



CPS Release Notes, Release 12.1.0

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Contents

This document describes the new features, feature versions and limitations for the Cisco Policy Suite software. Use this document in combination with documents listed in the [Obtaining Documentation and Submitting a Service Request](#), page 16.

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New and Changed Information

The following sections provide the descriptions of various features that have been added/modified in this release:

ANDSF

Interface to ANDSF Schema for Management of Objects and Groups

The CRUD Interface used to manage DM Tree Lookups is enhanced in this release.

You can now perform operations on DM Tree Groups and DM Trees. You can Create, Get, Update, and Delete DM Tree Lookups, DM Tree Groups, and DM Trees based on their “name” index.

For more information, see *CPS ANDSF Configuration Guide*.

SMART Licensing for ANDSF

ANDSF also supports Smart Licensing.

For more information, see *CPS Operations Guide*.

Automation Testing System

CPS now allows you to upgrade your automation testing suite that automates and integrates the CPS build in a unified manner.

For more information, contact your Cisco Technical Representative.

Geographic Redundancy

IPv6 Support for Geographic Redundancy

CPS now supports IPv6 address in `/etc/broadhop/gr_cluster.conf` file.

If you want to specify IPv6 address of `pcrfclient` then it has to be done in `[]` brackets.

- For API based Installations

```
grConfig:
  clusterInfo:
    remotePcrfclient01IP: "[XXXX:YYY::ZZZ]"
    remotePcrfclient02IP: "[AAAA:BBB::CCC]"
```

- In case of CSV based installations, you need to manually specify this in `/etc/broadhop/gr_cluster.conf` file.

In CPS 12.0.0 and earlier release, for Admin database and cluster collection, only IPv4 addresses of admin database sessionmgr VM's were getting added.

With this feature, IPv6 global addresses are added to this collection.

For more information, refer to `clusterInfo` section in *CPS Geographic Redundancy Guide*.

Mobile

Dedicated Bearer for Priority Service Sessions

New Gx, Rx and LDAP parameters have been added to calculate QoS on receiving a priority call. The following modifications have been done:

- QoS modification of existing default bearer (using Gx, LDAP and Rx parameters).
- Spawning of dedicated bearer (using Gx, LDAP and Rx parameters).
- QoS modification of existing dedicated bearer (based on the derived Qci/ARP of default bearer, MediaType, Af-Application-Identifier and Sponsor-Identity).

For more information, see *CPS Mobile Configuration Guide*.

Table Driven Balance Selection and Provisioning

CPS now supports defining Account Balance Templates in CRD tables. These CRD defined balances can now be used in Service Configurations either by directly referring to a balance code or with balance code as value for Subscriber/Policy AVP, Session/Policy State field, or CRD output column.

Existing Policy Builder defined Account Balance Template support is still retained without any changes.

For more information see chapters Services and Plug-in Configuration in *CPS Mobile Configuration Guide*.

Time Conditioned QoS Handling

CPS evaluates the default bearer QoS corresponding to the current state based on Gx Profile QoS configuration options in Policy Builder, Default Bearer QoS service, and CRD based QoS actions like mirror, enforce, and bound.

CPS now uses the CRD tables to evaluate the future state default bearer QoS. Future state QoS consists of APN-Aggregate-Max-Bitrate-UL, APN-Aggregate-Max-Bitrate-DL AVPs along with Execution-Time AVP under Conditional-Policy-Information grouped AVP. PGW enforces the future state QoS when the associated Execution-Time becomes current.

Operations

SNMP Alarm Additions or Changes

No new alarms are introduced in this release.

Statistics/Log Additions or Changes

Log Changes

No changes are introduced in this release.

Statistics Changes

No changes are introduced in this release.

URL Changes

- Type of behavior change: HAProxy - Diameter statistics URL change

Old Behavior: CPS provided URL for monitoring HAProxy diameter statistics. URL was available in `about.sh` output. While browsing or refreshing HAProxy diameter statistics URL, it was giving an error “**503 service unavailable. No server is available to handle this request**”. End user had to retry/refresh again and again to view statistics.

