

**Oracle® Communications  
Tekelec HLR Router 4.1.0.0.0**

**Release Notice**

Release 4.1.0.0.0

**E76074-02**

June 2016

Copyright © 2013, 2016

This software or hardware and documentation may provide access to or information on content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services..

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information on content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

## Table of Contents

|                                       |    |
|---------------------------------------|----|
| INTRODUCTION.....                     | 4  |
| BUG Severity Definitions.....         | 4  |
| Upgrade Paths .....                   | 4  |
| Load Lineup.....                      | 4  |
| Media Pack.....                       | 5  |
| FEATURE DESCRIPTIONS .....            | 6  |
| RESOLVED BUGS.....                    | 7  |
| CUSTOMER KNOWN BUGS.....              | 8  |
| ORACLE REFERENCES AND SERVICES .....  | 12 |
| My Oracle Support (MOS).....          | 12 |
| Emergency Response .....              | 12 |
| Customer Training.....                | 12 |
| APPENDIX A: FIRMWARE COMPONENTS ..... | 13 |
| HP FUP .....                          | 13 |

## Introduction

This release notice lists the Resolved BUGs for Tekelec HLR Router 4.1.0.0.0-41.8.0.

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

## BUG Severity Definitions

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

*TL 9000 Quality Management System Measurement Handbook*

## Upgrade Paths

HLRR 4.1 supports the following upgrade paths for c-Class blades and Rack Mount servers

|             | From  | To    |
|-------------|-------|-------|
| <b>HLRR</b> | 4.0.0 | 4.1.0 |

### Notes:

- HLRR 4.1 is supported as a new/fresh installation.

## Load Lineup

| Application Lineup 4.1.0 GA                              |
|--|
| HLRR 4.1.0.0.0-41.8.0                                    |
| Platform Lineup  |
| TPD 7.0.3.0.0-86.40.0* (HLRR Baseline; Oracle Linux 6.7) |
| TVOE 3.0.3.0.0-86.45.0                                   |
| PMAC 6.0.3.0.2-60.28.0                                   |
| Comcol 6.4-p430  |
| Appworks 6.0.1-60.54.0                                   |
| Exgstack 7.2.0-72.18.0                                   |
| HP FUP 2.2.9 (minimum)                                   |

**\*Note:** TPD 7.0.3.0.0-86.40.0 should be used to IPM HLRR systems. As part of successful installation of the HLRR 4.1 GA version, the TPD version is upgraded to 7.0.3.0.0-86.45.0. PMAC is also built on TPD 7.0.3.0.0-86.45.0.

## Media Pack

Components available for download from the Oracle Software Delivery Cloud (<https://edelivery.oracle.com/>) are listed in Table RN-1 Media Pack Contents.

**Note:** This list is accurate at the time of release but is subject to change. Please view the Oracle Software Delivery Cloud (OSDC) site for the latest information.

**Table RN-1. Media Pack Contents, Tekelec Home Location Register Router (4.1.0.0.0) v1**

| Part Number | Description   |
|-------------|---|
| V270131-01  | Oracle Communications HLRR 4.1.0.0.0-41.8.0   |
| V270132-01  | Oracle Communications HLRR 4.1.0.0.0-41.8.0 MIBS                                      |
| V106309-01  | Oracle Communications Tekelec Platform Distribution 7.0.3.0.0-86.40.0                 |
| V138361-01  | Oracle Communications Tekelec Virtual Operating Environment 3.0.3.0.0-86.45.0         |
| V266925-01  | Oracle Communications Tekelec Platform Management and Configuration 6.0.3.0.2-60.28.0 |

**Note:** Search for “*Tekelec Home Location Register Router*” on OSDC for Platform and Application software.

## Feature Descriptions

### Database Capacity Improvements

HLR Router Support for 1 Billion Routing Entities (IMSI / MSISDN) on HP G6 and HP Gen9 RMS Hardware (BUG #22244442)

- The HLR Router database supports 1 billion IMSIs or DNs entries in any combination.

