

syslog-ng Premium Edition 7.0.23

Release Notes

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These release notes provide information about the syslog-ng Premium Edition release.

About this release

Welcome to syslog-ng Premium Edition (syslog-ng PE) version 7.0.23 and thank you for choosing our product. This document describes the new features and most important changes since the latest release of syslog-ng PE. The main aim of this paper is to aid system administrators in planning the migration to the new version of syslog-ng PE. The following sections describe the news and highlights of syslog-ng PE 7.0.23.

Starting with version 7, syslog-ng Premium Edition is released as a rolling release. For details, see the [Version policy](#).

Supported platforms

The syslog-ng Premium Edition application is officially supported on the following platforms. Note that the following table is for general reference only, and is not always accurate about the supported platforms and options available for specific platforms. Unless explicitly noted otherwise, the subsequent releases of the platform (for example, Red Hat Enterprise Linux 7 and its update releases like 7.2) are also supported.

For the x86_64 architecture, the following platforms are supported in version 7.0.23 of syslog-ng PE:

- CentOS 7
- CentOS 8
- Debian 8 (Jessie)

- Debian 10 (Buster)
- Oracle Linux 6
- Oracle Linux 7
- Red Hat EL 6
- Red Hat EL 7
- Red Hat EL 8
- SLES 12
- Ubuntu 14.04 LTS (Trusty Tahr)
- Ubuntu 16.04 LTS (Xenial Xerus)
- Ubuntu 18.04 LTS (Bionic Beaver)
- Ubuntu 20.04 LTS (Focal Fossa)

For details about the syslog-ng Agent for Windows application, see the [syslog-ng Agent for Windows documentation](#).

For using syslog-ng PE on other platforms (for example, AIX), see the list of supported platforms in the [syslog-ng PE version 6 Administration Guide](#).

New features in syslog-ng PE 7.0.23

Version 7.0.23 of syslog-ng PE includes the following main features.

- Clustering support for Windows Event Collector (WEC)
- Support for new platforms:
 - Debian 10 (Debian Buster)
 - Ubuntu 20.04 LTS (Focal Fossa)
- Support for Proxy Protocol

Resolved issues

The following is a list of issues addressed in this release.

Table 1: General resolved issues in syslog-ng PE 7.0.23

| Resolved Issue | Issue ID |
|---|----------------|
| Fixed Windows Event Collector (WEC) bookmark handling. This could cause message duplication or loss | SYSLOGDEV-4974 |
| json-parser: limit the maximum length of name fields of SDATA in 32 | SYSLOGDEV- |

| Resolved Issue | Issue ID |
|--|-----------------|
| characters | 5318 |
| json-parser: Fixed wrong parsing of Int64 integers | SYSLOGDEV-5495 |
| Set verbosity of "destination timeout" debug messages to verbose instead of notice | SYSLOGDEV-5505 |
| Fixed a crash when syslog-ng stored a lot of messages in encrypted logstore | SYSLOGDEV-5508 |
| Fixed TLS certificate hostname verification when using failover() servers | SYSLOGDEV-5559 |
| Fixed minor memory leaks during opening a logstore | SYSLOGDEV-5586 |
| OpenSSL upgraded to 1.1.1h | SYSLOGDEV-5645 |

Table 2: General resolved issues in syslog-ng PE 7.0.22

| Resolved Issue | Issue ID |
|--|-----------------|
| Fixed an upgrade error from syslog-ng PE 6 LTS in the persist entry. Related error message: "Legacy ALTP entry has an unexpected size, we can not continue to use it" | SYSLOGDEV-5427 |
| Fixed a crash when the memory buffer of the disk buffer overloaded. | SYSLOGDEV-5463 |