Old URL: <http://<lbvip01>:5540/haproxy-diam?stats>

New Behavior: Instead of lbvip01, diameter configured IP address will be used for statistics and that URL will be shown in `about.sh` output.

In case of single end-point diameter configuration, every Policy Director (lb) VM will have its own diameter configuration. In that case statistics URL will be different for each Policy Director (lb) VM where haproxy-diameter service is running and will be shown in `about.sh` output.

New URL: <http://<diameterconfig>:5540/haproxy-diam?stats>

For more information, see *CPS Operations Guide*.

Performance Improvement

Balance and Quota based CRD Tables

CPS is enhanced to support the following conversion tools:

- CRD Generator Conversion Tool - Converts existing Balance and Quota templates PB configuration data to CRD Data.

Installation Notes

- Policy Builder Configuration Converter Conversion Tool - Converts customer existing service configuration balance references to CRD data string value to adopt the CRD table driven configuration solution.

For more information, see *CPS Operations Guide*.

Product Security

CentOS 6.8 Security Updates

In CPS 12.1.0, some RPMs have been updated to remove security vulnerabilities.

In order to use the new RPMs a VM reboot is required for ISSU. This reboot is not required for fresh install and ISSM.

Prompts during ISSU indicate a kernel update is taking place and that this requires a reboot. The non-Cluster Manager VMs are rebooted by the ISSU scripts during the ISSU process. The Cluster Manager VM must be manually rebooted at the end of ISSU.

Warning: It is also possible that some of these updates may create a conflict or require a newer version of any customizations in which customers install other RPMs.

Service Orchestration API

Performance Optimization for Large CRD Tables

The Import API is enhanced to support the following optional parameters:

- batchOperation - Used to insert CRD data in the batch.
- duplicateValidation - Used to validate or invalidate duplicate data in the archive.

For more information, see *CPS Operations Guide*.

Installation Notes

Download ISO Image

Download the 12.1.0 software package (ISO image) from:

<https://software.cisco.com/download/release.html?i=!y&mdfid=284883911&softwareid=284979976&release=12.1.0&os=>

Md5sum Details:

59d6792dd782d41b4a9b69b0681ce0dc	CPS_12.1.0_Base.qcow2.release.tar.gz
7b31c312e2eb1a475eb63c6e1d8608e7	CPS_12.1.0_Base.vmdk.release.tar.gz
4d4d2d51f8d755441bdd676b6a3f944d	CPS_12.1.0.release.iso

Component Versions

The following table lists the component versions for the CPS 12.1.0 Release:

Table 1 Component Versions

Component	Version
ANDSF	12.1.0.release
API router	12.1.0.release
Audit	12.1.0.release
Balance	12.1.0.release
CALEA	12.1.0.release
Cisco API	12.1.0.release
Cisco CPAR	12.1.0.release
Control Center	12.1.0.release
Congestion Reference Data	12.1.0.release
Core	12.1.0.release
CSB	12.1.0.release
Custom Reference Data	12.1.0.release
DRA	12.1.0.release
DHCP	12.1.0.release
Diameter2	12.1.0.release
Entitlement	12.1.0.release
Fault Management	12.1.0.release
Hotspot	12.1.0.release
ISG Prepaid	12.1.0.release
LDAP	12.1.0.release
Notification	12.1.0.release
Policy Intel	12.1.0.release
POP-3 Authentication	12.1.0.release
RADIUS	12.1.0.release
Recharge Wallet	12.1.0.release
SCE	12.1.0.release
Scheduled Events	12.1.0.release
SCEF	12.1.0.release
SPR	12.1.0.release
Unified API	12.1.0.release
Web Services	12.1.0.release

New Installations

- [VMware Environment, page 6](#)
- [OpenStack Environment, page 6](#)

VMware Environment

To perform a new installation of CPS 12.1.0 in a VMware environment, see *CPS Installation Guide for VMware*.

OpenStack Environment

To perform a new installation of CPS 12.1.0 in an OpenStack environment, see *CPS Installation Guide for OpenStack*.

