

Oracle® Communications Services Gatekeeper

Release Notes

Release 4.1.1

September 2009

ORACLE®

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New Features

Welcome to Oracle Communications Services Gatekeeper™ 4.1.1 As the leading Telecom Service Access Gateway, Gatekeeper integrates telecom network technologies with SOAP Web Services, RESTful Web Services and SOA to provide a reliable framework for developing and deploying highly available, scalable, and secure telecommunications applications and features. Oracle Communications Services Gatekeeper's seamless integration of disparate, heterogeneous platforms and applications enables your network to leverage existing software investments and share the carrier-class services and data that are crucial to building next-generation telecommunication applications.

This chapter describes at a high level what new features in Gatekeeper have been created to support the ongoing evolution of the platform.

Updated Security

It is now possible to create a password validation provider to provide password rules for use with the Gatekeeper default authentication provider.

Updated Communication Services

Parlay X 2.1 Short Messaging/SMPP and Extended Web Services Binary SMS/SMPP

Attributes have been added to allow individual default settings for Esme TON and Esme NPI for both originating and destination addresses.

Native SMPP

Network-triggered messages that arrive from the network to an NT server that does not have an active bind to the targeted application can be routed, using JMS, to the application if another NT server does have an active bind. A new attribute, **OfflineMO**, must be set to true for this feature to function.

Supported Interfaces

Gatekeeper 4.1.1 supports the same interfaces as version 4.1.

Supported Configurations

The supported configurations have not changed since Oracle Communications Services Gatekeeper 4.0. For a complete listing, see the [Technical Specifications](#) chapter in the *Installation Guide*.

Backwards Compatibility

This section covers backwards compatibility between Oracle Communication Services Gateway 4.1 and 4.1.1. The following areas are discussed:

- [Platform Upgrades](#)
- [Management Operations](#)
- [Database](#)
- [Service Level Agreements](#)

Platform Upgrades

Upgrades from Services Gatekeeper 4.0/4.1 to 4.1.1 are supported. The upgrade process can be managed using the rolling upgrade mechanism unless your installation uses SIP, Native SMPP, or the RESTful facade, in which case a restart is necessary. Scripts and tools to facilitate upgrade and migration of data are provided.

Management Operations

Between 4.0 and 4.1 some account management operations were changed to accommodate the new SLA Types. Older methods continue to work, but are deprecated. Some plugin routing operations have changed to accommodate the new tier routing mechanism. Full documentation is available in *Managing Accounts and SLAs and Integration Guidelines for Partner Relationship Management*, separate documents in this set.

If you are upgrading from 4.1 to 4.11, there are no changes.

Database

Database schemas were changed between 4.0 and 4.1. If you are upgrading from 4.0 to 4.1.1 you will need to run the supplied data migration scripts. There are no schema changes between 4.1 and 4.1.1.

Service Level Agreements

Between 4.0 and 4.1, the Service Level Agreement mechanism was expanded. Old SLAs will continue to work, but will not be synchronized across geographically remote sites regardless of the setting of the <enforceAcrossSites> tag, which has been deprecated.

Note: These changes only affect those upgrading from 4.0 to 4.1.1. There are no SLA changes between 4.1 and 4.1.1.

As a result of these changes, there are several account management operations that have been changed, and earlier operations have been deprecated, both at the console (MBean) level and at the PRM Operator Service level. The deprecated operations in the console include:

- loadApplicationGroupSla
- loadApplicationGroupFromUrl
- retrieveApplicationGroupSla
- loadServiceProviderGroupSla
- loadServiceProviderGroupSlaFromUrl
- retrieveServiceProviderGroupSla
- loadGlobalNodeSla
- retrieveGlobalNodeSla
- loadServiceProviderGroupNodeSla
- loadServiceProviderGroupNodeSlaFromUrl
- retrieveServiceProviderGroupNodeSla
- loadSubscriberSla

- loadSubscriberSlaFromUrl
- retrieveSubscriberSLA

For more information on these changes, see “Managing SLAs” in *Managing Accounts and SLAs*, a separate document in this set.

