This document provides release notes for Oracle Communications Messaging Server Release 8.1, consisting of the following sections:

- New and Changed Features
- Documentation Updates
- Deprecated and Removed Features
- Fixes in This Release
- Known Problems
- Documentation Accessibility

**New and Changed Features**

The other new features and feature enhancements in this release of Messaging Server are:

- Support for Solaris 11.4
- Support for Oracle Linux 7
- Support for NSS 3.41
- Support for Packages Instead of commpkg
- Store Transaction Logging
- Recipe-Based Initial Configuration Has Been Implemented
- Routing-only MTA Initial Configuration (without LDAP) Has Been Implemented
- JMS support for ENS
- Support for TLS 1.3
- Support for New Indexing and Search Engine
- Monitoring Using mstatbot Tool
- Login User Name and Password Normalization
- IMAP Email Address Internationalization
- Enhanced "foreverypart" Sieve Extension
- Alarm Submit Default Port Has Been Changed
- Support for UTF-8 User Names, email addresses, and Domains
- New IMAP Capabilities Have Been Added
- New Milter Actions Added to the MILTER_ACTIONS Mapping
- Support for File Carbon Copy
- include_retries MTA Option Added to the Mapping
- Sieve Vacation Extension Has Been Enhanced
- Mapping Template Has Been Enhanced
- DEQUEUE_ACCESS Mapping Has Been Implemented
- Support for New Parameters Added to the XCLIENT SMTP Command
- Support for Statefile Added to msconfig Utility
- nextif Added to the Sieve and Recipe Language
- get_msconfig_info Added to the Recipe Language
- SHA-2 Hash Functions Added to the Recipe Language
- msconfig SET Command Enhanced
- Support for XCONVTAG SMTP Extension
- New Flags Added to the AUTH_ACCESS Mapping
- Activating Spam Filter Has Been Enhanced
- REPROCESS_TIMEOUT and REPROCESS_CONNECT_TIMEOUT Options Added to Milter Configuration Files
- A "$S Flag Is Used in the LOG_ACTION Mapping
- Enabling the XBCC SUBMIT Extension
- AUTH_DEACCESS Mapping Has Been Implemented
- ALIAS_DESCRIPTION Alias Option Has Been Added
- New Options for SMTP and LMTP Channels Has Been Implemented
- --dryrun Option Has Been Added to msconfig Command
- log_remote_option Has Been Added
- Support for the JSON Format
- include_domain Option Has Been Added to msconfig Command
- id MTA Option Has Been Added
- interfaceaddress Source Channel Option Has Been Enhanced
- New Option Has Been Added
- Additional Bit Flag Has Been Implemented for MTA
- Additional Virtual Channel Support in MTA
- $< and $> Metacharacters Are Used in the AUTH_REWRITE Mapping
- Additional MTA Option
- Controlling the Prefix Generation on MTA-generated syslog Messages
- processnestedmessages and retainnestedmessages Options Have Been Added
Support for Solaris 11.4
Messaging Server now supports Solaris 11.4.

Support for Oracle Linux 7
Messaging Server now supports Oracle Linux 7 operating system.

Support for NSS 3.41
Messaging Server uses the open-source Mozilla Network Security Services library to provide SSL/TLS functionality. This release updates to Version 3.41.

Support for Packages Instead of commpkg
Starting with Messaging Server 8.1.0, commpkg is no longer used to install/uninstall the Messaging Server. Instead, Messaging Server is distributed as a package that can be directly installed or uninstalled with the rpm tool on Linux and the pkgadd/pkgrm tools on Solaris.

Note that legacy package commands like pkginfo, pkgadd, and pkgrm are not available in Solaris 11.4 OS. Please contact Oracle to install the necessary Oracle Solaris packages.

Store Transaction Logging
Store transaction logging is now enabled by default. To restore the previous default behavior, set the messagetrace.activate option to no.

Recipe-Based Initial Configuration Has Been Implemented
Starting with Messaging Server 8.1.0, the init-config command (also known as configure) supports recipe-based initial configuration. In this mode of operation, a minimal configuration is generated and then special msconfig recipe files are run to configure individual server roles. For more information on init-config, see the Messaging Server Reference Guide. The examples section gives example usage for common roles.

Routing-only MTA Initial Configuration (without LDAP) Has Been Implemented
Starting with Messaging Server 8.1.0, the init-config command can generate an initial configuration for a routing-only MTA that does not require use of LDAP. Although the MTA has always supported operation without LDAP, this makes it simpler to configure such an MTA. You can use the init-config -r mta command to generate an initial MTA configuration for this function.