Migrate an Existing CPS Installation

To migrate an existing CPS installation, see *CPS Migration and Upgrade Guide*.

Note: In-service software migration to 12.1.0 is supported only for Mobile (HA) and GR installations. Currently, other CPS installation types are not supported.

Note: Customers can migrate from CPS 10.1.0 or later release to CPS 12.1.0. For the customers who are on CPS 9.x.x release, following options are available:

- Either have to upgrade to CPS 10.1.0 release and then migrate to CPS 12.1.0

OR

- Go for side-by-side installation where one cluster will be installed with CPS 12.1.0 while the other cluster is carrying traffic, then switched over so that the other cluster can also get fresh installed with CPS 12.1.0.

Post Migration Steps

Re-apply Configuration Changes

After the migration is finished, compare your modified configuration files that you backed up earlier with the newly installed versions. Re-apply any modifications to the configuration files.

Verify Configuration Settings

After the migration is finished, verify the following configuration settings.

Note: Use the default values listed below unless otherwise instructed by your Cisco Technical Representative.

Note: During the migration process these configuration files are not overwritten. Only during a new install will these settings be applied.

- **`/etc/broadhop/qns.conf`**

```
-Dmongo.client.thread.maxWaitTime.balance=1200
-Dmongo.connections.per.host.balance=10
-Dmongo.threads.allowed.to.wait.for.connection.balance=10
-Dmongo.client.thread.maxWaitTime=1200
-Dmongo.connections.per.host=5
-Dmongo.threads.allowed.to.wait.for.connection=10
-Dcom.mongodb.updaterIntervalMS=400
-Dcom.mongodb.updaterConnectTimeoutMS=600
-Dcom.mongodb.updaterSocketTimeoutMS=600
-DdbSocketTimeout.balance=1000
-DdbSocketTimeout=1000
-DdbConnectTimeout.balance=1200
-DdbConnectTimeout=1200
-Dcontrolcenter.disableAndsf=true
-DnodeHeartBeatInterval=9000
-DdbConnectTimeout.balance=1200
-Dstatistics.step.interval=1
-DshardPingLoopLength=3
```

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```
-DshardPingCycle=200
-DshardPingerTimeoutMs=75
-Ddiameter.default.timeout.ms=2000
-DmaxLockAttempts=3
-DretryMs=3
-DmessageSlasMs=1500
-DmemcacheClientTimeout=200
-Dlocking.disable=true
```

Note: The following setting should be present only for GR (multi-cluster) CPS deployments:

```
-DclusterFailureDetectionMS=1000
```

Note: In an HA or GR deployment with local chassis redundancy, the following setting should be set to **true**. By default, this is set to false.

```
-Dremote.locking.off
```

■ **/etc/broadhop/diameter_endpoint/qns.conf**

```
-Dzmq.send.hwm=1000
-Dzmq.recv.hwm=1000
```

Reconfigure Service Option

After upgrading from previous release to the current CPS release, Service option configured with Subscriber-Id becomes invalid and customer needs to reconfigure multiple Subscriber Id in SpendingLimitReport under Service Configurations.

Additional Notes

The following section contains some additional notes which are necessary for proper installation/working of CPS:

- **Session Manager Configuration:** After a new deployment, session managers are not automatically configured.
 - a. Edit the `/etc/broadhop/mongoConfig.cfg` file to ensure all of the data paths are set to `/var/data` and not `/data`.
 - b. Then execute the following command from `pcrfclient01` to configure all the replication sets:


