

Policy Management

Wireless Release 10.5.0

Release Notice

910-6917-001 Revision A

October 2013



Tekelec

Policy Server - Policy Charging and Rules Function (PCRF) Copyright, Notice, Trademarks, and Patents

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Patents

This product may be covered by one or more of the following U.S. and foreign patents:

U.S. Patent Numbers:

Legal Information

7,738,440; 7,788,357; 7,805,515; 8,254,551; US 7961623; US 8073444;

Foreign Patent Numbers:

AU 2004247256; AU 2004247251; AU 2005208846; AU 2005208847; AU 2005286941; EP 1631917; EP 1997276; EP 2049909; JP 4395662; JP 4582346; JP 4652345; JP 4843610; ZL 200680049126.1;

Release Notice

Policy Management 10.5.0

This release notice lists the PRs that have been fixed, and those that are known to exist, in Policy Management 10.5.0.

This release notice also describes how to obtain Tekelec customer documentation.

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PR Severity Definitions

The following sections refer to PR severity levels. Definitions of these levels can be found in the following publication:

TL 9000 Quality Management System Measurement Handbook.

Customer Fixed PRs

Table RN-1 on page RN-2, "Policy Management 10.5.0 Customer Fixed PRs Report Table," lists fixed severity 1, 2, 3 and enhancements for Policy Management Release 10.5.0.

Table RN-1. Policy Management 10.5.0 Customer Fixed PRs Report Table

PR#	CSR#	Severity	DESCRIPTION
223729		Minor	Upgrade: Secondary CMP Site continually restarting qp_procmgr when Primary site upgraded
225739		Minor	if flow number of the media component in AAR is not numbered starting from 1, MPE will reject the message
227131		Minor	[Quota Enhance] Reset expired quota's usage once it's quoted in policy condition no matter whether granted in action or not
227368		Minor	Gx-Time-Quota mysteriously resets
227509		Minor	Policies will not execute (because of NullPointerException) if policy writer attempts to check the amount of usage for a pass that the subscriber does not have
227669		Minor	When there is error while parsing Sh-Data, print the user id that is causing it
227711		Minor	Pool quota usage and pool state looked up even when cache is enabled and user is not in any pool
227728	1006700	Major	PCRF appears to be not running rules intermittently
227777		Minor	Next Reset Time incorrect for Monthly Quota when Next Reset Time specified with 'First Billing Day' String
227815		Minor	MPE get OUT_OF_SYNC error in PUA when tring to send PUR to SPR
227923		Minor	[ADS] User Identities except E164 failed to be returned in PER
227950	1006368	Major	5003 DiameterRejected session after reaching 16 sessions correlated
228320		Minor	MRA unable to route non-initial messages by session id in a multi MRA environment
228568		Minor	[Pass Mgmt] MPE does not grant appropriate quota in BEST OF quota condition
228637		Minor	Unable to display policies - Java exception
228681		Minor	MPE may not be able to establish diameter session via CER/CEA after it's upgraded.
228733		Minor	gx or gy quota for pre-upgraded session can't be updated after upgraded from 7.5.4
228746		Minor	[pass Mgmt] java.util.ConcurrentModificationException results from occasionally receiving a CCR-u with Revalidation Timeout at the same time an update reporting RAT-Change.
228843		Minor	[ADS] java.lang.NullPointerException encountered
228933		Minor	[Pass Mgmt] java.lang.NullPointerException detected: MPE can throw an NPE while evaluating a policy after processing a Gy CCR-t with usage info, which exhausted the remaining time quota for a pass (Pass2).
229618		Minor	[Pooled Quota] MPE reports incorrect value in Gx-CCA-u for pooled quota
228885		Minor	[CMP] Disable subscriber pools on CMP should not make Pass expiration extension invisible
228968		Minor	[Pass Mgmt] MPE writes incorrect time usage for pass (Gx time quota)
229088		Minor	Inetrep was unable to contact arbitrator, causing HA to hang
229200	1007640	Major	PCRF config mismatch and deployed policy corruption
229348	1010736	Minor	PCC rule is not installed due to charging rule report with 'temporarily inactive'
229564		Major	MPE does not properly handle CCR-t and the secondary CCR-U with pooled quota
225472	1000796	Major	RC hung on BAD OP error from Comcol on inetsync
223368	995548	Minor	LDAP connection down alarm is not auto-clearing nor can it be manually cleared after the connection is re-established.
226722	1003902	Minor	OSSI/XML interface mismatches (Documentation vs Testing)
209149	927486	Major	comcol shows error and becomes out of sync with peer
225120	1000280	Minor	SSH Key exchange not working when ping is blocked between servers
210973	935436	Major	An Error Message appears with no detectable associated behavior