JMS support for ENS
Messaging Server events can now use the bundled JMS ENS provider (ens-jms.jar). The Glassfish MQ JMS provider is no longer supported for use with Messaging Server.
Support for TLS 1.3
Messaging Server now supports TLS version 1.3 (RFC 8446) and is enabled by default.

Support for New Indexing and Search Engine
Messaging Server now supports Elasticsearch as an index and search service for use with the Classic message store and Cassandra message store.

Monitoring Using msstatbot Tool
Messaging Server now uses msstatbot tool to perform basic administrative tasks, and monitor cluster health. See Messaging Server System Administrator’s Guide for more information on the msstatbot tool.

Login User Name and Password Normalization
Login user names and passwords are now normalized to Unicode normalization form C. This is a conservative subset of the behavior recommended in RFC 8265. In addition, login user names containing a domain with an IDN A-label (RFC 5890) are canonicalized to IDN U-labels. As a result, non-ASCII user and domain names in LDAP must be provisioned in Network Unicode (RFC 5198). If user or domain names were previously provisioned in decomposed Unicode or IDN A-labels, the LDAP directory must be updated prior to deploying this release.

Enhanced "foreverypart" Sieve Extension
It is now possible to control whether or not the "foreverypart" Sieve extension looks inside of nested messages or treats them as leaf parts. The "processnestedmesssages" argument tells "foreverypart" to look inside and is the default. The ":retainnestedmessages" argument causes nested messages to be treated as leaf parts.

Alarm Submit Default Port Has Been Changed
Starting with Messaging Server 8.1.0, the default value of the alarm.noticeport option has been changed to 587.

IMAP Email Address Internationalization
The IMAP server now advertises and implements IMAP Support for UTF-8 (RFC 6855). This means that email messages conforming to RFC 6532 can now be delivered to the message store if permitted by use of the utf8negotiate, utf8header, or utf8strict channel keyword.

However, once these messages are in the message store they will be presented undamaged to legacy IMAP and POP clients (note that this behavior is not fully compliant with RFC 6855 but we believe this behavior is least likely to cause problems in the long run). It’s possible legacy clients will have problems displaying these messages and likely legacy clients will be unable to reply to these messages. Sites choosing to allow EAI may wish to either create support materials explaining the issue or wait until significant clients have been upgraded.

Note that IMAP APPEND has no restrictions on use of UTF-8 header mail messages. This is necessary to avoid surprises when migrating mail from other systems to our message store.
The behavior of IMAP APPEND has changed with this feature: any line containing 8-bit characters in an email header that does not conform to either RFC 2047 or RFC 6855 will cause a blank line to be inserted prior to that line so it is treated as part of the message body.

Support for UTF-8 User Names, email addresses, and Domains

Messaging Server now supports use of UTF-8 in user names, email addresses, and domains. When provisioning UTF-8 domains, be sure to store the U-label form in LDAP as described in RFC 5890. While Messaging Server supports this type of internationalization, be aware that supporting systems outside of Messaging Server (e.g., identity services, provisioning services, monitoring, and logging services) may not provide a similar level of support. Customers are encouraged to consider the consequences of deploying fully internationalized user and domain identifiers on systems external to Messaging Server prior to doing so. Reading the discussion of the provisioning considerations related to such identifiers in section 3.2 of RFC 5894 is recommended.

Note that use of Net Unicode as described in RFC 5198 is required for these identifiers. In particular, this requires use of Unicode normalization form C when transmitting Unicode text on the Internet and applies to these identifiers in LDAP, IMAP, and SMTP.

New IMAP Capabilities Have Been Added

The IMAP server now supports URL-PARTIAL (RFC 5550) and STATUS=SIZE (RFC 8438) capabilities. See Supported Standards for a full list of IMAP capabilities.

New Milter Actions Added to the MILTER_ACTIONS Mapping

The ADDHEADER and INSHEADER milter modification actions has been added to the MILTER_ACTIONS mapping table.

Support for File Carbon Copy

The File Carbon Copy (Fcc) is now supported for sieve extension.

include_retries MTA Option Added to the Mapping

A include_retries MTA option has been added which provides the means to include message retry information in various mappings.

Sieve Vacation Extension Has Been Enhanced

A :noheadercheck nonpositional parameter has been added to the Sieve vacation extension. If specified, it suppresses the checks for List-*: intended to prevent vacation replies from being sent to mailing lists.

Mapping Template Has Been Enhanced

A construct of the form $?a,b,c,... can now be used in a mapping template to perform random value selection.
DEQUEUE_ACCESS Mapping Has Been Implemented
A DEQUEUE_ACCESS mapping has been implemented.