```
/var/qps/bin/support/mongo/build_set.sh --all --create
```
- **Default gateway in lb01/lb02:** After the installation, the default gateway might not be set to the management LAN. If this is the case, change the default gateway to the management LAN gateway.
- **CSCuz11476:** Puppet fails to run and configure properly LB nodes other than lb01/lb02

If upgrading from a release prior to 10.0.0, the following changes are made to the folders and files on the Cluster Manager:

- The contents of `/var/qps/current_config/image-map` on the Cluster Manager is modified to consolidate the existing lb entries (lb01 and lb02) into a single lb entry (lb=iomanager).
- The existing `/var/qps/current_config/etc/broadhop/iomanager01` and `/var/qps/current_config/etc/broadhop/iomanager02` directories are consolidated into a single `/var/qps/current_config/etc/broadhop/iomanager` directory.
- **CSCuy23530:** Receiving error msg while creating subscriber from SPR API

Conditions/Scenario: If `clusterPeers` flag is configured in `/etc/broadhop/iomanager01/qns.conf` file OR `/etc/broadhop/iomanager02/qns.conf` file in previous installation of CPS and you are upgrading to 9.1.0.

Apply Configuration Change:

If `clusterPeers` flag is configured move the flag with same value to `/etc/broadhop/qns.conf` file

OR

If `clusterPeers` flag is not configured, add `clusterPeers` entry to `/etc/broadhop/qns.conf` file. Also remove `clusterPeers` entry from `/etc/broadhop/iomanager01/qns.conf` file and `/etc/broadhop/iomanager02/qns.conf` file.

Impact if above change is not applied:

If `clusterPeers` flag is not moved to new location, cluster broadcast message will not happen.

Recommended: This change is highly recommended to be applied.

- By default, pending transaction feature is enabled. If you are not using it, Cisco recommends to disable pending transaction feature post deployment.

To disable pending transaction, the following parameter can be configured in `/etc/broadhop/qns.conf` file:

```
com.broadhop.diameter.gx.pending_txn.attempts=0
```

After adding the parameter in `qns.conf` file, restart all VMs.

- If TPS is high, user needs to disable “STA”. To disable STA, user needs to create custom policies. For more information, contact your Contact Technical Representative.
- CSCvb74725: Avoid manual steps in API based GR installation

Problem: The fresh install of API based GR installation does not execute set priority properly.

Workaround:

- a. The fresh install of API does not execute set priority properly. You need to set the priority manually by executing the following command:

```
set_priority.sh --add all
```

- b. You need to delete the default ring configuration present in `cache_config` database. After fresh install in case Active/Active Geo-HA feature is enabled, default ring configuration needs to be deleted manually. To remove/replace ring config, following two options are available:
 - Delete directly from database. Remove from “`cache_config`”, if “`shards`” is empty. This may need restart of `qns` services.

OR

- Run OSGi command `setSkRingSet <ringId> <setId> <servers>` which will replace existing values.

- c. Unused replica-set need to be removed manually.

There is no API support for removing replica-set. So you need to remove the replica-set manually by executing the following command:

```
build_set.sh --<dbname> --remove-replica-set <setname>
```

For example,

```
build_set.sh --spr --remove-replica-set --setname set04
```

- d. If someone changes `qns.conf` parameters using API post system is deployed using PATCH method, then `restartall.sh` has to be executed manually so that configuration changes become effective.

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- e. You need to be set the priority manually for members after adding via `addMember` API by executing the following command:

```
set_priority.sh --add all
```

- CSCvd30781: `set_priority.sh` broken ImportError: No module named util when running `set_priority.sh` on `pcrfclient01`

Problem: `set_priority.sh` from `pcrfclient01` and `pcrfclient02` is broken. No module named `util` is found when running `set_priority.sh`.

Workaround: Execute `set_priority.sh` from Cluster Manager. If the customer does not have replication network on the Cluster Manager, they need to copy the `util` sub-directory from the Cluster Manager to `pcrfclient01` and `pcrfclient02`.

- Source on Cluster Manager: `/var/qps/install/current/scripts/modules/util`
- Destination on `pcrfclient01/02`: `/var/qps/bin/install/current/scripts/modules/util`

- CSCvc66672: System is crashing when run more than 6k tps

Problem: High response time is observed when system is running with all the default features installed and has Gx traffic with 6K TPS.

Consideration: It is recommended to create session replica-set as per performance requirements for scaling.

Solution:

- Create/update `/etc/broadhop/mongoConfig.cfg` file on Cluster Manager VM to create session cache shards in criss-cross fashion.

