



Release Notes for *Cisco Policy Suite* for Release 6.0

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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 [“Related Documentation” section on page 17](#).

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Introduction

The Cisco Policy Suite is a comprehensive policy, charging, and subscriber data management solution that allows service providers to control and monetize their networks and to profit from personalized services. The Cisco Policy Suite has the following components:

- Policy Server (PS)
- Charging Server (CS)
- Unified Subscriber Manager (USuM)



- Subscriber Analytics

The Cisco Policy Suite provides an intelligent control plane solution, including southbound interfaces to various policy control enforcement functions (PCEFs) in the network, and northbound interfaces to OSS/BSS and subscriber applications, IMSs, and web applications. The Cisco Policy Suite modules are enabled individually or deployed as an integrated end-to-end policy, charging, and service creation solution.

Competitive Benefits

The new Cisco Policy Suite solution provides these benefits over competitive solutions.

- Cisco Policy Suite architecture allows simultaneous sessions and transactions per second (TPS) capacity to be independently scaled. This allows Cisco Policy Suite to be efficiently sized for both high simultaneous sessions with low TPS or low sessions with high TPS, resulting in lower total cost of ownership when compared to traditional PCRF models. As soon as sessions are bound to a given processing node, the ability to handle traffic spikes is reduced.
- Cisco Policy Suite virtual architecture supports flexible and cost-effective carrier grade strategies. Virtual instances are spread across multiple blade serves for full hardware and software redundancy within a Cisco Policy Suite cluster.
- The flexible nature of the Cisco Policy Suite lets a service provider go beyond standard policy definition to add new, customized functionality. It provides a comprehensive open policy software development kit (SDK) using industry-standard languages and frameworks. Customized or vendor scripting is not needed, which allows service providers to create plug-ins within the existing policy server and automatically exposes the new services to the policy engine.

New and Changed Information

This section describes the new and changed features for the Cisco Policy Suite Release 6.0.

New Software Features in Release 6.0

Deployment Management Console

The management console feature provide the capabilities for network administrators to deploy and manage CPS using a GUI and CLI console. Specifically, the Deployment Management Console provides the capabilities for network administrators to:

- Inspect current features
- View logs
- Diagnose system state

IPv6 Support for ASR1K-Based Metro Wi-Fi

This feature facilitates dual stack client-addressing where a single subscriber session is maintained for a DS client. IPv4 address, IPv6 address and MAC address of the client is associated with this session.

MAG-Coupled Web-based Authentication

An unauthenticated client is assigned a temporary IP address which is used as the source address by the UE while accessing the web portal. After successful authentication, the client is forced to re-associate and go through the IP address assignment phase again. At this stage since the client is already authenticated, the LMA assigns the IP address for the client.

Multiple 3GPP Diameter Interface Version Support

This feature supports multiple diameter interface versions from the same PCEF.

Multi-user Policy Builder

This feature supports multiple users logging into the Policy builder at a time. Each user can do modifications in their local workspace. In case if two users are working on same screen and one user save to client repository, other user may get conflicts. In such cases user have to go to login page and revert the changes and do the changes again.

Overload Hardening

This feature hardens the CPS's safeguards to enhance protection against system instability and possible failure in an overload scenario. CPS overload provides controls that detects an overload situation, notify the administrator and automatically take actions to prevent system failure. This includes queues based on Diameter message type - prioritize existing sessions over new sessions, Unified API limits, Per VM overload protection.

Operational Monitoring

Operational monitoring with Cisco Policy Suite lets you access real-time key performance data as a graph or chart. For example, performance data might be acquired from Diameter messages such as CCR-I or CCR-T. These message counters are displayed as a chart, helpful for troubleshooting.

Real-time monitoring charts allow the service provider to create their own charts to customize monitoring of their network. Then, you can troubleshoot network issues as they occur, with help from the charts. After your Cisco Policy Suite is installed and ready to take traffic, you can monitor the Diameter messages with the Monitoring tab. Diameter interfaces supported are Sy, Sh, Gx and so on.

Policy Execution Flow Analyzer (Phase I)

This feature supports policy tracing and analysis - search by credential to find policy executions, display in time order, filter based on time interval. For each execution - display session state at beginning/end, balance, triggering messages, active services and service options, etc.

Smart Diameter Proxy - Gx/Gy

CPS works as a diameter proxy on Gx/Gy/Sy interfaces in 3G/4G network and relay the messages for the existing 3rd party PCRF.

When CPS is deployed and configured as a smart diameter proxy for PCRF/OCS (Gx interface for PCRF and Gy/Sy interface for OCS), it demonstrates its capabilities without affecting the existing 3rd party PCRF's behavior.

SN-Transparent-Data AVP Support

This feature enhances Diameter stack configuration to store delimiters which are used for parsing SN-Transparent-Data AVP for corresponding Gx CCR message.

CPS Subscriber Intelligence

This feature allows operators to examine subscriber behavior and usage by time of day, location, network access type, application, session duration, and subscriber events.

Subscriber Intelligence gives Service Providers the tools to:

- Make informed, data-driven decisions based on a detailed understanding of how subscribers use the network.
- Launch marketing campaigns and promotions based on individual subscriber behavior and service tier.
- Create service plans and value-added add-on options targeting specific subscriber segments.
- Tailor service plan limits and charging rules by analyzing subscriber usage.

Unified API Access Privileges

This feature allows enhanced security for Cisco Policy Suite APIs through username/password authentication.

Unified API Location Query Enhancements (Phase I)

The CPS's Unified API Location Query is enhanced to return the serving SSID, AP MAC address, and AP Group Name.

This feature facilitates third party portal integration with the CPS.

VoLTE Emergency Call Support

The CPS support IMS/VoLTE emergency calls in conformance with 3GPP TS 23.203, 29.212, 29.213, 29.214. Emergency services are provided to normal attached UEs and to UEs that are in limited service state. Also receiving emergency services in limited service state does not require a subscription.

