server 12 SP 3
- Support for vSphere 6.5 Update 1
- Driver updates

Fixes

Fixed an issue where diagnostics might have incorrectly displayed memory errors or did not run as expected.

Correlation between Intelligent Provisioning, SPP, and iLO

Intelligent Provisioning Version	SPP Release Set	iLO Version
Intelligent Provisioning 2.10	SPP 2014.09.0	iLO v2.10
Intelligent Provisioning 2.20	SPP 2015.06.0	iLO v2.22
Intelligent Provisioning 2.30	SPP 2015.10.0	iLO v2.30
Intelligent Provisioning 2.40	SPP 2016.04.0	iLO v2.40
Intelligent Provisioning 2.40(B)	SPP 2016.04.0	iLO v2.40
Intelligent Provisioning 2.50	SPP 2016.10.0	iLO v2.50
Intelligent Provisioning 2.60	SPP 2017.04.0	iLO v2.53
Intelligent Provisioning 2.70	SPP 2017.10.1	iLO v2.55

Installation instructions

ProLiant Gen9 servers and HPE Synergy compute modules are preloaded with a basic set of firmware and operating system components that are installed with Intelligent Provisioning. After the server is running, use the Intelligent Provisioning Firmware Update utility to update any components that have become outdated since the server was manufactured.

NOTE:

When using the Firmware Update utility, verify that the **Installed Version** of the component (displayed on the left side of the Firmware Update screen) is newer than the version listed on the right side of the screen. If the installed version is newer, clear the check box for the component. HPE Synergy servers do not support the Firmware Update utility.

Updating instructions are documented in the Intelligent Provisioning user guide. You can download the latest Intelligent Provisioning ISO from the Intelligent Provisioning website (**http://www.hpe.com/servers/intelligentprovisioning**).

Known issues and suggested actions

Hewlett Packard Enterprise strongly recommends that you apply the resolutions listed in this document. Failure to do so might result in issues that can cause disruption to the operation and functionality of ProLiant Gen9 servers and HPE Synergy compute modules. The following list is updated as new issues are discovered and resolved.

Installation issues

Bootable USB error message

Symptom

You are using a bootable USB key that was created with a CD or DVD source to install Intelligent Provisioning, and you briefly see `ERROR: BLOB_OP_CREATE failed! errorcode 1 expected!` on the screen.

Action

Ignore the message, and continue with the installation.

Network Share errors

Symptom

You are using Network Share as the installation source media, and you see a message stating that parameters or credentials are wrong.

Action

Verify that the Network Share is available (up), and retry the installation.

FC, FCoE, or iSCSI installation fails

Symptom

You cannot install an OS from FC, FCoE, or iSCSI.

Action

These are not supported in the current version of Intelligent Provisioning.

Cannot select installation device from multiple SmartArray controllers during installation in Legacy BIOS Mode

Symptom

You are installing in Legacy BIOS Mode on a system with two different SmartArray controller cards, and you cannot select the card from which you want to boot.

```
Cannot select installation device from multiple SmartArray controllers during installation in Legacy BIOS Mode
```

Perform one of the following actions:

Action

- Use Intelligent Provisioning to update the SmartArray firmware to the latest version.
- Change the boot mode to UEFI Mode.

Operational issues

Email address not accepted for Direct Connect registration

Symptom

Entering your email address as your HPE Passport user ID during Direct Connect registration does not work, even though your email address is the HPE Passport user ID that you used during the HPE Passport registration process.

Action

Enter your Hewlett Packard Enterprise Support Center (HPESC) user ID rather than your email address, and retry registering.

Target Controller selection has no effect

Symptom

The **Target Controller** selection field on the Intelligent Provisioning Hardware Settings page might have no effect during configuration when you are using UEFI Mode or Legacy BIOS Mode.

Action

If the targeted controller is not the correct one for your multicontroller system, disable the unwanted device to force installation to the correct device.

Cannot change iLO network setting

Symptom

You want to change the iLO Static IPv4 or DHCP setting on the Intelligent Provisioning Preferences page, but the dedicated iLO port setting is forced, and the iLO network setting is not changed for the system using the shared iLO port. As a result, iLO cannot be accessed remotely.

Action

To change the iLO Static IPv4 or DHCP network setting, use the iLO GUI or the iLO Configuration Utility menu in the UEFI System Utilities.

HPE remote support registration fails

Symptom

When you are registering for HPE remote support using a proxy server, the registration fails, and you see an `Invalid Proxy Credentials` error message.

Action

Do not use a proxy server when registering for HPE remote support.

Cannot disable Dynamic Smart Array B140i controller from PCI Device Enable/Disable in Legacy BIOS Mode

Symptom

You are operating in Legacy BIOS Mode, and cannot disable a Dynamic Smart Array B140i controller using the **PCI Device Enable/Disable** option in the UEFI System Utilities.

