Oracle® Communications
Tekelec Policy Management

Release Notice

Release.11.1.2

E58927-01

December 2014

ORACLE®

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Introduction

This release notice lists the Resolved and Known PRs for Policy Management Release 11.1.2.

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Release Notices are distributed to customers with a new software release at the time of Product Availability. They are updated for each Maintenance Release.

Upgrade Paths

11.1.2 supports the following upgrade paths

	From	To
CMP	10.0.1	11.1.2
MPE-LI	10.0.2	11.1.2
MRA	10.0.3	11.1.2

NOTE:

- Any upgrade other than listed above is not recommended or supported.
- 11.1.2 is supported as a new/fresh installation.
    - CMP
    - MRA
    - MPE-LI

Load Lineup

This version of Policy Management 11.1.2_7.1.0 includes:

Application Lineup

- CMP
- MPE-LI
- MRA

Platform Lineup

- TPD 6.5.1-82.28.0

PR Severity Definitions

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

TL 9000 Quality Management System Measurement Handbook

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Resolved PRs

Table RN-1. NOTE: Table RN-1 Policy Management 11.1.2 Resolved PRs

BUG #	SR#	Severity	Title	Description
19815225	N/A	3-Minor	Bash vulnerability - shell shock - CVE-2014-6271/CVE-2014-7169	N/A
20077660	N/A	2-Major	Session Correlation variables for Gx sessions	This enhancement allows referencing variables in Gx sessions for different APNs of the same subscriber. There are a predefined set of values that will be supported by this function. This list and the syntax will be provided in the FD. It will be limited to session-level data. No flow-level data within the session data will be supported.
19689436	N/A	3-Minor	Java core dump gets deleted from /var/TKLC/core	Java core dump file was getting deleted from /var/TKLC/core and left backtrace behind everytime a core dump was generated. This prevented debugging a Java Garbage collector crash/failover on an MRA (SR 3-9138416302)
20215227	N/A	3-Minor	Model object version number compatibility issue when upgrading to future release	When upgrading to 11.5/12.0, the newer releases will not be able to determine the correct model object version.
19806060	3-9643954391	3-Minor	[231600]Support multiple PDN connections per APN on the MRA	See the description below

Originally MRA supports only one PDN connection per subscriber (binding) per APN. One subscriber can have multiple PDN connections, but they must be different APN. If one subscriber receives multiple PDN connections from the same APN, newer PDN connection will update previous PDN connection. With this new feature, subscriber can have multiple PDN connections per APN.

There are two new cfgs for this feature:

DIAMETERDRA.ENF.EnableMultiplePdnConnectionsPerAPN
Description: Indicates whether to support multiple PDN connections per subscriber per APN. If enabled, MaxPdnConnectionsPerSubscriberPerAPN will define the max value. Default Value: false

DIAMETERDRA.ENF.MaxPdnConnectionsPerSubscriberPerAPN
Description: This is the maximum amount of pdn connections allowed per subscriber per APN. This cfg is only effective if EnableMultiplePdnConnectionsPerSubscriberPerAPN is true. If this amount is exceeded then the oldest pdn connection will be removed and the new pdn connection will be added. Default Value: 1

This feature only affects the use cases that involves sessions of the same subscriber with the same APN. Different subscribers/same subscriber with different APN should continue to work as before. When EnableMultiplePdnConnectionsPerAPN is false, MRA maintains original behavior. When this feature is enabled, it checks APN and IP to determine a new session be established as a new PDN connection or inserting to existing PDN connection.

Examples:

1. (feature enabled, value set to 2): We have gx 1 (SubA, IP1, APN1). Now we receive gx 2 (SubA, IP2, APN1). Since gx 1 and 2 share the same subsID and APN, but they have different IP, gx 2 will be added as a new PDN connection.
2. (feature enabled, value set to 2): We have gx 1 (SubA, IP1, APN1). Now we receive gx 2 (DPI, SubA, IP1, APN1). Since gx 2 is DPI, it shares the same SubID, IP and APN with Gx 1. Therefore the new DPI gx 2 will be inserted into existing PDN connection containing gx 1.
3. (feature enabled, value set to 2): We have gxx 1 (SubA, no IP, APN1). Now we receive gx 2 (SubA, IP1, APN1). Since the existing PDN connection does not have any IP (gxx has no IP), the new gx 2 is automatically inserted to existing PDN connection and updates it's IP.

