

Release Notes for StarOS™ Software Version 21.22.n15

First Published: April 14, 2023 Last Updated: April 14, 2023

Introduction

This Release Note identifies changes and issues related to this software release. This emergency release is based on release 21.22.n14. These release notes are applicable to the ASR5500, VPC-SI, VPC-DI platforms.

Release Package Version Information

Table 1 - Release Package Version Information

| Software Packages | Version |
|-------------------|------------------------|
| StarOS packages | 21.22.n15, build 89561 |

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 http://www.cisco.com/c/en/us/support/wireless/asr-5000-series/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.

Firmware Updates

There are no firmware upgrades required for this release.

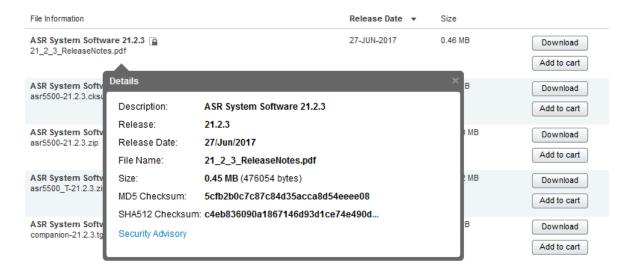
Software Integrity Verification

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.

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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 <u>Table 2</u> 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 2.

Table 2 - Checksum Calculations per Operating System

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

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 <u>Cisco Bug Search Tool</u>.

Table 3 - Open Bugs in this Release

| Bug ID | Headline | Product Found* |
|------------|--|----------------|
| CSCwd27672 | [BP-CUPS]:Assertion failure at Function: sn_memblock_memcache_alloc() | cups-cp |
| CSCwd33517 | show apn statistics shows wrong value for GERAN and UTRAN users | cups-cp |
| CSCwe94260 | sessmgr restart on CUPS CP at function sessmgr_ggsn_sx_deallocate_trans_info_node | cups-cp |
| CSCvz44140 | [BP-CPUS] mostly all aaamgr goes in warn state while running call model | cups-cp |
| CSCvy06009 | [BP-CUPS] crash acsmgr_vogx_fill_and_associate_urrs_for_existing_pdrs observed in Longevity run | cups-cp |
| CSCvt46570 | [BP-CUPS]: Huge checkpoint failure at Standby micro-checkpoint failures recovery record not found | cups-cp |
| CSCvw92011 | Subscriber gets disconnected when gx-alias GoR's with shared ruledefs are removed & added via RAR | cups-cp |
| CSCvx33850 | Rulename associated with PDR is not displayed in "show cli" output | cups-cp |
| CSCvx75948 | [BP-CUPS]:Sessmgr crashes at sessmgr_pgw_handle_ipv4_layer_up() | cups-cp |
| CSCvx35192 | [BP-CUPS]:Sessmgr Crashes at acsmgr_activate_predef_rule_or_group() | cups-cp |
| CSCvy89140 | Calls fail with Invalid-dest-context due to VRF id mismatch | cups-cp |
| CSCvx29537 | [BP-CUPS]acsmgr_create_cr_defn()process_install_requests()acs_process_received_policy() | cups-cp |
| CSCwb57352 | [CUPS] Sx-Modify containing Usage-Report failed. Cause=64 OffendingIE Type=131 | cups-cp |
| CSCvw83826 | [BP-CUPS]: Huge session disconnect with reason "sxfail-opr-remove-pdr" | cups-cp |
| CSCwc19599 | Gy credit control failure handling not working when Gy link is down between CP and OCS | cups-cp |
| CSCwa29010 | [BP-CUPS] "show config error" does not show errors. | cups-cp |
| CSCwd96839 | CP triggers CCRU with RESOURCE_ALLOCATION_FAILURE performing 4gto3g Qos Change | cups-cp |
| CSCwe73462 | [BP-CUPS][sessmgr 10396 error]smgr_recovery.c:13989]Sessmgr-10Recover call from CRR failed post SR | cups-up |
| CSCwc02727 | [SVI] VPP Crash observed vlib_register_node() unix_cli_file_add.isra.6.constprop.21() | cups-up |