```
[SESSION-SET1]

SETNAME=set01

OPLOG_SIZE=5120

ARBITER=arbitervip:27717

ARBITER_DATA_PATH=/var/data/sessions.1

MEMBER1=sessionmgr01:27717

MEMBER2=sessionmgr02:27717

DATA_PATH=/var/data/sessions.1/1

[SESSION-SET1-END]

[SESSION-SET2]

SETNAME=set07

OPLOG_SIZE=5120

ARBITER=arbitervip:27727

ARBITER_DATA_PATH=/var/data/sessions.7

MEMBER1=sessionmgr02:27727
```

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```
MEMBER2=sessionmgr01:27727
DATA_PATH=/var/data/sessions.1/2
[SESSION-SET2-END]
```

- Refer to *Create Specific Replica-set* and *Session Cache Replica-set* sections in *CPS Installation Guide for VMware* for further information on how to create replica sets.
- Set session database priority so that the PRIMARY members will be on separate VM:

```
cd /var/qps/bin/support/mongo
./set_priority.sh --db session
```

For more information on `set_priority.sh` script, refer to *CPS Operations Guide* and *CPS Geographic Redundancy Guide*.

- To create session shards, refer to the *Create Session Shards* section in *CPS Installation Guide for VMware*.

Limitations and Restrictions

This section covers the following topics:

- [Limitations, page 10](#)
- [Common Vulnerabilities and Exposures \(CVE\), page 11](#)

Limitations

■ Solicited Application Reporting

The following are some restrictions on configuration for the new service options:

- The pre-configured ADC rule generated by CRD lookup has ADC-Rule-Install AVP definition with support for only three AVPs ADC-Rule-Name, TDF-Application-Identifier, Mute-Notification.
- For AVPs which are multi-valued, CRD tables are expected to have multiple records - each giving the same output.
- Comma(,) is not a valid character to be used in values for referenced CRD column in SdToggleConfiguration.
- AVP Table currently only supports OctetStringAvp value for AVP Data-type.

- During performance testing, it has been found that defining a large number of QoS Group of Rule Definitions for a single sessions results in degraded CPU performance. Testing with 50 QoS Group of Rule Definitions resulted in a 2x increase in CPU consumption. The relationship appears to be a linear relationship to the number of defined QoS Group of Rule Definitions on a service.

■ Hour Boundary Enhancement

Change in cell congestion level when look-ahead rule is already installed:

If a cell congestion value changes for current hour or any of the look-ahead hours, there will be no change in rule sent for the rules which are already installed.

No applicability to QoS Rules:

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The look-ahead works for PCC rules only where we have rule activation/deactivation capabilities and can install upcoming changes in advance. However, if the RAN Congestion use case is changed to use the QoS-Info AVP instead of using PCC rules, we need to fall back to the current RAR on the hour boundary implementation for that use case since the standard do not let us install QoS-info changes ahead of time like we can with PCC rules.

- The Cluster Manager's internal (private) network IP address must be assigned to the host name "installer" in the `/etc/hosts` file. If not, backup/restore scripts (`env_import.sh`, `env_export.sh`) will have access issues to OAM (`pcrfclient01/pcrfclient02`) VMs.
- The linux VM `message.log` files repeatedly report errors similar to:

```
vmsvc [warning] [guestinfo] RecordRoutingInfo: Unable to collect IPv4 routing table.
```

This is a known issue affecting ESXi 5.x. Currently, there is no workaround. The `messages.log` file entries are cosmetic and can be safely ignored. For more information, refer to

http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2094561

- CSCva02957: Redis instances will continue to run, even after redis is disabled using the parameter `-DenableQueueSystem=false` in `qns.conf` (`/etc/broadhop/`) file and `/etc/broadhop/redisTopology.ini` file.
- CSCva16388: A split brain scenario (that is, VIPs are up on both nodes) can still occur when there is connectivity loss between lb01 and lb02 and not with other hosts.