Support for New Parameters Added to the XCLIENT SMTP Command
Support has been added for the DESTADDR and DESTPORT parameters to the XCLIENT SMTP command.

Support for Statefile Added to msconfig Utility
Statefile support has been added to the msconfig utility, consisting of:

- A --statefile switch on the msconfig command line which is used to specify the path to the statefile to be read/updated. All statefile support is disabled if --statefile is not specified.
- The read function in the recipe language now accepts a third string parameter specifying the name of a statefile variable. The variable will be used if present or will be updated with any value that's entered.
- Three new recipe language functions have been added: exists_statefile, get_statefile, set_statefile, and delete_statefile. These functions can be used to get, set, and delete statefile variables, respectively.
- The msconfig write command has been extended to update the statefile in addition to writing out any new configuration information.

nextif Added to the Sieve and Recipe Language
A nextif statement has been added to the Sieve and Recipe language loop facility.

get_msconfig_info Added to the Recipe Language
A new function, get_msconfig_info, has been added to the Recipe language. It can be used to return various pieces of information about the msconfig utility itself.

SHA-2 Hash Functions Added to the Recipe Language
Support for the SHA-2 family hash functions SHA-256 and SHA-512 has been added to the hash and hash_hmac functions in the Recipe and Sieve languages.

msconfig SET Command Enhanced
The msconfig SET command now allows the C-style backslash sequences \r (carriage return), \n (line feed), \t (tab), and \uNNNN (Unicode character, must specify exactly 4 hexadecimal digits) in option values.

Support for XCONVTAG SMTP Extension
The flagtransfer channel option now enables the use of a new XCONVTAG SMTP extension. This extension is used to pass along conversion tag information.

New Flags Added to the AUTH_ACCESS Mapping
In this release, following new flags have been added to the AUTH_ACCESS mapping:
• A $S flag is set on input in the AUTH_ACCESS mapping if a connection to the destination for this message is already open and is going to be reused.

• A $+R flag can now be used in the AUTH_ACCESS mapping to specify an alternate ALLOW_TRANSACTIONS_PER_SESSION TCP/IP channel-specific option value for the current message. Note that using the value to force the current session to terminate will cause the setting to return to the default ALLOW_TRANSACTIONS_PER_SESSION value.

• A $V flag can now be used in the AUTH_ACCESS to specify a skip count to be encoded in the queue file name of the current message. This flag is specifically intended for use by smartsendauth_access callout.

• A $+ flag can now be used in the AUTH_ACCESS mapping to specify the host name to use in any HELO, EHLO, or LHDO commands that are issued.

• A $n flag can now be used in the AUTH_ACCESS mapping to signal a temporary failure for the current message and cause it to be tried again later. Note that $N is used to permanently fail the current recipient.

• A $( flag can now be used in the AUTH_ACCESS mapping to provide a value overriding the MAX_MX_RECORDS TCP/IP-channel-specific option.

• A $+% flag can now be used in the AUTH_ACCESS mapping to specify an override backoff time that will be used if the delivery attempt fails.

### Activating Spam Filter Has Been Enhanced

Previously the $+R sequence in FROM_ACCESS and recipient access mappings was only capable of activating a single spam filter, using the syntax "$+Rn1,sn1,n2,sn2...". It now accepts an additional syntax, "$+Rn1,s1,n2,s2..." that can be used to activate multiple spam filters (n1, n2 ...), each with an associated option string (s1, s2 ...).

### REPROCESS_TIMEOUT and REPROCESS_CONNECT_TIMEOUT Options Added to Milter Configuration Files

Two new options, REPROCESS_TIMEOUT and REPROCESS_CONNECT_TIMEOUT, have been added to milter configuration files. These options allow a different and usually longer timeout to be set when the milter is invoked during a reprocessing operation (and thus no SMTP/SUBMIT client is present).

### A "$S" Flag Is Used in the LOG_ACTION Mapping

The "$S" input flag is now set for the LOG_ACTION mapping if the current log entry is going to be written to the log file, and clear if it is not.

### Enabling the XBCC SUBMIT Extension

The new bccserver channel option, when placed on a SUBMIT server channel, enables the XBCC SUBMIT extension which can be used by clients to generate separate blind carbon responses with a single transaction. By default, the nobccserver option is disabled.
AUTH DEACCESS Mapping Has Been Implemented

A new AUTH DEACCESS mapping table has been implemented. This mapping forms a pair with the AUTH ACCESS mapping table and is intended to be used to release resources allocated by the AUTH ACCESS mapping. More specifically, AUTH ACCESS can now be used to allocate some connection-related resource, which can then be used by one or more connections used to deliver the current and possibly subsequent messages. The AUTH DEACCESS mapping is called when the last connection is finally closed. The mappings communicate through the use of a deaccess parameter string, which is set by the new "$," flag in the AUTH_ACCESS mapping.