### Feature Constant Upgrade

HLR Router Support of HP Gen9 RMS Hardware (BUG #22175497)

- The HLR Router supports the HP Gen9 hardware for the NOAMP, the SOAM, and the MP.

HLR Router Support for IPv6 on HP Gen9 RMS Hardware (BUG #22244415)

- IPv6, as well as IPv4, is supported on the specific interfaces listed below.

**Table RN-2. List of Interfaces that support IPv4 as well as IPv6**

| Interface                 | Definition  |
|---------------------------|---|
| PDB Provisioning          | A provisioning link typically but not necessarily only from SDS   |
| PDB Provisioning (secure) | Secure provisioning link to any server  |
| Remote Import Server      | Interface to import bulk provisioning data  |
| Remote Export Server      | Interface for exporting bulk provisioning data  |
| PDE                       | Performance Data Export – Old version of Data Export obsoleted by APDE  |
| MySQL client queries      | Interface supporting mysql coming in to the Query Server  |
| APDE                      | Platform supported Automatic Performance Data Export for logs, measurements, KPIs etc.  |
| LDAP                      | Platform supported Lightweight Directory Access Protocol Server   |
| DNS                       | Platform supported Domain Name Server   |
| SNMP                      | Platform supported Simple Network Management Protocol managers for sending traps to addresses that are registered to receive them |

## Resolved BUGs

Table RN-3. HLR Router 4.1.0.0.0 Resolved BUGs

| Bug ID   | SR                             | Found Release | Severity    | Title   |
|----------|--------------------------------|---------------|-------------|---|
| 22175497 |                                | N/A           | Enhancement | HLR Router Support of HP Gen9 RMS Hardware  |
| 22244442 |                                | N/A           | Enhancement | HLR Router Support for 1 Billion Routing Entities   |
| 22244415 |                                | N/A           | Enhancement | HLR Router Support for IPv6   |
| 20801137 | 3-10471786711                  | 4.0           | 2           | IDB not recovering properly from the update log after being taken down  |
| 20801117 | 3-10471786711                  | 4.0           | 2           | Further investigation and a fix for the new inetsync abterms  |
| 20801065 | 3-10471786711<br>3-10476818691 | 4.0           | 2           | Configure process watchdog timers   |
| 19090036 |                                | 3.1           | 3           | [218315]Hidden ".dot" files are displayed on HLRR 3.1 GUIs  |
| 19116527 |                                | 4.0           | 3           | [239259]Security Logs are not properly displayed on the active NOAMP GUI at screen - "Main Menu: Security Log -> View History " |
| 19116175 |                                | 4.0           | 3           | [238976]Read Only User able to modify data on active SOAM GUI   |
| 19115788 |                                | 4.0           | 3           | [238700]Day interval measurement report does not display last complete day  |
| 23206882 | 3-12522192311                  | 4.0           | 3           | HLRR cannot process -1 "Invoke Id" value from the TCAP incoming message   |
| 21226128 | 3-10544738251                  | 4.0           | 4           | AssocConfigSet_SS7_<timestamp>.csv file not being exported  |
| 20426765 | 3-10095721291                  | 4.0           | 4           | Error Code 003 appears but no duplicate seen  |