XML Realtime Notification

This feature enhances CPSs supports to send notifications in an XML format to servers over HTTP whose HTTP URL is configured in reference data of Policy Builder.

Installation Notes

This section describes the installation notes in Release 6.0.

**Note**

Currently, direct upgrading of CPS from version 5.3.5 to 6.0 is not supported. Customer first needs to upgrade CPS to 5.5 and then can upgrade the system to 6.0.

**Note**

Customer must download the latest software package available from the link <http://software.cisco.com/download/type.html?mdfid=284883882&catid=null>.

Applying Hotfix

This hotfix must be installed to avoid RADIUS responding on incorrect IO Manager.

Step 1 Download `Hotfix_Patch1_6.0.0.tar.gz` from `software.cisco.com` along with your CPS 6.0 software or get the hotfix from your Cisco technical representative and extract it in `/var/broadhop/repositories` directory as a root user.

Step 2 After extraction, find directory `Hotfix_Patch1_6.0.0` in `/var/broadhop/repositories` directory.

Step 3 Add entry of extracted directory into `/etc/broadhop/repositories` file.

Entry Name:

```
file:///var/broadhop/repositories/Hotfix_Patch1_6.0.0
```

**Note**

- Do not delete old entries from `/etc/broadhop/repositories` file.
- `QNS_6.0.0.release` entry in `/var/broadhop/repositories` needs to be left uncommented while applying the patch (updating qns).

```
root@pcrfclient01:/var/broadhop/repositories
#file:///var/broadhop/repositories/cisco-sp-wifi/
#file:///var/broadhop/repositories/cisco-sp-wifi-testing/
#file:///var/broadhop/repositories/release-train-6.0
file:///var/broadhop/repositories/QNS_6.0.0.release
file:///var/broadhop/repositories/Hotfix_Patch1_6.0.0
```

Step 4 Go to `/opt/broadhop/installer/` directory in `pcrfclient01` and run the commands:

```
cd /opt/broadhop/installer/
run su qns -c "./update_qns.sh"
```

Step 5 Run `restartall.sh` from `pcrfclient01` to apply the patch.

Feature Versions

The following table mentions the component version for CPS 6.0 Release:

Component	Version
Core	6.0
Audit	1.2.0
Balance	3.2.0
Control Center	3.2.0
Customer Reference Data	2.2.0
Notifications	5.6.0
Policy Intel	2.0.0
Diameter2	3.2.0
Radius	3.1.0
SPR	2.1.0
Unified API	2.1.0
Scheduled Events	1.1.0
Web Services	1.3.0
Congestion Reference Data	1.0.0
DHCP	1.3.1
ISG Prepaid	1.6.0
JDBC	1.0.4
LDAP	1.3.0
POP-3 Authentication	1.2.0
Reporting	1.2.3
SCE	2.0.6
Recharge Wallet	1.0.0

Removing MySQL JDBC Connectors from Standard Load Line-up

-
- Step 1** Add the following file to your local machine and make the changes to your `qns.conf` file.
- ```
-DmysqlDriver=file:///var/broadhop/jdbc/jdbc_5_1_6.jar
```
- Step 2** Copy the above mentioned file to all CPS boxes in the same location. Synchronize all the boxes and then restart CPS.

## Deployment Management Console

Deployment Management Console feature is released as patch over 6.0 release build. Patch release covers instructions to install the feature in the setup environment.

- 
- Step 1** Download `qps_mgmt_console.zip` to `/tmp` directory.
- Step 2** Unzip `qps_mgmt_console.zip` to `/tmp` directory.
- Step 3** Run `update_console.sh` from `/tmp` directory.
- Step 4** Execute the command `qps_management_console` to check management console is installed or not.

## Limitations and Restrictions

The Cisco Policy Suite has the following limitations and restrictions:

- After database role change for multiple sessionMgrs, CPS is unable to stabilize the calls and timeouts happen constantly.
- On receiving Accounting Stop message, the Radius call is not disconnected and the session is also present in mongo database.

## Caveats

The following sections lists Open Caveats and Resolved Caveats for Cisco Policy Suite. For your convenience in locating caveats 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=](https://tools.cisco.com/RPF/register/register.do?exit_url=)

## Open Caveats

Table 1 lists the open caveats in the CPS 6.0 release.

**Table 1** Open Caveats

| CDET ID                    | Status | Headline                                                                |
|----------------------------|--------|-------------------------------------------------------------------------|
| <a href="#">CSCu110166</a> | A      | QNS: When the CCR is timed out QNS doesn't send any error at southbound |
| <a href="#">CSCu196514</a> | A      | QNS: Backup file not created after upgrade                              |
| <a href="#">CSCui58488</a> | A      | zero MQ cant establish connections with qns in HA                       |
| <a href="#">CSCui58522</a> | A      | QPS5.5 install Guide: Re-initiate Replicaset Guidelines                 |
| <a href="#">CSCui68486</a> | A      | Generate consolidated logs on PCRFLIENOT02 in case PCRFLIENOT01 fails   |
| <a href="#">CSCu133152</a> | A      | QPS - PCRf can't bring up the standby diameter peer                     |