ALIAS_DESCRIPTION Alias Option Has Been Added

An alias_description alias option has been added so that aliases can have a description attached that shows up in unified configuration. This option has no effect on alias expansion.

New Options for SMTP and LMTP Channels Has Been Implemented

You can now use the following options for SMTP and LMTP channels:

- A new TIMEOUT_MULTIPLIER TCP/IP channel-specific option has been implemented for SMTP and LMTP channels. This option is used to change the units of the various timeout parameters from the default of minutes to seconds, allowing for shorter timeouts with finer granularity.

- A new BANNER_RECEIVE_TIME TCP/IP-channel-specific option has been added. This new option specifies the amount of time the SMTP/LMTP client will wait to receive the initial banner from the SMTP/LMTP server. The default value for this option is 2 minutes. Prior to this option being available, the timeout to receive the banner was controlled by the STATUS_MAIL_RECEIVE_TIME TCP/IP-channel-specific option, which defaulted to 10 minutes.

--dryrun Option Has Been Added to msconfig Command

You can now specify --dryrun on the msconfig command line to turn off automatic configuration writes and if the configuration has been modified will cause msconfig to exit with an error (EX_CONFIG).

log_remote_option Has Been Added

You can use the log_remote_mta option to control the generation of a separate logging field for remote MTA information.

Support for the JSON Format

MTA connection and transaction logs can now be written in JSON format. JSON format is enabled by setting the log_format MTA option to 5. When the setting is done, each line of the resulting log file consists of a single, separate JSON object.

include_domain Option Has Been Added to msconfig Command

A bit-encoded include_domain MTA option has been added. At present only one bit (0, value 1) is defined, which if set causes destination domain information to be included in CONVERSIONS mapping probes.
**id MTA Option Has Been Added**

An id MTA option has been added. This option can be used to specify an identifier for a particular MTA or group of MTAs that share a common network setup. Currently, this option is only used by the smartsend plugin in its probes for IP address lists.

**interfaceaddress Source Channel Option Has Been Enhanced**

The interfaceaddress source channel option has been extended to allow specification of two different addresses, one used for logging and the other as the actual TCP/IP source address. Normally the same address is used for both purposes. When two addresses are specified they must be separated by a sharp sign with the logging address appears first, such as, "logging-address#bind-address".

**New Option Has Been Added**

A new TLS_NEGOTIATION_TIME TCP/IP-channel-specific option has been added. This new option specifies the amount of time the SMTP/LMTP client will wait for the opposite end of the connection during TLS negotiations. The default value for this option is 1 minute. Prior to this option being available, the timeout for TLS negotiation in the SMTP server was controlled by the STATUS_TRANSMIT_TIME TCP/IP-channel-specific option and the timeout for the TLS negotiation option in the SMTP client was controlled by the STATUS_RECEIVE_TIME TCP/IP-channel-specific option, both of which defaulted to 10 minutes.

**Additional Bit Flag Has Been Implemented for MTA**

The log_filename, log_envelope_id, log_tracking, log_message_id, log_auth, log_filter, log_reason, log_diagnostics, log_remote_mta, log_isc_status, log_uid, log_mailbox_uid, log_conversion_tag, and log_transactionlog MTA all accept an additional bit flag, position 2, value 4. If set along with bit 0 (value 1), this bit causes the attribute to appear unconditionally in XML and JSON log entries even if it is blank. The log_times, log_intermediate, and log_username use different bits to provide similar controls. See the option descriptions for details.

**Additional Virtual Channel Support in MTA**

Bit 3 (value 8) of the log_conversion_tag MTA option, if set, will cause the first conversion tag associated with each message recipient, if present, to be treated as an additional "virtual channel" by the MTA counter subsystem. This "channel" will then appear in counter output along with all the other channels. Note that no attempt is made to distinguish these virtual channels from normal channels; use of unique names must be dealt with by appropriate configuration.

**$< and $> Metacharacters Are Used in the AUTH_REWRITE Mapping**

The $< and $> metacharacters can now be used in AUTH_REWRITE mappings to send messages to syslog. The semantics are the same as in other access mappings, e.g, SEND_ACCESS.