Customer Known PRs

Table RN-2 on page RN-4, "Policy Management 10.5.0 Customer Known PRs Report Table," lists fixed severity 1, 2, and 3 for Policy Management Release 10.5.0.

Table RN-2. **Policy Management 10.5.0 Customer Known PRs Report Table**

PR#	CSR#	Severity	Title	Customer impact	Component	Workaround
216132		3-Minor	DIAMETER_USER_UNKNOWN was returned for Gy if check off validate user and check on tracking usage for unknown users	This issue only occurs when the feature 'Track Usage for Unknown Subscribers' is enabled, the SPR data source has no knowledge of the subscriber, and the operator is using Gy. This is typically not a valid use case as it would not make sense to start a Gy session for an unknown subscriber.	MPE	
222329	992632	3-Minor	8.0.2_Missing Parameters in Column key for Policy table	Majority of standard items are not in the drop down list, and not documented, Making it difficult for product use.	CMP	
224048		3-Minor	CMP "remove" icon often uses the "cut" image	Customers may find the CMP GUI is inconsistent with the icons used for the "remove" functionality	CMP	
225537		3-Minor	[Quota, daylight switch] Revalidation-time was wrong on the first day entering daylight for TimeZone -500	Customers using Gx quota may find that when day time changes because of day-light savings time, the first revalidation time value is incorrect. This corrects on subsequent CCRs	MPE	
226190		3-Minor	Sy: RAR is send to existing IP-CAN sessions with default rule install when subsequent Gx session is setup along with Sy	Customer may notice that the default UEFlow rule is reinstalled on Re-Auth Requests unnecessarily.	MPE	
226476		3-Minor	Sy: RAR is send to IP-CAN session with default rule when SLR-intermediate is received from the OCS	Customer may notice that the default UEFlow rule is reinstalled on Re-Auth Requests unnecessarily.	MPE	
226480		3-Minor	[CMP OSSI importing/upgrade] Traffic profiles containing some obsolete TDF-related AVPs are failed to import in CMP	Customer may find that traffic profiles containing TDF related AVPs will fail to be imported into the CMP in this release.	CMP	Remove the TDF AVPs from the exported traffic profiles and import again.
226579		3-Minor	Upgrade fails due to missing logback files	Customer may have an upgrade abort due to logback configuration files missing from the system being upgraded.	Platform	If the files are missing for some reason, restore the files.
226807		3-Minor	DIAMETER_ERROR_UNKNOWN_USER should be treated as a permanent failure for Sy session	Customers employing the Sy interface may find that the MPE does not initially cease sending SLR messages until a second permanent failure is received.	MPE	
226954		3-Minor	[online doc] description of 3100 does not match the actual message	None, the online help will not accurately describe the message.	CMP	
223368						