Open Bugs in this Release

| Bug ID | Headline | Product Found* |
|------------|--|----------------|
| CSCwa30749 | [BP-CUPS]Continuous error logs- 'In smgr_uplane_compare_tcond_cf_policy_id returning false]' | cups-up |
| CSCvy80968 | [BP-CUPS]:[N-1][N-2]Downgraded new standBy UP leads to all call loss once performed UP switchover | cups-up |
| CSCvy51207 | [CUPS] Firewall dropping traffic on UP | cups-up |
| CSCvy57500 | [BP-PCT] Incorrect bytes and pkts seen for http analyzer stats. | cups-up |
| CSCvz41620 | Assertion failure at sess/sctrl/sessctrl_uplane_cfg_sync | cups-up |
| CSCvv14996 | [BP_CUPS] Timedef rule matches if no timedef is configured | cups-up |
| CSCvw16587 | [CUPS-UP] pure-S_UP crash in smgr_uplane_update_opt_list | cups-up |
| CSCwa18164 | Counter rolls over frequently due to inappropriate data-type (e.g. sgw-datastat-dl-qci8totbyte) | cups-up |
| CSCvy19871 | [BP-CUPS]:Assertion failure at sn_memblock_memcache_alloc() on UP | cups-up |
| CSCwd51494 | IPsecMgr task restart while decrypting packets. | epdg |
| CSCvy81235 | [DOCBUG] "MME Bearer Request Message During Handover Process" feature activation impact | mme |
| CSCvx53094 | sessmgr restart seen in function mme_app_fill_s1_bearer_values() | mme |
| CSCvz67021 | Associating GTPU service to S11 egtp-service casue outage_need to document in MME | mme |
| CSCvy02339 | Parameters are encoded wrongly at MME and sent to GMPC server | mme |
| CSCvx66296 | Assertion failure at mme_app_destroy_ue_sgw_pdn_ctxt() | mme |
| CSCwa75811 | For 3G to 4g TAU for DECOR subscriber MME is introducing 10s delay for SGSN context request message | mme |
| CSCvy61494 | multi fault with sessmgr restart Function: mme_app_fill_s1_bearer_values() | mme |
| CSCwa39302 | sessmgr crashes sessmgr_rf_fill_service() Assertion failure at sess/smgr/sessmgr_rf.c | pdn-gw |
| CSCvx41412 | Green peer sometimes not selected when a single host is configured in a row | pdn-gw |
| CSCvw25217 | BP-ICUPS : sessctrl crashes during boot up at acs_sanitize_a_single_tdb | pdn-gw |
| CSCvy96788 | [CUPS-CP] CLI stuck on `show active-charging sessions full imsi <imsi></imsi> | pdn-gw |
| CSCwe21674 | Authentication Failing during UDP Socket Creation when using IP VRF Forwarding | pdn-gw |
| CSCwd02729 | Continuous EGTPCPathFailClear traps after receiving echo requests during no session | pdn-gw |
| CSCwc31700 | "ecs-rbase-sess-cur" in ECS schema has abnormal value | pdn-gw |
| CSCvx37363 | [BS-ICUPS] I-951 "PGW-Buffer Merge Count" incrementing wrongly in some error scenarios | pdn-gw |
| CSCvx18307 | rcm show-statistics controller = <last_event_ts not="" on="" reload<="" td="" updated="" upf=""><td>rcm</td></last_event_ts> | rcm |
| CSCvx34687 | Fix up permissions on /etc/kubernetes/admin.conf | rcm |
| CSCvx56170 | RCM logs show UP password in clear text | rcm |
| CSCvz20064 | [CUPS RCM] Missing UPs in configmgr after RCM HA switchover | rcm |
| CSCvx07498 | [PLT-CUPS]: configmgr and bfdmgr printing garbage logs with K8s | rcm |