**Additional MTA Option**

The new authrewrite_extra_headers MTA can be to include the content of additional header fields in AUTH_REWRITE mapping table probes.
Controlling the Prefix Generation on MTA-generated syslog Messages

The prefix used on syslog messages generated by the \texttt{log\_connections\_syslog} and \texttt{log\_messages\_syslog} MTA options is now controlled by the \texttt{log\_syslog\_prefix} MTA option.

\begin{itemize}
  \item \textbf{Note:} The default prefix in this case has been changed to be an empty string; it is no longer "IMTA-W-".
\end{itemize}

The "IMTA-W-" prefix used on MTA-generated syslog messages is now controlled by the \texttt{sndopr\_prefix} MTA option. Note that setting the option to the empty string eliminates the prefix entirely.

**processnestedmessages and retainnestedmessages Options Have Been Added**

The \texttt{processnestedmessages} and \texttt{retainnestedmessages} options have been added. You can use these options to control whether or not the conversion channel "looks inside" of nested message parts (processnestedmessages, the default) or treats them as leaf parts (retainnestedmessages).

**Documentation Updates**

The documentation set for Messaging Server 8.1.0 includes the following new guide:


**Deprecated and Removed Features**

Support for the following features may be eliminated in a later release, may be already removed in this release, or removed in a previous release:

- Support for Solaris 10, Oracle Linux 6, Red Hat Enterprise Linux 6 Deprecated
- Support for Index and Search Service (ISS) Removed
- Support for Cassandra Store Indexed Search Removed
- Support for Oracle Glassfish Message Queue Removed
- Support for Sun Cluster and Veritas Cluster Agents Removed
- Support for Delegated Administrator Tool Removed
- MMP Submission Proxy and MMP Legacy Config Support Removed
- Support for SSL server certificate validation for MMP connections Removed
- Support for SSL server certificate validation Removed
- TLS Version 1.1 Disabled by Default
- Support for Legacy Store msgtrace Logging Removed
- \texttt{capability\_x\_unauthenticate} Option Removed
- Support for IDN A-labels in LDAP Deprecated
- Support for SSL version 2 CLIENT-HELLO Removed
Support for Solaris 10, Oracle Linux 6, Red Hat Enterprise Linux 6 Deprecated

Messaging Server no longer supports Solaris 10, Red Hat Enterprise Linux 6, and Oracle Linux 6 operating system.

Support for Index and Search Service (ISS) Removed

Starting with this release of Messaging Server, Messaging Server no longer ships with the ISS component. Use of the old version of ISS with this version of Messaging Server is only supported for migration of search indexes from ISS to Elasticsearch.

Support for Cassandra Store Indexed Search Removed

This version requires use of Elasticsearch with Cassandra Store for Indexed Search. Use of Datastax Max with Solr integration is no longer supported starting with Messaging Server 8.1.0.

Support for Oracle Glassfish Message Queue Removed

This version no longer supports use of Glassfish Message Queue (also known as OpenMQ and Java Message Queue), except for the purpose of migrating from ISS to Elasticsearch. A warning will be generated in the log if Glassfish MQ support is enabled without Elasticsearch migration. Customers wishing to use JMS can use the ENS JMS provider (ens-jms.jar) to subscribe to Messaging Server events.

Support for Sun Cluster and Veritas Cluster Agents Removed

The Sun Cluster and Veritas Cluster Agents have been removed and are no longer supported. Oracle Clusterware, Automatic Failover, and Cassandra Store continue to be supported as HA options. The ha_ip_config tool has been removed; you can use msconfig to run HACConfig.rcp to configure the IP address for Oracle Clusterware HA. Oracle Clusterware HA certification is not completed in Messaging Server 8.1.0 release.

Support for Delegated Administrator Tool Removed

Starting with Messaging Server 8.1.0, the Oracle Communications Delegated Administrator tool is no longer provided with Messaging Server. The inetuser utility is included in the Messaging Server package and can be used as a basic limited provisioning tool. Users may also develop their own provisioning tools based on the information in the Oracle Communications Schema Guide.

The Delegated Administrator tool included with previous versions of Messaging Server might still work since there are no incompatible schema changes. However, since that tool is not actively updated, users should limit access to that tool to trusted administrators on a trusted network.

MMP Submission Proxy and MMP Legacy Config Support Removed

The MMP mail submission SMTP proxy has been removed from this release. Configurations including the submitproxy will generate a warning and be ignored. The MMP requires use of unified configuration starting with this release. Use the configtoxml utility to convert a legacy configuration to a unified configuration.
Support for SSL server certificate validation for MMP connections Removed
Starting with Messaging Server 8.1.0, the IMAP/POP, immonitor-access, and mshttpd POP collect services will fail connections if the server certificate can not be fully validated (previous releases ignored invalid certificates for these services). Server administrators relying on these services should verify necessary certificates are properly issued and can be validated prior to upgrading to Messaging Server 8.1.0.