## Customer Known BUGs

Table RN-4. HLR Router 4.1.0.0.0 Customer Known BUGs

| BUG #    | Sev | Release | Title  | Customer Impact / Workaround   |
|----------|-----|---------|--|--|
| 22922233 | 3   | 4.1     | CSRF security violation seen on GUI when using "Backup All" button         | Customer Impact: No operational impact. Intermittent issue, if it occurs the user should simply try the operation again and it will be successful.   |
| 22618619 | 3   | 4.1     | Failed to Start Manual Audit   | Customer Impact: No operational impact. Database checksum validation is being continuously performed on the Comcol database and any checksum discrepancies are automatically corrected. Intermittent Comcol database stability issues can occur if a database audit is executed in parallel with the automated Comcol database checksum validation process. To prevent this from happening the database audit functionality has been purposely disabled in HLRR 4.1. As a result, the Status & Manage > Database > Manual Audit GUI function will fail if the user attempts to start or suspend a manual database audit.                 |
| 23335740 | 3   | 4.1     | In-progress compare could result in subsequent compare or restore failures | Customer Impact: No operational impact. If DB restore procedural instructions are followed, this condition cannot occur. If executed accidentally, the system will error out before damage occurs leaving the user free to retry per instruction. This issue only occurs when restoring from a large (1G or greater) bziped DB file and the user clicks "Ok" a second time after starting the restore with the initial "Ok" on the Status & Manage > Database > Restore GUI. Workaround is to not click "Ok" a second time once you have started the restore from the Database Restore GUI until the initial restore has been completed. |
| 23507908 | 3   | 4.1     | LRGSYS: Status&Manage -> Processes screen takes longer time to display     | Customer Impact: No operational impact. On larger HLRR systems with many SOAMs and multiple GUI sessions running, the user may have to wait 90+  |

|          |   |     |   |   |
|----------|---|-----|---|---|
|          |   |     |   | seconds for the Status & Manage -> Processes GUI to displayed. This screen is an informational screen which displays process information executing on the HLRR servers.   |
| 19110629 | 3 | 4.0 | [234673]Upgraded Standby NO server becomes HA active before Primary NO server go  | Customer Impact: No operational impact. This issue could possibly happen during upgrade and will be managed by the Oracle install team when it occurs.  |
| 19112042 | 3 | 4.0 | [235825]HLRR 4.0 NO GUI - LockoutWindow option under Administration -> General Options does not work properly             | Customer Impact: No Operational Impact. This is an intermittent issue affecting disabled user accounts.   |
| 19114447 | 3 | 4.0 | [237668]Unable to see more than 2 days Alarm History Logs on GUI at screen - "Main Menu: Alarms & Events -> View History" | Customer Impact: No operational impact. Can view logs 2 days at a time back for 7 days on the GUI. Logfile with all 7 days can be exported and downloaded to an excel spreadsheet.  |
| 19115285 | 3 | 4.0 | [238308]PdbiPeakMsgsReceived PDBI measurement records incorrect value   | Customer Impact: No Operational Impact. The NOAM gives priority to DB replication/syncing and therefore may intermittently cause queuing of the PDBA process in relation to handling of PDBI messages.<br>When such queuing occurs, the peak value seen as the "PdbiMsgsReceived" value for a given 5 minute period may be the result of incoming messages received plus previously queued messages resulting in a higher than anticipated Measurement value. |
| 19115830 | 3 | 4.0 | [238734]TPD Server Core File Detected - Software Program Abnormally Terminated  | Customer Impact: No Operational Impact. Problem occurs when attempting to view a very large exported file thru the link generated on the [Main Menu: EAGLE XG Database -> Maintenance -> PDBI -> Export Status] page. File may be downloaded for viewing outside of the GUI without issue.  |
| 19116260 | 3 | 4.0 | [239043]Got 'Access Denied' while Logout from GUI Path Main Menu:Logout menu option                                       | Customer Impact: No operational impact. This issue occurs intermittently with Internet Explorer 8.  |

