



# **HPE SYNERGY FIRMWARE AND SOFTWARE COMPATIBILITY MATRIX FOR VMWARE CLOUD FOUNDATION 3.10.1**

April 2021

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# CONTENTS

Overview .....	3
Matrix compliance.....	3
Upgrading solution components.....	3
Hotfixes.....	3
Advisories and bulletins.....	3
Solution software and firmware at-a-glance – HPE Synergy .....	3
VMware Cloud Foundation 3.10.1 bill of materials.....	4
HPE OneView connectors and Storage Plug-ins.....	5
Download links for HPE OneView Connectors and Storage Plug-ins.....	5
Recommended browsers.....	5
Firmware overview.....	6
HPE Synergy software release.....	6
HPE Synergy software release access requirements.....	6
HPE Synergy software release firmware and driver versions.....	6
Infrastructure firmware versions .....	7
HPE Nimble software versions .....	8
HPE Primera software versions .....	8
VMware Support and Subscription contract.....	8
URLs for firmware, software, and documentation.....	8
Rack and power links.....	8
Network links .....	8
Storage links.....	8
Server links.....	9
Software links.....	9
Remote support.....	10
Version History .....	10
Resources and additional links.....	11



## OVERVIEW

This document provides the hardware, firmware, and software versions that are validated in Hewlett Packard Enterprise lab for deploying VMware® Cloud Foundation™ (VCF) on HPE Synergy as part of the work carried out in April 2021. This document is intended to be useful for persons who install, administer, troubleshoot, or maintain the solution. Please note there can be additional hardware components, firmware, and software versions that may work fine to deploy VCF on HPE Synergy. To get such information, the readers are requested to contact your Hewlett Packard Enterprise Sales Representative. For assistance with automated deployment of HPE Synergy with VMware Cloud Foundation, contact your Hewlett Packard Enterprise Representative.

## MATRIX COMPLIANCE

Unless instructed by the Hewlett Packard Enterprise Customer Response Center in response to a support case, you do not need to update the software and firmware versions within the solution until the support window expires.

The software and firmware compatibility matrix are created using the HPE Synergy Software Release version along with the VMware Cloud Foundation 3.10.1 bill of materials (BOM).

## UPGRADING SOLUTION COMPONENTS

Before updating any software or firmware versions, contact the Hewlett Packard Enterprise Customer Response Center. Applying any firmware or software updates that are newer than the compatibility matrix listing will change the solution support experience and must be accepted by the Hewlett Packard Enterprise Customer Response Center.

For customers who prefer Hewlett Packard Enterprise to perform updates and upgrades for their solution, Hewlett Packard Enterprise Technology Services Support offers a range of services to help maintain your solution.

## HOTFIXES

Hewlett Packard Enterprise Customer Response Center will instruct you to apply specific hotfixes to address potential issues, if necessary. Hotfixes are supported as part of the support criteria for HPE Synergy  
[https://techhub.hpe.com/eginfolib/synergy/sw\\_release\\_info/VMware\\_Support.html](https://techhub.hpe.com/eginfolib/synergy/sw_release_info/VMware_Support.html).

## ADVISORIES AND BULLETINS

**Customer Notice:** Announcing HPE Storage Integration Pack for VMware vCenter 10.0 and Updates on HPE Plugins Product Pages  
[https://support.hpe.com/hpesc/public/docDisplay?docLocale=en\\_US&docId=a00101339en\\_us](https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00101339en_us).

## SOLUTION SOFTWARE AND FIRMWARE AT-A-GLANCE – HPE SYNERGY

Table 1 shows the HPE VCF solution software and firmware components for HPE Synergy.