Common Vulnerabilities and Exposures (CVE)

The following is the list of publicly known Common Vulnerabilities and Exposures (CVE) apply to this version of CPS:

- NTP Vulnerabilities (CVE-2016-9311, CVE-2016-9310, CVE-2016-7427, CVE-2016-7428, CVE-2016-9312, CVE-2016-7431, CVE-2016-7434, CVE-2016-7429, CVE-2016-7426, CVE-2016-7433)

Cisco Policy Suite includes a version of `ntpd` that is affected by the vulnerabilities. For more information, see:

<https://tools.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20161123-ntpd>

CDETS

The following sections lists Open CDETS and Resolved CDETS for Cisco Policy Suite. For your convenience in locating CDETS in Cisco's Bug Toolkit, the caveat titles listed in this section are drawn directly from the Bug Toolkit database. These caveat titles are not intended to be read as complete sentences because the title field length is limited. In the caveat titles, some truncation of wording or punctuation might be necessary to provide the most complete and concise description.

Note: If you are a registered `cisco.com` user, view Bug Toolkit on `cisco.com` at the following website:

<https://tools.cisco.com/bugsearch>

To become a registered `cisco.com` user, go to the following website:

https://tools.cisco.com/RPF/register/register.do?exit_url=

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Open CDETS

The following table lists the open CDETS in the CPS 12.1.0 release.

Table 2 Open CDETS

CDETS ID	Headline
CSCuu55444	Recurring quota amount override with a subscriber AVP is broken
CSCva63979	Performance over IPv6
CSCvc01018	SVN repos is down intermittently on AIO setup
CSCvc20767	nscd process dead/hanging due to increasing number of open files when TACACS+ servers are down
CSCvc37328	Randomly one of qns showing High load compared to other qns VM
CSCvc45288	Evaluation of qps for NTP November 2016 Vulnerabilities
CSCvc65145	CCR getting timed-out
CSCvc88483	High response time and CPU when new service resolution engine is enabled
CSCvd02758	after LB01-VM reboot qns process isn't coming up
CSCvd04967	RS creation failed with error : Removing old allocated pcs resource failed [ErrorCode: 1]
CSCvd10475	Haproxy shows Diameter endpoint down errors after restart of set 1, and through completion of migration
CSCvd25835	GR_ST: Observing TimerExpiry messages in VoLTE and VoWiFi call models during cross site messaging
CSCvd28169	Apache: wsgi used high memory and swap on pcrfclient
CSCvd28424	GR_12.0: Observing few CCR-I timeouts consistently on one site during replication VLAN down
CSCvd48535	CPS - clab openstack setup doesn't meet the target TPS numbers starting 11.1
CSCvd48835	unified api for deleting subscriber isn't deleting subscriber where API router feature is enabled
CSCvd50992	During load condition some RX delayed RAR is not sending by QPS
CSCvd58782	CPS unable to switch GSU token amount (immediate) within a Gx session
CSCvd73257	Replica set creation is timing out randomly with new openstack setup
CSCvd73457	/var/log/broadhop/qns-1.log gets root: root permission
CSCvd79552	PCRF is not sending failure to MOG on receiving Gx RAA with 3002 failure
CSCvd82242	When running script reinit.sh on CPS 10.0 it restart the qns processes on all CPS VMs
CSCvd86947	logReader.py may be used by qns user to read any file on system
CSCvd89212	When executing call model with Gx and Gy, Gy CCR-U failing with error code 5002
CSCvd92334	Family sharing quota is not working correctly at Tele2
CSCvd95185	Diagnostic fails due to invalid license for some VMs even if license is installed
CSCve00244	Resource requirements not consistent
CSCve01319	Timeouts and high response times observed due to "Promotion failed" GC errors
CSCve04946	PCRF is not sending CNS OFF notification on time/volume expiry in case of session extension scenario
CSCve06298	After Fresh Install of 12.1 Build, the reinit.sh reboots and changes kernel version
CSCve08246	PCRF is not terminating the session 2 mins after receiving APN_AMBR_MODIFICATION_FAILURE

CDETS

Table 2 Open CDETS

CDETS ID	Headline
CSCve08454	After enabling F1442-mongo auth feature /var/log/mongodb-xxxx.log isn't printing access denied msg
CSCve09882	Diameter Endpoint down after Performance Resiliency test on 12.1 FCV HA
CSCve10147	mongo db backup command doesn't work as per given in guide.
CSCve10447	cross-site lb to lb communication is not supported over an IPv6 replication network
CSCve10797	Replica set info not readable when captured by capture_env.sh
CSCve11595	resync db traps not working when mongoauth is enabled on system

Resolved CDETS

The following table lists the resolved/verified CDETS in the CPS 12.1.0 release.