|          |   |     |  |   |
|----------|---|-----|--|---|
| 19116459 | 3 | 4.0 | [239196]HLRR 4.0 Status & Manage GUI screen refreshing issue                     | Customer Impact: Screen refresh rates for the [Main Menu: Status & Manage] GUI screens on large systems (80+ servers) may take up to 60 sec to auto refresh. The user may manually refresh if a faster status update is required.   |
| 23295603 | 4 | 4.1 | TM/SS7 Maintenance screens always display timestamps in UTC                      | Customer Impact: No operational impact. UTC time is displayed on the SOAM's Transport Manager Maintenance's Transport GUI and the SS7/Sigtran Maintenance 's Local SCCP Users, Remote Signaling Points, Remote MTP3 Users, Linksets, and Links Screens GUIs regardless of the time zone selected for the HLRR system.                       |
| 23279651 | 4 | 4.1 | Opcode and MP fields should be marked as mandatory in Throttling->Rule Test      | Customer Impact: No operational impact. Opcode and MP Name fields should be labeled as mandatory fields in the Tekelec HLR Router -> Configuration -> Throttling -> Rule Test GUI.  |
| 23256653 | 4 | 4.1 | Meas Report Tooltip for "TmTrEnaNotUp" is truncated                              | Customer Impact: No operational Impact. The full description of this measurement can be seen in the online help.  |
| 23239650 | 4 | 4.1 | Transport Disable warning message popup is shown even when transport is disabled | Customer Impact: At the Transport Manager -> Configuration -> Transport GUI, when the user attempts to delete a transport, a warning message will be displayed telling the user that the transport is not disabled even when it is disabled. Selecting the OK button on the warning popup message permits the user to delete the transport. |
| 23146148 | 4 | 4.1 | Tekelec HLR Router->Configuration menu not pruned when view permission disabled  | Customer Impact: No operational impact. User will see erroneous Tekelec HLR Router > Configuration Menu sub-options. These GUI options are not operational and do not impact functionality of the system.   |
| 23102407 | 4 | 4.1 | Invalid instance for backup started/complete/failure events                      | Customer Impact: No operational impact. The instance field in the Info Alarm for Start/Complete/Failure of backups displays a "-m" instead of the name of the instance. It also is reported incorrectly in the Alarm export file. User will have to look at the   |

**HLRR 4.1.0.0.0 Release Notice**

|          |   |     |  |  |
|----------|---|-----|--|--|
|          |   |     |  | server field of the Info Alarm message to determine on what server the backup action occurred.   |
| 23100688 | 4 | 4.1 | Server report shows IPv6 IP address in expanded format.                      | Customer Impact: No operational impact. The Server Report displays IPv6 addresses in expanded format rather than the preferred compact format.   |
| 23074450 | 4 | 4.1 | SIG Repl Status and Repl Audit Status should be removed from Database screen | Customer No operational impact. On the Status & Manage > Database GUI, the "Repl Audit Status" is not functional on the HLRR product and should be removed from the GUI to improve readability. The "SIG Repl Status" field reports status for MPs only. |
| 22922571 | 4 | 4.1 | incorrect message in warning (event number 32532)                            | Customer Impact: No operational impact. Event message reports that more information is available in the failed_log file but the additional details are not logged in the file.   |
| 22371880 | 4 | 4.1 | User can delete Network entity which is assigned to Exception Routing record | Customer Impact: User should never delete a Network Entity that is assigned to an Exception Route. Otherwise, the user will not be able to delete or modify the exception route associated with the deleted Network Entity.                              |

Table RN-3 represents Customer Known Bugs for HLRR 4.1 at GA Release.

## Oracle 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 an Oracle 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 Oracle products. To enroll in any of the courses or for schedule information, contact [Oracle University](#).

## Appendix A: Firmware Components

### HP FUP

The *Oracle Communications HP Solutions Firmware Upgrade Pack, Software Centric Release Notes 2.2.9* lists the firmware versions approved for this HP Solutions Firmware Upgrade Pack release to assist customers with upgrading their HP hardware. Also, additional instructions and guidance on the firmware upgrades has been provided where possible.

The Release Notes are available on Oracle Help Center (OHC) at [http://docs.oracle.com/cd/E57832\\_01/index.htm](http://docs.oracle.com/cd/E57832_01/index.htm).