The deprecated operations in the Operator Service interface of the PRM include:

- createAppGroup
- updateAppGroup
- createSpGroup
- updateSpGroup
- For more information on these changes, see “Operator Service” in *Integration Guidelines for Partner Relationship Management*, a separate document in this set.

Backwards Compatibility

Gatekeeper 4.1.1 Known and Resolved Issues

Resolved Issues in Gatekeeper 4.1.1

Change Request Number/BugDBID	Description and Workaround or Solution	Found In	Fixed In
CR384334/8178928	<p>If you stop one AT server and one NT server in a multi-cluster domain and then restart only the AT server, application-initiated requests sent to that server may result in the following error with the message: "Failed to invoke end component <component name>". In the reverse case, network-triggered requests may fail.</p> <p>Dependent on Oracle WebLogic Server CR384639.</p> <p>Make sure you start both servers.</p> <p>Contact Oracle support for a patch on this issue.</p>	4.1	4.1.1
CR384771/8177020	<p>If the credit control interceptor fails to connect to the Diameter server, the <code>isConnected</code> attribute will show incorrect state.</p> <p>Run traffic to check whether the interceptor is connected.</p>	4.1	4.1.1

Gatekeeper 4.1.1 Known and Resolved Issues

Change Request Number/BugDBID	Description and Workaround or Solution	Found In	Fixed In
CR384822/8180622	<p>The Parlay X 2.1 Short Messaging/SMPP plug-in does not support in-production upgrade after upgrading from 4.0.</p> <p>Before you do a rolling upgrade to the servers, undeploy the EAR file for this communication service. After all upgrades are complete, redeploy the EAR.</p> <p>This does not affect fresh installations of 4.1.</p> <p>Note: A mandatory patch will be released to correct this error. Please contact your Oracle service representative about acquiring this patch when it comes out.</p>	4.1	4.1.1
CR384759/8179114	<p>There is an error in the data migration scripts that causes the old SP SLA not to be changed.</p> <p>Necessary script updates can be found in “Upgrading Oracle Communications Services Gatekeeper” in <i>Installation Guide</i>, a separate document in this set.</p>	4.1	4.1.1
CR371114/8178772	<p>PRM service provider users and operator users can not be given access to a restricted set of JMX interfaces exposed by Oracle Communications Services Gatekeeper.</p> <p>Dependent on Oracle WebLogic Server CR 382906.</p>	4.1	4.1.1

Change Request Number/BugDBID	Description and Workaround or Solution	Found In	Fixed In
CR380863/8177189	<p>The SOAP to SOAP generation does not support all WSDLs.</p> <p>The WSDL defining the application-facing interface must adhere to the following:</p> <ul style="list-style-type: none"> • Attribute name in <wsdl:service> must include the suffix Service. • Attribute name in <wsdl:port> must be the same as the name attribute in • <wsdl:service>, excluding the suffix Service. <p>Dependent on Oracle WebLogic Server CR 384278.</p>	4.1	4.1.1
CR38279/08190205	<p>The Native SMPP communication service does not actively disconnect applications if the SMSC connection is down.</p> <p>The communication service sends an OK response to enquire link requests in this case.</p>	4.1	4.1.1
CR384696/817978/	<p>When OCSG is first used, the database is initialized. If two NT servers are started up at the same time, they may both try to initialize the database, causing a Service Deployment Exception and one server failing to start up.</p> <p>Make sure the servers are started one at a time.</p> <p>Restart the failed server.</p>	4.1	In Docs and Closed
CR384729/8179086	<p>Some Diameter requests may be dropped during patching, redeployment, or upgrade of the CDR to Diameter module.</p> <p>Check the database for the time period during which the transition took place. All CDRs are stored in the database.</p>	4.1	In Docs and Closed