There are 2 cfgs involving max PDN connection eviction:

DIAMETERDRA.ENF.MaxPdnConnectionsInBinding (default 20): This is an existing cfg controling max PDN connection per subscriber (binding). When max is hit, the oldest PDN connection (creation time) is evicted. This cfg does not consider APN. The behavior is unchanged for this cfg.

DIAMETERDRA.ENF.MaxPdnConnectionsPerSubscriberPerAPN (default 1) This is a new cfg controling max PDN connection per subscriber per APN. When this number is hit, the oldest (creation time) PDN connection of the same subscriber and APN is evicted.

Two new stats are added: In mramgr, type "show counters *DraBindingManager". You will see two new stats: "PDNConnectionPerAPNAdded", "PDNConnectionPerAPNEvicted". These two counts are effective only when enabling this feature. PDNConnectionPerAPNAdded is incremented only when the second PDN connection of the same APN and IP is added as a new PDN connection. The first PDN connection does not increment this count. If the new PDN connection is added to an existing PDN connection, this is also not incremented. "PDNConnectionPerAPNEvicted" is similar.

Customer Known PRs

Table RN-2. Policy Management 11.1.2 Customer Known PRs

PBUG#	SR#	Severity	Title	Customer Impact
232575	N/A	3-Minor	Flow-Description AVP doesn't comply with 3GPP Release 9	No Customer Impact
237452	N/A	3-Minor	Sy cleanup stats should contain a new counter for "Removed on unknown user"	
239507	N/A	3-Minor	[SEC] Policy Web Application must follow ARB Cookie Design and Disclosure Req. and Guidelines	No Customer Impact
239508	N/A	3-Minor	[SEC] Policy Web Application needs to comply with SCS and use CSRF recommended protections	No Customer Impact
240712	N/A	3-Minor	Isolate policy/policy group warning exists even though the policy is imported as expected	

Oracle Tekelec References and Services

My Oracle Support (MOS)

MOS (*https://support.oracle.com*) is your initial point of contact for all product support and training needs. A representative at Customer Access Support (CAS) can assist you with MOS registration. Call the CAS main number at **1-800-223-1711** (toll-free in the US), or call the Oracle Support hotline for your local country from the list at *http://www.oracle.com/us/support/contact/index.html*. When calling, make the selections in the sequence shown below on the Support telephone menu:

1. Select **2** for New Service Request

2. Select **3** for Hardware, Networking and Solaris Operating System Support

3. Select **2** for Non-technical issue

You will be connected to a live agent who can assist you with MOS registration and provide Support Identifiers. Simply mention you are a Tekelec Customer new to MOS.

MOS is available 24 hours a day, 7 days a week, 365 days a year.

Emergency Response

In the event of a critical service situation, emergency response is offered by the My Oracle Support 24 hours a day, 7 days a week. The emergency response provides immediate coverage, automatic escalation, and other features to ensure that the critical situation is resolved as rapidly as possible.

A critical situation is defined as a problem with the installed equipment that severely affects service, traffic, or maintenance capabilities, and requires immediate corrective action. Critical situations affect service and/or system operation resulting in one or several of these situations:

- A total system failure that results in loss of all transaction processing capability
- Significant reduction in system capacity or traffic handling capability
- Loss of the system's ability to perform automatic system reconfiguration
- Inability to restart a processor or the system
- Corruption of system databases that requires service affecting corrective actions
- Loss of access for maintenance or recovery operations
- Loss of the system ability to provide any required critical or major trouble notification

Any other problem severely affecting service, capacity/traffic, billing, and maintenance capabilities may be defined as critical by prior discussion and agreement with the My Oracle Support Center.

Customer Training

Oracle offers a variety of technical training courses designed to provide the knowledge and experience required to properly provision, administer, operate, and maintain Oeacle products. To enroll in any of the courses or for schedule information, contact Oracle University .