**TABLE 1.** HPE VCF solution software and firmware at-a-glance

Component	Version
HPE Synergy Composer	6.00
HPE Synergy Composer2	6.00
HPE OneView Global Dashboard	2.30
Custom Synergy SPP	Synergy_Custom_SPP_2021.02.01_Z7550-97110.iso
HPE OEM customized vSphere distribution 6.7 U3 – HPE Synergy	VMware-ESXi-6.7.0-17167734-HPE-Synergy-670.U3.10.6.5.55-Jan2021.iso (Build: 17167734)
HPE Nimble OS	5.2.1.500
HPE Primera OS	4.2
HPE SSMC	3.7.2
<b>Note:</b> Used with Primera	
HPE Recovery Manager Central (RMC)	6.3.4
<b>Note:</b> Used with Primera and Nimble	



Component	Version
HPE Storage Integration Pack for VMware vCenter	10.2
VMware Cloud Foundation	3.10.1
<b>Note:</b> SDDC Manager 3.10.1.2 contains security fixes and it is recommended to upgrade VCF to 3.10.1.2	Upgrade VCF to 3.10.1.2
B-series SAN Fabric OS (FOS)	9.00d

## VMWARE CLOUD FOUNDATION 3.10.1 BILL OF MATERIALS

**TABLE 2.** VMware Cloud Foundation 3.10.1 BOM

Component	Version
Cloud Builder VM	3.10.1
SDDC Manager	3.10.1
VMware vCenter Server®	6.7 Update 3j (Build: 16708996)
VMware vSphere® 6.7 ESXi	ESXi 6.7 U3 (Build: 16713306)
HPE OEM Customized vSphere Distribution 6.7 U3 – HPE Synergy <b>Note:</b> Use HPE OEM build to install ESXi	VMware-ESXi-6.7.0-17167734-HPE-Synergy-670.U3.10.6.5.55-Jan2021.iso (Build: 17167734) <b>Note:</b> HPE ESXi Custom image will not match with SDDC BOM initially; It will match after the upgrade 3.10.1.2
VMware NSX®-V Data Center for vSphere	6.4.8
VMware NSX-T Data Center	2.5.2.1
VMware vRealize® Suite Lifecycle Manager	2.1 Patch 2
VMware vRealize® Log insight™	4.8
vRealize® Operations Manager™	7.5
vRealize® Automation™	7.6
VMware® Horizon™ 7	7.10.0

### NOTE

For more information and a detailed bill of materials (BOM) for VMware Cloud Foundation 3.10.1, see the release notes at <https://docs.vmware.com/en/VMware-Cloud-Foundation/3.10.1/rn/VMware-Cloud-Foundation-3101-Release-Notes.html>.

- **Cloud Builder VM:** Cloud Builder VM file named `VMware-Cloud-Builder-3.10.1.10-16808643_OVF10.ova` will install SDDC Manager and all the above VMware components as part of the VMware Cloud Foundation setup.

Download Cloud Builder VM from here:

<https://my.vmware.com/group/vmware/downloads/details?downloadGroup=VCF3101&productId=1001&rPId=51823>.

- **HPE OEM Customized vSphere Distribution 6.7:** HPE OEM Customized vSphere Distribution 6.7 U3 for HPE Synergy needs to be downloaded separately and is not part of Cloud Builder VM.

Download Custom ISO HPE VMware images from here: <https://www.hpe.com/us/en/servers/hpe-esxi.html>.



**NOTE**

HPE VMware ESXi custom image will not match with SDDC build for ESXi during the initial bring up and the cloud builder validation will throw an error “Errors found during configuration file validation. Proceed with caution”. The error “ESXi build does not match, expected build: 16713306, actual build: build-17167734” can be ignored. When the SDDC domain is upgraded to VCF 3.10.1.2, the HPE ESXi image with the build 17167734 will match with VCF 3.10.1.2 BOM.

- **VMware Cloud Foundation 3.10 guides:** Refer to the VMware Cloud Foundation 3.10 guides at <https://docs.vmware.com/en/VMware-Cloud-Foundation/3.10.1/rn/VMware-Cloud-Foundation-3101-Release-Notes.html>.

**HPE ONEVIEW CONNECTORS AND STORAGE PLUG-INS**

The following HPE OneView connectors and HPE Storage Plug-ins seamlessly integrate the manageability features of HPE Synergy into the VMware Cloud Foundation environment.