Table 3: General resolved issues in syslog-ng PE 7.0.21

| Resolved Issue | Issue ID |
|--|-----------------|
| If syslog-ng PE was not able to create a templated file because the wrong path came from the message, it tried to create the file continuously instead of dropping the message. This has been fixed. | SYSLOGDEV-2833 |
| Fixed a possible logstore memory leak in case of large log messages. The syslog-ng PE application will drop the message when it cannot be put into the logstore due to larger size than journal block size or when serializing error happens. | SYSLOGDEV-5165 |
| Stackdriver: Fixed a crash in case of multiple, continuously occurring token update failures. | SYSLOGDEV-5383 |
| Fixed incorrect fields of lgstool cat when template function was used without seek to a given record ID function. | SYSLOGDEV-5417 |

Table 4: General resolved issues in syslog-ng PE 7.0.20

| Resolved Issue | Issue ID |
|---|-----------------|
| Fixed checking if an idle file can be closed (time-reap() option) Instead of closing a file if no new messages were written to a file within time-reap() seconds after the last activity, syslog-ng PE checked periodically if a file can be closed. | SYSLOGDEV-4357 |
| OpenSSL upgraded to version 1.1.1g | SYSLOGDEV-5290 |
| Fixed a possible memory leak in logstore when a message cannot be stored and serialized correctly. | SYSLOGDEV-5364 |

Table 5: General resolved issues in syslog-ng PE 7.0.19

| Resolved Issue | Issue ID |
|--|-----------------|
| OpenSSL upgraded to version 1.1.1d | SYSLOGDEV-5113 |
| File source cannot process new message when the log-msg-size() option is increased after reading a longer message. | SYSLOGDEV-5044 |
| The log_id() option is mandatory for the stackdriver() destination | SYSLOGDEV-4726 |
| Added the multi-line-timeout() option for file source. | SYSLOGDEV-3830 |

Table 6: General resolved issues in syslog-ng PE 7.0.18

| Resolved Issue | Issue ID |
|--|-----------------|
| Configuration objects preceded by an inline destination are ignored | SYSLOGDEV-4975 |
| The loggen tool does not run when installed from dot run installer into a custom directory | SYSLOGDEV-5001 |
| Monitoring source does not set the log level correctly | SYSLOGDEV-5026 |
| Memory leak during reading logstores | SYSLOGDEV-5036 |
| http() destination ignores the frac-digits() global setting | SYSLOGDEV-5057 |

Table 7: General resolved issues in syslog-ng PE 7.0.17

| Resolved Issue | Issue ID |
|---|-----------------|
| WEC: handle invalid UTF-16 characters gracefully | SYSLOGDEV-4182 |
| Fix TID reinitialization mechanism in ALTP during restart | SYSLOGDEV-4333 |
| splunk-hec(): Fix an error in handling indexed fields | SYSLOGDEV-4689 |
| Fix persist structure during upgrade from PE version 6 | SYSLOGDEV-4787 |
| RPM upgrade overwrites WEC configuration | SYSLOGDEV-4812 |
| Reliable disk queue corruption fixes | SYSLOGDEV-4826 |
| ALTP ack_timeout fix | SYSLOGDEV-4835 |
| WEC: forwarded logs have incorrect hostname | SYSLOGDEV-4847 |
| OpenSSL upgraded to 1.0.2t | SYSLOGDEV-4981 |
| OpenSSL upgraded to 1.1.0l on Ubuntu Bionic | SYSLOGDEV-4982 |

Table 8: General resolved issues in syslog-ng PE 7.0.16

| Resolved Issue | Issue ID |
|--|-----------------|
| Crash in patterndb during context timeout | SYSLOGDEV-4945 |
| Memory leak in dbparser | SYSLOGDEV-4925 |
| OpenSSL upgraded to 1.1.0k on Bionic platform | SYSLOGDEV-4831 |
| OpenSSL upgraded to 1.0.2s | SYSLOGDEV-4829 |
| syslog-ng hangs under high load | SYSLOGDEV-4745 |
| Incorrect numerical operators in filter statements | SYSLOGDEV-4785 |