Table 3 Resolved CDETS

CDETS ID	Headline
CSCva12736	gen-db-traps.sh script causing continuous stream of false SNMP alerts
CSCvb76755	On timer expiry for unknown subscriber session, wrong domain is selected
CSCvc14874	UDR retry on CCRU is not always sent
CSCvc51850	Gx Message CCR-x dropped false alarms
CSCvc53295	SLR audits not sent following the unsuccessful Sy-STR
CSCvc56428	Rollback:11.1 to 10.1_env_import.sh did not run successfully
CSCvc80405	Haproxy stats url randomly throwing error 503 Service Unavailable
CSCvc88668	orchestration api logs shows error in attempt to build shards and ringset in initial yaml apply
CSCvc99909	Upgrade CPS using Orch api it always ends up with "Checking the status of Upgrade. Status is Error"
CSCvd05954	CCR-I condition not working correctly for the condition "A Gx TGPP Session Exists"
CSCvd06814	Migration - SVN sync issue when migrate from R10 to R12
CSCvd10169	Sy-STR is not sent after CCR-T if the Sy-SLA received after Sy-SLR time out (7000)
CSCvd14099	Getting Sy-STA 5012, while QPS is sending SY-SNA and SY-STA together.
CSCvd15650	OFF notification is not sent to CNS on APP_STOP event from Gx in case of selective muting
CSCvd20991	Avoid arming Session Recovery/Sync event triggers
CSCvd21070	Publish Subscriber API fails to update ANDSF session
CSCvd27867	CPS ./migrate.sh disable set 1 failed with custom host name error
CSCvd29269	Unable to export/import a policy builder backup in PB 2.0
CSCvd30308	CPS ./migrate.sh restore/backup cluman: image-map is not backed up or restored
CSCvd31171	/var/qps/install/12.0.0/scripts/setup/setup.sh line 452 [too many arguments during option 2 upgrade
CSCvd35050	PCRF is not sending CC-Time in Rx-STA during MOG initiated Default-Bearer Downgrade

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Table 3 Resolved CDETS

CDETS ID	Headline
CSCvd35881	Migration 3rd site arbiter missing chkconfig for sessionmgr-XXX
CSCvd39839	PCRF is not sending PCI/PVI in Gx RAR on receiving AAR from MOG without PCI/PVI
CSCvd39844	PCRF is removing and installing the same rule in same Gx RAR
CSCvd39858	CPS is not sending the Rx RAR/ASR to the last known host from which it received AAR
CSCvd41108	ANDSF MO Lookup Update operation does not allow multiple updates for the same MO Lookup
CSCvd41954	External SPR query not sent
CSCvd42686	Best Match support in tableDrivenChargingRule service config
CSCvd42780	PCRF is not downgrading the QCI if the user moves out of LTE or goes Off-Net/International
CSCvd43481	build_set do not apply updated firewall rules on time
CSCvd43940	External SPR Publish API
CSCvd43953	ANDSF MO Lookup using regex pattern
CSCvd45678	PB: diameter validation not catching diameter stack configuration error
CSCvd45839	PCRF needs to retrieve AF-Application-Id priority from PB instead of session db
CSCvd48300	Destination-Host missing in SDR message
CSCvd48385	Framed-IPv6-Prefix AVP contains incorrect value in SDR msg
CSCvd50596	PCRF is not downgrading the QCI on receiving STR from MOG in case of volume based call
CSCvd52469	Race condition in PB prevents import
CSCvd60724	PCRF is not sending volume usage in STA when user moves to Off-Net and rx session is terminated
CSCvd67349	PCRF is removing the monitoring key on receiving CCR-U with QOS_MODIFICATION_FAILURE
CSCvd68263	SESSION-SET1 and SPR-SET1 are not taken into account by db_mon API
CSCvd70362	PCRF is not sending CNS OFF notification when dedicated bearer rule is removed
CSCvd72749	Unable to send multiple TDF-Application-ID as Custom AVP on Target Interface in CPS 12.00
CSCvd75871	PCRF should not send CNS OFF notification for every subscriber
CSCvd76985	PB does a checkout instead of update when attemptUpdate is true and SVN URL has '/' at the end of it
CSCvd79543	PCRF is not sending correct used time in Rx STA in case of time extension
CSCvd80346	ANDSF MO Lookup Create and Update does not validate entries for correct DM Tree Group assignment
CSCvd82147	Soft delete timer not triggered
CSCvd83862	ISSU from 12.0 to 12.1 fails while restoring primaries
CSCvd84795	PCRF is not sending CNS notification on receiving Sy SNR with more than one counter
CSCvd84796	PCRF is sending Rx ASR when the Sd CC-Time expires
CSCvd89744	Java NullPointerException while AAR is having highest priority and LDAP query have no QOS configured
CSCvd92241	PCRF is sending invalid CNS notification status on receiving SNR when uplift is not yet active
CSCvd95145	GR_ST_12.1: memcache being set at a higher rate than delete causing usage to keep rising