**Table 1**      **Open Caveats**

| <b>CDET ID</b>             | <b>Status</b> | <b>Headline</b>                                                           |
|----------------------------|---------------|---------------------------------------------------------------------------|
| <a href="#">CSCuj61015</a> | A             | QNS[Sys-Test]: Default Entry for Plugin need to be corrected              |
| <a href="#">CSCuj70276</a> | A             | QNS[Sys-Test]: Wrapper SPR API Failures observed during Longevity         |
| <a href="#">CSCuj05394</a> | A             | Diameter interface not supported by default for new installation          |
| <a href="#">CSCuj25704</a> | A             | QNS: QNS needs a restart after updating any thing in policy CDR /POLICY   |
| <a href="#">CSCuh85984</a> | A             | QNS: There is no variable to set threshold for RAM in snmpd.conf.         |
| <a href="#">CSCul20931</a> | A             | PortalProxyExternalCurrentsessions SNMP KPI cannot be retrieved           |
| <a href="#">CSCul16817</a> | A             | QPS: SCE without SCE Device session can cause bad charges                 |
| <a href="#">CSCuj33743</a> | A             | High load on pre-production HA environment with no traffic                |
| <a href="#">CSCuj34878</a> | A             | GR: Fallback of qps-vip-standby to qps-vip not taking place               |
| <a href="#">CSCui02238</a> | A             | QPS: QNS should reject a request if no service is provisioned             |
| <a href="#">CSCui20040</a> | A             | QPS: qns-1.log error - 'avg' is specified for a field vs 'accumulation'   |
| <a href="#">CSCul33836</a> | A             | QPS responds with diameter Unknown_Session for LMA-initiated disconnect   |
| <a href="#">CSCul04289</a> | A             | QNS[Sys-Test]: Zabbix is consuming more space in GR setup on site's 1 & 2 |
| <a href="#">CSCuj56264</a> | A             | Appscan-unencrypted login and directory listing issues in PB and CC       |
| <a href="#">CSCuj59733</a> | A             | QNS: QNS acceptscsv replication successfully without mandatory fields.    |
| <a href="#">CSCuj60363</a> | A             | QNS: \"com.mongodb.CommandFailureException\" for CRD table.               |
| <a href="#">CSCul41578</a> | A             | GetRefDataBalance does not return non-base quota template fields          |
| <a href="#">CSCul61217</a> | A             | QPS: MAC address change will fail the license check                       |
| <a href="#">CSCul63344</a> | A             | Revalidation-Time AVP added multiple times in CCA/RAR                     |
| <a href="#">CSCul71200</a> | A             | QPS:Mongo Exception observed during balance transaction for user          |
| <a href="#">CSCul92366</a> | A             | QNS[Sys-Test] 6.0:DIAMETER_UNABLE_TO_DELIVER Errors -Gx Proxy Longevity   |
| <a href="#">CSCul93354</a> | A             | QNS[Sys-Test] 6.0:DIAMETER_AUTHORIZATION_REJECTED-Gy Proxy Longevity      |
| <a href="#">CSCui50612</a> | A             | Appscan-unencrypted login and directory listing issues                    |
| <a href="#">CSCum00341</a> | A             | QNS: Scheduling is not working through updatesubscriber SPR API.          |
| <a href="#">CSCum05284</a> | A             | Policy Reporting - timestamps changed from GMT to Eastern Time            |
| <a href="#">CSCui56555</a> | A             | Service failure after upgrade if svc config object change (data type)     |
| <a href="#">CSCze09612</a> | A             | SNMP traps in 5.3.4 are missing fields                                    |
| <a href="#">CSCze09822</a> | A             | Manage BROADHOP password usage for debranding                             |
| <a href="#">CSCze10250</a> | A             | Rollover - Quota Credit not valid?                                        |
| <a href="#">CSCze10351</a> | A             | Decision Tables take forever to add columns once you have more th...      |
| <a href="#">CSCuj47892</a> | A             | UC initiator returns false when no condition provided                     |
| <a href="#">CSCuj49739</a> | A             | QNS: Exception found while deleting subscriber.                           |
| <a href="#">CSCug21376</a> | A             | QNS: Displaying wrong value of rule in services in policy builder.        |



**Table 1**      **Open Caveats**

| <b>CDET ID</b>             | <b>Status</b> | <b>Headline</b>                                                            |
|----------------------------|---------------|----------------------------------------------------------------------------|
| <a href="#">CSCug39309</a> | A             | RADIUS: [QNS-1530] Integration of Control Center and ISG query isn't wor   |
| <a href="#">CSCug45758</a> | A             | Core: [QNS-1516] GUI Changes in Policy Builder                             |
| <a href="#">CSCug45822</a> | A             | Core: [QNS-1305] Auto Register MAC Credential setting not reflected        |
| <a href="#">CSCug47926</a> | A             | Core: Password Prompt page has error                                       |
| <a href="#">CSCul68865</a> | A             | QPS: Implement Code Review comments for CSCul51779                         |
| <a href="#">CSCug53457</a> | A             | Portal: QNS-1002: Portal Update gives duplicate key error                  |
| <a href="#">CSCul71020</a> | A             | CSCul64768,CSCul49223 Review Comments - Refactoring of \"addAVPs\" method  |
| <a href="#">CSCug78453</a> | A             | Core: FileUtils.java file move to share plugin from client plugin          |
| <a href="#">CSCuh66059</a> | A             | QNS: Query Session SPR-API functionality is not working for CredentialKey  |
| <a href="#">CSCuh72257</a> | A             | QNS: Request Completed Successfully should'nt come on wrong API Req msg.   |
| <a href="#">CSCuh78064</a> | A             | QNS: Email/Sms Notification is triggerd,without adding in Service option.  |
| <a href="#">CSCuh91326</a> | A             | QNS: Input variables with datatype Integer is accepting values in decimal  |
| <a href="#">CSCui34105</a> | A             | QNS_HA: Error on console while restartall.sh from PCRFCLIENT01             |
| <a href="#">CSCui78870</a> | A             | Amount field is not required for Quota Template                            |
| <a href="#">CSCui82065</a> | A             | GR: Profile update not reflecting in certain scenario.                     |
| <a href="#">CSCuj17607</a> | A             | Policy Builder hangs to load in QMOG environment                           |
| <a href="#">CSCze09717</a> | A             | Control Center shouldn't constantly spew errors to the log if it ...       |
| <a href="#">CSCze10221</a> | A             | Null threshold amount causes MSBM to throw NPE on threshold checks         |
| <a href="#">CSCui21669</a> | A             | runIUMTestClient.sh generating giving funny output                         |
| <a href="#">CSCum06529</a> | N             | Issues with QNS                                                            |
| <a href="#">CSCuj83372</a> | N             | GR: BROADHOP-QNS-MIB.txt should be updated for additional VMs in GR.       |
| <a href="#">CSCul00840</a> | N             | Shaw ISG-QNS stress test - Seeing 274 Acct Timeouts                        |
| <a href="#">CSCul34049</a> | N             | Not all KPIs available via SNMP in default deployment                      |
| <a href="#">CSCul39024</a> | N             | portal httpd logs rolling over on time not volume                          |
| <a href="#">CSCul44317</a> | N             | Policy Builder: Customer Ref Data available even when not installed.       |
| <a href="#">CSCul46341</a> | N             | Change port of portal_admin_proxy in haproxy.cfg                           |
| <a href="#">CSCul66261</a> | N             | TAC: QPS not processing usernames with trailing spaces                     |
| <a href="#">CSCul67772</a> | N             | QNS[Sys-Test] 6.0:Sync_Time script should include only QPS hosts/VMs       |
| <a href="#">CSCul68179</a> | N             | QNS[Sys-Test]: Trap for Site1 chassis outage should generate on site2 snmp |
| <a href="#">CSCul70306</a> | N             | QPS documentation needs to be on Cisco.com                                 |
| <a href="#">CSCul70780</a> | N             | Internal only website in QPS5_5_1OpensourcebuildInstructions               |
| <a href="#">CSCul74046</a> | N             | SWAG: If portal is not being installed, its entries shouldn't be in conf.  |