| Resolved Issue | Issue ID |
|---|-----------------|
| Bad quotation in splunk-hec() destination prevents load-balancing working correctly | SYSLOGDEV-4794 |
| http destination should give a warning if workers() is less than urls() | SYSLOGDEV-4929 |
| geoip2 does not include IP address in the error messages | SYSLOGDEV-4928 |
| Infinite loop during reload | SYSLOGDEV-4927 |
| Improve error handling in --preprocess-into | SYSLOGDEV-4926 |
| Reset timezone on configuration reload | SYSLOGDEV-4924 |
| Flushing destination on reload is slow | SYSLOGDEV-4923 |
| Wildcard filesources crashes | SYSLOGDEV-4922 |

Table 9: General resolved issues in syslog-ng PE 7.0.14

| Resolved Issue | Issue ID |
|--|-----------------|
| Crash in network source with ALTP due to idle timer | SYSLOGDEV-4711 |
| OpenSSL 1.0.2r upgrade | SYSLOGDEV-4742 |
| http-destination stuck when reverting to old configuration | SYSLOGDEV-4747 |
| syslog-ng segmentation fault on statistics query | SYSLOGDEV-4759 |
| WEC: Adds list support to Windowsevent-parser | SYSLOGDEV-4789 |

Table 10: General resolved issues in syslog-ng PE 7.0.13

| Resolved Issue | Issue ID |
|---|-----------------|
| Fix loggen parameters | SYSLOGDEV-4684 |
| Fix seeking in logstore using lgstool cat command | SYSLOGDEV-4680 |
| Empty disk queue truncate fix | SYSLOGDEV-4628 |

| Resolved Issue | Issue ID |
|---|----------------|
| Memory leak during reload when using the app-parser | SYSLOGDEV-4564 |
| Race condition during reload when using license-counter-reset | SYSLOGDEV-4540 |

Table 11: General resolved issues in syslog-ng PE 7.0.12

| Resolved Issue | Issue ID |
|--|----------------|
| non-reliable diskq: fixes false positive corruption detection | SYSLOGDEV-4674 |
| Dqtool reported disk queue corrupted false positively | SYSLOGDEV-4407 |
| Append \$(basename) to filename template correctly | SYSLOGDEV-4673 |
| SSL: Multiple ca-dir() related issues fixed | SYSLOGDEV-4669 |
| Fix frequent disconnects of syslog() driver when using TLS | SYSLOGDEV-4667 |
| OpenSSL upgraded to 1.0.2q | SYSLOGDEV-4650 |
| File destination fd leak after reload when time-reap elapsed | SYSLOGDEV-4609 |
| hdfs: fd leak during reload | SYSLOGDEV-4581 |
| tls: Handle allow-compress correctly | SYSLOGDEV-4580 |
| Socket leak when using udp destination with spoof-source enabled | SYSLOGDEV-4552 |

Differences in features between syslog-ng PE 6 LTS and 7

In general, syslog-ng Premium Edition version 7 has much more features than version 6 LTS, therefore One Identity recommends using version 7 for all deployments, except when a feature that you require is only available in version 6 LTS. In case you need help with migrating from version 6 LTS to 7, [contact our Support Team](#) for help. Also note that as an alternative to the syslog-ng Agent for Windows application, [syslog-ng PE version 7 supports an agent-less solution to fetch log messages from Windows hosts](#).

Features available only in syslog-ng PE 6 LTS

The following features that are available in syslog-ng Premium Edition 6 LTS are not available in syslog-ng PE 7.

- The `allow-compress()`, `ca-dir-layout()`, and `cert-subject()` options related to TLS transport.
- The syslog-ng PE 7 application is currently supported only on Linux platforms. For a detailed list, see ["Supported platforms" in the Administration Guide](#).
- The `spoofer-interface()` options of the `network()` and `syslog()` destinations.
- The `read-old-records()` and `use-syslogng-pid()` options of the `file()` source.
- The `replace()`, `cut()`, and `format-snare()` template-functions.
- The `#{OSUPTIME}` macro is not available.
- When syslog-ng PE 6 started, its startup message included the hash of its configuration file. This has been removed from the startup messages.
- Reading and writing log files located on network shares is not supported.

Features that have been changed or replaced in syslog-ng PE 7

The following options and features have changed, and require you to modify your configuration file.

- Configuring the size of disk-buffers has changed. Instead of `log-disk-fifo-size (<size>)`, use the `disk-buffer(disk-buf-size(<size>) reliable(no))` option. For details, see ["Using the disk-buffer option and memory buffering" in the Administration Guide](#).
- To store disk-buffer files in a specific folder, use the `disk-buffer(dir ("/your/diskbuffer/directory"))` option. You cannot set this directory from the command-line, `--qdisk-dir` command-line option is not available.
- The RLTP transport protocol has been renamed to ALTP, so you have to use `transport (altp)` instead of `altp`. Also, the `message-acknowledgement-timeout()` option has been deprecated and has no effect. For details, see ["Reliability and minimizing the loss of log messages" in the Administration Guide](#).
- Wildcard support has been removed from the file source driver and moved to the separate `wildcard-file()` source. Also, the `force-directory-polling()` option has been replaced with the `monitor-method("poll")` option. For details, see ["wildcard-file: Collecting messages from multiple text files" in the Administration Guide](#).
- The `mark-mode("host-idle")` option does not work. Remove it from your configuration.
- Certain labels in the output of the `syslog-ng-ctl stats` command have been changed, for example, the "stored" counter has been renamed to "queued".
- If you use the `multi-line-prefix()` or `multi-line-garbage()` options in your configuration, add also the `multi-line-mode("regexp")` option. Note that now the `multi-line-prefix()` and `multi-line-garbage()` options do not have a timeout.

- When comparing values in filter expressions (for example, in a filter, conditional rewrite, lgstool), note that the '==' operator now works only on numerical values. To test if two strings are identical, use the eq operator. For example:

```
filter f_host {"${HOST}" eq "localhost1234"};
```

- Timequality fields in RFC5424-formatted log messages are not available (the timeQuality isSynced="0/1" tzKnown="0/1" SDATA fields are not available).
- The file-related SDATA fields that were available for log messages that syslog-ng PE read from a file source (file@18372.4 position="34" size="34" name="/path/and/filename") are not available.

Platforms not supported in syslog-ng PE 7

The following platforms are supported only in syslog-ng Premium Edition 6 LTS.

- AIX
- syslog-ng Agent for Windows

For a complete list of supported platforms, see ["Supported platforms" in the Administration Guide](#).

Product licensing

To enable a trial license

1. Apply for a trial license at the [syslog-ng website](#).
2. Download the license and the installation package for your platform, then follow the installation instructions in the Administration Guide.

To enable a purchased commercial license

1. Download the license and the installation package for your platform, then follow the installation instructions in the Administration Guide.

Upgrade and installation instructions

To install or upgrade syslog-ng Premium Edition (syslog-ng PE), follow the instructions in ["Installing syslog-ng PE" in the Administration Guide](#).

NOTE: The upgrade from syslog-ng PE 6LTS has been made more robust starting with syslog-ng PE version 7.0.23. If you're upgrading from a syslog-ng PE 6LTS version, first upgrade to the latest available syslog-ng PE 6LTS release, then upgrade to syslog-ng PE 7LTS.

More resources

Additional information is available from the following:

- [Online product documentation](#)

Globalization

This section contains information about installing and operating this product in non-English configurations, such as those needed by customers outside of North America. This section does not replace the materials about supported platforms and configurations found elsewhere in the product documentation.

This release is Unicode-enabled and supports any character set. In this release, all product components should be configured to use the same or compatible character encodings and should be installed to use the same locale and regional options. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America, Central and Eastern Europe, Far-East Asia, Japan. It supports bidirectional writing (Arabic and Hebrew). The release supports Complex Script (Central Asia – India, Thailand).

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zlib 1.2.3

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
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```

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