**TABLE 3.** HPE OneView connector versions

HPE OneView Connector and Storage Plug-ins	Version
HPE OneView Connector for VCF (OneView Redfish Toolkit)	0.4.0
HPE OneView for VMware vRealize Orchestrator™ (vRO)	1.4
HPE OneView for VMware vRealize Operations™ (vROps)	2.4.1
HPE OneView for VMware vRealize Log Insight™ (vRLI)	2.0
HPE Storage Integration Pack for VMware vCenter (SIPVC) <b>Note:</b> Used with HPE Primera Storage	10.2
HPE OneView for VMware vCenter (OV4VC)	10.1
HPE Storage Automation Pack for VMware vRealize Operations Manager <b>Note:</b> Supports HPE Primera	3.7
HPE Storage Automation Pack for VMware vRealize Orchestrator <b>Note:</b> Supports HPE Primera	2.3
HPE Storage content pack for VMware vRealize Log Insight	1.5
CentOS (Linux Management VMs)	8.2.2004

**Download links for HPE OneView Connectors and Storage Plug-ins**

- HPE OneView connector for VMware Cloud Foundation (HPE OneView Redfish Toolkit), <https://github.com/HewlettPackard/oneview-redfish-toolkit/releases/tag/0.4.0>
- HPE OneView connectors and their guides for vRO, vROps, vRLI, <https://myenterpriselicence.hpe.com/cwp-ui/free-software/Z7500-63235>
- HPE Storage Integration Pack for VMware vCenter, <https://myenterpriselicence.hpe.com/cwp-ui/free-software/HPESIPVC>
- HPE Storage Management Pack for VMware vRealize Operations Manager, <https://myenterpriselicence.hpe.com/cwp-ui/free-software/HPEVROPS>
- HPE Storage Content Pack for VMware vRealize Log Insight, <https://myenterpriselicence.hpe.com/cwp-ui/free-software/HPEVLOG>
- HPE Storage Automation Pack for VMware vRealize Orchestrator, <https://myenterpriselicence.hpe.com/cwp-ui/free-software/HPEVRO>
- HPE OneView for VMware vCenter, <https://www.hpe.com/downloads/ovpartners> or <https://myenterpriselicence.hpe.com/cwp-ui/free-software/Z7500-63235>

**RECOMMENDED BROWSERS**

Hewlett Packard Enterprise recommends using the following browsers:



- Internet Explorer 11
- Mozilla Firefox 59 and above
- Google Chrome 65 and above

## FIRMWARE OVERVIEW

HPE Synergy with HPE Primera and HPE Nimble on VMware Cloud Foundation 3.10.1.x solution has been tested and configured with the firmware and drivers listed in the following matrices. HPE Synergy custom SPP is used for installing drivers and firmware on HPE Synergy servers. The matrix listed in the documentation is tested for VCF 3.10.1.x with HPE Synergy 480 Gen10 and HPE Synergy 660 Gen10 servers.

### HPE Synergy software release

HPE Synergy Software Releases are comprised of Synergy Management Bundles and Synergy Custom SPP Bundles. Combinations of specific releases have been developed, tested, and released together.

### HPE Synergy software release access requirements

An active warranty or Hewlett Packard Enterprise support agreement is required to download the HPE Synergy software release. The access to the software release requires validation via the Hewlett Packard Enterprise Support Center at <http://www.hpe.com/info/hpesc>.

