Oracle® Communications Services Gatekeeper

Release Notes

Release 5.0

E18543-02

April 2011

These release notes list the new and enhanced features, and the resolved and known issues, in Oracle Communications Services Gatekeeper, Release 5.0.

New and Changed Features

This section describes new features and feature enhancements in Services Gatekeeper Release 5.0.

New SDK

A new standalone, customizable SDK provides an easy-to-use application test environment (ATE) for application developers. See *SDK User's Guide*.

Updated Platform Development Environment GUI

The Platform Development Environment (PTE) Graphical User Interface has been rearranged to include the new Services Gatekeeper features. The PTE now includes a network simulation map that you populate with network nodes and use to test your network services.

For more information see *Platform Test Environment Guide*.

Upgraded Databases

Services Gatekeeper is newly certified to be deployed with the following databases:

- Oracle 11g RAC
- Oracle 11g
- MySQL 5.1

Orbacus Removal

Services Gatekeeper no longer includes IONA Orbacus.

If you are using a communication service that requires an ORB, install the ORB after installing Services Gatekeeper. See the "Install Orbacus" section of the "Completing Post-Installation" chapter in *Installation Guide*.

ILOG Removal

Services Gatekeeper no longer includes the ILOG rules engine.

SLAs for Composed Communication Services

It is now possible to define an SLA over a combination of communication services. See the "Defining Composed Service Contracts" chapter in *Accounts and SLAs Guide*.

Coherence Support

Services Gatekeeper supports the Coherence storage provider. See the "Configuring Coherence" chapter in *System Administrator's Guide*.

Diameter AVP Customization

Services Gatekeeper allows the addition and modification of Diameter attribute/value pairs (AVPs) through configuration or a run-time access API. This feature is supported for standard Diameter commands commands271, 272) and payment plug-in/credit control interceptor-specific AVPs. See the "Customizing Diameter AVPs" chapter in *Platform Development Studio Developer's Guide*.

SMPP Server Service

Services Gatekeeper has added a new SMPP Server Service that provides connection services and some other protocol-related features, such as windowing. The Parlay X 2.1 Short Messaging, Extended Web Services Binary SMS, and Native SMPP communication services all use this SMPP Server Service.

Some configuration options that used to be in the plug-in MBeans are now configured in the SMPP Server Service. See the "Managing and Configuring Native SMPP Communication Services" chapter in *System Administrator's Guide* for a description of the SMPP Server Service and Native SMPP plug-in options. See the "Managing and Configuring Short Messaging Communication Services" chapter in *System Administrator's Guide* to see which options are configured in the Parlay X 2.1 Short Messaging and Extended Web Services Binary SMS plug-ins.

Updated SOA Facades

The Services Gatekeeper SOA facades are now based on the OSB version 11g. They also support the new Services Gatekeeper communication services introduced in Release 5.0.

IPV6

Services Gatekeeper supports Internet Protocol version 6 (IPV6) in the following communication services: Parlay X 2.1 SMS/SMPP, Native SMPP, Parlay X 2.1 MMS, and Parlay X2.1 Terminal Location.

New Communication Services

Services Gatekeeper provides the new communication services listed below.

See the appropriate chapters in the *System Administrator's Guide*, *Communication Service Reference*, *Application Developer's Guide* and *RESTful Application Developer's Guide* for details about these services.

Audio Call Communication Service

Services Gatekeeper provides a Parlay X 2.1 Audio Call communication service that supports the SIP network protocol.

This communication service supports:

- Sending an audio file to a terminal.
- Retrieving the status for a Parlay X 2.1 Audio call (`played`, `playing`, `pending`, or `error`).
- Explicitly ending an audio call.

The Audio Call/SIP plug-in is usable only with high availability systems if the media server supports clustering. See your media server documentation to find out whether the media server supports clustering.

For more information, see "Parlay X 2.1 Audio Call Communication Service" in *Communication Service Reference*.

Device Capabilities Communication Service

Services Gatekeeper provides a Parlay X 3.0 Device Capabilities communication service that supports the LDAP protocol.