225472						
227070		3-Minor	Sy: Associated DS configuration is not shown in the Data Source Configuration	The screen for the 'Data Sources' tab may be confusing for some users due to the way it displays the column for 'Role' that indicates which data sources are Secondary. The table does not show relationships, i.e. which Primary data sources are associated to which Secondary data sources. The user needs to edit individual data sources to see that.	CMP	Associated datasource could be viewed in edit mode.
227460		3-Minor	Sy: SySessionId is not removed from Gx session when Sy session is terminated after receiving SLA-u in error USER_UNKNOWN	If an SLA-Intermediate contains a permanent error code, the Sy session is deleted from the database. However, the Gx session will still contain the SySessionId. Since the Sy session no longer exists, it will not cause any functional impact.	MPE	None
227732		3-Minor	clustered MRA: diameter connection to MPE up with oam source ip address after MRA failover	Customers should take care to avoid creating Diameter connections between MRA and MPE using the OAM network interfaces. Defer to using the Signaling interfaces instead for this purpose.	MPE	For SPR connections, this can be worked around, by setting the admin state of the SPR data source to down and then back up again, For the MRA to the MPE connections, each MPE will have to be failed over
227807		3-Minor	[servie flow detection] Flow description is not correct in PCC rule installed by policy when show session in rcmgr	Customers should use care not to install dynamic PCC rules on new AF flow creation requests, as the incorrect flow descriptors, as compared to those arriving in the AAR, can be installed by the PCRF. Instead ensure PCC profiles are used in these scenarios.	MPE	
227921		3-Minor	[ADS] Monitoring Key is missing from TLV Quota Usage	For the ADS interface, the Monitoring key TLV is not included in quota update PERs, when it is available. The key is optional and currently there is no use of this feature just yet. Even so, as an optional missing TLV, this does not invalidate Quota Update PERs.	MPE	
228028		3-Minor	Add Data Source window: "Alternate Key" left side tab appears unexpectedly	When browsing to the default view for an Sy datasource, customers may find the CMP GUI displays a blank page.	CMP	No need to workaround
228653		3-Minor	alarm history report not showing last 3 days of alarms unless I submit date range	Customers may notice that when viewing the Alarm History Report on the CMP GUI does not display the latest logged entries in this display.	CMP	The workaround is to use start date/end date to filter the latest alarm.
228742		3-Minor	MRA DIAMETERDRA.MaxSessionsP	When a user with many secondary sessions for the same APN exceeds	MRA	none

			erPdnConnectionInBinding sometimes limit not right	the max limit of sessions per pdn, the second oldest Gx session is removed. This could be an issue if the primary session is not the oldest Gx session.		
228919		3-Minor	[mixed version] MPE is sending unnecessary second UDR with null ServiceIndication	MPE sends unnecessary messages to the SPR. System continues to operate correctly.	MPE	
229240		3-Minor	Sd I/F Enhancements: Retry Profile Maximum Attempts Not Working for ADC Rules Installation via RARs if Multiple TDFs	Maximum retry attempts via Re-Authorize Request messages may be exceeded in case if Retry Profiles were imported and multiple TDFs is connected to PCRF. Issue is intermittent.	MPE	After importing the Retry Profiles, save them via the CMP UI.
229393		3-Minor	PNR does not retrieve profile data from multiple secondary data sources associated with the originating data source.	Customers with a primary Sh data source and secondary LDAP data sources may find that lookups for subscriber data in response to a PNR received from the primary data source will not occur except to the first secondary LDAP data source.	MPE	There is no workaround for this. The lookup will not occur.
229691		3-Minor	[java] fatal java error when associating Network Element group containing about 1040 NEs to MPE	Adding a group with a large number (1000+) of network elements to an MPE can potentially cause the MPE to failover unexpectedly.	MPE	Configure more groups with less network elements in each group.
229768		3-Minor	MPE: Cleanup tasks using the "Session Cleanup Start Time" configuration can become clogged and stop working	Customers should avoid configuring the stale session cleanup tasks in such a way that it is forced to switch several times between running at a time relative to current time (specified by the cleanup interval) and running at an absolute time specified by cleanup start time.	MPE	There is no known workaround except failing over. One possible workaround is to switch to relative scheduling till the issue clears itself up, but it could not be verified effectively because of the difficulties in reproducing the issue.
230003		3-Minor	Java core files are frequently generated when SSL certs are synched across the cluster.	When synchronizing SSL certs, the applications are restarted. It is possible that the Java processes will generate a core file on their shutdown. Customers may find this can result in two outcomes: 1) The server will exhibit a core file detected alarm for a while. 2) The server will generate a savestate during its restart - this will cause the standby server to stay out of service for a while.	MPE	
230015		3-Minor	"Session Clean Up Settings" Below Allowable Range display incorrect error message.	Customers changing the Session Clean Up Settings to values below the allowable range may see an incorrect error message when trying to save.	CMP	