Gatekeeper 4.1.1 Known and Resolved Issues

Change Request Number/BugDBID	Description and Workaround or Solution	Found In	Fixed In
CR384818/8179532	<p>The Native SMPP Communication Service does not support hitless upgrades. Upgrades cannot be performed without traffic service interruption.</p> <p>Perform a rolling upgrade instead.</p>	4.1	In Docs and Closed
CR384839/8176519	<p>The Plug-in Manager reports that plugin_sms_smpp state is connected even when it is not.</p> <p>Use the ActiveStatus attribute of the SMPP MBean to check connection status</p>	4.1	In Docs and Closed
CR384863/8180510	<p>When running the Legacy SMPP communication service, you may receive the following exception from your NT servers.</p> <pre>ERROR com.bea.wlcp.wlmg.legacy.smpp.connector.SmppChannelProcessor - Could not find request for received response</pre> <p>This exception can be ignored.</p>	4.1	In Docs and Closed
CR384497/8179819	<p>Due to incompatible class changes to the stored blob data, old application data (notifications, etc.) in SIP call notification and presence plug-ins will NOT be usable after the upgrade. Exceptions will be thrown during the upgrade when the old application data is accessed.</p> <p>Contact Oracle support for migration scripts.</p>	4.1	In Docs and Closed

Known Issues in Gatekeeper 4.1.1

Change Request Number/BugDBID	Description and Workaround or Solution	Found In	Fixed In
CR384442/8176184	<p>On the first start-up after domain configuration, if 2 or more NT servers are started at the same time, the servers may throw LDAP exception. An equivalent failure may occur on deploying applications.</p> <p>Restart the servers. If the problem persists, start one server first, and then the others</p> <p>Retry deploying the application. If the problem persists, redeploy the application when the servers are not running.</p>	4.1	
CR384688/8177934	<p>Before geo-redundancy is set up, you may sometimes get null pointer exception in geo-storage module. This is benign and may be ignored.</p>	4.1	
CR384693/8176518	<p>Setting <code>StatisticsServiceMbean::StoreInterval</code> to 0 can produce negative data in the transactions field of the <code>slee_statistics_data</code> table.</p> <p>Don't set <code>StoreInterval</code> to 0</p>	4.1	
8707614	<p>Application does not receive empty (nothing in "short message field" or payload) network-triggered SMS</p> <p>This only occurs in the case of an empty SMS.</p>	4.1.1	
8726273	<p>In an MMS that contains images and Chinese text, the content type of the text attachment is altered.</p> <p>Send text and images separately.</p>	4.1.1	

Gatekeeper 4.1.1 Known and Resolved Issues

8830002	<p>There are two possible parameters in an SMS Delivery Receipt that can contain an ID from the SMSC. OCSG correctly updates this value in one of the parameters with the message ID it has stored, so that the receipt and the original message can be correlated by the application. It does not currently update the other parameter.</p> <p>When possible, use the parameter that OCSG currently updates (<code>received_message_id</code>) for correlation purposes.</p>	4.1.1
8661126	<p>Parlay X SendSMS cannot handle some escaped characters in the message if <code>SMSCDefaultAlphabet</code> is set to <code>GMS_DEFAULT</code>. An exception is thrown and the message cannot be processed.</p> <p>SendSMS works correctly using <code>ISO8859_1</code></p>	4.1.1
8601928	<p>Statistics recorded by Parlay X network-triggered SMS do not include the <code>TRANSACTION_TYPE_MESSAGING_RECEIVE</code> count</p>	4.1.1
8829547	<p>OCSG does not support concatenating messages over 160 characters via the GSM UDH mechanism.</p>	4.1.1
8664305	<p>Application-initiated MMS sent via the Native MM7 facade fails if delivery notification is enabled.</p>	4.1.1
8823412	<p>OCSG does not return appropriate error message to application when SMSC does not respond before timeout</p>	4.1.1
8838135	<p>After SMSC shutdown and restart, OCSG incorrectly sends <code>unbind</code> to SMSC</p>	4.1.1