Action

The Dynamic Smart Array (B140i) controller is only supported in UEFI Mode. To disable it in Legacy BIOS Mode, you must instead enable SATA controller support. To do so, select **Enable SATA AHCI Support** from the Embedded SATA Configuration options in the UEFI System Utilities.

Cannot boot and complete OS setup

Symptom

You are completing the OS setup on a server in UEFI mode, and you see a message stating that no available boot device can be found, and that the system will reboot.

Action

Verify that you are booting from a device that supports UEFI Boot Mode, and then retry the OS setup.

Cannot enter Japanese characters into configurable fields

Symptom

You cannot enter Japanese characters into configurable fields, even when Japanese is selected in the Intelligent Provisioning Preferences for the interface and keyboard.

Action

Because only English characters are supported in configurable fields, enter English characters.

Ethernet port listed as an unknown network adapter

Symptom

One of the Ethernet ports of the HPE Ethernet 10Gb 2–port 562SFP+, 562SFP+, or 563i adapter is shown as `Unknown network adapter` on the Intelligent Provisioning Preferences page.

Action

Use the other working port. If multiple ports are required, use a different adapter.

Controller not listed in the Target Controller field

Symptom

The **Target Controller** field on the Hardware Settings page does not list controllers when the logical volume is absent.

Action

Use HPE SSA to create a logical volume.

Intelligent Provisioning might not properly function on Gen9 servers with Gen8 controllers

Symptom

When using Gen9 servers with Gen8 controllers, Intelligent Provisioning might not properly function during network installations.

Action

Use only Gen9 controllers with Gen9 servers.

User interface issues

Changes to the system boot mode not immediately implemented

Symptom

You change the system boot mode to UEFI Mode or Legacy Boot Mode, but the change is not immediately shown in the user interface.

Action

None. This is normal operation. Changes to the system boot mode are implemented during the OS installation process, or during the next server POST.

English language content included on some localized pages.

Symptom

English language content is sometimes included on pages that are localized.

Action

No action is required. Functionality is not affected.

OS settings appear differently on the OS Information page than on the Review page

Symptom

When performing a Windows Hyper-V 2012 R2 Recommended installation, the **Operating System Family** name and **Operating System** version are different on the OS Information page than what appears for the **OS Family and Version** setting on the Review page.

Action

None. Ignore the OS name difference, and proceed with the installation.

NIC settings appear differently on the iLO page than on the iLO Configuration Utility page

Symptom

NIC settings do not match between the iLO page and the iLO Configuration Utility page. The check box is selected for **Use Shared Network Port** on the iLO page, but the check box is not selected for **Use iLO Dedicated Network Port** on the iLO Configuration Utility page.

Action

None. Ignore the network settings differences, and proceed with the installation.

Log sizes appear differently on the iLO page than on the AHSD Utility page

Symptom

The sizes of the logs do not match between the AHS logs taken from the iLO page and the logs from the AHSD Utility.

Action

Use and rely upon the AHS logs from the iLO page.

HPE Synergy compute module Converged Network Adapter name appears differently on the Intelligent Provisioning Preferences page than in the UEFI System Utilities

Symptom

The 3820 10/20Gb Converged Network Adapter for an HPE Synergy compute module appears as `HP NPAR 3820C 10/20Gb Converged Network Adapter` on the Intelligent Provisioning Preferences page, but it appears as `HPE Synergy 3820C 10/20Gb Converged Network Adapter — CNA` in the UEFI System Utilities System Configuration settings.

Action

No action is required. Functionality is not affected.

Windows-specific issues

Manual Windows Server 2016 installation and certain HPE Smart Storage Adapters do not complete

Symptom

You are performing a Manual installation of Windows Server 2016 with an HPE Smart Storage Adapter (H240, H240ar, P244br, and P246br) connected to a single HDD. You cannot install the OS and the drive might have been set to offline by the installation process.

Perform one of the following actions:

Action

- If your server is configured to use UEFI Boot Mode, click the drive icon and set it online status. If your server is configured to use Legacy BIOS Boot Mode, connect an additional drive to the controller and repeat the installation process.
- Instead of performing a Manual installation, use another installation method within Intelligent Provisioning.
- Install the OS outside Intelligent Provisioning.

Windows installation does not boot automatically from a DVD in UEFI Mode

Symptom

You are performing a Manual installation of Windows in UEFI Mode, and the installation does not boot automatically from the DVD.

Action

When prompted, press any key to boot from the DVD.

Partition error during Windows installation

Symptom

You are installing Windows, and you see a `0 MB Partition` error on the OS information page.

Action

None. Ignore this error, and continue with the installation.

Windows Server 2016 Standard and Datacenter (HPE-Branded) editions appear in the OS selection

Symptom

When selecting to install Windows Server 2016 Standard or Datacenter editions from the OS Information page, the words "HPE-Branded" also appear.