230116		3-Minor	Policy with "when quota requested" condition not triggered when Gy CCR-U sent with used-service and requested-service AVP	Customers using Gy quota management may find that the policy conditional 'where the quota is requested' does not work properly.	MPE	
230251		3-Minor	When SNMPv3 Username is up to 32 characters, snmpwalk on manager get failure.	Customers using full-length usernames with SNMPv3 may encounter failures when trying to use snmpwalk.	Platform	
230285		3-Minor	Preferred User Id not found exception on CCR-I when primary and secondary HSS servers are not available/down	An exception may be seen in the engineering logs, however it only occurs under a specific set of circumstances. A workaround is available.	MPE	The workaround is setting the cfg key DB.User.UsageKeyTag=IM SI through the Advanced configuration screen on the CMP. This will avoid the exception and filling the logs.
230344		3-Minor	[Sy performance] latency numbers seen on PP-5160 higher then expected in Ref B requirement	Latency numbers do not meet requirements on PP5160 hardware.	MPE	
230406		3-Minor	[pass mgmt] after pass grant is consumed and pass deleted, extra PUR is sent when it's not needed	On CCR-T messages without usage data, the MPE will send an unnecessary PUR message to the SPR. Quota usage is recorded correctly. The problem is an unnecessary message that can be ignored.	MPE	
230410		3-Minor	Static route on OAM network does not get removed after service network restart	Customers attempting to delete routes using the platcfg utility may find that they are not actually removed afterwards.	Platform	A work around is that after running platcfg->Camiant Config->Routing->Delete Route, customer must run the above command making sure to specify /32 or /128 (IPv6) if the route is a host route.
230425		3-Minor	After add more than 100 time during in time period one time, can't save and can't delete time during in GUI before refresh.	Customers should avoid attempting to configure more than 100 time slots in one time period.	CMP	For firefox, refresh the page will solve this issue.
230471		3-Minor	policy with mutiple options in condition "where the rule report for the flow has status" deploy failed	Currently customer can not set a single policy with single condition covering all statuses for the rule report.	CMP	1 option: Create two separate policies for separate rule report statuses where conditions are: 1st policy condition: where the rule report for the flow has status active 2nd policy condition: where the rule report for the flow has status temporarily_inactive 2 option: create a single policy with 2

						conditions, as following: where the rule report for the flow has status active Or where the rule report for the flow has status temporarily_inactive
230475		3-Minor	When SNMP v3 is configured as username with up to 30 characters and password with up to 64 characters, snmp process died	Customers should avoid using full-length usernames and passwords when employing SNMPv3	Platform	
230498		3-Minor	Sd I/F Enhancements: Unresponsive Sd Sessions Not Marked Stale and Not Cleaned Up	Customers may notice an accumulation of stale SD sessions when the corresponding TDFs do not respond to Audit RARs for a considerable time. However, eventually, when the associated GX session is terminated or purged, these stale SD sessions would be purged as well.	MPE	
230516		3-Minor	When click the [Use Input Value] button, the page will show 404 error.	Customers may encounter an HTTP 404 error when clicking the button for 'Use Input Value' while configuring a Policy Table.	CMP	
230603		3-Minor	[Pooled Quota] Policy variable {User.Pool.Quota} does not work	A policy writer will be unable to get the current quota name for a pooled quota that we have just granted from as they can with subscriber based quota	MPE	Write the policy explicitly to record the pooled quota name
230753		3-Minor	Rule_0_0 is installed in an RAR with Session-Release-Cause AVP for a GPRS session	An extra AVP (Charging-Rule-Install) is included in Re-Authorize Request (RAR) message for releasing GPRS session. It has no impact on system since session is being released correctly.	MPE	
230781		3-Minor	Policy code fails to detect the error when adding routing table	Platform configuration lacks validation if there are errors while adding routing table	Platform	
230854		3-Minor	Exception Error serializing object of type msc.rc.model.ImportedSubscriberPool	Policies for subscribers who is part of pool quota and uses dynamic quota in the same time may not execute correctly. This is an intermittent issue.	MPE	