Support for SSL server certificate validation Removed
The base.ldapcheckcert option has been deleted in Messaging Server 8.1.0. LDAP SSL connections will fail unless the server certificate is valid. This option previously defaulted to 1 so there will not be a behavior change unless this had been explicitly set to 0.

TLS Version 1.1 Disabled by Default
Messaging Server 8.1.0 now disables TLS 1.1 by default. In addition, it supports TLS version 1.3 and enables that version by default. The new base.tlsv13enable option can be used to disable TLS 1.3. The base.tlsminversion option can be used to re-enable TLS 1.0 or TLS 1.1 if required for compatibility with legacy clients. The sslv3enable option has been deleted; this version no longer supports SSL version 3.

Support for Legacy Store msgtrace Logging Removed
The legacy msgtrace log format has been removed with this release. Store Transaction logging will be generated instead of the legacy format. Note that store transaction logging does not include the Message-ID header value by default; see the messagetrace.actionattributes option for information on enabling Message-ID header value logging.

capability_x_unauthenticate Option Removed
With the publication of RFC 8437, there is now a standards-track UNAUTHENTICATE extension to IMAP. The imap.capability_unauthenticate option is now used to turn on the standard extension. The pre-standard option, imap.capability_x_unauthenticate now has no effect except to advertise the X-UNAUTHENTICATE capability. The new option must be used to enable the extension.

Support for IDN A-labels in LDAP Deprecated
Previous releases didn’t process IDN A-labels (RFC 5890) present in a fully qualified user login identity. As a result it was possible to provision non-ASCII domain names to LDAP in their A-label form as long as the A-label form was always used. This release now decodes IDN A-labels in login user domains, so domains in LDAP must be provisioned in U-label rather than A-label form. This change is expected to improve readability of logs and improve end-user experience for non-ASCII domains.

Support for SSL version 2 CLIENT-HELLO Removed
Messaging Server no longer supports SSL clients that violate RFC 6176. Such clients will timeout during the SSL negotiation as the server will no longer interpret the prohibited SSL version 2 CLIENT-HELLO message.
Fixes in This Release

This section lists the fixed issues in this release of Messaging Server.