Resolved Bugs in this Release

| Bug ID | Headline | Product Found* |
|-----------------|--|----------------|
| CSCwb73497 | RCM VM manual reboot issue | rcm |
| CSCwe91665 | session manager restart at function tfDuplicateSharedBuffer on SAEGW | sae-gw |
| CSCvw58020 | Non WPS session : PGW not responding to MBReq - SRVCC without PS handover | sae-gw |
| CSCwc35815 | AcsMgr error DNS snooping: unexpectedly p_hentry is NULL | sae-gw |
| CSCvy33792 | [VPC-DI] SAMOG Increase cisco-mpc-protocol-interface AVP length for eogre_pmipv6 | samog |
| CSCvy02352 | Parameters are encoded wrongly at SGSN and sent to GMPC server | sgsn |
| CSCwc69565 | [S8HR] show lawful-intercept s8hr statistics all display the wrong ebi value | sgw |
| CSCwd75750 | ipsecmgr_process_crashed at ipm_sad | staros |
| CSCvz46069 | IPv6 Mgmt IP not reachable after CF switchover | staros |
| CSCvz64429 | Failed to load MIB modules from starent.my error | staros |
| CSCvy77792 | vpnmgr restart seen @ sn_slist_lookup_by_key() | staros |
| CSCvx70054 | bulkstat memory usage increased more than 100% | staros |
| CSCvx98394 | snmpv3 alarms broken after upgrade to 21.22.3 | staros |
| CSCwa12029 | MIOs Cards is crashing due to bad minicores | staros |
| CSCvw74614 | [Combo-UPF]: Peer ID is not displayed correctly in show sx peers cli | upf |
| CSCwa75370 | [Combo-UPF] Uplink data is not getting offloaded after Converged to Non-Converged SGW Relocation | upf |
| CSCvy34368 | [GR-SVI] SM restart on UPF at sessmgr_handle_gtpumgr_wrong_sess_replacement | upf |
| CSCwb21297 | Sx TX HB Request count not increasing on CNDP DATA UPFs | upf |
| CSCvy27480 | [UPPF-SVI]:sessmgr restarts at sx_tun_fsm_handle_sess_mod_rsp_evt() during 60 hours on call mode run | upf |
| CSCvz24037 | [UPF-SVI] sessmgr crashed at sessmgr_uplane_interconnect_call_for_combo(). | upf |
| CSCvy34465 | [GR-SVI] SM restarts on UPF at uplane_drv_handle_events_from_egtpu_app | upf |
| CSCwb35998 | [UPF-SVI] :sessmgr restarted at sessmgr_uplane_set_teid_pdr_binding_info() | upf |
| * Information i | 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 <u>Cisco Bug Search Tool</u>.

Table 4 - Resolved Bugs in this Release

| Bug ID | Headline | Product Found* |
|------------|--|----------------|
| CSCwb36835 | sessmgr 11176 error: Unhandled Sx Modify Response in Connected state | cups-cp |

| Bug ID | Headline | Product Found* |
|--------------------|---|----------------|
| * Information in t | he "Product Found" column identifies the product in which the bug was initially identified. | |

Operator Notes

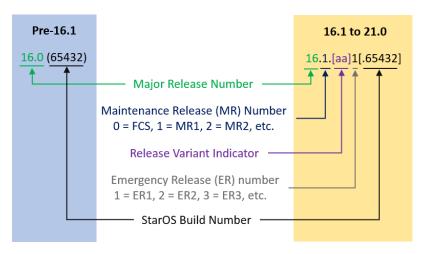
StarOS Version Numbering System

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.

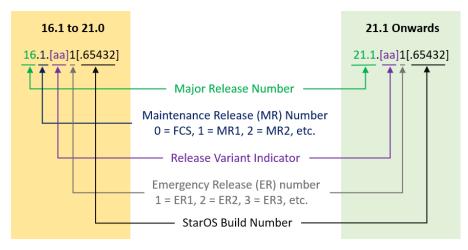
Prior to release 16.1, the *Image Version* field displayed a branch of software including the build number, for example "16.0 (55435)". Subsequent releases of software for the major release differed only in build number. Lab Quality/EFT releases versus deployment releases also differed only in build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

<u>Table 5</u> provides descriptions for the packages that are available with this release.