**Table 1**      **Open Caveats**

| <b>CDET ID</b>             | <b>Status</b> | <b>Headline</b>                                                            |
|----------------------------|---------------|----------------------------------------------------------------------------|
| <a href="#">CSCul74060</a> | N             | Trap issues for RAN_Cong_data_utility                                      |
| <a href="#">CSCul77918</a> | N             | QPS Installation: qns-1 directory missing on qns03.                        |
| <a href="#">CSCul77920</a> | N             | QPS Installation: No radius entry in general_mobile directory              |
| <a href="#">CSCul83576</a> | N             | QNS:Exception in forwarding a major alarm to corporate_nms_ip              |
| <a href="#">CSCul88292</a> | N             | Additional sysconfig directories on template VMs break installation        |
| <a href="#">CSCul89185</a> | N             | QNS[Sys-Test]: Trap severity for pcrfclient01 and arbiter VM is wrong      |
| <a href="#">CSCul97811</a> | N             | CollectD mongo plugin causing memory leaks                                 |
| <a href="#">CSCum06477</a> | N             | Latest Build setup missing notification feature at lb01                    |
| <a href="#">CSCze09821</a> | N             | Default DNS entries cause issues in resolving namespaces                   |
| <a href="#">CSCuj71634</a> | N             | Proxy: QNS not able to create session-ID as per RFC with 3rd party OCS     |
| <a href="#">CSCuj93393</a> | N             | QNS:ULI should be categorized under \"NETWORK\" in Policy Reporting in PB. |
| <a href="#">CSCul16804</a> | N             | SNMP AdministrativeAccess component traps are not being sent               |
| <a href="#">CSCul20450</a> | N             | AIO Formal Installation Guide                                              |
| <a href="#">CSCul20466</a> | N             | AdministrativeAccess application traps are not being sent from PB          |
| <a href="#">CSCul20470</a> | N             | AdministrativeAccess application traps not being sent from CC              |
| <a href="#">CSCul20601</a> | N             | Radius Disconnect message is not logged in Engine log.                     |
| <a href="#">CSCul20485</a> | N             | QPS: NullPointerException in some cases when receiving a Diameter message  |
| <a href="#">CSCul51381</a> | N             | about.sh error on AIO - scp haproxy.cfg                                    |
| <a href="#">CSCug44925</a> | N             | Core: [QNS-421] When loading sessions and a secondary key matches ...      |
| <a href="#">CSCul65224</a> | N             | QNS[Sys-Test] 6.0:Policy State is null; queryAccount failed errors         |
| <a href="#">CSCul65979</a> | N             | QPS:Not able to remove session from QPS CC                                 |
| <a href="#">CSCul79290</a> | N             | File permissions incorrect RE update_qns.sh                                |
| <a href="#">CSCuh93156</a> | N             | QNSSPR-API: Number of credentials more than max limit can be configured    |
| <a href="#">CSCuh93331</a> | N             | QNS: Input variables should not accept multiple values in PB.              |
| <a href="#">CSCul86781</a> | N             | ERROR c.b.b.s.actions.OCSLoadBalanceState.queryAccount                     |
| <a href="#">CSCuh96085</a> | N             | QNS: Exception on console of PCRFCLIENT01 on multiple \"service qns stop\" |
| <a href="#">CSCui00922</a> | N             | QNS_HA: Exception error seen in logs on service startup on lb nodes        |
| <a href="#">CSCui30373</a> | N             | diagnostics.sh not show the correct message on LB CPU count                |
| <a href="#">CSCul95598</a> | N             | Installer scripts not sourcing check_config.sh properly                    |
| <a href="#">CSCui32595</a> | N             | QNS SEP: In SMS offline notification logs no SMS text message is display   |
| <a href="#">CSCul97933</a> | N             | null pointer in csv replication                                            |
| <a href="#">CSCul99915</a> | N             | Provision L3 VPNs with Programmable Time Based and On Demand SLA           |
| <a href="#">CSCui34515</a> | N             | QNS_PB: Services can be saved with duplicate names in PB                   |
| <a href="#">CSCum01753</a> | N             | Qns should not log \"License Directory is not defined\" error for HA setup |