The Device Capabilities communication service sends requests to any LDAPv3-compliant directory server with a device's address and in return receives one of the following device identifiers:

- The device's unique device ID, device/model name, and a link to the User Agent Profile XML file.
- The device's equipment identifier (for example, its IMEI).

For more information, see "Parlay X 3.0 Device Capabilities and Configuration Communication Service" in *Communication Service Reference*.

Native UCP Communication Service

Services Gatekeeper provides a Native UCP-UCP(5.0 ""EMI-UCP Interface) communication service. See "Native UCP Communication Service" in *Communication Service Reference*.

Terminal Status Communication Service

Services Gatekeeper now provides Parlay X3.0 /REST Terminal Status communication service notification interfaces that support the MAP network protocol. Using this communication service you can:

- Obtain the status (reachable, unreachable, or busy) of a single terminal or group of terminals as often as you specify, within a time period you specify.

- Return the status of a terminal or group of terminals if the status changes. The terminal statuses are checked as frequently as you specify, for a time period you specify.

For more information see "Parlay X 2.1 Terminal Status Communication Service" in *Communication Service Reference*.

Enhancements to Previously Existing Communication Services

Services Gatekeeper has enhanced the following communication services.

See the appropriate chapters in the *System Administrator's Guide*, *Communication Service Reference*, *Application Developer's Guide* and *RESTful Application Developer's Guide* for details about these services.

Multimedia Messaging /MM7 Communication Service

The Parlay X 2.1 MultiMedia Messaging/MM7 communication service has been upgraded to support version 6.8.0.

Services Gatekeeper supports ChargedParty and ChargedParty ID in the Parlay X2.1 MM7 plug-in through context attributes. See the "Parlay X 2.1 Multimedia Messaging Communication Service" chapter in *Communication Service Reference*.

Services Gatekeeper supports the standard XSD version REL-5-MM7-1-0 for the Parlay X 2.1 MM7 communication service.

Native SMPP and Parlay X2.1 SMS/SMPP Communication Services - USSD Support

Services Gatekeeper supports tunneling USSD (3G TS 23.090 version 3.0.0) messages through the SMPP protocol. This uses SMPP as the transport mechanism and supports both MO and MT traffic and additional TLV required for submit_sm and deliver_sm operations. See the ussd_service_operation parameter in the "Parlay X 2.1 Short Messaging Communication Service" and "Native SMPP Communication Service" chapters in *Communication Service Reference*.

Parlay X2.1 SMS/SMPP Communication Service

Services Gatekeeper supports all standard character encodings for the short messaging communication service.

This communication service uses the new SMPP Server Service for connection services with the Small Message Service Center (SMSC).

In previous releases, there were three attributes:

- TransceiverProxyLocalAddressAndPort
- TransceiverProxyLocalAddressAndPort
- ReceiverProxyLocalAddressAndPort

In the current release these are replaced by the LocalAddress and LocalPort attributes. The bind type is set in the BindType attribute. For valid values, see "Managing and Configuring Short Messaging Communication Service" in *System Administrator's Guide*.

If the BindType was 0 (Transmitter and Receiver) in 4.1.x, after the upgrade to 5.0, the LocalPort is set to the value that the port was in the TransmitterProxyLocalAddressAndPort attribute from 4.1.x.

WebLogic Server Upgrade

Services Gatekeeper 5.0 is built on WebLogic Server 11g R1.

OCCAS Upgrade

Services Gatekeeper 5.0 is integrated with Oracle Communications Converged Application Server (OCCAS) version 5.0 to provide support for SIP functionality.

Resolved Issues in This Release

This section describes known issues from the previous release that are resolved in this release.