Table 1  Fixes in Messaging Server 8.1.0

<table>
<thead>
<tr>
<th>Bug Number</th>
<th>Customer SR</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>29311176</td>
<td>N/A</td>
<td>Default value of the addrsperfile channel option would be set only when no addrsperfile is in effect.</td>
</tr>
<tr>
<td>29282512</td>
<td>N/A</td>
<td>The log verify option for EXPN and VRFY operations has been added on SMTP.</td>
</tr>
<tr>
<td>29048156</td>
<td>N/A</td>
<td>Distributed shared folders are now properly working.</td>
</tr>
</tbody>
</table>
| 29046607   | N/A         | When the local.service.http.use
timeout date option is set, the mbox.mjs command in mshttpd would list the message sent date and not the internal date. |
<p>| 28997503   | N/A         | Support has been added in Messaging Server for sending text to syslog from the AUTH_REWRITE mapping table. |
| 28890357   | N/A         | The imscnutil utility will move the status of user to CLOSING if the user is performing a transaction and could not be killed immediately. |
| 28873176   | N/A         | The CasAccessTier.rcp file now correctly sets the store.dbtype value. |
| 28869023   | N/A         | --isc switch has been removed from the configure tool usage. |
| 28763997   | N/A         | Network File System (NFS) support is added for the MTA logs. |
| 28755906   | N/A         | ESTALE error on nslog are handled now. |
| 28746104   | N/A         | Invalid bs entry in transaction logs for search, sort or thread mailbox events is fixed now. |
| 28734043   | N/A         | The reporting of certain TLS errors by SMTP/LMTP clients has been fixed. |
| 28695393   | N/A         | Issue in A-labels decoding In intermediate addresses is fixed now. |
| 28685895   | N/A         | Issues caused due to the incompatible change introduced due to Solaris 11.4 b64_decode api is fixed now. |
| 28680934   | N/A         | A problem has been fixed with imap append code using the wrong extension for relinker file - *amsg. |
| 28577594   | N/A         | A problem has been fixed so that refreshing does not crash MMP With Adminpolicy Group. |
| 28512469   | N/A         | A problem has been fixed with the uninitialized use of as= in the MTA log. |
| 28506353   | N/A         | Two new options, TIMEOUT and CONNECT_TIMEOUT, have been added to milter configuration files. |
| 28502370   | N/A         | A problem has been fixed with &quot;B&quot; records were not being logged. |</p>
<table>
<thead>
<tr>
<th>Bug Number</th>
<th>Customer SR</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>28498985</td>
<td>N/A</td>
<td>Oracle Convergence now generates separate messages for each bcc recipient with an explicit &quot;bcc:&quot; header value.</td>
</tr>
<tr>
<td>28495718</td>
<td>N/A</td>
<td>Support has been added to enable / disable multiple spam filter slots in the FROM_ACCESS mapping table.</td>
</tr>
<tr>
<td>28475802</td>
<td>N/A</td>
<td>The DNS Realtime Blackhole List check for incoming POP and IMAP connections is now properly working when MMP’s are under production load.</td>
</tr>
<tr>
<td>28468607</td>
<td>N/A</td>
<td>Support has been added to pass conversion tag information from SMTP client to SMTP server.</td>
</tr>
<tr>
<td>28460700</td>
<td>N/A</td>
<td>HELO without an argument should clear system name even though none was specified.</td>
</tr>
<tr>
<td>28445114</td>
<td>N/A</td>
<td>LDAP SSL connection error seen during mboxutil -r is fixed now.</td>
</tr>
<tr>
<td>28428519</td>
<td>N/A</td>
<td>Support has been added to the imbackup utility to track single copy in classic store.</td>
</tr>
<tr>
<td>28417187</td>
<td>N/A</td>
<td>Flag update scan has been optimized to reduce high CPU issues.</td>
</tr>
<tr>
<td>28368078</td>
<td>N/A</td>
<td>Check should be performed on musttliserver for the IGNORE_BAD_CERT option.</td>
</tr>
<tr>
<td>28314804</td>
<td>N/A</td>
<td>-s option has been added to the imexpire command to exclude &quot;0 expired messages&quot; on mailboxes which has no expiration messages.</td>
</tr>
<tr>
<td>28314561</td>
<td>N/A</td>
<td>Support has been added to turn on resolver client debugging for MMP DNS RBL lookups.</td>
</tr>
<tr>
<td>28266407</td>
<td>N/A</td>
<td>The memory leak occurs when a message is viewed in webmail and then the message headers are re-fetched for the same message. This memory leak has been fixed.</td>
</tr>
<tr>
<td>28265138</td>
<td>N/A</td>
<td>Empty local part string is allowed now before rebuilding the address for rewriting.</td>
</tr>
<tr>
<td>28256387</td>
<td>N/A</td>
<td>A problem has been fixed with the imexpire command to not duplicate tasks.</td>
</tr>
<tr>
<td>28256382</td>
<td>N/A</td>
<td>A problem has been fixed where the store.searchengine should not be restricted</td>
</tr>
<tr>
<td>28249856</td>
<td>N/A</td>
<td>A problem has been fixed where autocreate check_mailuserstatus function is not checking the defer status set by rehostuser.</td>
</tr>
<tr>
<td>28214925</td>
<td>N/A</td>
<td>Issues with vacation response when List-Id is present in the email header is fixed.</td>
</tr>
<tr>
<td>28167630</td>
<td>N/A</td>
<td>Milter ADDHEADER and INSHEADER actions now call the MILTER_ACTIONS mappings.</td>
</tr>
<tr>
<td>28122046</td>
<td>N/A</td>
<td>A problem has been fixed where the Imapd is crashed in the Index_fetchreply.</td>
</tr>
<tr>
<td>28063769</td>
<td>N/A</td>
<td>Problem caused by attempting to optimize MIME scanning across sieve and conversion operations has been fixed.</td>
</tr>
</tbody>
</table>
Known Problems

This section lists the known problems in this release of Messaging Server.

Indexed Search Convertor Warning While Converting PDF File

SR Number: N/A
Bug Number: 26226239

In Cassandra message store, the Indexed Search Convertor might fail to convert a large PDF file.

Cassandra Store Cannot Be Stopped When Other Message Store Processes Are Running

SR Number: N/A
Bug Number: 26187893

Indexed Search Converter Should Limit the Queue Size

SR Number: N/A
Bug Number: 26122176

During bursts of high traffic, the Indexed Search Convertor (ISC) does not currently limit the queue size and return a busy error to the client when the queue is full, enabling the client to fail over to another ISC.