## HPE SYNERGY SOFTWARE RELEASE FIRMWARE AND DRIVER VERSIONS

**TABLE 4.** HPE Synergy software release firmware versions for infrastructure components

Components	Version
HPE Custom Synergy SPP	Synergy_Custom_SPP_2021.02.01_Z7550-97110.iso
System ROM HPE Synergy 480 Gen10	2.40
System ROM HPE Synergy 660 Gen10	2.40
HPE Integrated Lights-Out 5 (iLO5) (Gen10)	2.33
Server Platform Services (SPS) (HPE Gen10 Servers)	04.01.04.423
HPE Smart Array Gen10 P204i-c SR <b>Note:</b> Used with local internal integrated RAID1 boot devices.	FW: 3.00 Driver: 67.4010.1.106 (smartpqj)
HPE Smart Array Gen10 P408i-c SR <b>Note:</b> Used with local internal integrated RAID1 boot devices.	FW: 3.00 Driver: 67.4010.1.106 (smartpqj)
HPE Smart Array Gen10 P416ie-m SR <b>Note:</b> Required for D3940 deployment.	FW: 3.00 Driver: 67.4010.1.106 (smartpqj)
HPE Synergy 3820C 20Gb CNA	FW: 7.18.77 Driver: 1.1.12.0 (qfle3) Driver: 1.1.14.0 (qfle3f) Driver: 1.1.5.0 (qfle3i)
HPE Synergy 4820C 10/20/25Gb CNA	FW: 8.55.12 Driver: 3.11.31.0 (qedentv) Driver: 2.2.38.0 (qedf) Driver: 2.19.36.0 (qedi)
HPE Synergy 6820C 25/50Gb CNA	FW: 8.55.12 Driver: 3.11.31.0 (qedentv) Driver: 2.2.38.0 (qedf) Driver: 2.19.36.0 (qedi)
HPE Synergy 3530C 16Gb FC HBA <b>Note:</b> Optional component with FC deployment.	FW: 12.8.352.12 Driver: 3.1.46.0 (qlnativefc)
HPE Synergy 3830C 16Gb FC HBA <b>Note:</b> Optional component with FC deployment.	FW: 8.08.232 MBI: 6.04.04



Components	Version
	Driver: 3.1.46.0 (qlnativefc)
HPE Synergy 5330C 32Gb FC HBA <b>Note:</b> Optional component with FC deployment.	FW: 12.8.352.12 Driver: 3.1.46.0 (qlnativefc)
HPE Synergy 5830C 32Gb FC HBA <b>Note:</b> Optional component with FC deployment.	FW: 9.06.02 MBI: 1.75.07
	Driver: 3.1.46.0(qlnativefc)
HPE VC SE 40Gb F8 Module	1.7.0.1002
HPE VC SE 100Gb F32 Module	2.2.0.1003
HPE VC SE 16Gb FC Module <b>Note:</b> Optional component with FC deployment	5.30.98
HPE VC SE 32Gb FC Module <b>Note:</b> Optional component with FC deployment	5.30.98
HPE Synergy 20Gb Interconnect Link Module	1.18
HPE Synergy 50Gb Interconnect Link Module	1.1.0.1001
HPE Synergy 12Gb SAS Connection Module <b>Note:</b> Required for D3940 deployment	1.5.310.0
HPE Synergy D3940 Storage Module	4.67
HPE Synergy Frame Link Module	3.02.01
Intelligent Provisioning (Gen10) <b>Note:</b> Refer to the security bulletin section affecting Intelligent Provisioning	3.52
Integrated Smart Update Tools (iSUT) vSphere 6.7	2.7.1 cp045895.zip

## INFRASTRUCTURE FIRMWARE VERSIONS

The following firmware versions are not contained in the Service Pack for HPE ProLiant (SPP) or the HPE Synergy Software Release and must be downloaded separately to a local repository. Firmware update procedures for these components are included in the respective component documentation.

**TABLE 5.** Infrastructure firmware versions

Component	Version
Aruba 6300M Switch ( JL661A )	10.06
Aruba 8325 Switch ( JL624A )	10.06
HPE FlexFabric 5900 Switch (JG510A)	5900AF-5920AF_7.10R2432P06
HPE FlexFabric 5945 Switch (JH397A)	5945_7.10.R6555P01
HPE SN B-Series Fibre Channel Switch (SN6600B)	9.0.0b
HPE G2 Metered and Switches PDUs	2.0.0K



## HPE NIMBLE SOFTWARE VERSIONS

**TABLE 6.** HPE Nimble software versions

Component	Version
HPE Nimble OS	5.2.1.500
HPE Nimble Connection Manager (NCM) for VMware	7.0.0 (nimble-ncm-for-esx6.5-7.0.0-650012.zip)
HPE Nimble Windows Toolkit (NWT)	7.0.2 (Setup-NimbleNWT-x64.7.1.0.168.zip)
Management Plugin for vCenter	vCenter 6.7

## HPE PRIMERA SOFTWARE VERSIONS

**TABLE 7.** HPE Primera software versions

Component	Version
HPE Primera OS	4.2
HPE Primera Discovery Tool	1.0.1
HPE 3PAR StoreServ Management Console (SSMC)	SSMC 3.7.2

## VMWARE SUPPORT AND SUBSCRIPTION CONTRACT

A valid and active VMware Support and Subscription (SnS) contract entitle you to all major software version licenses from VMware, which become available during your service entitlement period.

For example, if you are running vSphere V6.5 and have a valid SnS in place when vSphere V7 is released, VMware will deposit a vSphere V7 license into your My VMware portal area. You can choose to pull the vSphere 7 software and load it with your new V7 license, or you can continue to run vSphere V6.5 software using the V6.5 license as long as it is supported by VMware.

If you permit your SnS to lapse and decide to pull and run a new major software version, when it becomes available, you must renew your service contract and pay for the back time you did not maintain a service contract, and for one additional year. This renewal process will put your SnS back into compliance and you will be entitled to the new major version license.

For more information, see the VMware support website <http://www.vmware.com/support.html>.

## URLS FOR FIRMWARE, SOFTWARE, AND DOCUMENTATION

### RACK AND POWER LINKS

- HPE G2 Metered and Switches Power Distribution Unit, <https://www.hpe.com/us/en/product-catalog/servers/power-distribution-units/pip.power-distribution-units.1009830118.html>
- HPE Rack and Power Infrastructure, <https://www.hpe.com/us/en/integrated-systems/rack-power-cooling.html>

### NETWORK LINKS

- Networking documentation page, <https://asp.arubanetworks.com/>
- Aruba 6300 Switch documentation page, <https://h20195.www2.hpe.com/v2/default.aspx?cc=ie&lc=en&oid=1012138130>
- Aruba 8325 Switch documentation page, [https://support.hpe.com/hpesc/public/docDisplay?docLocale=en\\_US&docId=a00065472en\\_us](https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00065472en_us)

### STORAGE LINKS

- HPE SN6600B Fibre Channel switches, <https://www.hpe.com/us/en/product-catalog/storage/storage-switches/pip.hpe-storefabric-sn6600b-fibre-channel-switch.1009472119.html>





- HPE Primera 600 Storage, <https://buy.hpe.com/us/en/storage/disk-storage-systems/primera-storage/primera-storage/hpe-primera-600-storage/p/1011657880.storage.8737813.html>
- HPE Nimble Storage, <https://www.hpe.com/us/en/storage/nimble.html>
- Single Point of Connectivity Knowledge (SPOCK), <http://www.hpe.com/storage/spock>

## SERVER LINKS

- HPE Synergy, <https://www.hpe.com/us/en/integrated-systems/synergy.html>
- HPE Synergy Composer, <https://www.hpe.com/us/en/product-catalog/synergy/synergy-management.hits-12.html>
- HPE ProLiant DL servers, <https://www.hpe.com/us/en/servers/proliant-dl-servers.html>
- HPE Synergy 480 Gen10, <https://www.hpe.com/us/en/product-catalog/synergy/synergy-compute/pip.hpe-synergy-480-gen10-compute-module.1010025863.html>
- HPE Synergy 660 Gen10, <https://www.hpe.com/us/en/product-catalog/synergy/synergy-compute/pip.hpe-synergy-660-gen10-compute-module.1010025844.html>
- HPE Synergy D3940, <https://www.hpe.com/us/en/product-catalog/synergy/synergy-storage/pip.hpe-synergy-d3940-storage-module.1008615217.html>
- HPE Synergy Fabric, <https://www.hpe.com/us/en/product-catalog/synergy/synergy-fabric.hits-12.html>
- HPE Synergy software release, [https://myenterpriselicense.hpe.com/cwp-ui/free-software/synergy\\_rs\\_00.00](https://myenterpriselicense.hpe.com/cwp-ui/free-software/synergy_rs_00.00)

## SOFTWARE LINKS

- HPE Synergy software release, [https://techhub.hpe.com/us/en/enterprise/docs/index.aspx?doc=/eginfolib/synergy/sw\\_release\\_info/index.html](https://techhub.hpe.com/us/en/enterprise/docs/index.aspx?doc=/eginfolib/synergy/sw_release_info/index.html)
- HPE Primera, [https://h20272.www2.hpe.com/SPOCK/Pages/spock2Html.aspx?htmlFile=sw\\_array\\_primera.html](https://h20272.www2.hpe.com/SPOCK/Pages/spock2Html.aspx?htmlFile=sw_array_primera.html)
- HPE Storage documentation, <http://www.hpe.com/info/storage/docs>
- HPE B-series SAN Network Advisor, <http://h20565.www2.hpe.com/hpsc/swd/public/readIndex?sp4ts.oid=5401278>
- HPE Storage Integration Pack for VMware vCenter 10.2 Installation guide, [https://support.hpe.com/hpsc/public/docDisplay?docId=a00111989en\\_us](https://support.hpe.com/hpsc/public/docDisplay?docId=a00111989en_us)
- HPE B-series SAN Network Advisor, <http://h20565.www2.hpe.com/hpsc/swd/public/readIndex?sp4ts.oid=5401278>
- HPE OneView
  - Software, <https://support.hpe.com/hpsc/swd/public/detail?swItemId=MTX-af7c24b0f3e54faf818e4c57d1>
  - License Portal, [https://myenterpriselicense.hpe.com/cwp-ui/free-software/synergy\\_rs\\_00.00](https://myenterpriselicense.hpe.com/cwp-ui/free-software/synergy_rs_00.00)
  - Documentation, <http://www.hpe.com/info/oneview/docs>
  - OneView Installation Guide, [https://support.hpe.com/hpsc/public/docDisplay?docId=a00110906en\\_us&page=index.html](https://support.hpe.com/hpsc/public/docDisplay?docId=a00110906en_us&page=index.html)
- HPE OneView Partner Integrations, <http://www.hpe.com/info/ovpartners>
- HPE OneView Update Readiness Checker, <https://www.hpe.com/support/ov-urc>
- HPE Recovery Manager Central (RMC)
  - Software, <https://myenterpriselicense.hpe.com/cwp-ui/free-software/HPERMC>
  - Product Information, <http://www.hpe.com/storage/rmc/docs>
- HPE VMware OEM Software Delivery Repository, <http://vibsdepot.hpe.com>
- HPE OEM customized VMware image downloads, <https://www.hpe.com/us/en/servers/hpe-esxi.html>



- VMware links
  - VCF Version 3.10.1, <https://my.vmware.com/group/vmware/downloads/details?downloadGroup=VCF3101&productId=1001&rPld=51823>
  - VMware product patch find by release name, <https://my.vmware.com/group/vmware/patch#search>

## REMOTE SUPPORT

Remote support is available with supported devices as part of your warranty or contractual support agreement. It provides intelligent event diagnosis, and automatic secure submission of hardware event notifications to Hewlett Packard Enterprise, which will initiate a fast and accurate resolution based on your product's service level. Hewlett Packard Enterprise strongly recommends that you register your device for remote support.

For more information and device support details, go to the Insight Remote Support website at <https://www.hpe.com/in/en/services/remote-it-support.html>.

## VERSION HISTORY

Document version	Date	Description of change
1.0	3/23/2021	Initial publication
2.0	4/6/2021	Components version updated



## RESOURCES AND ADDITIONAL LINKS

HPE Enterprise Support Center, <https://support.hpe.com/hpesc/public/home>

HPE Reference Architectures, <https://www.hpe.com/docs/reference-architecture>

HPE Servers, [hpe.com/servers](https://www.hpe.com/servers)

HPE Storage, [hpe.com/storage](https://www.hpe.com/storage)

HPE Networking, [hpe.com/networking](https://www.hpe.com/networking), <https://asp.arubanetworks.com/>

HPE Technology Consulting Services, [hpe.com/us/en/services/consulting.html](https://www.hpe.com/us/en/services/consulting.html)

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