Action

Disregard the words "HPE-Branded." HPE-Branded media is not required. This text will be removed in a future release.

Linux-specific issues

Linux installation fails when network adapter is not configured

Symptom

In certain circumstances, a Linux installation can fail with a runtime error message in Intelligent Provisioning.

Solution 1

Cause

There is no network adapter installed.

Action

1. Install a network adapter.
2. Configure the network adapter on the Intelligent Provisioning Preferences screen.

Solution 2

Cause

A network adapter has been installed or replaced, but has not been configured.

Action

Configure the network adapter on the Intelligent Provisioning Preferences screen.

Network installation fails on HPE Synergy compute module

Symptom

While installing a Linux OS on an HPE Synergy compute module with Network Share/FTP as the source media, a `Please make sure installation medium is available` message appears, and the installation stalls.

Perform one of the following actions:

Action

- Use a DVD or virtual media, and retry the installation.
- Install the OS via a network outside of Intelligent Provisioning.

Cannot install RHEL on a system without a NIC

Symptom

You are attempting to install RHEL 7.2 on a system without a NIC, and the installation fails.

Action

Install completely from a DVD (without using an IP address), and then add the NIC <filepath>.dud</filepath> files.

RedHat Enterprise Linux 7.x installation stalls when network cable is disconnected

Symptom

While installing Red Hat Enterprise Linux 7.x, the installation stalls because the NIC cable is disconnected.

Action

Keep the cable connected to the NIC at all times during the installation. If the network is not available, install Red Hat Enterprise Linux 7.x from the OS installation media, not through Intelligent Provisioning.

GRUB boot loader in Legacy BIOS Mode deployment to an SD card fails

Symptom

You are using the GRUB boot loader to deploy Linux in Legacy BIOS Mode to an SD card, and the deployment fails.

Action

Legacy BIOS Mode is not supported when installing Linux from Intelligent Provisioning to SD card. Change to UEFI Mode or install Linux without Intelligent Provisioning.

Installation pauses for an Ethernet option selection

Symptom

You are performing a Recommended installation of Red Hat Enterprise Linux, and the installation pauses for an Ethernet option.

Action

When the installation process pauses for input, manually select the Ethernet option.

Installation stalls on the Installation Summary page

Symptom

You are performing a Manual installation of Red Hat Enterprise Linux 7.**x** in Legacy BIOS Mode using a DVD, and the installation stalls on the Installation Summary page. A warning message states that `Automatic partitioning selected` is listed for the installation destination.

Perform one of the following actions:

Action

- If possible, change the boot mode to UEFI Mode.
- To complete the installation in Legacy BIOS Mode:
  1. On the Installation Summary page, click **Installation destination**.
  2. Under **Other Storage Options**, select **I would like to make additional space available**.
  3. Click **Delete all**.
  4. Click **Reclaim space**.
  5. Click **Done**.

     The Installation Summary page appears.
  6. Make any necessary setting changes, and click **Begin Installation**.

SUSE Linux Enterprise 11 Service Pack 4 installation from SD card stalls

Symptom

You are using an SD card to install SUSE Linux Enterprise 11 Service Pack 4 (SLES11 SP4). The installation stops, an error about configuring partitions appears, and the installation does not proceed.

Action

Install SUSE Linux Enterprise 11 SP4 directly from the DVD through the SD media card installer.

Linux installation with spaces in the network path fails

Symptom

You are performing a Recommended installation of SLES using Network Share as the source media. You specified a network path that contains spaces. After the files are copied to the hard drive, an `Unable to create repository` message appears, and the installation stops.

Action

Spaces are not supported in any path name. Use a network path name that does not contain spaces, and retry the installation.

FTP installation fails

Symptom

You are performing a Recommended installation of Linux using Network Share/FTP as the media on an HPE Ethernet 4x25Gb 1-port 620QSFP28 Adapter. After the files are copied to the hard drive, a `No Driver Found` message appears, and the installation stops.

Action

Use a DVD as the source media, and retry the installation.

Red Hat Enterprise Linux 7.*x* installation fails without a network connection

Symptom

When performing an assisted installation of Red Hat Enterprise Linux 7.**x**, the installation fails because a valid network connection is not available.

Action

Ensure that the network is running and can access a working DHCP or other network, then retry the installation.

SLES installs with NFS as source media are timing out

Symptom

While installing SLES with an NFS source media, the installation process gets stuck with the following error message:

```
Could not find the SUSE Linux Enterprise Server xx Repository. Activating manual setup program.
```

This observation is seen for the 536FLR-T adapter.

Cause

The 536FLR-T adapter is not supported for a net installation on SLES.

VMware-specific issues

VMware does not always follow controller ordering

Symptom

During installation on multiple controller systems, VMware does not always follow your specified boot controller ordering.

Action

To prevent OS files from being copied to a nonboot controller, remove the nonboot controller during the initial setup, and then retry the installation.

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