Table 1 Fixes in this Release

Bug ID / SR ID	Description
9969772 / SR:3-1970677821	Some delivery reports were being lost, because deliveryReport was trying to read mappingInfo from storage before it was written to storage. The fix is to retry the read from storage no more than 5 times before sending a negative response to the SMSC. This can be done by setting a system property such as: `-Docsg.sms.smpp.deliveryReceipt.retry=true`
9826654 / SR:3-185228719	When an invalid service provider identifier is entered for the Set Application Account group operation in Application Groups, the correct exception message for a Service Provider account is displayed.
9780794 / SR:3-1817170291	A periodic counter checker has been introduced for both the SMPP connector and plug-in. In the connector, the periodic counter checker keeps the application counter accurate. In the plug-in, it ensures that southbound connections are closed properly when there are no northbound connections.
9723289 / SR:3-1624820911	Multiple SOAP ports contained in one service are now supported. The way package name is created for north and south classes has changed from using the port name to service name instead.
9462801 / SR:3-151384274	Credit control and custom SLAs are now deleted after the associated Service Provider and Application accounts are deleted.
8678848 / SR 7682744.99	Multiple plug-in instances, having different serviceIds, can no longer be created with the same name.
8800106 / SR 7735432.992	Alarms relating to Parlay X 2.1 Short Messaging (SMS) and Parlay X 2.1 Multimedia Messaging (MMS) communication services now have **originatingParty** and **destinationParty** attributes.
8905239 / SR 7555846.993	RESTful binary SMS communication service now passes the correct DCS value.
8726273 / SR 7607208.994	Services Gatekeeper no longer modifies the headers on SOAP attachments when there are multiple attachments. This issue previously affected MMSs containing Chinese characters.
8840897 / SR 2-5949543	A **listOnlineBinaryNotificationInfo** method has been added to the Parlay X 2.1 Short Messaging/SMPP plug-in MBean. This enables the display of online notifications for binary SMSs.

Table 1 (Cont.) Fixes in this Release

Bug ID / SR ID	Description
8855146 / SR 7517297.994	Duplicate of 8905239/SR 7555846.993
8574992 / SR7517297.994	Account service no longer permits creation of an empty (all spaces) application group account. Duplicate of 857909.
8438615 / SR 7456902.993	Attribute values entered at the administration console are validated for type mismatches. If the input value is invalid, an error message is displayed at the console, and the attribute is not changed.
8981602 / SR 7787001.992	The native SMPP plug-in has been enhanced so that if all plug-ins matching the bind type of a northbound connection are lost (connection to SMSC is dropped), the northbound connection is unbound. The UNBIND also considers loose/strict binding. The `LooseBinding` MBean attribute cannot be changed when there is northbound connectivity. MBean method `resetConnection` now shuts down the SMSC connection if the plug-in is active but there is no northbound connectivity. The `resetConnection` method takes into account if the connector is configured with loose/strict binding. The `OfflineMO` attribute is enabled only if the correct JMS configuration exists. The `updateAllListenerPorts` operation was updated to access the correct form. It is no longer possible to change the bindtype of a plug-in when the plug-in is connected to an SMSC. Validation added to `setBindType` and `setLocalPort` so that the configuration is not changed if the input value is not allowed.
8943911 / SR 7634236.994	Alarms involving policy evaluation in the native MM7 plug-in now include the `originatingParty` and `destinationParty` information.
9024388 / SR 2-5991566	The sequence number is now correctly incremented for each unbind request. Previously all unbind requests sent from Services Gatekeeper to the application used sequence number 1.
8848266	A bind counter was added to the native SMPP plug-in to track the number of applications bound to a connection. This tracking ability reduces the occurrences of memory leaks because plug-ins monitoring the counter know when to close connections to the SMSC.
9049012 / SR 7762885.994	The native SMPP plug-in has been updated to correctly use the `RetryTimesBeforeGiveUp` and `RetryTimesBeforeReconnect` OAM attributes. Consequently heartbeats no longer stop unexpectedly. In addition, if a plug-in fails to bind to the SMSC the first time a connection is established, the heartbeat is started anyway. If all plug-ins fail to bind, the application bind also fails and the plug-ins do not try to re-connect.
9061526 / SR 7835001.992	A timeout of five seconds is enforced for opening a socket from the native SMPP plug-in. This prevents hanging threads from blocking other threads, eventually causing a system overload.