Workaround:

Perform one of the following:

1. Increase the active thread limit (isc.msgprocessor.maxthreads option).
2. Add more ISC instances to the deployment.

Cassandra Message Store Quota Root Usage Updates Can Overwrite Each Other

SR Number: N/A
Bug Number: 25667309
Cassandra message store quota root usage updates can overwrite each other, so, quota usage can be inaccurate.

**Cassandra Store Search Should Normalize Queries to NFC Format**  
SR Number: N/A  
Bug Number: 25506348  
Some iOS clients send search requests in the non-standard NFD format, which produce incorrect results when the backing index is in the standard NFC format.

**imap lsub Command Does Not Display Subscribed Shared Folders**  
SR Number: N/A  
Bug Number: 25345931  
Because Cassandra message store does not currently support shared folders, subscribed folders are not displayed when a user with access rights and subscribed to a shared folder lists the subscribed folders.

**Event Notification Service Times Out Under Stress**  
SR Number: N/A  
Bug Number: 25205101  
Occasionally, the Event Notification Service (ENS) times out when under stress.  
Workaround:  
If an overload condition causes ENS to time out, add additional store affinity groups to the deployment.

**Cassandra Message Store Is Missing Annotation Search**  
SR Number: N/A  
Bug Number: 25177871  
Currently, the Cassandra message store does not advertise ANNOTATE-EXPERIMENT-1 because it does not implement annotation search yet.

**Cassandra Store msgindex Table Partition Assignment Can Be Inaccurate**  
SR Number: NA  
Bug Number: 25130372  
The Cassandra store msgindex table partition assignment can be inaccurate when multiple threads are updating the quota record of a user at the same time. The msgindex partition can become very large and impact performance.  
Workaround: Limit the total message count per user to less than 1 million messages.

**imsrestore Command Does Not Restore Annotations and Shared Folders in Cassandra Message Store**  
SR Number: N/A
Bug Number: 24755752
Currently, in Cassandra message store, the `imsrestore` command does not restore annotations and shared folders because these features are not yet supported.

**Internal date Time Zone Information Is Lost During Backup and Restore**
SR Number: N/A
Bug Number: 24462739

**Resource Consumption Grows in Cassandra Store as Number of Messages Inbox Increases**
SR Number: N/A
Bug Number: 24462049
The amount of CPU, RAM, and network resources consumed by `imapd` when in Cassandra message store mode grows as the number of messages in a mailbox increases.

**imsbackup -x Command Does Not Back Up Expunged Messages**
SR Number: 3-14371431171, 3-14313694321
Bug Number: 24406306
Running the `imsbackup -x` command does not back up expunged messages.

**Mail Deletion Fails When Deleted by a User Subscribed to the Mailbox (Cassandra Message Store Only)**
SR Number: N/A
Bug Number: 24302912
This problem occurs only when a user having access to a shared folder performs expunge operations on the shared folder.

**Unable to Copy Email Messages to Shared Folders (Cassandra Message Store Only)**
SR Number: N/A
25325977
Because Cassandra message store does not currently support shared folders, copying email messages to shared folders does not work.

**configure Script Does Not Always Disable sendmail**
SR Number: N/A
Bug Number: 23070490
Disabling `sendmail` through the `configure` script is not always successful.
**Shared Folders Are Not Supported (Cassandra Message Store Only)**
SR Number: N/A
Bug Number: N/A
Currently, the Cassandra message store does not support shared folders.

**Deleting and Moving Email Messages on iOS Is Not Successful**
SR Number: N/A
Bug Numbers: 24389385, 24384152, and 24382296
There is an issue on iOS where deleting all email messages, or moving all email messages into a folder, might not be successful.

**Store ENS Event Feature Parity with Glassfish MQ Store Events**
SR Number: N/A
Bug Number: 26290829
The events and event attributes available for ENS need to have feature parity with the events and event attributes that are available for Oracle Glassfish Message Queue events.

**Messaging Server Now Requires High Level of TLS Security**
SR Number: NA
Bug Number: 21626085
Messaging Server 8.0.1 and greater requires a high level of TLS security that legacy clients may not support. If legacy clients are unable to connect to Messaging Server, then the tlsminversion options can be used to reduce server security requirements thus allowing legacy clients to connect.

Workaround:
Run the following command in a Unified Configuration before starting Messaging Server to avoid a start up failure after upgrading:

```
msconfig set base.tlsminversion TLS1.0
```

or in a legacy configuration:

```
configutil -o local.tlsminversion -v TLS1.0
```

**Documentation Accessibility**
For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at

**Access to Oracle Support**
Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit
http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit