



# Release Notes for StarOS™ Software Version 21.12.15 and Ultra Service Platform Version N6.6.6

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## Introduction

This Release Note identifies changes and issues related to this software release. This emergency release is based on StarOS release 21.12.14 and USP release N6.6.5. These release notes are applicable to the ASR5500, VPC-SI and VPC-DI platforms.

## Release Package Version Information

**Table 1 - Release Package Version Information**

Software Packages	Version
StarOS packages	21.12.15 build 74321
Ultra Service Platform ISO	6_6_6, Epoch 10591
usp-em-bundle*	6.6.0, Epoch 7551
usp-ugp-bundle*	21.12.15, build 74321, Epoch 8357
usp-yang-bundle	1.0.0, Epoch 5784
usp-uas-bundle	6.6.0, Epoch 7070
usp-auto-it-bundle	5.8.0, Epoch 5996
usp-vnfm-bundle	4.4.0.88, Epoch 5785
ultram-manager RPM*	2.4.0, Epoch 333
USP RPM Verification Utilities	6.6.6
* These bundles are also distributed separately from the ISO.	

Descriptions for the various packages provided with this release are located in [Table 3](#).

## Feature and Behavior Changes

Refer to the [Release Change Reference](#) for a complete list of feature and behavior changes associated with this software release.

## Related Documentation

For a complete list of documentation available for this release, go to:

- StarOS: <https://www.cisco.com/c/en/us/support/wireless/asr-5000-series/products-installation-and-configuration-guides-list.html>
- Ultra Gateway Platform (including the UltraM Solution): <https://www.cisco.com/c/en/us/support/wireless/ultra-gateway-platform/products-installation-and-configuration-guides-list.html>
- Ultra Automation Services: <https://www.cisco.com/c/en/us/support/wireless/ultra-automation-services/products-installation-and-configuration-guides-list.html>
- Virtual Packet Core (including VPC-SI and VPC-DI): <https://www.cisco.com/c/en/us/support/wireless/virtual-packet-core/products-installation-and-configuration-guides-list.html>

## Installation and Upgrade Notes

This Release Note does not contain general installation and upgrade instructions. Refer to the existing installation documentation for specific installation and upgrade considerations.

## Ultra M Hyper-Converged Model Component Version Information

**Table 2 - Ultra M Hyper-Converged Model Component Version Information**

HW	SW	6.1	6.2	6.3	6.4	6.5	6.6
	StarOS	68897	69296	69977	70597	70741	73564
	ESC	3.1.0.145	4.0.0.104	4.2.0.74	4.3.0.121	4.3.0.121	4.4.0.88
	RH Kernel	7.3	7.4	7.5	7.5	7.5	7.5
	OSP	10	10	10	10	10 or 13 <b>NOTE:</b> OpenStack Platform 13 with RHEL 7.5 is validated only for standalone AutoVNF-based deployments of the UGP VNF.	10 or 13 <b>NOTE:</b> OpenStack Platform 13 with RHEL 7.5 is validated only for standalone AutoVNF-based deployments of the UGP VNF.

## Installation and Upgrade Notes

HW	SW	6.1	6.2	6.3	6.4	6.5	6.6
UCS C240 M4S SFF (NFVI)	BIOS	3.0(3c)	3.0(4a)	3.0(4a)	3.0(4a)	3.0(4a)	3.0(4a)
	CIMC (BMC)	3.0(3e)	3.0(4a)	3.0(4d)	3.0(4d)	3.0(4d)	3.0(4d)
	MLOM	4.1 (3a)	4.1 (3a)	4.1 (3f)	4.1 (3f)	4.1 (3f)	4.1 (3f)
C2960XR-48TD-I (Management)	Boot Loader	15.2(3r)E1	15.2(3r)E1	15.2(3r)E1	15.2(3r)E1	15.2(3r)E1	15.2(3r)E1
	IOS	15.2.(2) E5	15.2.(2) E5	15.2.(2) E5	15.2.(2) E5	15.2.(2) E5	15.2.(2) E5
C3850-48T-S (Management)	Boot Loader	3.58	3.58	3.58	3.58	3.58	3.58
	IOS	03.06.06E	03.06.06E	03.06.06E	03.06.06E	03.06.06E	03.06.06E
Nexus 93180-YC-EX (Leafs)	BIOS	7.59	7.59	7.59	7.59	7.59	7.59
	NX-OS	7.0(3)I7(3)	7.0(3)I7(3)	7.0(3)I7(3)	7.0(3)I7(3)	7.0(3)I7(3)	7.0(3)I7(3)
Nexus 9236C (Spines)	BIOS	7.59	7.59	7.59	7.59	7.59	7.59
	NX-OS	7.0(3)I7(3)	7.0(3)I7(3)	7.0(3)I7(3)	7.0(3)I7(3)	7.0(3)I7(3)	7.0(3)I7(3)