Table 1 (Cont.) Fixes in this Release

Bug ID / SR ID	Description
9055760 / SR 7834656.992	If the native SMPP plug-in cannot find an `AppInstanceGroupId` that matches the destination address for mobile-originated messages, it sends a `DeliverSmRespCommandStatus` error code to the SMSC. Previously, it sent the `Data.ESME_RSYSERR` error code. This situation can occur when a long period of time has elapsed between when the message was submitted and the delivery report sent.
9006708 / SR 7814592.992	In the native SMPP communication service, the application session is automatically refreshed: ■ every time an `EnquireLink` request is sent to the application ■ when a request is sent by the application after the session has timed out The refresh is transparent to the application, which is able to continue sending requests until it performs an `UNBIND`. This is the behavior regardless of the configuration of the `validityTime` attribute in the Account service.
8613248 / SR 7814592.992	Service provider accounts can not be created in which the `serviceProviderID` is all blank spaces.
8609069 / SR 7604625.992	A check is added so a management user and a traffic user can not be created with identical credentials.
9071295 / SR 7837808.992	Statistics service is updated to update transaction counters for statistics atomically.
9077470 / SR 7842809.992	Generation of SOAP to SOAP communication services using the Platform Development Studio has been updated to refer to the correct version of **com.bea.wlcp.wlng.heartbeater**_*version*.**jar**.
9147072 / SR 3-1090122581	Parlay X 2.1 Short Messaging/SMPP has been updated handle empty criteria for notifications, that is, application-initiated online notifications as well as offline and online notifications started by management operations. Empty criteria can overlap other criteria for a certain activation number and will be treated as default. For example, if three notifications are started for **tel:1234**, one with criteria **asdf**, one with criteria **1234**, and one with empty criteria, messages that start with '**asdf**' or **1234** are handled by the notification with empty criteria.

9164920 / SR 3-1139923971 and 9278174	Parlay X 3.0 Payment/Diameter has been updated with an MBean attribute that defines the Service-Context Id AVP.
	If not specified, `.oracle.com` is used.
	The new MBean methods are:
	`/**`
	` * Service-Context-Id AVP's domain.`
	` */`
	`  public String domain = "oracle.com";`
	`  public void setDomain(String value) throws ManagementException;`
	`  public String getDomain() throws ManagementException;`

Table 1 (Cont.) Fixes in this Release

Bug ID / SR ID	Description
9064216 / SR 7588302.994	Logging has been improved by adding MMS request/response information for all failed and success requests based on priority logging for the following Parlay X MM7 operations: ■ SubmitSM ■ DeliverSM ■ DataSM ■ SubmitMultiSM ■ CancelSM ■ SubmitSMResp ■ DeliverSMResp ■ DataSMResp ■ SubmitMultiSMRes
8899647 / SR 2-5875340	Partner Relationship Management implementation has been updated to look up and retry MBean invocations. There was a problem accessing certain MBeans after a restart of the administration server.
9185625 / SR 3-1096187521	The Parlay X 2.1 MultiMedia Messaging/MM7 plug-in has been updated to respond to a malformed request from an MMSC according to the MM7 specification.
8866684 / SR 7668405.992	The Parlay X 2.1 Short Messaging/SMPP plug-in has been updated to send a configurable error code to the SMSC if a delivery notification or mobile-originated message could not be delivered to the requesting application and there is no matching offline notification. The configuration attribute is DeliverSmRespCommandStatus.
8866684 / SR 3-1132029711	The Parlay X 2.1 Short Messaging/SMPP plug-in has been updated to allow applications to define whether they want delivery reports and to specify the message priority. Applications specify whether delivery reports will be requested using the tunneled parameter (xparam) **com.bea.wlcp.wlng.plugin.sms.RequestDeliveryReportFlag**. Setting it to **true** requests a delivery report. The priority order is: 1. Tunneled parameter from application. 2. **ContextAttribute** set in SLA. 3. From MBean attribute **RequestDeliveryReports**. Applications specify the message priority using the tunneled parameter (xparam) **com.bea.wlcp.wlng.plugin.sms.Priority**. Valid values (case sensitive) are **HIGH** and **LOW**.
9192234 / SR 3-1131773221	Statistics service updated to generate statistics of type **TRANSACTION_TYPE_MESSAGING_RECEIVE** when mobile-originated messages are received by Parlay X 2.1 Short Messaging/SMPP and Binary SMS/SMPP.
9294040 / SR 3-1305642511	The Parlay X 2.1 MultiMedia Messaging/MM7 plug-in has been updated to support the service code parameter according to the MM7 specification. The service code is configured in the **ServiceCode** management attribute. If this value is null, no service code is used.

Table 1 (Cont.) Fixes in this Release

Bug ID / SR ID	Description
9307594 / SR 3-1334865211	The Parlay X 2.1 MultiMedia Messaging/MM7 plug-in has been updated. It now routes MO MM7 messages to applications as indicated below, based on criteria that may have been provided when the notifications were created. The behavior for matching criteria is: ■ If the subject of the message is not null, the subject is used for criteria matching the specified criteria. ■ If the subject of the message is null, the first word of first text attachment is used for matching the criteria. ■ When the criteria is not null, messages with no subject and no text attachment are not delivered to the application. ■ When the criteria is null, all messages are considered a match and delivered to the application.
9315124 / SR 3-1244353221	The Parlay X 2.1 MultiMedia Messaging/MM7 plug-in has been updated to handle malformed message content from the MMSC. If the `Start` parameter of the multipart/related `Content-Type` is not present, the matching is not checked. If the `Start` parameter does not match the Content-Id of the `SoapPart`, a status code `4004` with the status text `Validation Error` is returned to the MMSC. This check can be disabled by setting the `Docsg.mms.px21.contentid.validation` Java system property to `false`.
9359887 / SR:3-1364115371	The Parlay X 2.1 Short Messaging/SMPP plug-in has been updated to allow applications to define the SMPP sub-unit field `dest_addr_subunit`. PDU details can be found in the SMPP 5.0 specification. This applies to the `SUBMIT_SM`, `SUBMIT_MULTI`, and `DATA_SM` operations. Applications specify this parameter using the tunneled parameter (xparam) `dest_addr_subunit`. The parameter should be passed as a decimal value. It is translated into a hexadecimal value before it is passed to the SMSC.
9321567 / SR 3-1244130326	See description of bug 8866684.
8977936 / SR-8977936	The Parlay X 2.1 MultiMedia Messaging/MM7 plug-in has been updated to create CDRs correctly. The default **wlng-edr.xml** file has been updated to filter EDRs for mobile-terminated MMSs correctly.
9390474 / SR 3-1442552291	The SOAP2SOAP communication service now correctly reports undeclared SOAP2SOAP fault messages (without namespaces in the URI). They are now passed back to the application that caused them.
9314292 / SR 3-1244130311	The Parlay X 2.1 MultiMedia Messaging/MM7 plug-in no longer treats date and time values as mandatory parameters. MM7 messages are now processed correctly regardless of whether the contain correct data and time values.

