

HPE Recommended VMware LifeCycle Manager Desired Image Definitions for ProLiant

VMware LifeCycle Manager (vLCM) introduces the concept of a Desired Image, which is a precise description of OS release, software, drivers and firmware. The Desired Image is defined using a VMware Base Image, Vendor AddOn, Vendor Hardware Support Pack (HSP) and additional software/driver components. vLCM support of a Vendor HSP requires installation of a Vendor vLCM Hardware Support Manager (HSM) plug-in.

This document contains HPE recommendations to define the vLCM Desired Image for HPE ProLiant Gen10 and newer servers running ESXi 7.0 or newer.

Information on HPE Synergy supported VMware ESXi OS releases, HPE ESXi Custom Images and HPE Synergy Custom SPPs is available at:

- [VMware OS Support Tool for HPE Synergy](#)

Information on HPE Synergy Software Releases is available at:

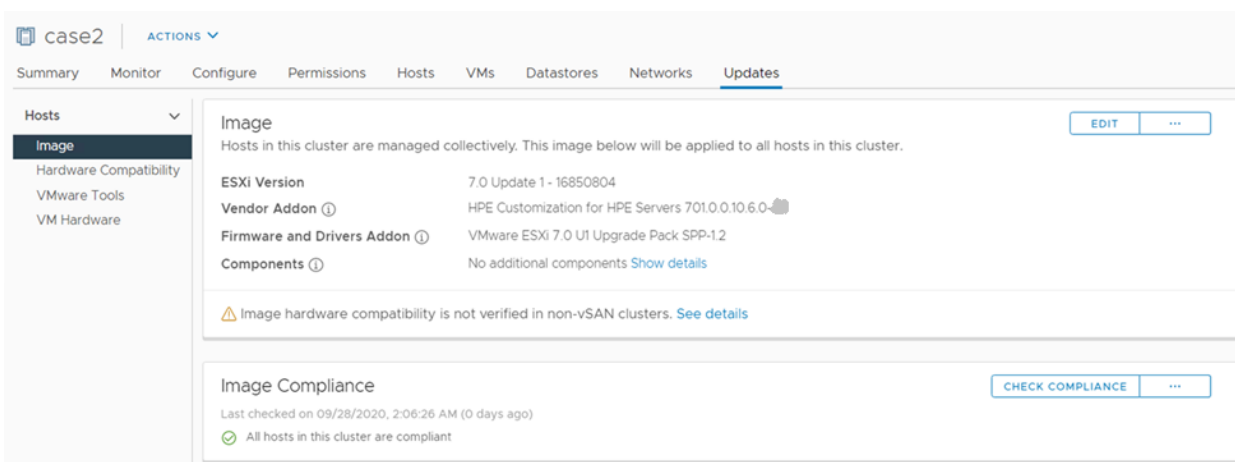
- [HPE Synergy Software Releases – Overview](#)

HPE vLCM HSM plug-ins support the Support Pack for ProLiant (SPP) and VMware Upgrade Pack (VUP) as the vLCM HSP.

vLCM support for the use of the SPP or VUP requires installation of an HPE vLCM Hardware Support Manager (HSM) plug-in. See below for more information about the HPE vLCM HSM Plug-ins:

- iLO Amplifier HSM at: [iLO Amplifier Pack Documentation](#)
- OneView HSM at: [HPE OneView for VMware vCenter Documentation](#)
 - OV4VC 10.1 and older is no longer available. Update to OneView HSM OV4VC 10.2 or newer. Refer to CA: https://support.hpe.com/hpesc/public/docDisplay?docId=emr_na-a00130066en_us
 - SPP 2022.09.01 or newer requires OV4VC 11.1 or newer.
- HPE GreenLake for Compute Ops Management plug-in for VMware vCenter at: [HPE GreenLake for Compute Ops Management Documentation](#)

The picture below shows an example of the vLCM Desired Image definition using a VMware Base Image, HPE AddOn and HPE VUP.



HPE recommends the following combinations to define the vLCM Desired Image for HPE ProLiant Gen10 and newer servers running ESXi 7.0 or newer for the VMware Base Image, the HPE AddOn and the HPE Support Pack

for ProLiant (SPP) or the VMware Upgrade Pack (VUP). For more information on the VMware Base Images, see VMware KB <https://kb.vmware.com/s/article/2143832>.

The HPE AddOns are available from the VMware unified depot as well as the ESXi image download page at: <http://www.hpe.com/info/esxdownload>

SPP Supplements and SPP Custom Download portal to create a customized SPP download are available at: <https://www.hpe.com/servers/spp/custom>

The HPE SPP Custom Download User Guide is available in at: https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00110457en_us

The VUPs and SPPs are available at:

- VUP 1.1.2: <https://www.hpe.com/global/swpublishing/MTX-57d87123033d40f38cdd45db4c>
- VUP 1.2.1: <https://www.hpe.com/global/swpublishing/MTX-48862a0a04284f589f83301afd>
- VUP 1.2.2: <https://www.hpe.com/global/swpublishing/MTX-d8599f497a4d4ffc992cab455c>
- VUP 1.3.1: <https://www.hpe.com/global/swpublishing/MTX-1b3c52de05e54950bf311be35d>
- VUP 1.4.1.1: <https://www.hpe.com/global/swpublishing/MTX-64dd56ccb3ef4c8bbd5d51e62f>
- VUP 1.4.2.1: <https://www.hpe.com/global/swpublishing/MTX-3762cce274214ab8acb4a5dd9c>
- Gen 10 SPP 2021.10.1: <https://support.hpe.com/hpesc/public/swd/detail?swItemId=MTX-517467165f10412d9e06ddf062>
- Gen10 SPP 2022.03.1 : <https://support.hpe.com/hpesc/public/swd/detail?swItemId=MTX-d0340dcd77134cf7b665732fe5>
- Gen10 SPP 2022.09.01: <https://support.hpe.com/hpesc/public/swd/detail?swItemId=MTX-7d8ee25ee8fe4031b47179d44c>
- Gen11 SPP 2022.12.00: <https://support.hpe.com/hpesc/public/swd/detail?swItemId=MTX-28f1670be00a46bca1af0bd8c0>
- Gen11 SPP 2023.02.0: <https://support.hpe.com/hpesc/public/swd/detail?swItemId=MTX-53d42b5d58534023a154aaf5f>
- Gen11 SPP 2023.04.00.00: <https://www.hpe.com/global/swpublishing/MTX-c7d34a9925374ed8a42cd14266>
- Gen10 SPP 2023.03.00.00: <https://www.hpe.com/global/swpublishing/MTX-50b300127e24428582ca72564a>
- Gen10 SPP 2023.09.00.00: <https://www.hpe.com/global/swpublishing/MTX-4d9855ba25bc45b8b2f42a04e6>
- Gen11 SPP 2023.10.00.00: <https://www.hpe.com/global/swpublishing/MTX-c65abe57fc29457b95d1330f9f>

The picture above uses the information in the second row in the table below.

NOTE: To identify the equivalent HPE Custom Image for the below listed combination of VMware Base Image + HPE AddOn, match the HPE AddOn version in the table below to the HPE ESXi Add-on version in the document at: http://vibsdepot.hpe.com/mapping/SPP-HPE_Custom-Image-vibsdepot-mapping-Gen9-later.pdf

ESXi Release	VMware Base Image	HPE AddOn	HPE VUP/SPP	Additional User Defined SW/Driver Components
ESXi 7.0	ESXi 7.0b Build 16324942	HPE ESXi 7.0 Add-On 700.0.0.10.5.5	VUP 1.1.2	
ESXi 7.0 U1	ESXi 7.0 Update 1 Build 16850804	HPE ESXi 7.0 U1 Add-On 701.0.0.10.6.0	VUP 1.2.1	

	ESXi 7.0 Update 1c Build 17325551	HPE ESXi 7.0 U1 Add-On 701.0.0.10.6.3	VUP 1.2.2	
	ESXi 7.0 Update 1d Build 17551050	HPE ESXi 7.0 U1 Add-On 701.0.0.10.7.0	VUP 1.4.1.1	

ESXi Release	VMware Base Image	HPE AddOn	HPE VUP/SPP	Additional User Defined SW/Driver Components
ESXi 7.0 U2	ESXi 7.0 U2 Build 17630552	HPE ESXi 7.0 U2 Add-On 702.0.0.10.6.3	VUP 1.3.1	
	ESXi 7.0 U2a Build 17867351	HPE ESXi 7.0 U2 Add-On 702.0.0.10.7.0	VUP 1.4.2.1	
	ESXi 7.0 U2a Build 17867351	HPE ESXi 7.0 U2 Add-On 702.0.0.10.7.0	Gen10 SPP 2021.10.1 ¹	

¹ This SPP only supports use with vLCM on ESXi 7.0 U2 using the OneView HSM

HPE removed all previously released ESXi 7.0 U3 content from vibsdepot in alignment with the VMware announcement that ESXi 7.0 Update 3, ESXi 7.0 Update 3a, and ESXi 7.0 Update 3b were removed from all online and offline download portals on November 18th, 2021. Please see [KB 86398](#) for further details. The below information is for the HPE deliverables based on the new ESXi 7.0 U3 releases.

ESXi Release	VMware Base Image	HPE AddOn	HPE VUP/SPP	Additional User Defined SW/Driver Components
ESXi 7.0 U3	ESXi 7.0 U3o Build 22348816	HPE ESXi 7.0 U3 Add-On 703.0.0.11.5.0 ²	Gen11 SPP 2023.10.00.00 ² Gen10 Patch Bundle version 2023.09.00.01 ^{2,5}	
ESXi 7.0 U3	ESXi 7.0 U3n Build 21930508	HPE ESXi 7.0 U3 Add-On 703.0.0.11.4.0 ²	Gen11-None ⁴ Gen10 SPP 2023.09.00.00 ²	
ESXi 7.0 U3	ESXi 7.0 U3l Build 21424296	HPE ESXi 7.0 U3 Add-On 703.0.0.11.3.0 ²	Gen11 SPP 2023.04.00.00 ² Gen10 SPP 2023.03.00.00 ²	
ESXi 7.0 U3	ESXi 7.0 U3i Build 20842708	HPE ESXi 7.0 U3 Add-On 703.0.0.11.2.0 ²	Gen11 SPP 2023.02.0 ² Gen10 Patch Bundle 2 Supplement ^{2,3}	
ESXi 7.0 U3	ESXi 7.0 U3i Build 20842708	HPE ESXi 7.0 U3 Add-On 703.0.0.11.1.0 ²	Gen11 SPP 2022.12.0 ² Gen10 Patch Bundle 1 Supplement ^{2,3}	
ESXi 7.0 U3	ESXi 7.0 U3f Build 20036589	HPE ESXi 7.0 U3 Add-On 703.0.0.10.10.0 ²	Gen10 SPP 2022.09.01 ²	
ESXi 7.0 U3	ESXi 7.0 U3f Build 20036589	HPE ESXi 7.0 U3 Add-On 703.0.0.10.9.1 ²	Gen10 SPP 2022.03.1 ²	
ESXi 7.0 U3	ESXi 7.0 U3d Build 19482537	HPE ESXi 7.0 U3 Add-On 703.0.0.10.9.0 ²	Gen10 SPP 2022.03.1 ²	
ESXi 7.0 U3	ESXi 7.0 U3c Build 19193900	HPE ESXi 7.0 U3 Add-On 703.0.0.10.8.1 ¹	Gen10 SPP 2021.10.1 ¹	

¹ This HPE AddOn and SPP combination is the last one that supports HPE Blades

² This HPE AddOn and SPP combination is not supported on HPE Blades

³ This is an SPP Supplement for the Gen10 SPP 2022.09.01. Newer Patch Bundle Supplements are cumulative. Refer to [Gen10 SPP 2022.09.01](#) download page and Patch Bundles section for Release Notes that include instructions on how to use the Patch Bundle to make a custom SPP bundle to use with vLCM/HSM.

⁴ The Gen11 Patch Bundle version 2023.04.00.05 is an SPP Supplement for the Gen11 SPP 2023.04.00.00. Newer Patch Bundle Supplements are cumulative. Refer to [Gen11 SPP 2023.04.00.00](#) download page and Patch Bundles section for Release Notes. Convenience Bundles with this Patch Bundle in the Custom SPP Portal are not supported with vLCM with the HPE ESXi Add-On versions 703.0.0.11.4.0, 802.0.0.11.4.0 and 801.0.0.11.4.0 due to the newer ssacli2 version 6.25.9.0 included in those Add-Ons.

⁵ This is an SPP Supplement for the Gen10 SPP 2023.09.00.00. Newer Patch Bundle Supplements are cumulative. Refer to [Gen10 SPP 2023.09.00.00](#) download page and Patch Bundles section for Release Notes that include instructions on how to use the Patch Bundle to make a custom SPP bundle to use with vLCM/HSM.

ESXi Release	VMware Base Image	HPE AddOn	HPE VUP/SPP	Additional User Defined SW/Driver Components
ESXi 8.0 U2 ²	ESXi 8.0 U2 Build 22380479	HPE ESXi 8.0 U2 Add-On 802.0.0.11.5.0	Gen11 SPP 2023.10.00.00 ¹ Gen10 - None ⁶	
ESXi 8.0 U2 ²	ESXi 8.0 U2 Build 22380479	HPE ESXi 8.0 U2 Add-On 802.0.0.11.4.0	Gen11 -None ⁵ Gen10 SPP 2023.09.00.00 ¹	
ESXi 8.0 U1 ²	ESXi 8.0 U1a Build 21813344	HPE ESXi 8.0 U1 Add-On 801.0.0.11.4.0	Gen11 -None ⁵ Gen10 SPP 2023.09.00.00 ¹	
ESXi 8.0 U1 ²	ESXi 8.0 U1a Build 21813344	HPE ESXi 8.0 U1 Add-On 801.0.0.11.3.2	None ⁴	
ESXi 8.0 U1 ²	ESXi 8.0 U1a Build 21813344	HPE ESXi 8.0 U1 Add-On 801.0.0.11.3.1	Gen11 SPP 2023.04.00.00 ¹ Gen10 SPP 2023.03.00.00 ¹	
ESXi 8.0 U1 ²	ESXi 8.0 U1 Build 21495797	HPE ESXi 8.0 U1 Add-On 801.0.0.11.3.0	Gen11 SPP 2023.04.00.00 ¹ Gen10 SPP 2023.03.00.00 ¹	
ESXi 8.0 ²	ESXi 8.0b Build 21203435	HPE ESXi 8.0 Add-On 800.0.0.11.3.1	None ⁴	
ESXi 8.0 ²	ESXi 8.0b Build 21203435	HPE ESXi 8.0 Add-On 800.0.0.11.3.0	Gen11 SPP 2023.04.00.00 ¹ Gen10 SPP 2023.03.00.00 ¹	
ESXi 8.0 ²	ESXi 8.0a Build 20842819	HPE ESXi 8.0 Add-On 800.0.0.11.2.0	Gen11 SPP 2023.02.0 ¹ Gen10 Patch Bundle 2 Supplement ^{1,3}	
ESXi 8.0 ²	ESXi 8.0 Build 20513097	HPE ESXi 8.0 Add-On 800.0.0.11.1.0	Gen11 SPP 2022.12.0 ¹ Gen10 Patch Bundle 1 Supplement ^{1,3}	
ESXi 8.0 ²	ESXi 8.0 GA Build 20513097	HPE ESXi 8.0 Add-On 800.0.0.10.10.0	Gen10 SPP 2022.09.01 ¹	

¹ This HPE AddOn and SPP combination is not supported on HPE Blades

² iLO Amplifier HSM does not support ESXi 8.0 and newer OS releases.

³ This is an SPP Supplement for the Gen10 SPP 2022.09.01. Newer Patch Bundle Supplements are cumulative. Refer to [Gen10 SPP 2022.09.01](#) download page and Patch Bundles section for Release Notes that include instructions on how to use the Patch Bundle to make a custom SPP bundle to use with vLCM/HSM.

⁴ The bnxtnet driver version 225.0.131.0 and bnxtroce driver version 225.0.131.0 are included in the HPE Custom Image for VMware vSphere 8.0 (Aug 2023) and HPE Custom Image for VMware vSphere 8.0 U1 (Aug 2023). For firmware updates for the bnxtnet driver version 225.0.131.0 and bnxtroce driver version 225.0.131.0, refer to [SPP Download Page](#). Firmware updates are not recommended with vLCM.

⁵ The Gen11 Patch Bundle version 2023.04.00.05 is an SPP Supplement for the Gen11 SPP 2023.04.00.00. Newer Patch Bundle Supplements are cumulative. Refer to [Gen11 SPP 2023.04.00.00](#) download page and Patch Bundles section for Release Notes. Convenience Bundles with this Patch Bundle in the Custom SPP Portal are not supported with vLCM with the HPE ESXi Add-On versions 703.0.0.11.4.0, 802.0.0.11.4.0, and 801.0.0.11.4.0 due to the newer ssacli2 version 6.25.9.0 included in those Add-Ons.

⁶ The Gen10 Patch Bundle version 2023.09.00.01 is an SPP Supplement for the Gen10 SPP 2023.09.00.00. Newer Patch Bundle Supplements are cumulative. Refer to [Gen10 SPP 2023.09.00.00](#) download page and Patch Bundles section for Release Notes. Convenience Bundles with this Patch Bundle in the Custom SPP Portal are not supported with vLCM with the HPE ESXi Add-On version 802.0.0.11.5.0 due to the newer nmst version 4.25.0 included in the Add-On.

Revision History

Date	Version	Change Description
11.07.23	2.10	Added VMware vSphere 7.0 U3 November 2023 HPE Custom Image which includes 7.0 U3o Added VMware vSphere 8.0 U2 November 2023 HPE Custom Image Added Gen11 SPP 2023.10.00.00 Added Gen10 Patch Bundle version 2023.09.00.01
10.25.23	2.09.1	Updated footnote regarding Gen11 Patch Bundle version 2023.04.00.05.
09.21.23	2.09	Added VMware vSphere 8.0 U2 September 2023 HPE Custom Image
09.14.23	2.08	Added VMware vSphere 7.0 U3 September 2023 HPE Custom Image which includes 7.0 U3n Added VMware vSphere 8.0 U1 September 2023 HPE Custom Image which includes 8.0a Added Gen11 Patch Bundle version 2023.04.00.05 Added Gen10 SPP 2023.09.00.00
08.08.23	2.07	Added VMware vSphere 8.0 U1 Aug 2023 HPE Custom Image which includes 8.0 U1a Added VMware vSphere 8.0 Aug 2023 HPE Custom Image which includes 8.0b
06.20.23	2.06	Added VMware vSphere 8.0 U1 June 2023 HPE Custom Image which includes 8.0 U1a
04.18.23	2.05	Added VMware vSphere 8.0 U1 April 2023 HPE Custom Image
04.11.23	2.04	Added VMware vSphere 7.0 U3 April 2023 HPE Custom Image which includes 7.0 U3l Added VMware vSphere 8.0 April 2023 HPE Custom Image which includes 8.0b Added Gen11 SPP 2023.04.00.00 Added Gen10 SPP 2023.03.00.00
02.21.23	2.03.1	Updated notes regarding OneView HSM (OV4VC) support.

Date	Version	Change Description
02.21.23	2.03	Added VMware vSphere 7.0 U3 February 2023 HPE Custom Image Added VMware vSphere 8.0 February 2023 HPE Custom Image which includes 8.0a Added Gen11 SPP 2023.02.0 Added Gen10 Patch Bundle 2 Supplement
12.20.22	2.02	Added December 2022 VMware vSphere 8.0 Added December 2022 VMware vSphere 7.0 U3 Added Gen11 SPP 2022.12.0 Added Patch Bundle 1 Supplement to Gen10 SPP 2022.09.01
11.30.22	2.01.1	Updated notes regarding OneView HSM support for 2022.09.01 and added CA reference.
10.20.22	2.01	Added October 2022 VMware vSphere 7.0 U3 2022.03.0 replaced with 2022.03.1
10.11.22	2.00	Added VMware vSphere 8.0 Added 2022.09.01 MSB
07.25.22	1.94	Replaced SPP 2021.10.0 with SPP 2021.10.1
06.28.22	1.93	Added VMware vSphere 7.0 U3f
04.06.22	1.92	Added 2022.03.0 MSB Added VMware vSphere 7.0 U3d
02.24.22	1.91	Removed note that the 2021.10.0 SPP is only supported with OneView HSM with 7.0 U3c.
02.08.22	1.90	Removed all references to previously released 7.0 U3 as VMware pulled all releases Added VMware vSphere 7.0 U3c OS release
10.26.21	1.80	Added 2021.10.0 SPP Group OS releases in table

Date	Version	Change Description
10.05.21	1.70	Added VMware vSphere 7.0 U3 OS release Added VUP 1.4.3
07.12.21	1.61	VUP 1.1A replaced by VUP 1.1.2 VUP 1.2 replaced by VUP 1.2.1 VUP 1.2A replaced by VUP 1.2.2 VUP 1.3 replaced by 1.3.1
06.30.21	1.60	Added VUP 1.4.1.1 Removed VUP 1.4.1 Removed notes regarding vLCM issues that are covered in HPE vLCM HSM plug-in documentation.
06.16.21	1.50	Added VUP 1.4.2.1 Removed VUP 1.4.2
04.19.21	1.40	Added May 2021 release information Added VUP 1.4.1 and 1.4.2
03.02.21	1.30	Added VMware vSphere 7.0 U2 OS release Added VUP 1.3
01.19.21	1.10	Added January 2021 release information.
11.13.20	1.00	Initial Version

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