## Firmware Updates

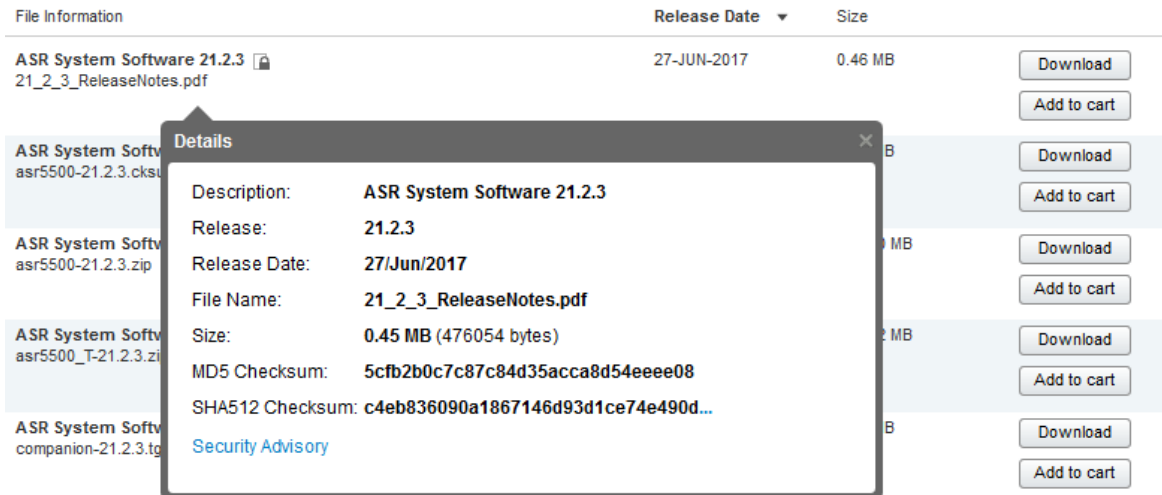
There are no firmware upgrades required for this release.

## Software Integrity Verification

To verify the integrity of the software image you have from Cisco, you can validate the SHA512 checksum information against the checksum identified by Cisco for the software.

Image checksum information is available through **Cisco.com Software Download Details**. To find the checksum, hover the mouse pointer over the software image you have downloaded.

Installation and Upgrade Notes



At the bottom you find the SHA512 checksum, if you do not see the whole checksum you can expand it by pressing the "..." at the end.

To validate the information, calculate a SHA512 checksum using the information in [Table 3](#) and verify that it matches either the one provided on the software download page.

To calculate a SHA512 checksum on your local desktop see [Table 3](#).

**Table 3 - Checksum Calculations per Operating System**

Operating System	SHA512 checksum calculation command examples
Microsoft Windows	Open a command line window and type the following command  <pre>&gt; certutil.exe -hashfile &lt;filename&gt;.&lt;extension&gt; SHA512</pre>
Apple MAC	Open a terminal window and type the following command  <pre>\$ shasum -a 512 &lt;filename&gt;.&lt;extension&gt;</pre>
Linux	Open a terminal window and type the following command  <pre>\$ sha512sum &lt;filename&gt;.&lt;extension&gt;</pre> <p>Or</p> <pre>\$ shasum -a 512 &lt;filename&gt;.&lt;extension&gt;</pre>
<b>NOTES:</b>	
<p>&lt;filename&gt; is the name of the file.</p> <p>&lt;extension&gt; is the file extension (e.g. .zip or .tgz).</p>	

If the SHA512 checksum matches, you can be sure that no one has tampered with the software image or the image has not been corrupted during download.

If the SHA512 checksum does not match, we advise you to not attempt upgrading any systems with the corrupted software image. Download the software again and verify the SHA512 checksum again. If there is a constant mismatch, please open a case with the Cisco Technical Assistance Center.

## Open Bugs in this Release

## Certificate Validation

In 21.12.0 and later releases, software images for StarOS, VPC-DI, and VPC-SI, and the companion software packages for StarOS and VPC are signed via x509 certificates. In pre-21.12.0 releases, image signing is not supported for VPC-DI and VPC-SI images, and for StarOS and VPC companion software packages.

USP ISO images are signed with a GPG key.

For more information and instructions on how to validate the certificates, refer to the README file available with the respective software packages.

## Open Bugs in this Release

The following table lists the known bugs that were found in, and remain open in this software release.

**NOTE:** This software release may contain open bugs first identified in other releases. Additional information for all open bugs for this release are available in the [Cisco Bug Search Tool](#).

**Table 4 - Open Bugs in this Release**

Bug ID	Headline	Product Found*
CSCvn75110	[BP-CUPS] High memory utilization by sessmgr - probable memory leak	cups-up
CSCvo01375	[CUPS] VPP restart observed with stack libvlib.so.0/unix_cli_file_welcome_timer()	cups-up
CSCvr23734	[mme]- congestion-actions triggers not applied during congestion_post reload	mme
CSCvq93693	MME config update not happening on reload chasis applying enb-goup config	mme
CSCvo20343	[BP-ICUPS]: VPP not offloaded for the session post ICSR switchover	pdn-gw
CSCvo31100	[BP-ICUPS]X3 table entries absent post DMX migration	pdn-gw
CSCvo32237	[BP-ICUPS]: some UDP streams going to passive post ICSR switchover	pdn-gw
CSCvp37370	[BP-ICUPS]: After enabling VPP the ttl-excd KPI rate of change spiked.	pdn-gw
CSCvo30174	[BP-ICUPS]Unable to get over 4.3 Gbps on HSLI without fifo Q full on threads	pdn-gw
CSCvo37441	wrong firewall Ruledef stats shown in 'show active-charging ruledef statistics all firewall wide'.	pdn-gw
CSCvo31408	saegw-service stats not updating for CSRsp denied due to license exceeded	sae-gw
CSCvs17393	Multiple Instances of sessmgr restart observed in egtpc_get_ebi_info_from_pdu()	sgsn
CSCvs18939	Multiple Instances of sessmgr restart observed in sgsn_app_allocate_svc_req_cb()	sgsn
CSCvs35724	Multiple instances of sessmgr restart observed in egtpc_handle_change_notf_req_evt()	sgsn
CSCvo20944	[BP-ICUPS]: starOS CLI commands are NOT getting logged into configured syslog	staros
CSCvr49515	ASR5500   21.12.9(72306)   PGW   Frequent Bulkstat Restart	staros

## Resolved Bugs in this Release

Bug ID	Headline	Product Found*
CSCvn81354	EM triggers the deployment of 1 CF only - intermittent and occurrences started Dec 14	usp-uas
CSCvo84219	multi-vnfd generation fails when using different pools of same net	usp-uas
CSCvo95462	Same virtual_router_id for all UEM deployments	usp-uas
CSCvr40956	EM freeze leading to stuck vnfm proxy	usp-uas
CSCvo08737	ETSI MANO: EM does not handle service start and service stop	usp-usf
* Information in the "Product Found" column identifies the product in which the bug was initially identified.		

## Resolved Bugs in this Release

The following table lists the known bugs that are resolved in this specific software release.

**NOTE:** This software release may contain bug fixes first introduced in other releases. Additional information for all resolved bugs for this release are available in the [Cisco Bug Search Tool](#).

Table 5 - Resolved Bugs in this Release

Bug ID	Headline	Product Found*
CSCvj58241	MME does not respond to PLR if IMSI is unknown (no mapping information found)	mme
CSCvo55100	clear mme-service statistics not clearing Dual Connectivity with NR Subscribers stats	mme
CSCvo74521	MME isn't handling properly APN Configuration received in ISD from HSS	mme
CSCvo88008	"MME, Collision Case - E-RAB Mod for NR addition & CBReq for VoLTE termination call attempt"	mme
CSCvq37044	MME: Sessmgr restart - EGTPC_BEARER_STATE_DELETE_BEARER_PENDING not handled yet	mme
CSCvq81538	MME sends incorrect old SGW-U IPV4 addr along with target SGW IPV6 addr during S10 roaming	mme
CSCvr20491	KT MME unexpectedly send PUR	mme
CSCvs02833	ERAB Setup for IMS default bearer followed by ERAB Modification for 5G result with semantic error	mme
CSCvs15514	[MME]- Bulkstats_tai timeout traps not generating	mme
CSCvs56074	Unexpected LTE Attach/TAU: Old UE Context still released with "NAS Unspecified"	mme
CSCvo15422	mmemgr task restart due to a segmentation in S1ap	mme

<b>Bug ID</b>	<b>Headline</b>	<b>Product Found*</b>
CSCvo27558	sessmgr Assertion failure in egtpc_handle_user_sap_event	mme
CSCvq17864	Multiple sessmgr restart with function mme_app_apply_sgw_blacklist()	mme
CSCvr43199	sgw blacklisting deleting pgw pair by error	mme
CSCvr98793	MME static GW selection when 'both' keyword used in s5-s8-protocol parameter	mme
CSCvs68722	LG G8X devices intermittently lose data/IMS services with container size over > 5500	mme
CSCvr01676	URL readdressing stopped working after upgrading to 21.13.8 when TRM is enabled	pdn-gw
CSCvr53651	sessctrl task in over. High memory consumption by libc.so.6/xdr_bytes	sae-gw
CSCvr05856	Assertion failure at sess/sctrl/sessctrl_sgsn_mode	sgsn
CSCvr07789	3G to 2G Inter RAT RAU is failing due to wrong sessmgr instance.	sgsn
CSCvr34833	sessmgr assertion failure in pmm_ms_fsm_invalid_event_handler	sgsn
CSCvr89168	Sessmgr restarts when handling modify bearer command	sgsn
CSCvs09994	sessmgr Segmentation fault in s4_smn_ho_handle_rem_abort	sgsn
CSCvq88658	IFTASK restart triggered due to memory fault	staros
CSCvs70898	Active/active LAG traffic unbalanced after NPUMGR recovery - BEMS01044522	staros
* Information in the "Product Found" column identifies the product in which the bug was initially identified.		

## Operator Notes

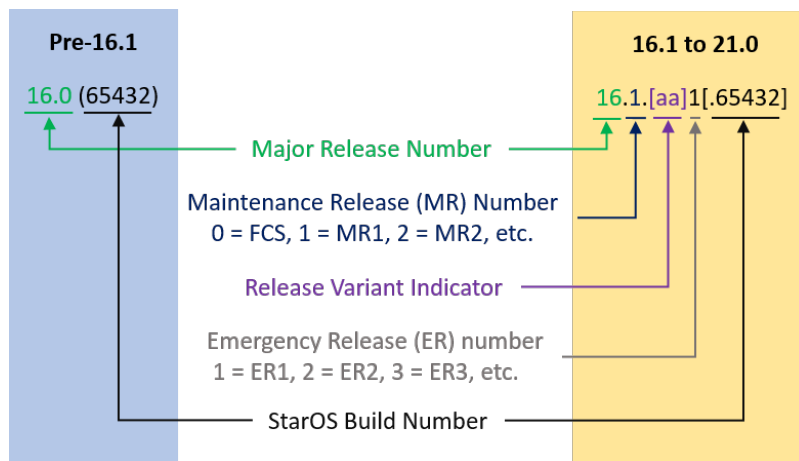
### StarOS Version Numbering System

The output of the **show version** command displays detailed information about the version of StarOS currently running on the ASR 5x00 or Cisco Virtualized Packet Core platform.

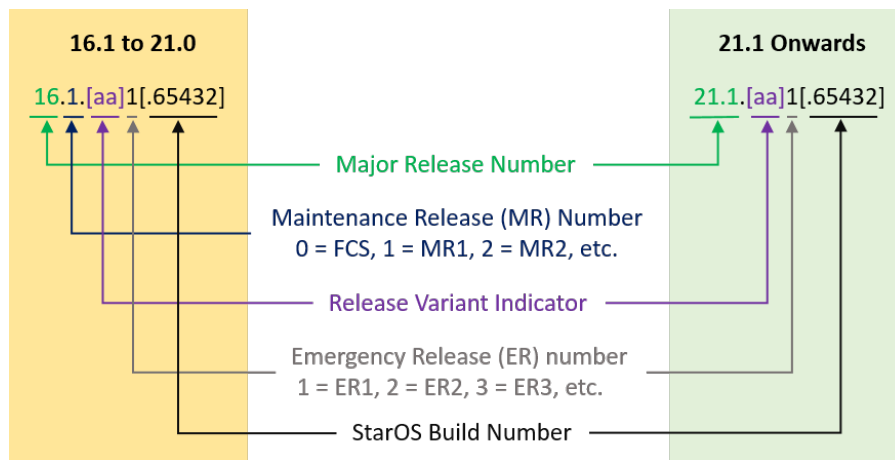
Prior to release 16.1, the *Image Version* field displayed a branch of software including the build number, for example “16.0 (55435)”. Subsequent releases of software for the major release differed only in build number. Lab Quality/EFT releases versus deployment releases also differed only in build number.

From release 16.1 onwards, the output of the **show version** command, as well as the terminology used to describe the Build Version Number fields, has changed. Additionally, **show version** will display slightly different information depending on whether or not a build is suitable for deployment.

The Version Build Number for releases between 16.1 and 21.0 include a major, maintenance, and emergency release number, for example “16.1.2”.



The Version Build Number for releases 21.1 and later include a major and emergency release number, for example, “21.1.1”.



In either scenario, the appropriate version number field increments after a version has been released. The new version numbering format is a contiguous sequential number that represents incremental changes between releases. This format will facilitate identifying the changes between releases when using Bug Search Tool to research software releases.



## Release Package Descriptions

[Table 6](#) provides descriptions for the packages that are available with this release.

**Table 6 - Release Package Information**

In 21.12.0 and later Releases	In pre-21.12.0 Releases	Description
<b>ASR 5500</b>		
asr5500- <release>.zip	asr5500- <release>.bin	Contains the signed ASR 5500 software image, the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.
asr5500_T- <release>.zip	asr5500_T- <release>.bin	Contains the signed, trusted ASR 5500 software image, the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.
<b>StarOS Companion Package</b>		
companion- <release>.zip	companion- <release>.tgz	Contains numerous files pertaining to this version of the StarOS including SNMP MIBs, RADIUS dictionaries, ORBEM clients. These files pertain to both trusted and non-trusted build variants.  In 21.12.0 and later releases, the StarOS companion package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.
<b>VPC-DI</b>		
qvpc-di- <release>.bin.zip	qvpc-di- <release>.bin	Contains the VPC-DI binary software image that is used to replace a previously deployed image on the flash disk in existing installations.  In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.
qvpc-di_T- <release>.bin.zip	qvpc-di_T- <release>.bin	Contains the trusted VPC-DI binary software image that is used to replace a previously deployed image on the flash disk in existing installations.  In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.

In 21.12.0 and later Releases	In pre-21.12.0 Releases	Description
qvmc-di- <release>.iso.zip	qvmc-di- <release>.iso	<p>Contains the VPC-DI ISO used for new deployments, a new virtual machine is manually created and configured to boot from a CD image.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
qvmc-di_T- <release>.iso.zip	qvmc-di_T- <release>.iso	<p>Contains the trusted VPC-DI ISO used for new deployments, a new virtual machine is manually created and configured to boot from a CD image.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
qvmc-di-template- vmware- <release>.zip	qvmc-di-template- vmware- <release>.tgz	<p>Contains the VPC-DI binary software image that is used to on-board the software directly into VMware.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
qvmc-di-template- vmware_T- <release>.zip	qvmc-di-template- vmware_T- <release>.tgz	<p>Contains the trusted VPC-DI binary software image that is used to on-board the software directly into VMware.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
qvmc-di-template- libvirt-kvm- <release>.zip	qvmc-di-template- libvirt-kvm- <release>.tgz	<p>Contains the same VPC-DI ISO identified above and additional installation files for using it on KVM.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
qvmc-di-template- libvirt-kvm_T- <release>.zip	qvmc-di-template- libvirt-kvm_T- <release>.tgz	<p>Contains the same trusted VPC-DI ISO identified above and additional installation files for using it on KVM.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>

## Operator Notes

In 21.12.0 and later Releases	In pre-21.12.0 Releases	Description
qvpc-di- <release>.qcow2.zip	qvpc-di- <release>.qcow2.tgz	<p>Contains the VPC-DI binary software image in a format that can be loaded directly with KVM using an XML definition file, or with OpenStack.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
qvpc-di_T- <release>.qcow2.zip	qvpc-di_T- <release>.qcow2.tgz	<p>Contains the trusted VPC-DI binary software image in a format that can be loaded directly with KVM using an XML definition file, or with OpenStack.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
<b>VPC-SI</b>		
qvpc-si- <release>.bin.zip	qvpc-si- <release>.bin	<p>Contains the VPC-SI binary software image that is used to replace a previously deployed image on the flash disk in existing installations.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
qvpc-si_T- <release>.bin.zip	qvpc-si_T- <release>.bin	<p>Contains the trusted VPC-SI binary software image that is used to replace a previously deployed image on the flash disk in existing installations.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
qvpc-si- <release>.iso.zip	qvpc-si- <release>.iso	<p>Contains the VPC-SI ISO used for new deployments, a new virtual machine is manually created and configured to boot from a CD image.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
qvpc-si_T- <release>.iso.zip	qvpc-si_T- <release>.iso	<p>Contains the trusted VPC-SI ISO used for new deployments a new virtual machine is manually created and configured to boot from a CD image.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>

In 21.12.0 and later Releases	In pre-21.12.0 Releases	Description
qvmc-si-template-vmware-<release>.zip	qvmc-si-template-vmware-<release>.ova	<p>Contains the VPC-SI binary software image that is used to on-board the software directly into VMware.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
qvmc-si-template-vmware_T-<release>.zip	qvmc-si-template-vmware_T-<release>.ova	<p>Contains the trusted VPC-SI binary software image that is used to on-board the software directly into VMware.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
qvmc-si-template-libvirt-kvm-<release>.zip	qvmc-si-template-libvirt-kvm-<release>.tgz	<p>Contains the same VPC-SI ISO identified above and additional installation files for using it on KVM.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
qvmc-si-template-libvirt-kvm_T-<release>.zip	qvmc-si-template-libvirt-kvm_T-<release>.tgz	<p>Contains the same trusted VPC-SI ISO identified above and additional installation files for using it on KVM.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
qvmc-si-<release>.qcow2.zip	qvmc-si-<release>.qcow2.gz	<p>Contains the VPC-SI binary software image in a format that can be loaded directly with KVM using an XML definition file, or with OpenStack.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
qvmc-si_T-<release>.qcow2.zip	qvmc-si_T-<release>.qcow2.gz	<p>Contains the trusted VPC-SI binary software image in a format that can be loaded directly with KVM using an XML definition file, or with OpenStack.</p> <p>In 21.12.0 and later releases, this package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
<b>VPC Companion Package</b>		

## Operator Notes

In 21.12.0 and later Releases	In pre-21.12.0 Releases	Description
companion-vpc-<release>.zip	companion-vpc-<release>.tgz	<p>Contains numerous files pertaining to this version of the VPC including SNMP MIBs, RADIUS dictionaries, ORBEM clients. These files pertain to both VPC-DI and VPC-SI, and for trusted and non-trusted build variants.</p> <p>In 21.12.0 and later releases, the VPC companion package also includes the signature file, a verification script, the x509 certificate, and a README file containing information on how to use the script to validate the certificate.</p>
<b>Ultra Service Platform</b>		
usp-<version>.iso		<p>The USP software package containing component RPMs (bundles).</p> <p>Refer to <a href="#">Table 7</a> for descriptions of the specific bundles.</p>
usp_T-<version>.iso		<p>The USP software package containing component RPMs (bundles). This bundle contains trusted images.</p> <p>Refer to <a href="#">Table 7</a> for descriptions of the specific bundles.</p>
usp_rpm_verify_utils-<version>.tar		Contains information and utilities for verifying USP RPM integrity.

**Table 7 - USP ISO Bundles**

USP Bundle Name	Description
usp-em-bundle-<version>-1.x86_64.rpm*	The Element Manager (EM) Bundle RPM containing images and metadata for the Ultra Element Manager (UEM) module.
usp-ugp-bundle-<version>-1.x86_64.rpm*	The Ultra Gateway Platform (UGP) Bundle RPM containing images for Ultra Packet core (VPC-DI). There are trusted and non-trusted image variants of this bundle.
usp-yang-bundle-<version>-1.x86_64.rpm	The Yang Bundle RPM containing YANG data models including the VNFD and VNFR.
usp-uas-bundle-<version>-1.x86_64.rpm	The Ultra Automation Services Bundle RPM containing AutoVNF, Ultra Web Services (UWS), and other automation packages.
usp-auto-it-bundle-<version>-1.x86_64.rpm	The bundle containing the AutoIT packages required to deploy the UAS.
usp-vnfm-bundle-<version>-1.x86_64.rpm	The VNFM Bundle RPM containing an image and a boot-up script for ESC (Elastic Service Controller).
ultram-manager-<version>-1.x86_64.rpm*	This package contains the script and relevant files needed to deploy the Ultra M Manager Service.
* These bundles are also distributed separately from the ISO.	

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation*, at:

<http://www.cisco.com/c/en/us/td/docs/general/whatsnew/whatsnew.html>.

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