Upgrade Paths

10.5.0 supports the following upgrade paths for C-Class blades and Rack Mount servers

	From	To
CMP	8.0.x, 9.1.x	10.5.0
MPE	8.0.x, 9.1.x	10.5.0
MRA	8.0.x, 9.1.x	10.5.0

NOTE:

- Any upgrade other than listed above is not recommended or supported.
- 10.5.0 is supported as a new/fresh installation.
- It is recommended to upgrade in the following order
 - SPR
 - CMP
 - MRA
 - MPE

Platform baseline versions included

10.5.0_22.1.0
TPD version: 5.1.1-73.5.1
COMCOL version: 6.0p224.8237

Part Numbers

Policy 10.5.0 SW

CMP:	895-1670-201 DVD	895-1670-301 USB	895-1670-401 ESWD
MPE:	895-1671-201 DVD	895-1671-301 USB	895-1671-401 ESWD
MRA:	895-1672-201 DVD	895-1672-301 USB	895-1672-401 ESWD

Note: Included in the CMP DVD, USB or Electronic Download are the following items:

- SW_POLICY MANAGER_10.5.0-22.1.0_MEDIA
- SW_TPD_5.1.1-73.5.1_MEDIA
- DOC_TEKSERVER_PLATFORM_5.0+_INSTALLATION INSTRUCTIONS INITIAL PRODUCT MANUFACTURE_1 DOCUMENT
- SW_HP MISC FIRMWARE_2.2.4-10.32.0_MEDIA
- SW_HP SPP FIRMWARE_2.2.4-10.32.0_MEDIA
- DOC_PLATFORM_HP FIRMWARE UPGRADE PACK 2.2.4 RELEASE NOTES_ENGLISH_1 DOCUMENT
- DOC_PLATFORM_HP FIRMWARE UPGRADE PACK 2.2 UPGRADE PROCEDURE_ENGLISH_1 DOCUMENT
- SW_TVOE_2.0.1-80.32.0 X86-64_PLATFORM_MEDIA
- DOC_UPGRADE PROCEDURE_POLICY_10.5 SW INSTALLATION

Policy 10.5 User Documents

910-6725-001 Feature Notice
936-0412-201 [DVD] 936-0412-501 [electronic download] User Documentation Set

PM&C: 5.0.2-50.16.1

64 Bit	895-1563-202 DVD	895-1563-302 USB	895-1563-402 ESWD
32 Bit	895-1575-202 DVD	895-1575-302 USB	895-1575-402 ESWD

SPR: 9.0.3-11.1.0

SPR: 895-1513-206 DVD 895-1513-306 USB 895-1513-406 ESWD
SDM 9.0 Feature Notice 910-6538-001
SDM User Documentation Set 936-0394-201
SDM Release Notice 910-6714-001

Accessing Customer Support Documentation

1. Go to the [Tekelec Customer Support](#) site.
2. **NOTE: If you have not registered for this new site, click the Register Here link. Have your customer number available. The response time for registration requests is 24 to 48 hours.**
3. Enter your assigned username and chosen password, then click **Login**.
4. **NOTE: After 20 minutes of inactivity, you will be logged off, and you must repeat this step to regain access.**
5. Click the Product Support tab.
6. Use the Search field to locate a document by its part number, release number, document name, or document type. The Search field accepts both full and partial entries.
7. Click a subject folder to browse through a list of related files.
8. To download a file to your location, right-click the file name and select Save Target As.
9. **NOTE: Customers may print a reasonable number of each manual for their own use.**