**Table 1**      **Open Caveats**

| <b>CDET ID</b>             | <b>Status</b> | <b>Headline</b>                                                          |
|----------------------------|---------------|--------------------------------------------------------------------------|
| <a href="#">CSCum03308</a> | N             | /etc/init.d/qns script not creating the svn check out correctly          |
| <a href="#">CSCui44451</a> | N             | QNS_SPR API: Error Code 2 String is incorrect for UpdateSubscriber API   |
| <a href="#">CSCze09639</a> | N             | PB is allowing to add the services with duplicate name.                  |
| <a href="#">CSCze09642</a> | N             | CSCze09642wrong copyright in policy builder 5.3.5 help                   |
| <a href="#">CSCze09643</a> | N             | Wrong guides display for qns policy builder 5.3.5 help                   |
| <a href="#">CSCze09679</a> | N             | Policy Builder not showing all Service Options Parameters                |
| <a href="#">CSCze09694</a> | N             | Review Balance Manager and handle cases that now exist that can c...     |
| <a href="#">CSCze09740</a> | N             | Wrong install guide displays for qns 5.3.4 help                          |
| <a href="#">CSCze09747</a> | N             | Not able to update Service definition attribute                          |
| <a href="#">CSCze09776</a> | N             | In Notifications when you select the SMS check box and unselect (...     |
| <a href="#">CSCze09818</a> | N             | 'Copy: Current Use Case Template' doesn't copy child objects             |
| <a href="#">CSCuj20079</a> | N             | GR: Whenever user opens publish page, junk entry appends.                |
| <a href="#">CSCuj25670</a> | N             | QNS: System field is seems to be enabled for each cdr Field Type in PB.  |
| <a href="#">CSCze09831</a> | N             | Replication Manager - Line 52 throwing a Null Pointer exception          |
| <a href="#">CSCze09854</a> | N             | Periods in Balance and Quota Code names will cause create/update ...     |
| <a href="#">CSCze09856</a> | N             | Handle potential NPEs that could occur when checking MsBM thresho...     |
| <a href="#">CSCze09947</a> | N             | Policy Builder .metadata directory caches IP addresses                   |
| <a href="#">CSCze10016</a> | N             | QNS installer should check disk space before starting/backing up         |
| <a href="#">CSCze10029</a> | N             | Make Timezone Dialog select field's value                                |
| <a href="#">CSCze10054</a> | N             | Modify Time action with Zero out hours/minutes/etc requires Base ...     |
| <a href="#">CSCze10150</a> | N             | Linux TCP Tuning for Jetty                                               |
| <a href="#">CSCze10177</a> | N             | When loading sessions and a secondary key matches multiple sessio...     |
| <a href="#">CSCze10188</a> | N             | Credit in Balance Manager will throw a NPE if no Credit Amount pa...     |
| <a href="#">CSCze10220</a> | N             | PolicyBuilder needs to trim values in decision tables                    |
| <a href="#">CSCuj30879</a> | N             | QNS : US 103 SP-WiFi, Null Pointer Exception thrown for existing session |
| <a href="#">CSCze10253</a> | N             | Literal Dates in Policy Builder do not match the mask anymore so ...     |
| <a href="#">CSCze10320</a> | N             | Verify/Fix MSBM so that if a Reservation spans multiple credits/q...     |
| <a href="#">CSCze10327</a> | N             | Policy server reports type conversion error when there is no type...     |
| <a href="#">CSCze10335</a> | N             | Multiple Prepaid - Edge Case - handling of activating 2nd quota w...     |
| <a href="#">CSCuj32542</a> | N             | QNS[Sys-Test]:Version Info is required for application/platform Scripts  |
| <a href="#">CSCul15751</a> | N             | QNS: Displaying wrong value of \"lab: installer:\" in about.sh.          |
| <a href="#">CSCze09742</a> | N             | GUI Changes Policy Builder - Fields - Mandatory and Enforcement          |
| <a href="#">CSCze10322</a> | N             | Multiple Prepaid - Change From Stackable to Not Stackable - no en...     |
| <a href="#">CSCul05146</a> | N             | New deployments Zabbix configuration still monitors JAVA_B processes     |
| <a href="#">CSCum11719</a> | N             | QNS: qos/rule update is not happening with reference to CRD.             |
| <a href="#">CSCuj73454</a> | O             | QNS[Sys-Test]:Diagnostic should check the reachability of ntp servers    |

**Table 1**      **Open Caveats**

| <b>CDET ID</b>             | <b>Status</b> | <b>Headline</b>                                                             |
|----------------------------|---------------|-----------------------------------------------------------------------------|
| <a href="#">CSCUj91866</a> | O             | set_config.sh file discrepancies                                            |
| <a href="#">CSCUj41095</a> | O             | QPS: Deploy_qns keeps on asking password again and again.                   |
| <a href="#">CSCUj94846</a> | O             | configure_esx.sh should allow for usernames other than root                 |
| <a href="#">CSCUg23591</a> | O             | QNS: QoS information is not displayed in \"service\" for preconfigured rule |
| <a href="#">CSCUg30514</a> | O             | QNS: QNS is allowing the addition of duplicate entries of Quota Template    |
| <a href="#">CSCUg31082</a> | O             | QNS: The service parameter deleted and tried to add do not show info        |
| <a href="#">CSCUg31316</a> | O             | QNS: Wrong event trigger values are displayed in service in QNS.            |
| <a href="#">CSCUg45709</a> | O             | QNS: Not able to edit or remove the values in service option once we save   |
| <a href="#">CSCUg48199</a> | O             | QNS:ARP info is not visible while viewing service option parameters.        |
| <a href="#">CSCUi30480</a> | O             | QNS SEP:No log for offln evnt notif record change to \"NOFITY\" in MongoDB  |

A - Assigned

O - Opened

N - New

## Resolved/Verified Caveats

Table 2 lists the resolved/verified caveats in the CPS 6.0 release.