Related Documentation

Table 3 Resolved CDETS

CDETS ID	Headline
CSCvd97219	Upgrade is failed on 12.1 and 13.0 AIO production setups.
CSCve04097	CPS12.1 FCV upgrade fails due to puppet error on pcrfclient.
CSCve04562	CPS is sending Charging-Rule-Install before Charging-Rule-Remove when collapsing of dedicated bearer
CSCve07664	receiving invalid parameter dbAuthenticationAdminPasswd passed msg while enabling mongo auth feature
CSCve07916	mongo_auth_upgrade.py cli is showing error "WARNING Failed to connect to primary host for set01"
CSCve09514	GR_ST_12.1: Grafana not displaying mongo stats post upgrade to FCV iso
CSCve09794	CPS is not sending requested QoS in CCR-I when priority feature is enabled
CSCve09815	In ISSM 11.1->12.1, Traffic drops after disabling set 1 or doing rollback for set 1 VMs
CSCve12333	NullPointerException during creation of dedicated bearer.
CSCve14272	Kernel is not upgraded after completing ISSM 11.1->12.1
CSCve14388	Initial CCA QOS values are not retrieving.

Related Documentation

This section contains information about the documentation available for Cisco Policy Suite.

Release-Specific Documents

Refer to the following documents for better understanding of the Cisco Policy Suite.

- *CPS ANDSF Configuration Guide*
- *CPS Backup and Restore Guide*
- *CPS Central Administration Guide*
- *CPS Geographic Redundancy Guide*
- *CPS Installation Guide - OpenStack*
- *CPS Installation Guide - VMware*
- *CPS Migration and Upgrade Guide*
- *CPS Mobile Configuration Guide*
- *CPS Operations Guide*
- *CPS Policy Reporting Guide*
- *CPS SNMP, Alarms, and Clearing Procedures Guide*
- *CPS Troubleshooting Guide*
- *CPS Unified API Reference Guide*

Related Documentation

■ *CPS Wi-Fi Configuration Guide*

The documents can be downloaded from the following links:

■ All Guides

<http://www.cisco.com/c/en/us/support/wireless/quantum-policy-suite-bng/products-installation-and-configuration-guides-list.html>

■ Mobile Configuration Guide:

<http://www.cisco.com/c/en/us/support/wireless/quantum-policy-suite-mobile/products-installation-and-configuration-guides-list.html>

■ Wi-Fi Configuration Guide:

<http://www.cisco.com/c/en/us/support/wireless/quantum-policy-suite-wi-fi/products-installation-and-configuration-guides-list.html>

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](#).

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This document is to be used in conjunction with the documents listed in the [Obtaining Documentation and Submitting a Service Request, page 16](#) section.

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