Table 1 (Cont.) Fixes in this Release

Bug ID / SR ID	Description
9410852 / SR 3-1442552291	The SOAP2SOAP communication services now correctly return SOAP faults to their originating application. Note that the **-Dweblogic.wsee.soap.81CustomException=true** flag must be set in order to push the soap faults defined in WSDL as-is. This fix replaces the fixes to 8149902 and 9406223.
9178281 / SR 2-6029605	The `MaxKeywordLimit` attribute has been added to the Parlay X 2.1 Short Messaging/SMPP plug-in. This allows you to specify the number of keywords to match in the short message. The text in the payload of the short message is used to determine which application receives the notification. The text is matched in two steps: 1. The entire string is compared against the incoming short message for an exact match. 2. If no match is found, the plug-in matches the short message one word at a time against the criteria string, up to the value set in the `MaxKeywordLimit` attribute.
9338436 / SR 3-1332612277	The Parlay X 2.1 Short Messaging/SMPP plug-in `RequestTimerValue` attribute now functions correctly. The `RequestTimerValue` attribute schedules link request time periods. However, if the plug-in has received traffic since last scheduled time period, no `enquire` link is sent, and a new timer (`time:` *EnquireLinkTimerValue*) is scheduled. If the link has been silent since the last schedule time limit, the plug-in sends an `enquire link(*)`, and (`wait time:` *EnquireLinkRequestTimerValue*) response. If no response is received, the plug-in unbinds and attempts to re-bind. If there are outstanding requests that stop the `enquire`, the link unbinds. This typically happens if the SMSC is unresponsive causing a lot of unanswered `SUBMIT_SM` requests. Duplicate of 9238223.
9338223 / SR:3-1332740944	In the Parlay X 2.1 Short Messaging/SMPP plug-in, the `EnquireLinkTimerValue` attribute is applied as follows. ■ If the plug-in has received traffic subsequent to the last scheduled time, no enquire link request is made and a new timer (`EnquireLinkTimerValue`) is scheduled. ■ If the link has been inactive since the last scheduled timer, the plug-in sends an enquire link request and waits `EnquireLinkRequestTimerValue` for the response. ■ If no response is received, the plug-in unbinds and attempts to re-bind. ■ If the plug-in has outstanding requests that prevent it from sending enquire link requests, it unbinds. This typically occurs if the SMSC is unresponsive while the plug-in is filling the window with unanswered SBUMIT_SM requests. Duplicate of 9338436.

Table 1 (Cont.) Fixes in this Release

Bug ID / SR ID	Description
9020004 / SR 2-5831656	The Parlay X 2.1 MultiMedia Messaging/MM7 plug-in now routes mobile-originated MMS messages with empty subject lines to the correct application. If there is a subject, it is used as filter criteria. If there is no subject, the first word of the first text attachment is used as filter criteria. If there is no subject and no text attachment, the message can not be delivered. Duplicate of 9307594.
9214390 / SR 3-1193433921	The Parlay X 2.1 MultiMedia Messaging/MM7 plug-in now supports the XSD Version REL-5-MM7-1-0 for MM7 messages specification.
9461690 / SR 3-1430848691	The Parlay X 2.1 Short Messaging/SMPP plug-in now includes a boolean `useMessagePayload` MBean attribute. If set to `true`, the message is carried as an optional message_layload in the SMPP PDU. If set to `false`, segmented and unsegmented messages are sent in the short_message. Previously only segmented messages such as ringtones, logos, and long SMSs could be carried as an optional message_payload.
9383651 / SR 3-1355119241	Two new EDRs have been added to the Parlay X 2.1 Short Messaging/SMPP plug-in: EDR #7016 is triggered when a mobile-originated SMS (binary or text) is successfully delivered to application endpoint. EDR #7017 is triggered when a mobile-originated SMS (binary or text) is stored to database.
9475202 / SR 3-1329676931	The Parlay X 2.1 Short Messaging/SMPP plug-in now captures the `messageIds` of short messages that were cancelled with `CancelSM` requests in the default log files. This plug-in also now handles expired messages with null destination addresses correctly.
9504688 / SR 3-1575887181	The SOAP2SOAP communication services now allow `OneWay` SOAP2SOAP operations to complete without throwing exceptions.
9508148 / SR 3-1522413101	Extended Web Services WAP Push/PAP has been updated with the `ResultNotificationEndpoint` MBean attribute to specify whether delivery reports are sent to the application. The default is `true`.
9374912 / SR 3-1391133611	The Partner Relationship Management operation `listCdrs()` now correctly populates the `additionalProperties/info` field with items from the `additional_info` field.
9004013 / SR 7723606.994	Parlay X 2.1 Short Messaging plug-in CDRs now include the session ID. The message ID has been added as the session id in EdrConstants.FIELD_CDR_SESSION_ID.
8664305 / SR 2-6003112	Before a Submit_mm7 SOAP request is submitted, an element named "TransactionID" is added to the SOAP header and `soap:mustUnderstand` is set to `false`. This fixes a problem in which a MustUnderstand error was thrown by the SOAP processor, causing the native MM7 facade to fail when delivery notification was enabled.