Table 5 - Release Package Information

| In 21.12.0 and later | In pre-21.12.0 Releases | Description |
|---|---------------------------------------|---|
| Releases | III pre 21:12:0 Neredoes | 2000 paton |
| ASR 5500 | | |
| asr5500- <release>.zip</release> | asr5500- <release>.bin</release> | 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</release> | asr5500_T- <release>.bin</release> | 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. |
| StarOS Companion Packa | ge | |
| companion- <release>.zip</release> | companion- <release>.tgz</release> | 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. |
| VPC-DI | | |
| qvpc-di- <release>.bin.zip</release> | qvpc-di- <release>.bin</release> | 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</release> | qvpc-di_T- <release>.bin</release> | 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. |
| qvpc-di- <release>.iso.zip</release> | qvpc-di- <release>.iso</release> | Contains the VPC-DI ISO used for new deployments, a new virtual machine is manually created and configured to boot from a CD image. |
| | | 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>.iso.zip</release> | qvpc-di_T- <release>.iso</release> | 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. |
| | | 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 |
|---|---|---|
| qvpc-di-template- vmware- <release>.zip</release> | qvpc-di-template- vmware- <release>.tgz</release> | Contains the VPC-DI binary software image that is used to on-board the software directly into VMware. |
| | | 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-template- vmware_T- <release>.zip</release> | qvpc-di-template- vmware_T- <release>.tgz</release> | Contains the trusted VPC-DI binary software image that is used to onboard the software directly into VMware. |
| | | 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-template-libvirt- kvm- <release>.zip</release> | qvpc-di-template-libvirt- kvm- <release>.tgz</release> | Contains the same VPC-DI ISO identified above and additional installation files for using it on KVM. |
| | | 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-template-libvirt- kvm_T- <release>.zip</release> | qvpc-di-template-libvirt- kvm_T- <release>.tgz</release> | Contains the same trusted VPC-DI ISO identified above and additional installation files for using it on KVM. |
| | | 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- <release>.qcow2.zip</release> | qvpc-di- <release>.qcow2.tgz</release> | 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. |
| | | 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>.qcow2.zip</release> | qvpc-di_T- <release>.qcow2.tgz</release> | 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. |
| | | 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. |
| VPC-SI | | |
| qvpc-si- <release>.bin.zip</release> | qvpc-si- <release>.bin</release> | Contains the VPC-SI 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-si_T- <release>.bin.zip</release> | qvpc-si_T- <release>.bin</release> | Contains the trusted VPC-SI 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 | In pre-21.12.0 Releases | Description |
|---|---|---|
| Releases qvpc-si- <release>.iso.zip</release> | qvpc-si- <release>.iso</release> | Contains the VPC-SI ISO used for new deployments, a new virtual machine is manually created and configured to boot from a CD image. |
| | | 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-si_T- | qvpc-si_T- <release>.iso</release> | Contains the trusted VPC-SI ISO used for new deployments a new virtual |
| <release>.iso.zip</release> | qvpc si_1 steteasez.iso | machine is manually created and configured to boot from a CD image. |
| | | 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-si-template- vmware- <release>.zip</release> | qvpc-si-template- vmware- <release>.ova</release> | Contains the VPC-SI binary software image that is used to on-board the software directly into VMware. |
| | | 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-si-template- vmware_T- <release>.zip</release> | qvpc-si-template- vmware_T- | Contains the trusted VPC-SI binary software image that is used to onboard the software directly into VMware. |
| | <release>.ova</release> | 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-si-template-libvirt- kvm- <release>.zip</release> | qvpc-si-template-libvirt- kvm- <release>.tgz</release> | Contains the same VPC-SI ISO identified above and additional installation files for using it on KVM. |
| | | 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-si-template-libvirt- kvm_T- <release>.zip</release> | qvpc-si-template-libvirt- kvm_T- <release>.tgz</release> | Contains the same trusted VPC-SI ISO identified above and additional installation files for using it on KVM. |
| | | 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-si- <release>.qcow2.zip</release> | qvpc-si- <release>.qcow2.gz</release> | 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. |
| | | 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-si_T- <release>.qcow2.zip</release> | qvpc-si_T- <release>.qcow2.gz</release> | 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. |
| | | 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 |
|---|---|---|
| VPC Companion Package | | |
| companion-vpc- <release>.zip</release> | companion-vpc- <release>.tgz</release> | 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. 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. |
| Ultra Service Platform | | |
| usp- <version>.iso</version> | | The USP software package containing component RPMs (bundles). |
| | | Refer to <u>Table 6</u> for descriptions of the specific bundles. |
| usp_T- <version>.iso</version> | | The USP software package containing component RPMs (bundles). This bundle contains trusted images. |
| | | Refer to <u>Table 6</u> for descriptions of the specific bundles. |
| usp_rpm_verify_utils- <ve< td=""><td>rsion>.tar</td><td>Contains information and utilities for verifying USP RPM integrity.</td></ve<> | rsion>.tar | Contains information and utilities for verifying USP RPM integrity. |

Table 6 - USP ISO Bundles

| (EM) Bundle RPM containing images and metadata Manager (UEM) module. |
|---|
| |
| tform (UGP) Bundle RPM containing images for C-DI). There are trusted and non-trusted image |
| containing YANG data models including the VNFD |
| Services Bundle RPM containing AutoVNF, Ultra and other automation packages. |
| the AutoIT packages required to deploy the UAS. |
| of containing an image and a boot-up script for ESC siller). |
| the script and relevant files needed to deploy the rice. |
| S |

Obtaining Documentation and Submitting a Service Request

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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Obtaining Documentation and Submitting a Service Request

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