**Table 2**      **Resolved/Verified Caveats**

| <b>CDET ID</b>             | <b>Status</b> | <b>Headline</b>                                                          |
|----------------------------|---------------|--------------------------------------------------------------------------|
| <a href="#">CSCUl56840</a> | C             | QPS6 - SP WiFi - under iWAG config, QPS responds with access-reject      |
| <a href="#">CSCUl45022</a> | C             | QNS[Sys-Test] : XML Notifications not received by notification server    |
| <a href="#">CSCUh86405</a> | C             | QNS:Traps are not being generated for admin login.                       |
| <a href="#">CSCUi37556</a> | C             | QNS_PB: active sessions not visible in Monitoring tab of PB              |
| <a href="#">CSCUj36978</a> | C             | Session Wallet - Gy interface to be triggered by a policy                |
| <a href="#">CSCUi56253</a> | R             | memoryused option on trends page of Control Center Monitor tab gives err |
| <a href="#">CSCUi57647</a> | R             | Unified API SearchSubscribersRequest with empty Name search.             |
| <a href="#">CSCUi74591</a> | R             | String/String EntryType for Session objects in Unified API               |
| <a href="#">CSCUj24188</a> | R             | AVP value for 'SVR-DEVICE-TYPE'                                          |
| <a href="#">CSCUj33942</a> | R             | Fix Login Logic to only Auth In The Event Unkown User                    |
| <a href="#">CSCUj45004</a> | R             | billCycle element missing from BalanceType in schema                     |
| <a href="#">CSCUj62967</a> | R             | QNS:A duplicate row is being added in csv file in case of termination    |
| <a href="#">CSCUl02665</a> | R             | Merging 5.5.2 MR code to 6.0.0                                           |
| <a href="#">CSCUl03106</a> | R             | Day 2 monitoring should support HA                                       |
| <a href="#">CSCUl03130</a> | R             | Control Center not able to open subscriber due to monitoring key value   |

**Table 2** *Resolved/Verified Caveats*

| <b>CDET ID</b> | <b>Status</b> | <b>Headline</b>                                                          |
|----------------|---------------|--------------------------------------------------------------------------|
| CSCu112051     | R             | totalBytes is not populated in CDRs generated for diameter message       |
| CSCu113236     | R             | Bandwidth Monitoring Issues                                              |
| CSCu113271     | R             | True/False column should accept 'True or False or true or false' values  |
| CSCu113749     | R             | Change Healthcheck URL                                                   |
| CSCu130531     | R             | QPS: SCE - Balance Use Case initiator causes problems                    |
| CSCu136196     | R             | create patch for collectD change for Day2 monitoring                     |
| CSCu136422     | R             | No Monitoring key sent in RAR after a credit API is sent to QPS          |
| CSCu137163     | R             | QPS: Stage_update script not working as expected                         |
| CSCu138561     | R             | update the template VM with new logback.xml                              |
| CSCu141353     | R             | Subscriber Balance screen does not render correctly                      |
| CSCu141485     | R             | CollectD Framework to support day2 monitoring                            |
| CSCu150056     | R             | Policy cdr records migrated from 5.5 to 6.0 shows PB config errors       |
| CSCu155852     | R             | QNS[Sys-Test]:Traps shud generate from either of one only lb01 or lbs01  |
| CSCu158745     | R             | Credit/Debit Balance dialogs do not display correctly                    |
| CSCu163769     | R             | Diameter Gx/Gy CDRs Documentation                                        |
| CSCu164781     | R             | QNS[Sys-Test] 6.0:Infinite loop of CCR T is observed on Gy Proxy I/F     |
| CSCuh70895     | R             | QPS: Add validation to the service schedule time                         |
| CSCuh77924     | R             | QNS:Next Expiration for Balance Quota is displayed wrongly in CC.        |
| CSCu170372     | R             | RAA not proxied by QPS                                                   |
| CSCu171229     | R             | QNS[6.0]:QNS is not handling RAA error code for ASR..                    |
| CSCuh78306     | R             | Control Center should display dates and times in the server's timezone   |
| CSCui30359     | R             | dead sessionmgr causing QNS not coming up                                |
| CSCu190237     | R             | Need to add 27017 port entry in iptables on perflclient02                |
| CSCu193032     | R             | SSP deployment script issues                                             |
| CSCu199579     | R             | logback.xml file in all_in_one_mobile is not working properly.           |
| CSCze09762     | R             | Diameter failover broken                                                 |
| CSCze09795     | R             | no build number or version number on screen for Control Center           |
| CSCui14598     | R             | QNS:CC accepts a primary credential with an expiration date of past.     |
| CSCuj65654     | R             | Modified code and update pdf file name which is related to cc documents  |
| CSCu159211     | R             | Cust Ref Data screen scrolls when a Cust Ref Data Window is minimized    |
| CSCuj43048     | R             | SPR Migration Script add support for "\"relam_key\""                     |
| CSCui17243     | R             | QNS: blank bearer Id is displayed while checking the sub session in CC.  |
| CSCuj77718     | R             | QPS: QPS Server (and Policy Builder) takes a long time to load           |
| CSCui44975     | R             | QNS_CC: Incorrect name of subaccount displayed in Control Center         |
| CSCuj20279     | R             | remove extra logs for LicenseManagerProxy                                |
| CSCuj45331     | R             | Getters to return the default values per spec if no value in the session |

**Table 2 Resolved/Verified Caveats**

| <b>CDET ID</b> | <b>Status</b> | <b>Headline</b>                                                                                                                                                                                                       |
|----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CSCui94006     | R             | Support Real Time Traffic Monitoring                                                                                                                                                                                  |
| CSCui83104     | R             | port JeroMQ branch to 6.0 main trunk                                                                                                                                                                                  |
| CSCuj07958     | R             | Heavy User Determination without requiring balance                                                                                                                                                                    |
| CSCui52158     | R             | Sy Interface session termination should be Async and not Sync                                                                                                                                                         |
| CSCul29448     | R             | Getting serviceCode field for policy reporting                                                                                                                                                                        |
| CSCui45057     | R             | QNS_CC: Parent subscriber status change does not affect child subscriber                                                                                                                                              |
| CSCze09658     | R             | Fix default perfcient01 sizing for Zabbix*                                                                                                                                                                            |
| CSCuj32625     | R             | Need changes for diagnostic script to support HA-GR shard db health                                                                                                                                                   |
| CSCuj10649     | R             | Intelligent Error Messaging                                                                                                                                                                                           |
| CSCum96345     | R             | RADIUS not responding on correct IO Manager.<br>RCA: Fix for CSCul59101 caused a regression for this issue where destination host is not set correctly and ISG ignores the message coming from incorrect destination. |
| CSCuj17518     | V             | No Core license was granted unless the MOBILE_COREt in the license file                                                                                                                                               |
| CSCui88644     | V             | Encryption migration update script                                                                                                                                                                                    |
| CSCul63161     | V             | QNS[6.0]:QPS is not sending RAR during STR from Rx.                                                                                                                                                                   |
| CSCuj19011     | V             | Rx calls failing when Gx_TGPP dictionary is used on Gx interface                                                                                                                                                      |
| CSCul25107     | V             | Performance test failed and crashed Mongo replica.                                                                                                                                                                    |
| CSCul59101     | V             | rigid off warning message in qns.log to avoid out of disk space on perfl                                                                                                                                              |
| CSCuj62940     | V             | QNS:Exception is observed when monitoring the dashboard in CC.                                                                                                                                                        |
| CSCuj82554     | V             | QNS:Bandwidth monitoring template missing from 6.0 build                                                                                                                                                              |
| CSCul08105     | V             | QNS[Sys-Test] 6.0:QNS Proxy connection problem even when CER/CEA Success                                                                                                                                              |
| CSCuj66056     | V             | QNS:[6.0]QPS not able to evaluate session base on LAC value                                                                                                                                                           |
| CSCul06846     | V             | QNS: Real Time Notification returned ClassCastException                                                                                                                                                               |
| CSCui09852     | V             | Control Center : com.google.gwt.user.client.rpc.StatusCodeException: 500                                                                                                                                              |
| CSCul56198     | V             | the default thread pool for the aync action should be 10 in PB                                                                                                                                                        |
| CSCul54157     | V             | "No connection available to lb01-3:diameter-lb" Random Error in QNS Log.                                                                                                                                              |
| CSCuj28453     | V             | QNS: Error observed while upgrading the build from 5.5 to 6.0                                                                                                                                                         |
| CSCuj28912     | V             | Loosen lock on svn publish                                                                                                                                                                                            |
| CSCul18986     | V             | balance module should installed dependent module as part of upgrade.                                                                                                                                                  |
| CSCul53095     | V             | QNS[6.0]Without license able to make 200000 session                                                                                                                                                                   |
| CSCul17825     | V             | QPS is not sending RAR after user is provisioned on SPR through API                                                                                                                                                   |
| CSCuj70980     | V             | QNS:use case template/service option deleted when upgrd to 6.0.0.r053026                                                                                                                                              |
| CSCul51842     | V             | QNS[Sys-Test] 6.0:QNS Proxy not able to proxy CCA \"TV\" received                                                                                                                                                     |
| CSCuj71726     | V             | ChangeBalanceSubscriberId must allow for Shared Quota scenarios                                                                                                                                                       |
| CSCul16790     | V             | InterfaceDown SNMP traps/clears are not being sent                                                                                                                                                                    |

**Table 2** *Resolved/Verified Caveats*

| <b>CDET ID</b> | <b>Status</b> | <b>Headline</b>                                                             |
|----------------|---------------|-----------------------------------------------------------------------------|
| CSCu110867     | V             | VLAN ID Variable Substitution fails in Access Accept                        |
| CSCu151061     | V             | Stage update set back to default settings of features list and qns.conf     |
| CSCui72870     | V             | Tariff switch times trigger not working                                     |
| CSCuj85638     | V             | Prepaid Update rejected by QPS when quota is still available                |
| CSCu108855     | V             | QPS: TAL Failures shouldn't prevent another type of authentication          |
| CSCu147929     | V             | java.lang.OutOfMemoryError: GC overhead limit exceeded Error on Lb VM.      |
| CSCui86168     | V             | Deletion tag needs to implement the IDeleteSession                          |
| CSCui86418     | V             | QNS does not answer CCR-i                                                   |
| CSCuj90961     | V             | QNS: On service change (monitor-key enable) infinite RAR/RAA triggering     |
| CSCu105595     | V             | Firewall on LB VMs blocking memcache access                                 |
| CSCu141230     | V             | Monitoring System Health screen does not appear                             |
| CSCu136484     | V             | Firewalls on sessionmgrs are blocking QPS access                            |
| CSCu130387     | V             | all_in_one_mobile /etc/broadhop files do not contain diameter features      |
| CSCuj95548     | V             | Custom AVPs causing infinite loop                                           |
| CSCu165627     | V             | QNS[6.0]:AAA should initiated with<br>UNAUTHORIZED_NON_EMERGENCY_SESSION    |
| CSCu168563     | V             | QNS[Sys-Test] 6.0:lb01- >lb02- >lb01 recovery not taking place              |
| CSCu177856     | V             | QPS Installation: Many errors in diagnostics.sh output.                     |
| CSCu180577     | V             | QPS crash when basic CCR-i message received from Seagull                    |
| CSCu185294     | V             | Latest 6.0 QA OVFs missing /etc/broadhop/license/features.properties        |
| CSCu186546     | V             | QNS[Sys-Test] 6.0:Error processing policy request: deviceManagerId          |
| CSCu186763     | V             | QNS: The Flag values are incorrect when message is proxied                  |
| CSCu188296     | V             | Latest OVF fails to deploy LB01                                             |
| CSCu189613     | V             | QNS[Sys-Test] 6.0: Discrepancy found in Hop by Hop ID in CCA T              |
| CSCu191540     | V             | QNS[6.0]:QPS is not sending AAA.                                            |
| CSCui42972     | V             | QNS: Exception thrown by QNS for Dynamic rule install on IP-CAN<br>3GPP-EPS |
| CSCui47619     | V             | QNS: JMS flow control causes SOAP requests rejected                         |
| CSCui58545     | V             | [QPS5.5]PB:Audit related error while saving pb conf to client repository    |
| CSCui80086     | V             | Need to merge code for QNS-1559 - Hospitality Use Case.                     |
| CSCuj06254     | V             | Bearer-ID missing in CCA-U                                                  |
| CSCuj06795     | V             | NPE observed when we dont provision QCI in DefaultBearerQoS                 |
| CSCuj22362     | V             | QNS:RAR-RAA is going in infinite loop if RevalidationTime is configured.    |
| CSCuj26821     | V             | Do we have a procedure to clean the /data on sessionmhr02?                  |
| CSCuj33896     | V             | NAI Mapping To User ID Should be configurable                               |
| CSCuj44582     | V             | QPS : Mistake in Mobile-config-guide.                                       |
| CSCuj55963     | V             | QNS:Subscriber with null name is not showing in CC after upgrade 5.5- >6    |

**Table 2 Resolved/Verified Caveats**

| <b>CDET ID</b> | <b>Status</b> | <b>Headline</b>                                                              |
|----------------|---------------|------------------------------------------------------------------------------|
| CSCUj58317     | V             | haproxy will not start on LBs if portal VMs are not deployed                 |
| CSCUj62766     | V             | QNS:[6.0]Adding new row in Reference Data table during edit existing row     |
| CSCUj74427     | V             | QNS: Duplicate session key is visible while checking the session in CC.      |
| CSCUj82128     | V             | QNS service not restarting if /var/log/broadhop missing on HA                |
| CSCUj85200     | V             | QNS[Sys-Test]: qns01 /var partition full due to java_pid20885.hprof dump     |
| CSCUj91169     | V             | Error running QPS install script: ./deploy_qns.sh                            |
| CSCUj91834     | V             | Some scripts in /opt/broadhop/installer not updating properly                |
| CSCUj94192     | V             | SPEG:scripts: Junk characters are coming in output.                          |
| CSCUj96973     | V             | SPEG:Log:LOG: While calling QNS-PB-Log, Application crashed.                 |
| CSCUj97002     | V             | SPEG: In diagnostics.sh, Warning, error, PASS, Fail are not distinguishable. |
| CSCUj97009     | V             | SPEG: In diagnostics.sh, lot of junk characters are appearing in output.     |
| CSCUj97014     | V             | SPEG: Save dialog: Typos and junk characters in error message.               |
| CSCUl00752     | V             | Longevity failed due to tmpfs out of space for 500K subscribers on HA        |
| CSCUl02518     | V             | QNS: Rf ACR EVENT_RECORD not working                                         |
| CSCUl14977     | V             | SPEG: For QPS deployment console while doing Ctrl C throwing exception       |
| CSCUl18432     | V             | Object names in MIBs do not match those in the Alarming and SNMP Guide       |
| CSCUl20951     | V             | PCRFPProxyExternalCurrentSessions SNMP values are incorrect                  |
| CSCUl23165     | V             | LowMemory SNMP traps are not being sent                                      |
| CSCUl25282     | V             | Servers config file has two instances of qns defined.                        |
| CSCUl36413     | V             | QNS template VMs have incorrect snmpd.conf                                   |
| CSCUl52982     | V             | Servers config file has two instances of qns defined.                        |
| CSCUl55979     | V             | logback SocketAppender causes adverse impact on PCRf functionality           |
| CSCUl63360     | V             | QNS[6.0]:AAA should go from QPS with IP-CAN_SESSION-NOT-AVAILABLE cause.     |
| CSCUl69936     | V             | build_set.sh broken and not able to create/start replica set of 27717        |
| CSCUl85162     | V             | Deployment Scripts:: LBVIP01 and LBVIP02 not configured for LB01             |
| CSCUh88737     | V             | QNS:Traps are not being generated for invalid license.                       |
| CSCUh92053     | V             | QNS: CC lists wrong values to add while adding value to CRD table.           |
| CSCUh95951     | V             | QNS: Missing mandatory AVP's causes Null Pointer Exception                   |
| CSCUl87667     | V             | Some scripts in /opt/broadhop/installer do not have execute permissions      |
| CSCUl38873     | V             | Control Center Day-2 Monitoring: Need better indexes for performance.        |
| CSCUj30898     | V             | QNS:US 103 SP-WiFi, Missing Calling Station Id throwing exception            |
| CSCUh12813     | V             | ISG Prepaid troubleshooting scripts are not working                          |
| CSCUj66066     | V             | QNS fails to respond to Accounting Stop after prepaid quota used up          |
| CSCUh86543     | V             | QNS:Traps are not being generated for memcached not available.               |
| CSCUl30880     | V             | Allow usage monitoring when Rel8 support advertised by PCEF                  |



**Table 2**      **Resolved/Verified Caveats**

| CDET ID    | Status | Headline                                                                 |
|------------|--------|--------------------------------------------------------------------------|
| CSCuh86271 | V      | QNS:Traps are not being generated for InterfaceDown.                     |
| CSCui96633 | V      | Quota Expiration in Months (vs. Days)                                    |
| CSCul38139 | V      | SPEG: Alias should be there for TUI.                                     |
| CSCuh77714 | V      | QNS:Destination for Notification in cc should accept the values wrt type |

R - Resolved

V - Verified

C - Closed

## 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.

- *Cisco Policy Suite 6.0 Installation Guide*
- *Cisco Policy Suite 6.0 Wi-Fi / BNG Configuration Guide*
- *Cisco Policy Suite 6.0 Mobile Configuration Guide*
- *Cisco Policy Suite 6.0 Alarming and SNMP Guide*
- *Cisco Policy Suite 6.0 Operations Guide*
- *Cisco Policy Suite 6.0 Backup and Restore Guide*
- *Cisco Policy Suite 6.0 Troubleshooting Guide*

## 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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