Table 1 (Cont.) Fixes in this Release

Bug ID / SR ID	Description
9352917 / SR:3-1404378141	A new attribute has been added to the Terminal Location plug-in: `MSID_TYPE`. Valid values are "MSISDN" and "MDN". The default is "MSISDN". This enables the plug-in to send the correct type.
9555507 / SR 3-1575887181	In the Platform Development Studio, callbacks ((CallbackPortTypeImpl.cg) have been updated. The correct port name now appears in the WLHttpTransport annotation. Names of passed-in parameters are no longer hard coded. Support has been added for one-way operations.
9628891 / SR:3-1493022241	The Parlay X 2.1 Short Messaging/SMPP plug-in now permits empty mobile-originated messages.
9582620 / SR:3-1662481611	In the Platform Development Studio, the previously-missing `wlng.jar` file has been added to the classpath used to generate the soaptosoap service correctly.
9664039 / SR:3-1708743341	That native SMPP plug-in handles all PDUs read from a single channel (TCP connection) in serial rather than parallel. This corrects the problem of messages being received out of order.
9667564 / SR:3-1719632531	Instead of all Parlay X 2.2/SMPP plug-ins sending `cancelSM` requests for every timed-out address, now for each message that times out one `cancelSM` is sent to one SMSC, which is the SMSC through which the timed-out message was sent. The plug-ins must be configured correctly to support this behavior: ■ If two plug-in instances are required in a single NT node pointing to the same SMSC address, two different aliases for that IP address are needed to avoid generating duplicate cancel messages. ■ If two plug-in instances in different nodes point to the same SMSC, use the same value for the SMSC address in both plug-in instance configurations to ensure that no cancel messages are lost.
9321890 / SR:3-1363049451	In the Parlay X 2.1 Short Messaging/SMPP plug-in, segments in split SMSs are correctly concatenated with other segments in the same message. This also resolves 9019838 / SR 7815146.992.

Known Problems

This section describes known problems in Services Gatekeeper 5.0.

Table 2 Known Problems in this Release

Bug ID	Description
10160804	The Tieto Enator (TE) library is not included in the installer. Customers using the Terminal Status communication service must add the TE library manually and provision their licenses before creating a Terminal Status plug-in. To add and activate the TE library, do the following commands: 1. **cd** *$WLS_HOME*/**ocsg_5.0/applications** 2. **mkdir APP-INF** 3. **mkdir APP-INF/lib** 4. **copy einss7javacp.jar APP-INF/lib/** 5. **copy jinap.jar APP-INF/lib/** 6. **copy jtcap.jar APP-INF/lib/** 7. **jar –uf wlng_nt_terminal_status_px21.ear APP-INF/*** 8. **rm -fr APP-INF** After running these commands, either restart the Services Gatekeeper server or redeploy **wlng_nt_terminal_status_px21.ear**. Then create and provision the Terminal Status plug-in.
10155554	After a hitless upgrade to Services Gatekeeper 5.0 , the listClientConnections and closeClientConnection Native SMPP operations do not always work properly. The workaround is to set the following values to greater than zero: ▪ windowingSize ▪ windowingMaxQueueSize ▪ windowingMaxWaitTime These attributes must be set to non-zero in both the NativeSMPP and ParlayX 2.1 Short Messaging/SMPP plugins. These values are set one of two ways: either as parameters to the Native SMPP ApplicationSpecificSettings operation or as attributes in the Administration console.
10147497	PasswordDigest authentication is not functioning properly.
9831623	When a segmented message is sent through the native UCP communication service, all message segments are not always sent on the same socket channel.
9781397	The Native UCP communication service does not stop processing, as it should, after sending a NACK on multiple open sesssion PDUs. The client should not send multiple open session PDUs, but if this does occur, Services Gatekeeper should handle it correctly. The workaround is to use the MBean interface to close any additional client-side connections resulting from multiple open session requests.
8192972	The Parlay X SMS/SMPP plug-in handles correlators, such as the ones used in start/stopSmsNotification operations, to check for security violations. These checks should instead be handled the the normal security framework in a plug-in agnostic way.
8179671	In the SOAP facade of the Extended Web Services WAP Push/PAP communication service, the value of **deliverBeforeTimestamp** property set in the SendPushMessage operation cannot be set into a later timestamp.

Table 2 (Cont.) Known Problems in this Release

Bug ID	Description
8177019	In the SOAP facade of the Extended Web Services WAP Push/PAP communication service, if the **pap.bear-required** or **pap.network-required** property is set in the sendPushMessage operation, the **pap.bearer** property must be set also.
8176540	In the SOAP facade of the Extended Web Services WAP Push/PAP communication service, the error checking of the destination address is faulty. It accepts some poorly-formatted addresses and rejects some valid ones.
10151710	SMPP bind and unbind operations in quick succession result in connection errors. The workaround is to sleep for five seconds between bind and unbind operations.
8172929	A CDR DB write retry can cause the EDR queue to reach maximum capacity without raising an alarm. In this case, alarm 111103 should be raised. This would alert the operator that CDRs may have been lost.
8823412	Services Gatekeeper does not return an appropriate error message to the application when the SMSC does not respond before timeout. This issue was identified in release 4.1.1.

Documentation Updates

We have made the following changes to the Services Gatekeeper documentation.

- New Communication Service Guide
- New Deployment Guide
- Javadoc for OAM and Extensions
- Reformatted RESTful Application Developer's Guide
- Reorganized SLA Chapters and New Appendix in Accounts and SLAs Guide
- Enhanced Database Maintenance Information
- Enhanced Services Interceptor Information

New Communication Service Guide

The information about the supported communication services that was previously documented in the *Communication Service Reference* and in chapters 21 through 35 of the *System Administrator's Guide* has been combined into a single *Communication Service Guide*. This new guide presents both general information and OAM properties, operations and attributes per communication service, with one chapter for each service.

The *Communication Service Reference* has been retired.

Chapters that described OAM for the communication services have been removed from the *System Administrator's Guide.*

New Deployment Guide

We are publishing for general availability a guide that presents a high-level view of the different deployment strategies for Services Gatekeeper.

Javadoc for OAM and Extensions

We are publishing the Javadoc for Services Gatekeeper OAM and Extensions.

Reformatted RESTful Application Developer's Guide

We have reformatted the *RESTful Application Developer's Guide* to use a more conventional API reference format.

Reorganized SLA Chapters and New Appendix in Accounts and SLAs Guide

We have added a comprehensive sample SLA in an appendix to the *Accounts and SLAs Guide*.

We have added a section to the `<serviceContract>` description in Chapter 7, "Defining Service Provider Group and Application Group SLAs" to address what happens when conflicting enforcements for in `<serviceContract>` and `<serviceTypeContract>` are defined in the same SLA.

We have reorganized the information in Chapter 7, "Defining Service Provider Group and Application Group SLAs", and Chapter 8, "Defining Global Node and Service Provider Group Node SLAs", to eliminate redundancy and make the elements easier to find.

We have incorporated the information that was previously in Chapter 9, Defining Composed Service Contracts, into Chapter 8. We have removed Chapter 9.

Enhanced Database Maintenance Information

We have added information about maintaining the database underlying the Services Gatekeeper installation. See "Database Maintenance" in the "Operation and Maintenance" chapter and "Storage Data Expiration" in the "Managing and Configuring the Storage Service" of the *System Administrator's Guide*.

Enhanced Services Interceptor Information

We have provided more information about the request context as it applies to communication services. See the "Request Context Data Used to Handle Request Flow" section in the "Service Interceptors" chapter in the *Platform Development Studio Developer's Guide*.

We have added information about requirements for deploying a custom interceptor. See the "Custom Interceptors" section in the "Service Interceptors" chapter in the *Platform Development Studio Developer's Guide*.

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